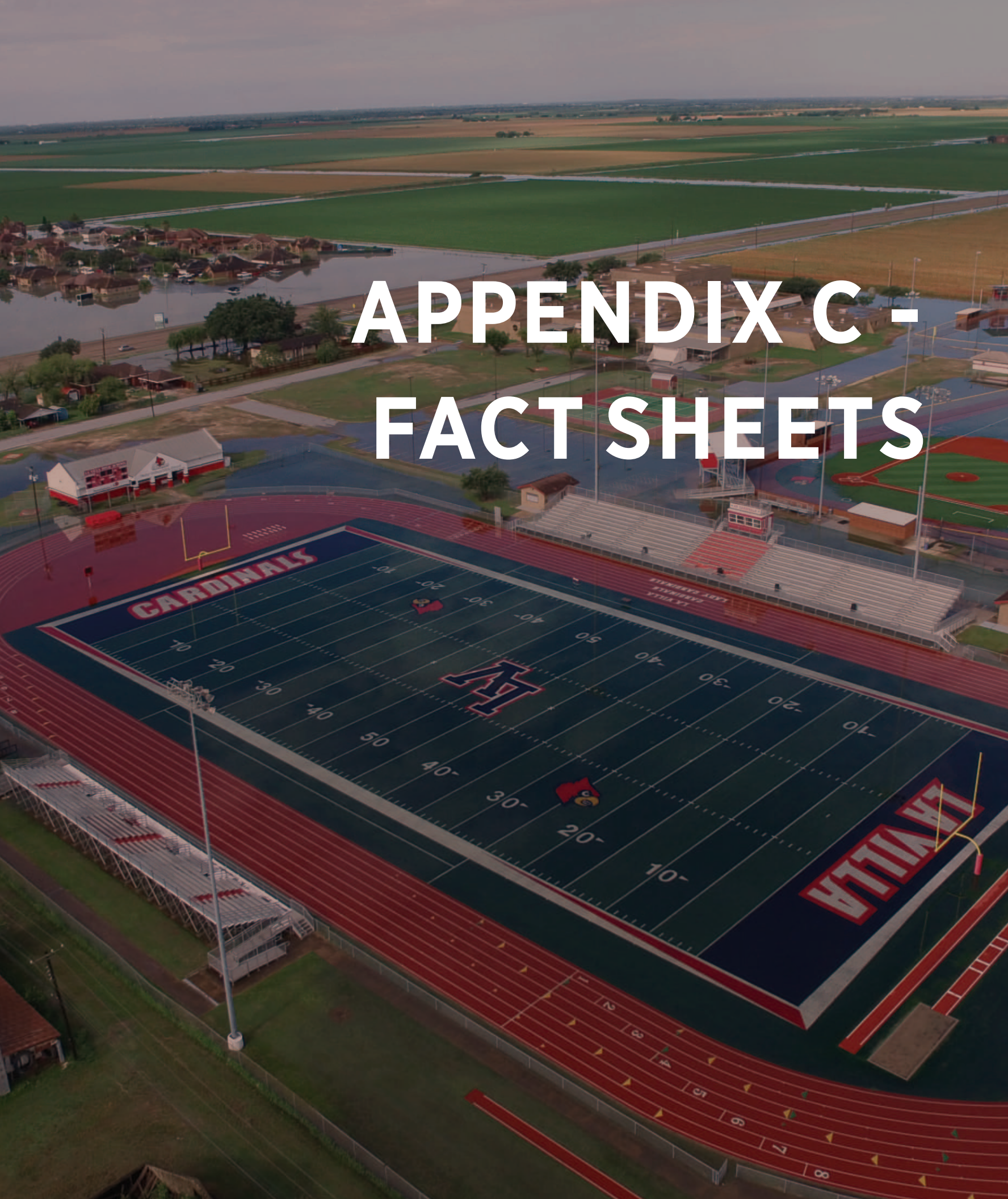


# APPENDIX C - FACT SHEETS







**FLOOD MANAGEMENT  
EVALUATIONS  
(FMES)  
FACT SHEETS**



## Brooks County

FME ID: **151000001**

## FME Description

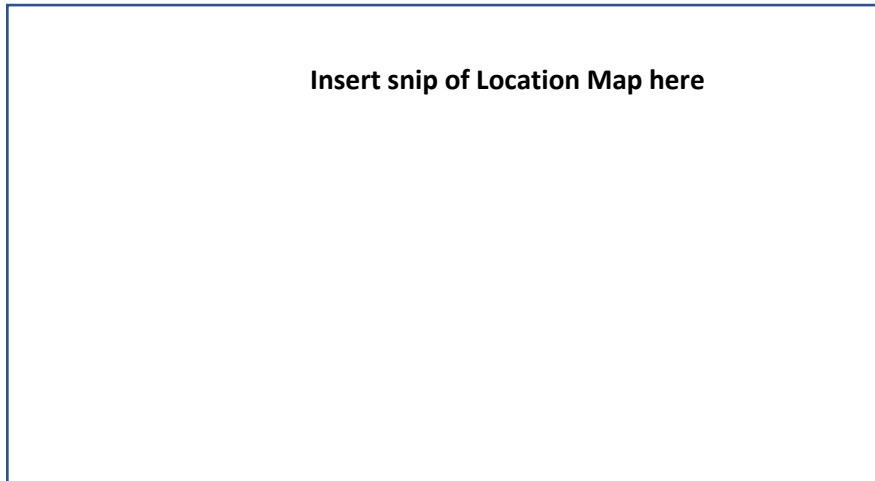
Develop Flood risk maps for the county of Brooks and develop CIP

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

## Study Area

City/ Cities  
County/ Counties **Brooks**  
HUC 8  
HUC 12  
Study Area (sq. mi.) **685.70**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

## Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



FME ID: 151000002

## Bayview Action #6

### FME Description

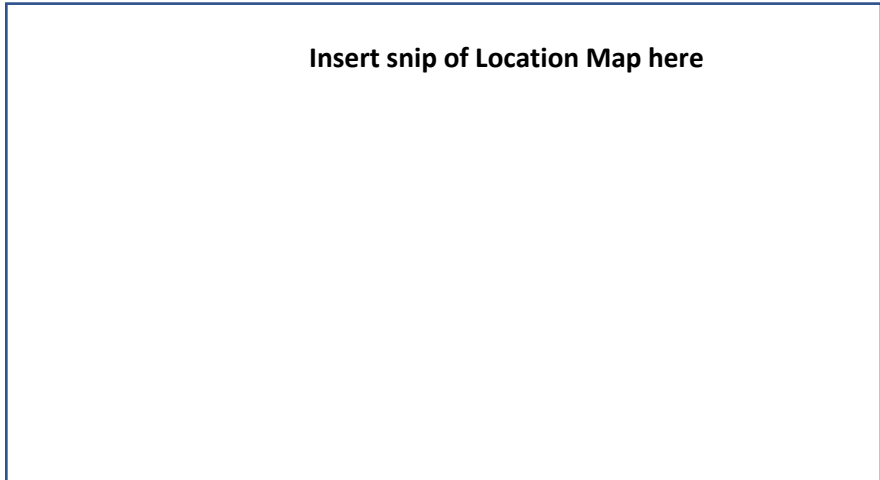
Upgrade three roadway bridges and one footbridge including structural improvements and stabilization to reduce damages caused by flooding and high winds.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Bayview**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080800,**  
**121102080900**  
 Study Area (sq. mi.) **N/A**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$369,600	Study Sponsor:	Bayview
Estimated year to start:	2018	Entity with Oversight	Bayview
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Action Plan or other plan?	
		(Potential) Source of Funding	HMGP; USDA; Other Grants

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Brownsville Action #1

FME ID: 151000003

### FME Description

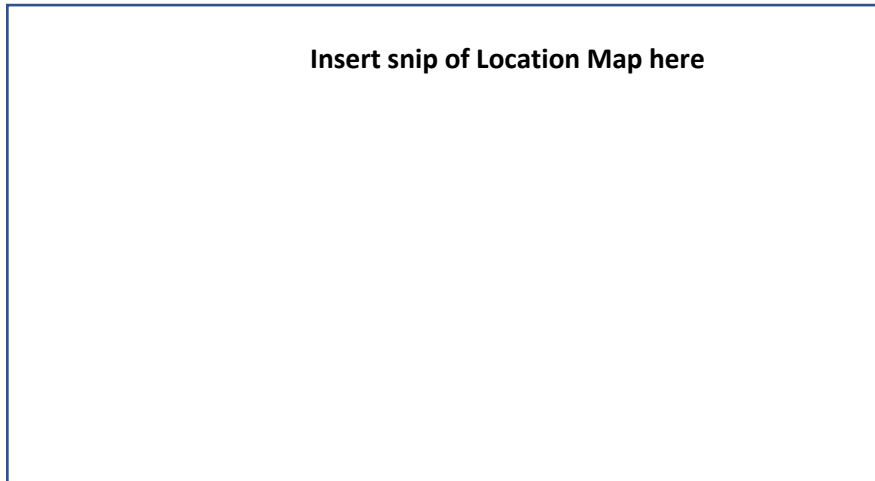
Upgrade and increase culverts at specific locations in City in order to adequately convey storm water. Selected locations including Boca Chica Blvd. area, International Blvd., North Main drainage ditch

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Brownsville**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080800,**  
**121102080900**  
 Study Area (sq. mi.) **N/A**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$369,000	Study Sponsor:	City of Brownsville
Estimated year to start:	2018	Entity with Oversight	City of Brownsville
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Action Plan or other plan?	
		(Potential) Source of Funding	HMGP; USDA; Other Grants

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Brownsville Action #16

FME ID: 151000004

### FME Description

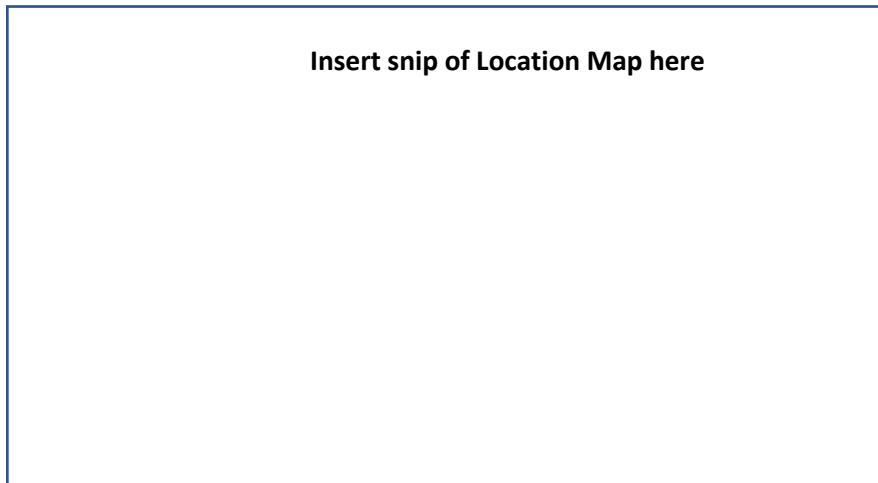
Construct a weir to prevent flood risk from the overflow of canals located on the North side of Brownsville

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Brownsville**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080800,**  
**121102080900**  
 Study Area (sq. mi.) **N/A**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$39,000	Study Sponsor:	City of Brownsville
Estimated year to start:	2018	Entity with Oversight	City of Brownsville
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Action Plan or other plan?	
		(Potential) Source of Funding	HMGP; USDA; Other Grants

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Brownsville Action #17

FME ID: 151000005

### FME Description

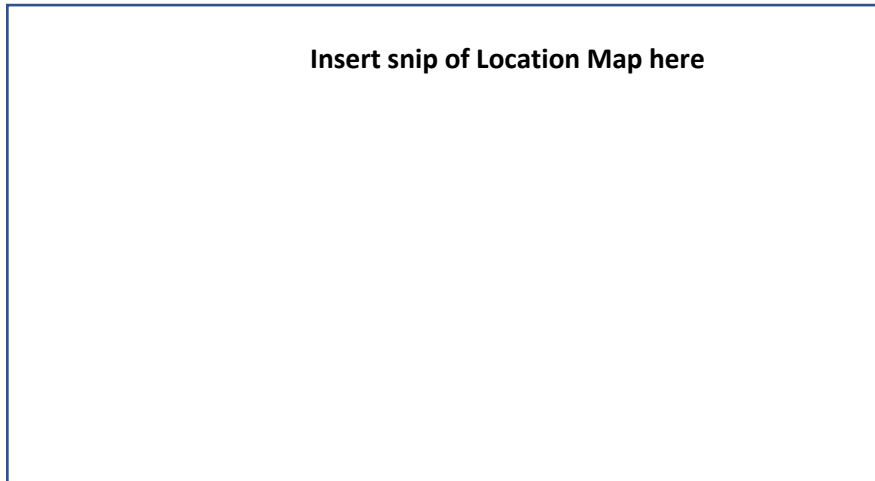
Construct and/or expand culverts on rural roads and main stream outfalls. Locations include: 1) Central Ave to Martinelle; 2) Robindale to Old Place ; 3) Dana 802 to High Emerson ; 4) Pablo Kisel from Morrison to Alton Gloor

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Brownsville**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080800,**  
**121102080900**  
 Study Area (sq. mi.) **N/A**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$99,000	Study Sponsor:	City of Brownsville
Estimated year to start:	2018	Entity with Oversight	City of Brownsville
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Action Plan or other plan?	
		(Potential) Source of Funding	HMGP; USDA; Other Grants

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Brownsville Action #24

FME ID: 15100006

### FME Description

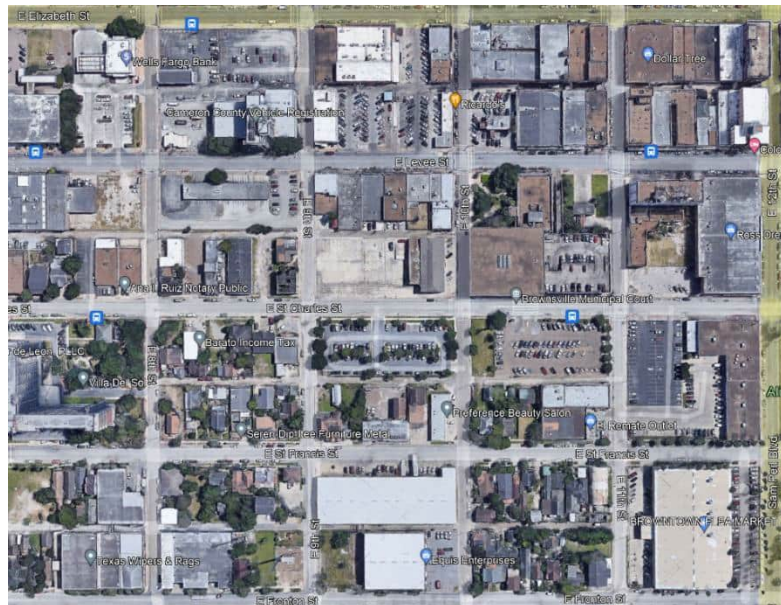
Improve drainage and replace or upgrade gutters at City Plaza buildings.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Brownsville**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080800,**  
**121102080900**  
 Study Area (sq. mi.) **0.1**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$19,800	Study Sponsor:	Brownsville
Estimated year to start:	Upon Funding	Entity with Oversight	Brownsville
Time to complete?		Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	Capital Improvement Funds

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Indian Lake Action #1

FME ID: 15100007

### FME Description

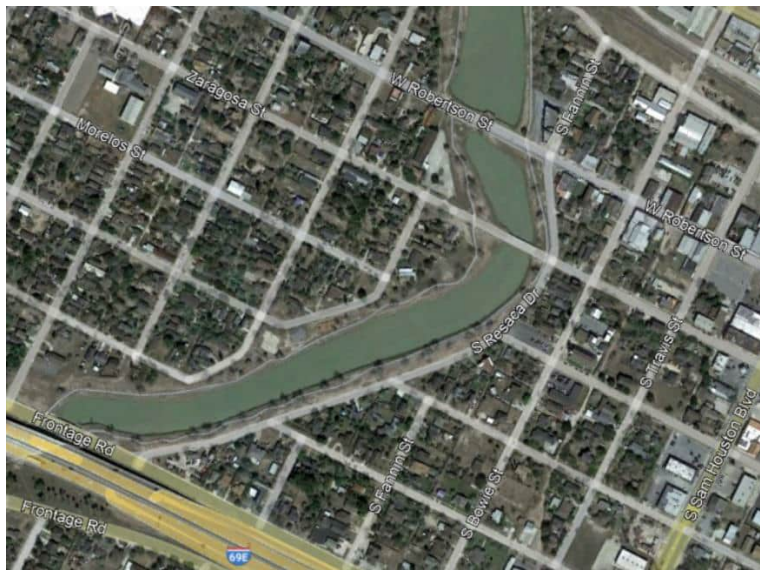
Elevate and harden S Resaca Shore Drive bridge to reduce risk of damages and maintaining critical access route.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Indian Lake**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080900**  
 Study Area (sq. mi.) **0.21**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$92,400	Study Sponsor:	Indian Lakes
Estimated year to start:	2018	Entity with Oversight	Indian Lakes
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Action Plan or other plan?	
		(Potential) Source of Funding	General Fund; HMGP

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Indian Lake Action #12

FME ID: 151000008

### FME Description

Upgrade/Elevate Henderson Road bridge over Resaca to remove from potential floodway, reduce the risk of damages, and maintain critical access route.

### Study Type

- Flood risk modeling/mapping  
 Flood mitigation study  
 Alternative Analysis  
 Feasibility Assessments  
 Flood preparedness studies

### Study Area

City/ Cities **Indian Lake**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080900**  
 Study Area (sq. mi.) **0.16**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$184,800	Study Sponsor:	Indian Lakes
Estimated year to start:	2019	Entity with Oversight	Indian Lakes
Time to complete?	2021	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	General Fund; HMGP

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Indian Lake Action #17

FME ID: 151000009

### FME Description

Upgrade shoulders and provide turnouts along Henderson Road to support evacuation route.

### Study Type

- Flood risk modeling/mapping  
 Flood mitigation study  
 Alternative Analysis  
 Feasibility Assessments  
 Flood preparedness studies

### Study Area

City/ Cities **Indian Lake**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080900**  
 Study Area (sq. mi.) **0.78**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$9,240	Study Sponsor:	Indian Lakes
Estimated year to start:	2019	Entity with Oversight	Indian Lakes
Time to complete?	2021	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	General Fund; HMGP

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Indian Lake Action #18

FME ID: 151000010

### FME Description

Harden critical facilities, to include the Town Hall/Police Station, to reduce or eliminate wind, hail, and flood damage and ensure continuity of emergency services.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Indian Lake**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080900**  
 Study Area (sq. mi.) **0.50**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$27,720	Study Sponsor:	Indian Lakes
Estimated year to start:	2018	Entity with Oversight	Indian Lakes
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	General Fund; HMGP

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Laguna Vista Action #1

FME ID: 151000011

### FME Description

Drainage improvements Basin "B": Install upgraded drainage system for 80 acre residential area. Current system is inadequate to carry storm water runoff

### Study Type

- Flood risk modeling/mapping  
 Flood mitigation study  
 Alternative Analysis  
 Feasibility Assessments  
 Flood preparedness studies

### Study Area

City/ Cities **Laguna Vista**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080800,**  
**121102080900**  
 Study Area (sq. mi.) **0.41**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$924,000	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Laguna Vista Action #10

FME ID: 151000012

### FME Description

Drainage Improvements: Harden and reinforce head wall along the Laguna Madre bay off Beach Boulevard.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Laguna Vista**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080800,**  
**121102080900**  
 Study Area (sq. mi.) **0.41**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$924,000	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Action Plan or other plan?	
		(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Laguna Vista Action #11

FME ID: 151000013

### FME Description

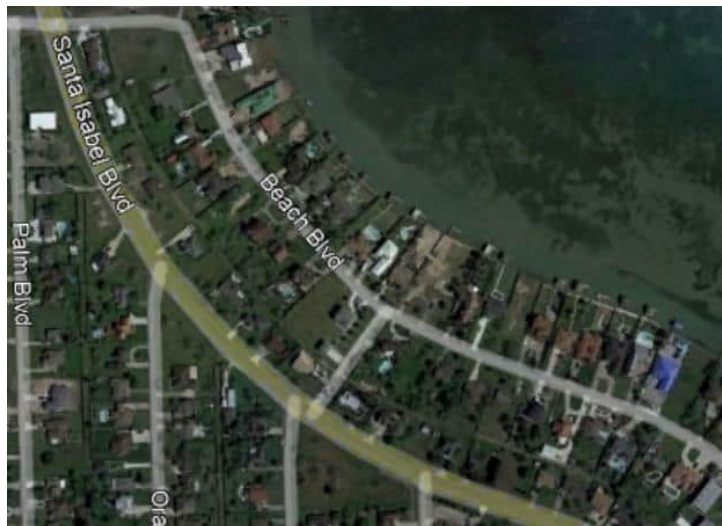
Drainage Improvements: Upgrade 48" drainage pipe located at 1004 Beach Blvd to increase capacity and reduce risk of flood damages.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Laguna Vista**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080800,**  
**121102080900**  
 Study Area (sq. mi.) **0.01**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$92,400	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Laguna Vista Action #12

FME ID: 151000014

### FME Description

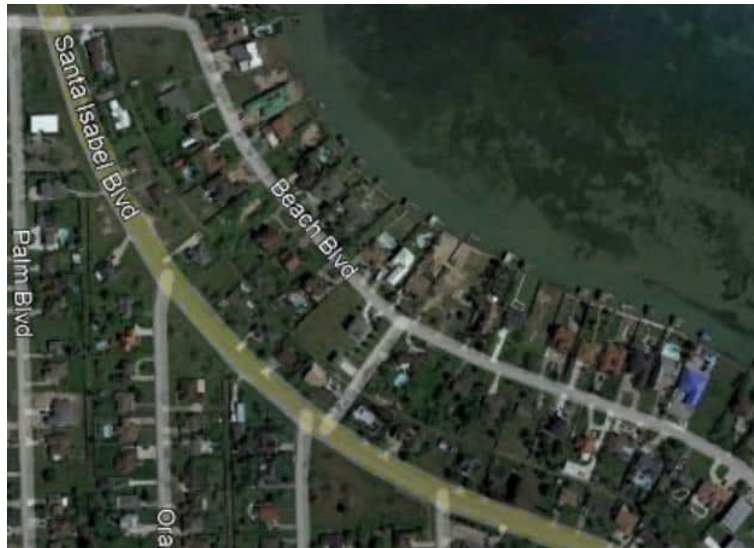
Drainage Improvements: Relocate and upgrade existing 36" drainage pipe located at 1026 Beach Blvd to increase capacity and reduce risk of flood damages.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Laguna Vista**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080800,**  
**121102080900**  
 Study Area (sq. mi.) **0.01**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$92,400	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Laguna Vista Action #19

FME ID: 151000015

### FME Description

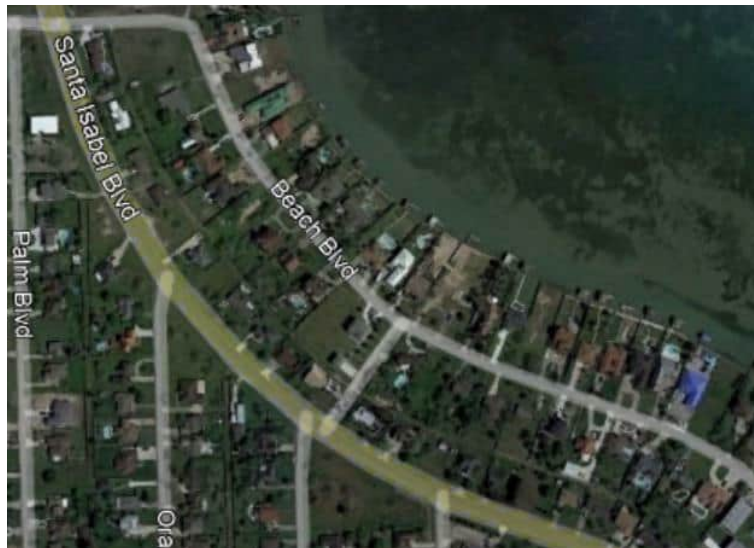
Harden Town Hall with wind, hail, and flood mitigation measures to reduce damages and ensure continuity of services

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Laguna Vista**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080800,**  
**121102080900**  
 Study Area (sq. mi.) **0.01**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$18,480	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Action Plan or other plan?	
		(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Laguna Vista Action #2

FME ID: 151000016

### FME Description

Drainage improvements Basin "C": Install upgraded drainage system for 60 acre residential area. Current system is inadequate to carry storm water runoff.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **City of Laguna Vista**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **0.086202696**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$924,000.00	Study Sponsor:	City of Laguna Vista
Estimated year to start:	2023	Entity with Oversight	City of Laguna Vista
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Laguna Vista Action #3

FME ID: 151000017

### FME Description

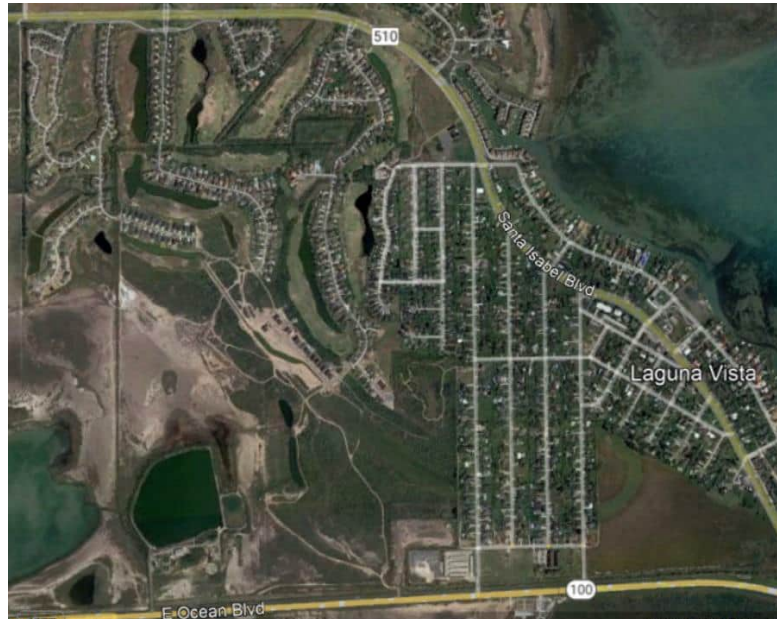
Drainage improvements Basin "D": Install upgraded drainage system west side of State Highway 510 for 80 acre residential area. Current system is inadequate to carry storm water runoff.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Laguna Vista**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080800,**  
**121102080900**  
 Study Area (sq. mi.) **1.87**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$924,000	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Laguna Vista Action #4

FME ID: 151000018

### FME Description

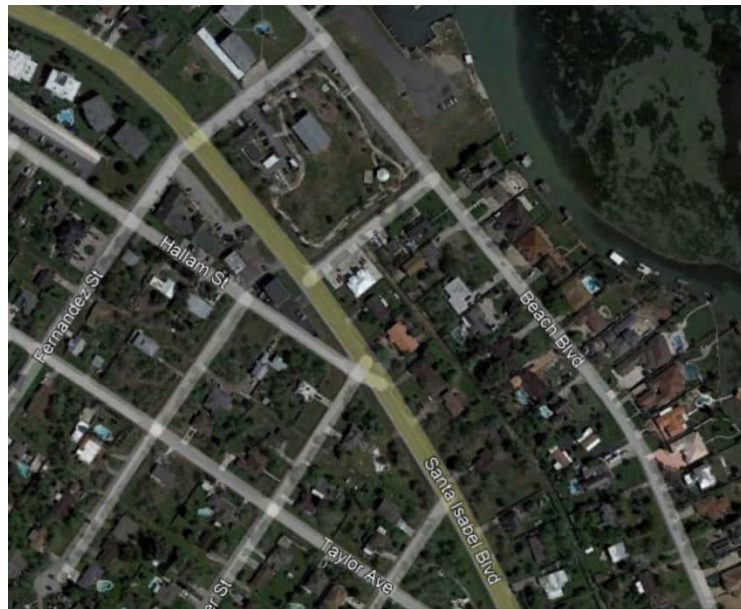
Drainage improvements Basin "E": Install upgraded drainage system off Saunders Street and State Highway 510 that drains acreage south of Fernandez Street and north of Morris Street.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Laguna Vista**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080800,**  
**121102080900**  
 Study Area (sq. mi.) **N/A**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No   
 Population at Risk  
 Roadways flooded Yes  No   
 Critical Facilities Impacted Yes  No   
 Notes:

Frequency of flooding:  
 # of structures inundated  
 Miles inundated?  
 Agricultural Land impacted Yes  No

### Study Costs

Total Cost: \$924,000  
 Estimated year to start: 2018  
 Time to complete? 2020  
 Funding Dedicated? Yes  No   
 Study Sponsor: Laguna Vista  
 Entity with Oversight: Laguna Vista  
 Included in a Hazard Mitigation Action Plan or other plan? Yes  No   
 (Potential) Source of Funding: HMGP; Local Funds; Other Grants; Drainage Fee

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Laguna Vista Action #5

FME ID: 151000019

### FME Description

Drainage improvements Basin "F": Install drainage system at the most southwestern part of the Town limits, bounded by State Highway 100 and State Highway 510.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Laguna Vista**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080800,**  
**121102080900**  
 Study Area (sq. mi.) **0.18**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No   
 Population at Risk  
 Roadways flooded Yes  No   
 Critical Facilities Impacted Yes  No   
 Notes:

Frequency of flooding:  
 # of structures inundated  
 Miles inundated?  
 Agricultural Land impacted Yes  No

### Study Costs

Total Cost:	\$924,000	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight:	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Laguna Vista Action #6

FME ID: 151000020

### FME Description

Drainage improvements SH 100: Regrade the existing drainage ditch that parallels State Highway 100 to increase capacity and reduce risk of flooding.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Laguna Vista**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080800,**  
**121102080900**  
 Study Area (sq. mi.) **13.5**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$369,600	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Laguna Vista Action #7

FME ID: 151000021

### FME Description

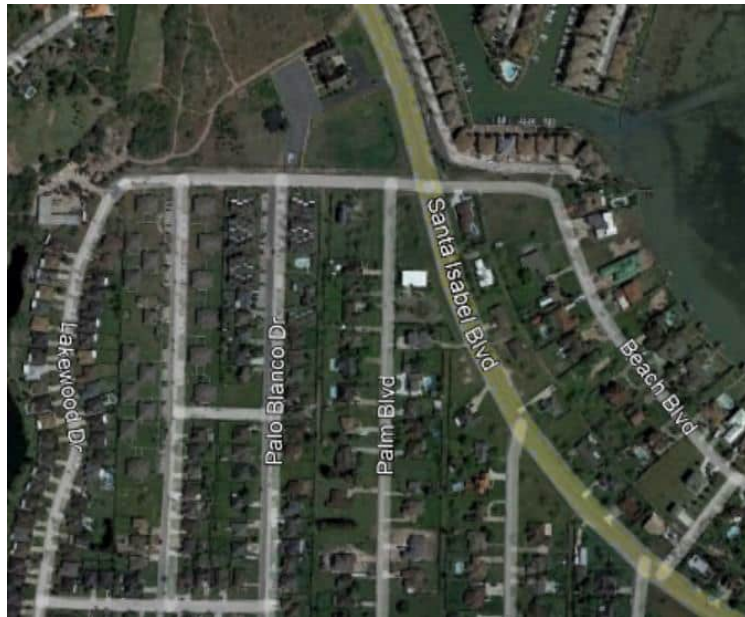
Drainage improvements SH 100: Regrade the existing drainage ditch that parallels State Highway 100 to increase capacity and reduce risk of flooding.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Laguna Vista**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080800,**  
**121102080900**  
 Study Area (sq. mi.) **0.01**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$369,600	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Laguna Vista Action #8

FME ID: 151000022

### FME Description

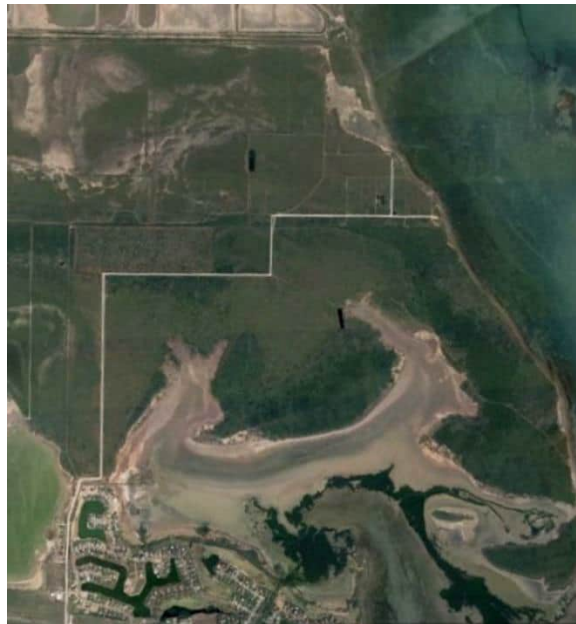
Drainage Improvements: Upgrade the drainage system on Holley Beach to increase capacity and reduce risk of flooding.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Laguna Vista**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080800,**  
**121102080900**  
 Study Area (sq. mi.) **3.99**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$369,600	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Action Plan or other plan?	
		(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Laguna Vista Action #9

FME ID: 151000023

### FME Description

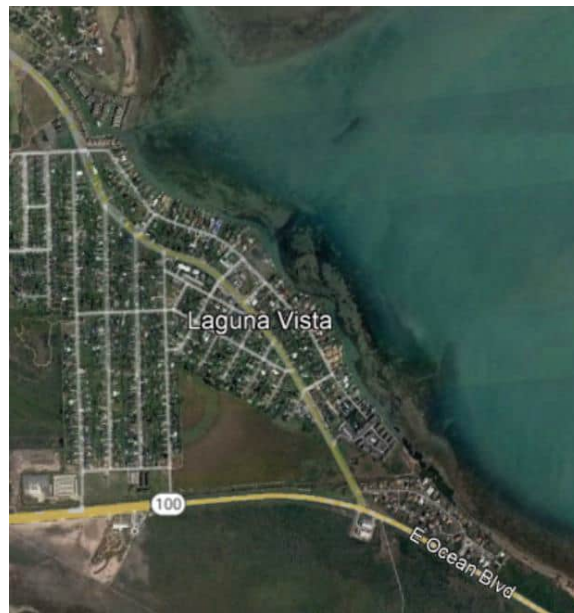
Drainage Improvements: Upgrade and harden drainage structure on Town-owned marina to increase capacity and reduce risk of damages.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Laguna Vista**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080800,**  
**121102080900**  
 Study Area (sq. mi.) **0.51**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$554,400	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Los Fresnos Action #13

FME ID: 151000024

### FME Description

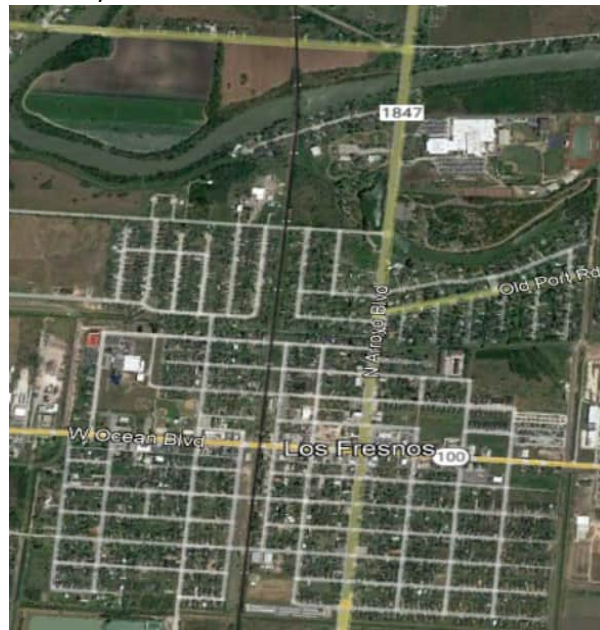
Upgrade culverts and install drainage improvements at various locations to increase capacity and reduce risk of flood damages. Purchase trailer mounted water trash pump to reduce or eliminate flooding. Drainage Improvement locations: Drainage Ditch South of Highway 100 causes flooding on East Fifth Street, East Sixth Street, East Seventh Street, East Eighth Street, East Ninth Street and East Tenth Street. South Nogal Street Causes Flooding on West First Street, West Second Street, West Third Street, Valle Alto Street & Bougainvillea Street, Jacqueline Street & North Canal Street Drain Pipe Collapse, Olmo Street from West Eighth Street to West Tenth Street, Holly Lane Drain Under Canal, Pasto Drive at California Road Drain Under Canal, and Resaca Escondido Drain Pipe Collapse. The following Resaca Crossings are Too Low: Henderson Road East Side, Henderson Road West Side, and Whipple Road West Side.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Los Fresnos**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080800,**  
**121102080900**  
 Study Area (sq. mi.) **1.40**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,848,000	Study Sponsor:	Los Fresnos
Estimated year to start:	2018	Entity with Oversight	Los Fresnos
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; General Funds, Drainage Fee

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Los Fresnos Action #14

FME ID: 151000025

### FME Description

Elevate or acquire and demolish flood-prone structures

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **City of Los Fresnos**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **0.866604745**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$185,000.00	Study Sponsor:	City of Los Fresnos
Estimated year to start:	2023	Entity with Oversight	City of Los Fresnos
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Los Fresnos Action #31

FME ID: 151000026

### FME Description

Deepen drainage area in Resaca Escondido and Falcon Lake to increase storm water retention capacity

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **City of Los Fresnos**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **0.02274045**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$185,000.00	Study Sponsor:	City of Los Fresnos
Estimated year to start:	2023	Entity with Oversight	City of Los Fresnos
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Port Isabel Action #19

FME ID: 151000027

### FME Description

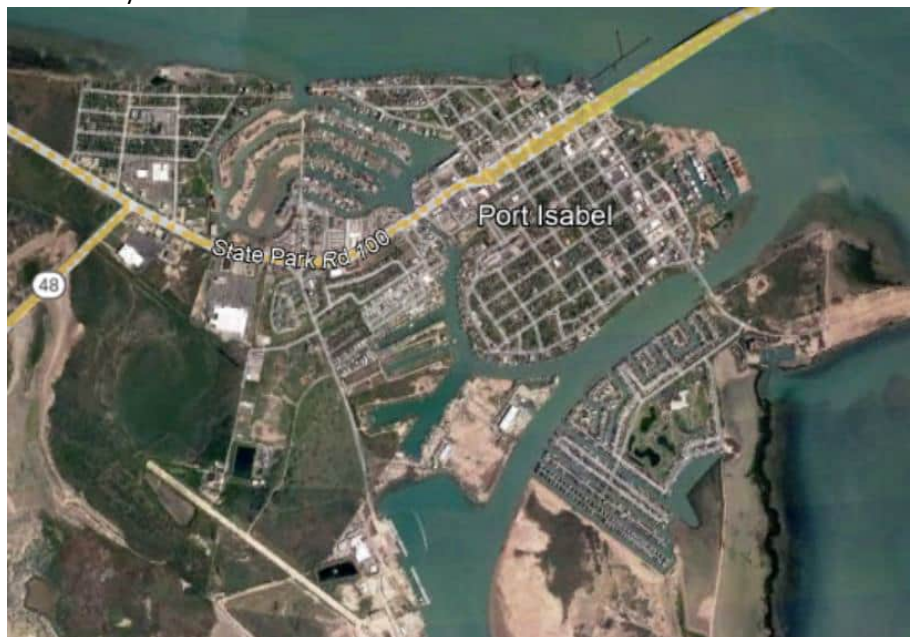
Elevate and widen coastal roads as well as evacuation routes to reduce risk of flood damages and maintain emergency access.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Port Isabel**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102081000,**  
**121102081000**  
 Study Area (sq. mi.) **2.72**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$554,400	Study Sponsor:	Los Fresnos
Estimated year to start:	2018	Entity with Oversight	Los Fresnos
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Action Plan or other plan?	
		(Potential) Source of Funding	HMGP; General Funds

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Port Isabel Action #22

FME ID: 151000028

### FME Description

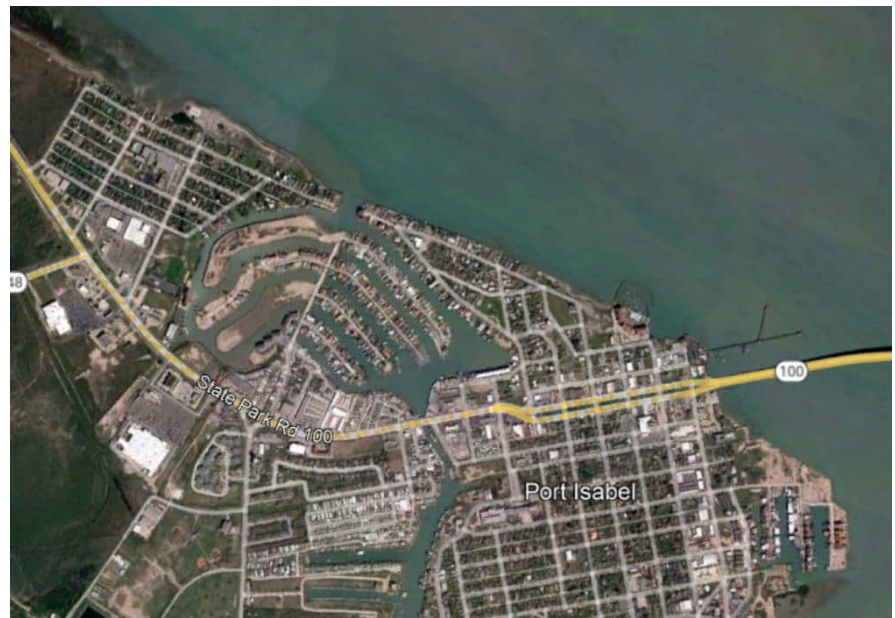
Build breakwater or similar shoreline protection for harbor.

### Study Type

- Flood risk modeling/mapping  
 Flood mitigation study  
 Alternative Analysis  
 Feasibility Assessments  
 Flood preparedness studies

### Study Area

City/ Cities **Port Isabel**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102081000,**  
**121102081000**  
 Study Area (sq. mi.) **0.47**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,108,800	Study Sponsor:	Los Fresnos
Estimated year to start:	2018	Entity with Oversight	Los Fresnos
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Action Plan or other plan?	
		(Potential) Source of Funding	HMGP; General Funds

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
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- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Primera Action #2

FME ID: 151000029

## FME Description

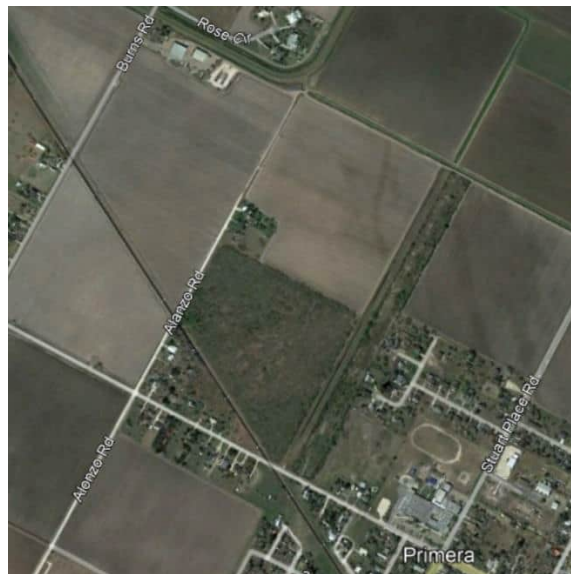
Construct a large retention/detention pond in the northwest part of town to hold water during heavy rain events.

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

## Study Area

City/ Cities **Primera**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102080700**  
 Study Area (sq. mi.) **0.1**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

## Study Costs

Total Cost:	\$92,400	Study Sponsor:	Primera
Estimated year to start:	2018	Entity with Oversight	Primera
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	Local Funds; HMGP; Cameron County Drainage District

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## South Padre Island #6

FME ID: 151000030

### FME Description

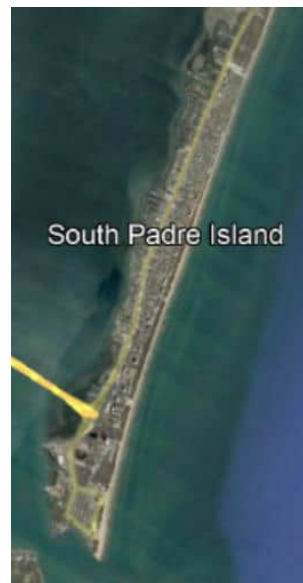
Upgrade undersized culverts throughout the Island to increase capacity and reduce flood risk.

### Study Type

- Flood risk modeling/mapping  
 Flood mitigation study  
 Alternative Analysis  
 Feasibility Assessments  
 Flood preparedness studies

### Study Area

City/ Cities **South Padre**  
 County/ Counties **Cameron**  
 HUC 8 **12110208**  
 HUC 12 **121102081000**  
 Study Area (sq. mi.) **4.62**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,848,000	Study Sponsor:	South Padre Island
Estimated year to start:	2018	Entity with Oversight:	South Padre Island
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; CDBG

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Dimmit County

FME ID: **151000031**

## FME Description

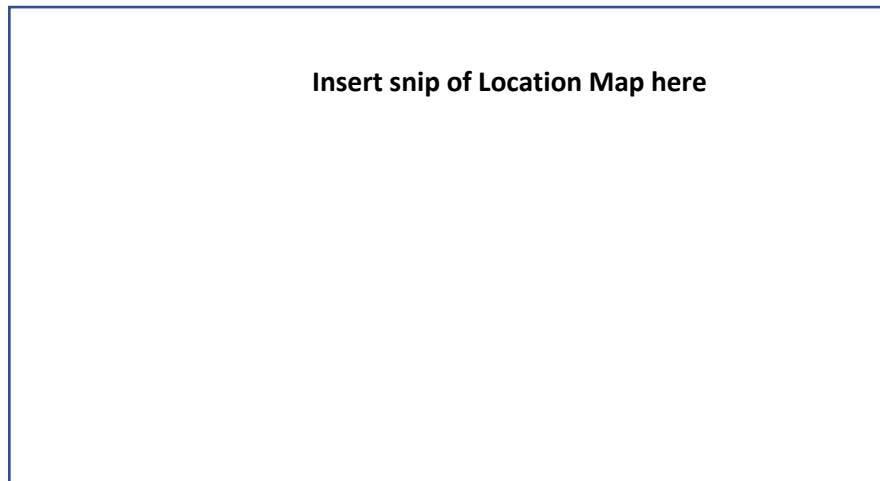
Develop Flood risk maps for the county of Dimmit and develop CIP

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

## Study Area

City/ Cities  
County/ Counties **Dimmit**  
HUC 8  
HUC 12  
Study Area (sq. mi.) **172.15**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

## Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Edwards County

FME ID: 151000032

### FME Description

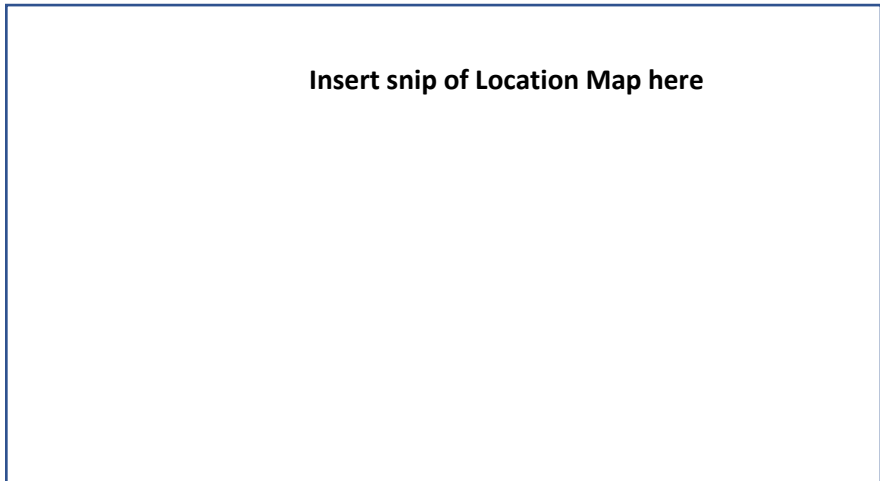
Develop Flood risk maps for the county of Edwards and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Edwards**  
HUC 8  
HUC 12  
Study Area (sq. mi.) **138.80**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## FM 491 and Mile 3 Study

FME ID: **151000033**

### FME Description

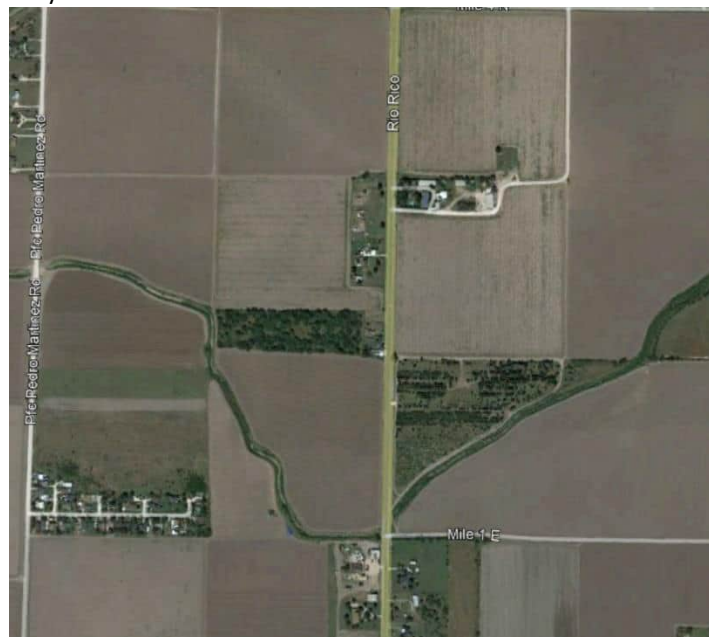
Local Drainage Improvements- County Road 1771

### Study Type

- Flood risk modeling/mapping  
 Flood mitigation study  
 Alternative Analysis  
 Feasibility Assessments  
 Flood preparedness studies

### Study Area

City/ Cities **Mercedes**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207**  
 HUC 12  
 Study Area (sq. mi.) **0.81**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$60,000	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
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- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Pumps and Sumps Study

FME ID: **151000034**

### FME Description

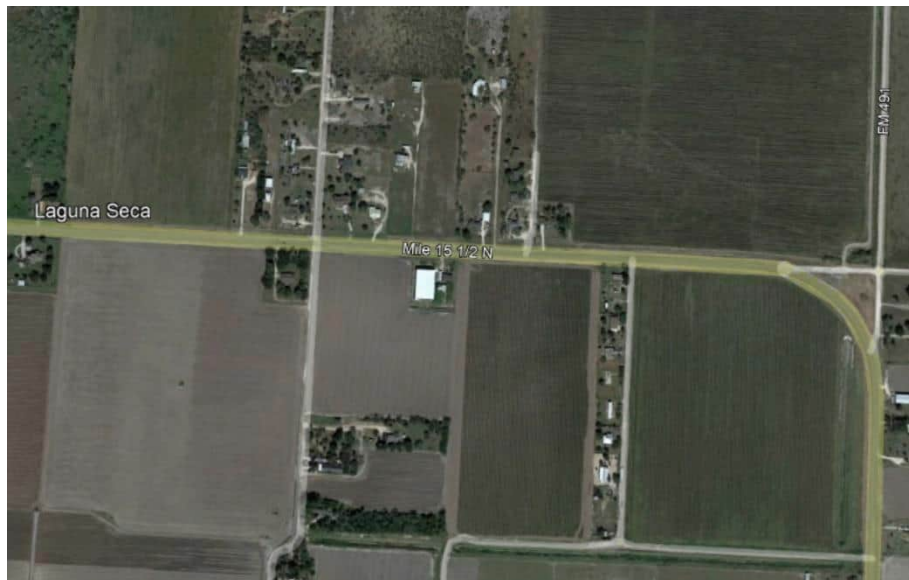
Pump Station H & Sump

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Hidalgo**  
HUC 8 **12110207**  
HUC 12  
Study Area (sq. mi.) **0.31**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$217,500	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
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- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Pumps and Sumps Study

FME ID: **151000035**

### FME Description

Pump Station I & Sump

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Hidalgo**  
HUC 8 **12110207**  
HUC 12  
Study Area (sq. mi.) **3.73**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$388,500	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Pumps and Sumps Study

FME ID: **151000036**

### FME Description

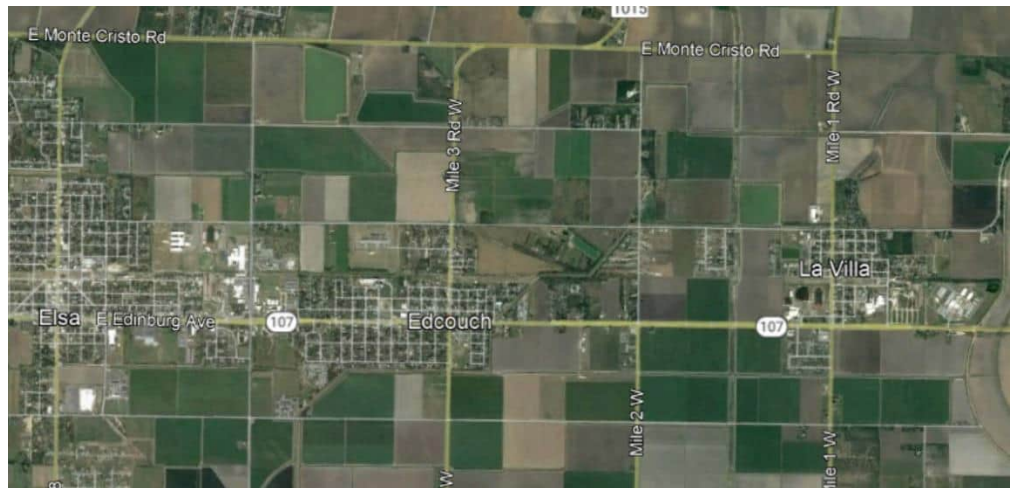
Pump Station J & Sump

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Hidalgo**  
HUC 8 **12110207**  
HUC 12  
Study Area (sq. mi.) **6.23**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$310,500	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Pumps and Sumps Study

FME ID: **151000037**

### FME Description

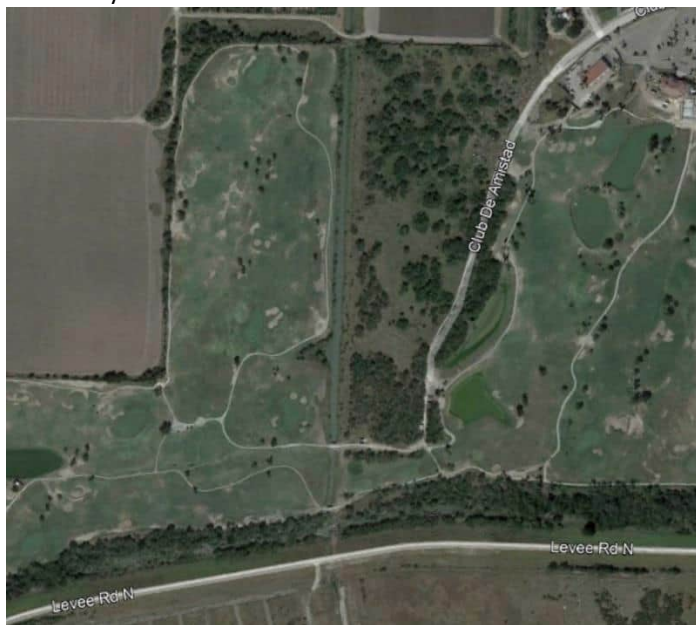
Pump Station K

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Hidalgo**  
HUC 8 **12110207**  
HUC 12  
Study Area (sq. mi.) **0.1**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$165,000	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Pumps and Sumps Study

FME ID: **151000038**

### FME Description

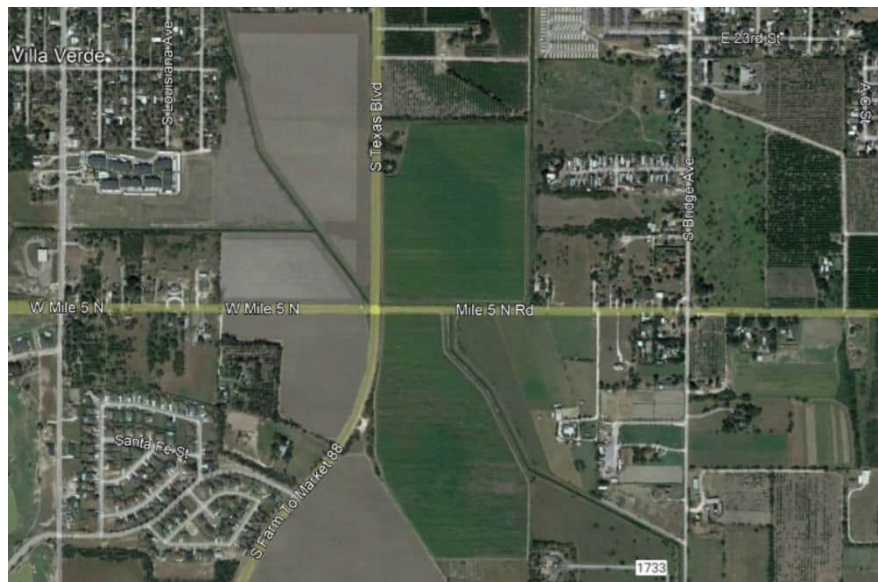
Pump Station L

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Hidalgo**  
HUC 8 **12110207**  
HUC 12  
Study Area (sq. mi.) **1.30**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$165,000	\$Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Lott Rd & Soderquist Study

FME ID: **151000039**

### FME Description

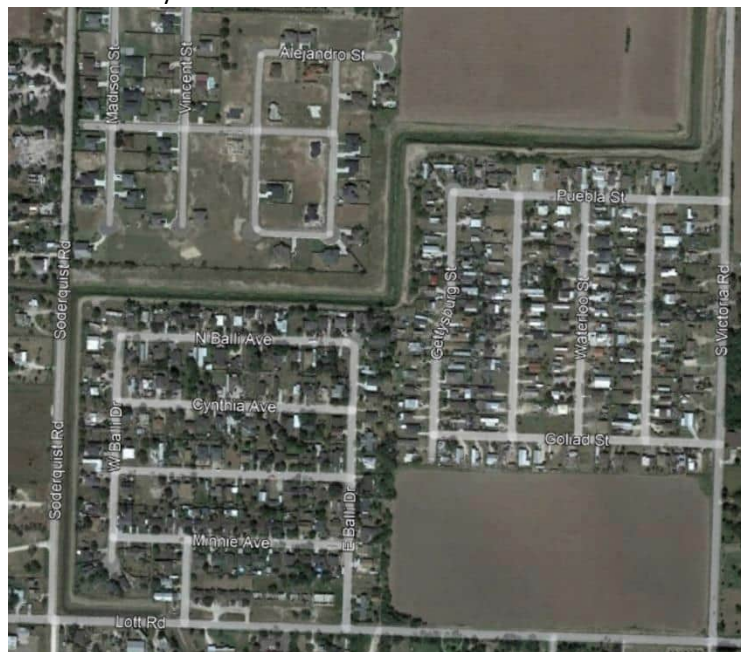
Local Drainage Improvements- North of Lott Road and East of Soderquist Rd.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Donna**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207**  
 HUC 12  
 Study Area (sq. mi.) **0.27**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$190,500	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Mile 2 E & Expy 83 Study

FME ID: **151000040**

### FME Description

Local Drainage Improvements- North of Interstate 2 and West of Mile 2 1/2

### Study Type

- Flood risk modeling/mapping
- Alternative Analysis
- Flood preparedness studies
- Flood mitigation study
- Feasibility Assessments

### Study Area

City/ Cities **Mercedes**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207**  
 HUC 12  
 Study Area (sq. mi.) **0.43**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$215,250	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## TX 88 & W Sugar Cane Dr Study

FME ID: 151000041

### FME Description

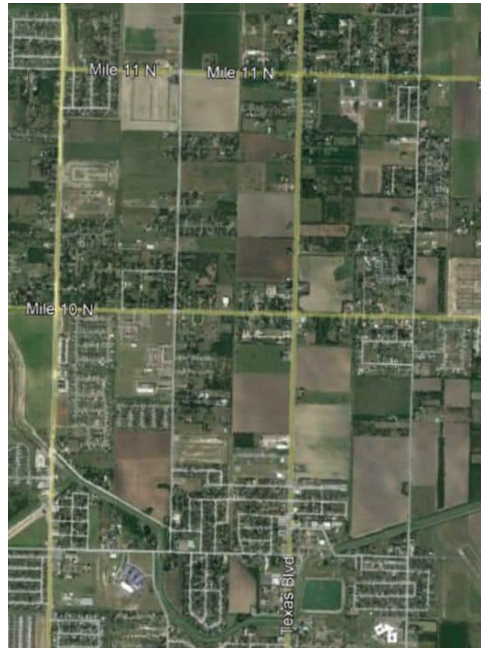
Channel Improvements- Ditch 17B2A1, Ditch 17B2A1 Detention West, Local Drainage Improvements ( North of W Sugar Cane West of Ditch17B2A1), Ditch 17B2A1 Detention East, and Local Drainage Improvements (North of W Sugar Cane East of Ditch17B2A1)

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Weslaco**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207**  
 HUC 12  
 Study Area (sq. mi.)



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$375,900	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Mile 11 N & Mile 6 W Study

FME ID: **151000042**

### FME Description

Channel Improvements- Ditch 17B2A1A, Channel Improvements- Ditch 7T,7T1, Local Drainage Improvements- West of Ditch17B2A1A, and Ditch 17B2A1 Detention West

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Weslaco**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207**  
 HUC 12  
 Study Area (sq. mi.)



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No   
 Population at Risk  
 Roadways flooded Yes  No   
 Critical Facilities Impacted Yes  No

Frequency:  
 # of structures inundated  
 Miles inundated?  
 Agricultural Land impacted Yes  No

Notes:

### Study Costs

Total Cost:	\$570,300	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Clark Rd & Mile 1 E Improvements

FME ID: **151000043**

### FME Description

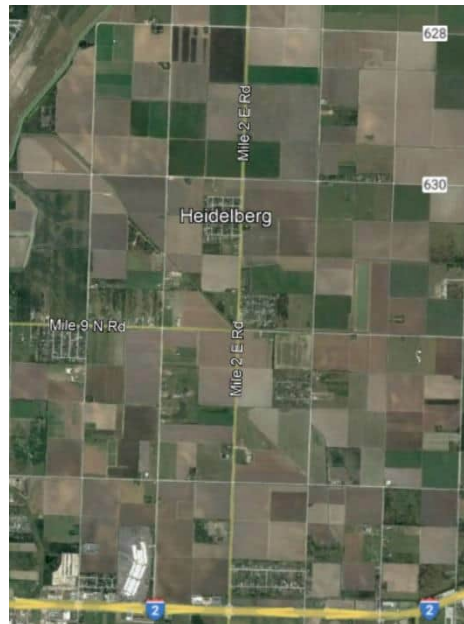
Channel Improvements- Ditch 19,19B,19H,23; Local Drainage Improvements-Los Laureles; Local Detention-Los Laureles; Local Drainage Improvements-Clark road and Mile 1 Road; and Bypass Channel and Sump Area for Pump Station

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Mercedes**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207**  
 HUC 12  
 Study Area (sq. mi.) **12.3**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,526,550	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Clark Rd & Mile 1 E Study

FME ID: **151000043**

### FME Description

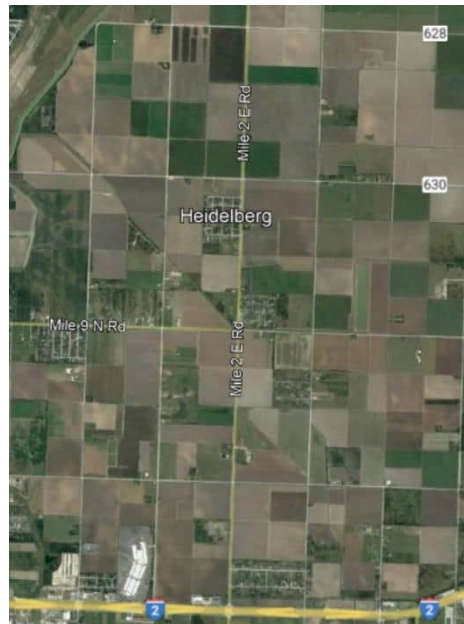
Channel Improvements- Ditch 19,19B,19H,23; Local Drainage Improvements-Los Laureles; Local Detention-Los Laureles; Local Drainage Improvements-Clark road and Mile 1 Road; and Bypass Channel and Sump Area for Pump Station

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Mercedes**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207**  
 HUC 12  
 Study Area (sq. mi.) **12.3**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,526,550	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## International & E Mile 5 N Study

FME ID: **151000044**

### FME Description

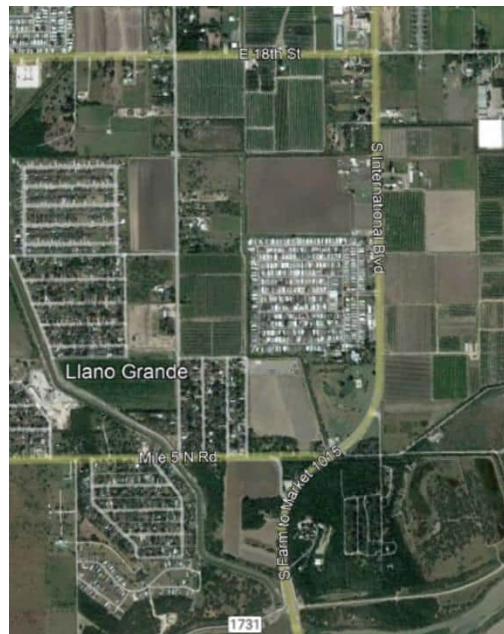
Channel Improvements just upstream of Ditch 35B; Culvert Improvements; Detention North of Llano Grande Lake Just West of 3 Mile Rd; 2- 130,000 GPM Pumps; Channel Improvements Ditch 34, 34B, 34BExt; Regional Detention; Bypass channel from Ditch 34; and Culvert Improvements-Ditch 34 Passing International Blvd.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Weslaco**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207**  
 HUC 12  
 Study Area (sq. mi.) **1.71**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No   
 Population at Risk  
 Roadways flooded Yes  No   
 Critical Facilities Impacted Yes  No

Frequency:  
 # of structures inundated  
 Miles inundated?  
 Agricultural Land impacted Yes  No

Notes:

### Study Costs

Total Cost:	\$1,093,500	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## S Alamo and Rancho Blanco Study

FME ID: **151000045**

### FME Description

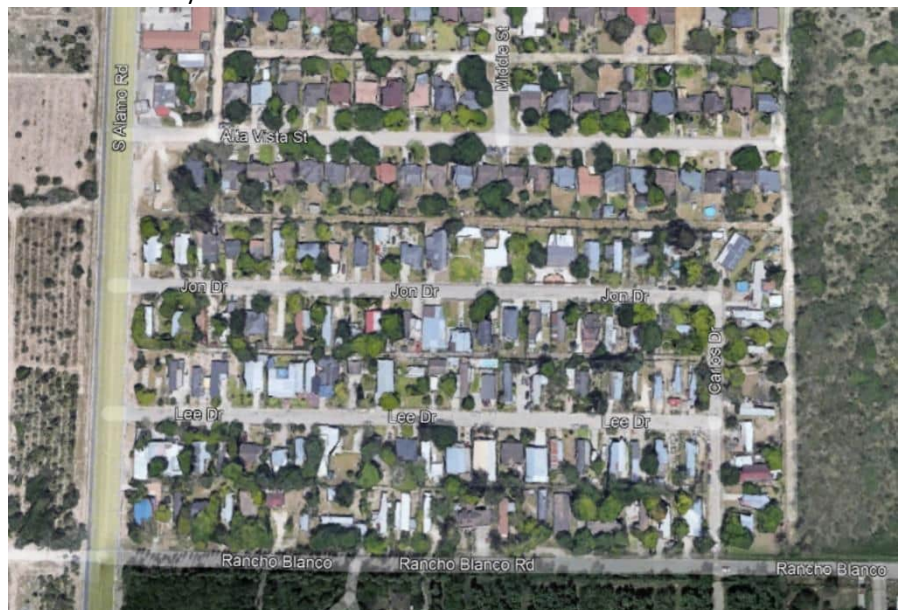
Local Drainage Improvements-Storm Drain and Detention North of Rancho Blanco and east of S. Alamo Road

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Alamo**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207**  
 HUC 12  
 Study Area (sq. mi.) **0.03**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$525,750	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
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- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## FM 1423 and Main Grove Study

FME ID: **151000046**

### FME Description

Local Drainage Improvements- Main Street, North Street

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Donna**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207**  
 HUC 12  
 Study Area (sq. mi.) **0.12**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$107,100	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## FM 1423 and Nolana Study

FME ID: **151000047**

### FME Description

Local Drainage Improvements--Storm Drain and Detention South of Earling Road West of Val Verde Street

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Donna**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207**  
 HUC 12  
 Study Area (sq. mi.) **0.38**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$321,000	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## N Tower Study

FME ID: **151000048**

### FME Description

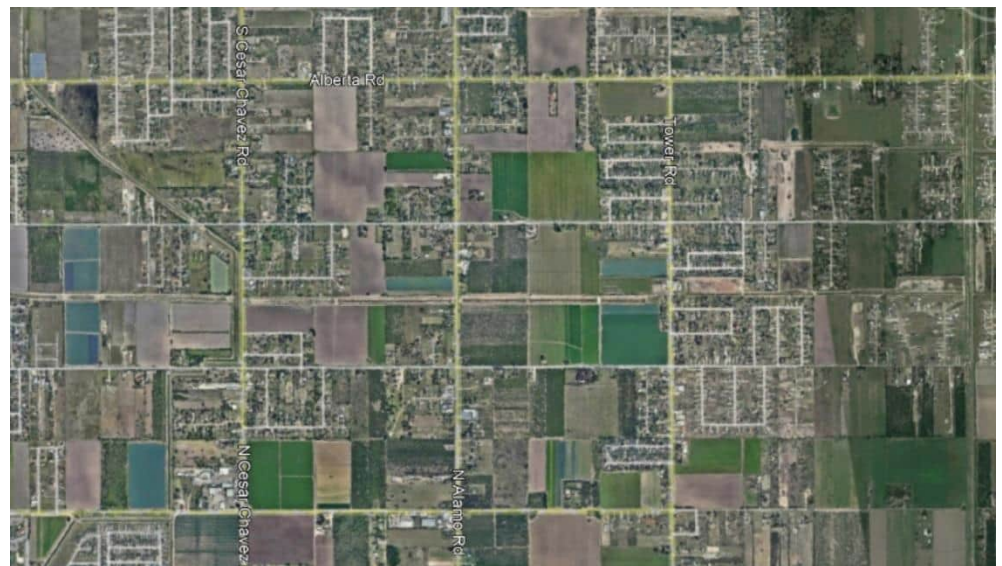
Local Drainage Improvements-Storm Drain North of Minnesota Road

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Alamo**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207**  
 HUC 12  
 Study Area (sq. mi.)



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$201,000	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
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- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
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- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Dillon and Roosevelt

FME ID: **151000049**

### FME Description

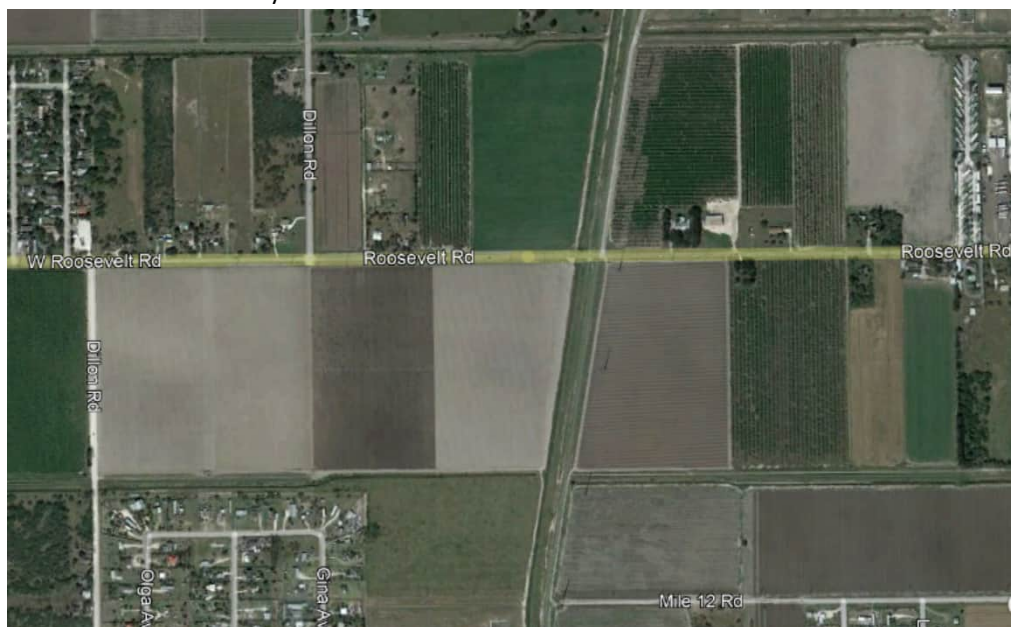
Local Drainage Improvements-Just North of E Roosevelt Rd

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Donna**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207**  
 HUC 12  
 Study Area (sq. mi.) **0.68**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$216,600	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Canton and Dillon

FME ID: **151000050**

### FME Description

Local Drainage Improvements-Along Canton Road and adjacent neighborhoods

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Donna**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207**  
 HUC 12  
 Study Area (sq. mi.) **1.1**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$454,050	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## FM 1925 and Mile 4 Study

FME ID: **151000051**

### FME Description

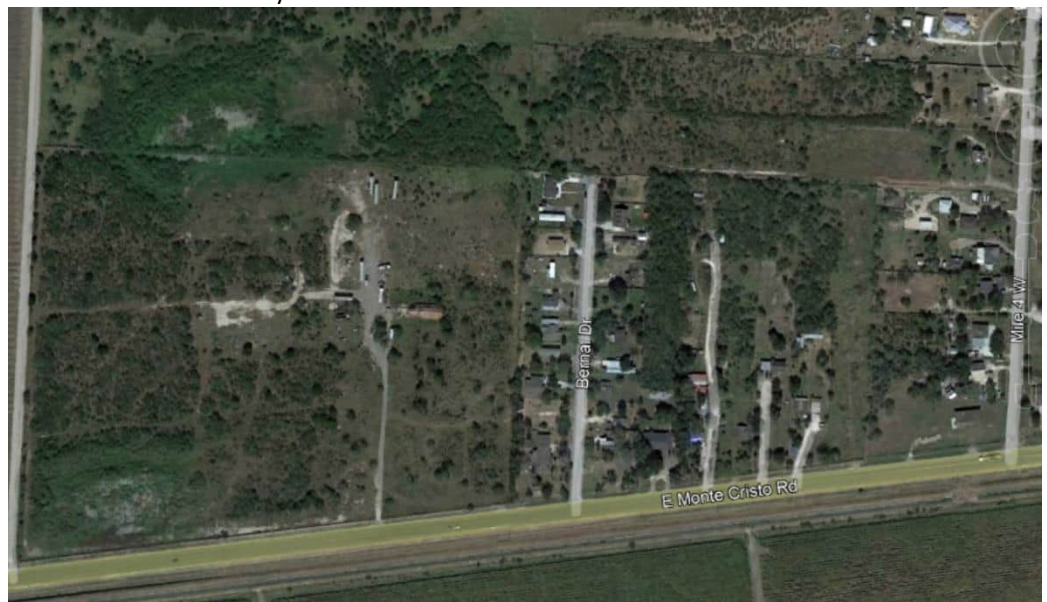
Local Drainage Improvements-Along Bernal Court

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Donna**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207**  
 HUC 12  
 Study Area (sq. mi.) **0.16**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$143,550	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Pumps and Sumps Study

FME ID: **151000052**

### FME Description

Pump Station A & Sump

### Study Type

- Flood risk modeling/mapping  
 Flood mitigation study  
 Alternative Analysis  
 Feasibility Assessments  
 Flood preparedness studies

### Study Area

City/ Cities

County/ Counties **Hidalgo**

HUC 8 **12110207**

HUC 12

Study Area (sq. mi.) **0.1**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$213,000	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Pumps and Sumps Study

FME ID: **151000053**

### FME Description

Pump Station B & Sump

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities

County/ Counties **Hidalgo**

HUC 8 **12110207**

HUC 12

Study Area (sq. mi.)

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$244,500	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000054

## Pumps & Sumps

## FME Description

Remove gate and improve embankment

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

## Study Area

City/ Cities

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **0.004885593**

## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

## Study Costs

Total Cost:	\$9,000.00	Study Sponsor:	Hidalgo County Drainage District #1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District #1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Pumps and Sumps Study

FME ID: **151000055**

### FME Description

Pump Station D

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Hidalgo**  
HUC 8 **12110207**  
HUC 12  
Study Area (sq. mi.) **4.67**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$165,000	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Pumps and Sumps Study

FME ID: **151000056**

### FME Description

Pump Station E & Sump

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Hidalgo**  
HUC 8 **12110207**  
HUC 12  
Study Area (sq. mi.) **3.45**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$124,500	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Pumps and Sumps Study

FME ID: **151000057**

### FME Description

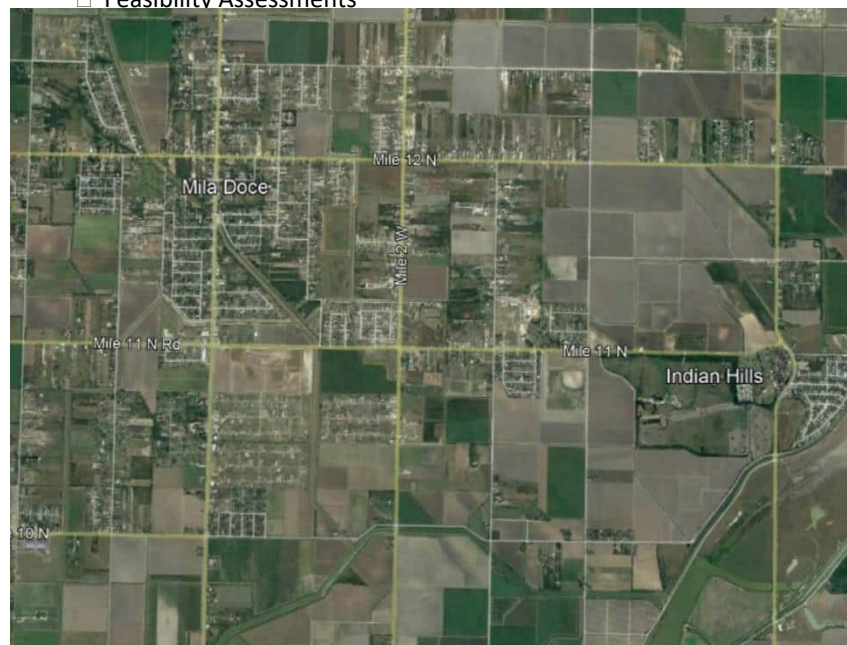
Pump Station F & Sump

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Hidalgo**  
HUC 8 **12110207**  
HUC 12  
Study Area (sq. mi.) **12.4**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$480,000	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Pumps and Sumps Study

FME ID: **151000058**

### FME Description

Pump Station G & Sump

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Hidalgo**  
HUC 8 **12110207**  
HUC 12  
Study Area (sq. mi.) **2.71**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$271,500	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Sullivan City Master Drainage Study

FME ID: **151000059**

### FME Description

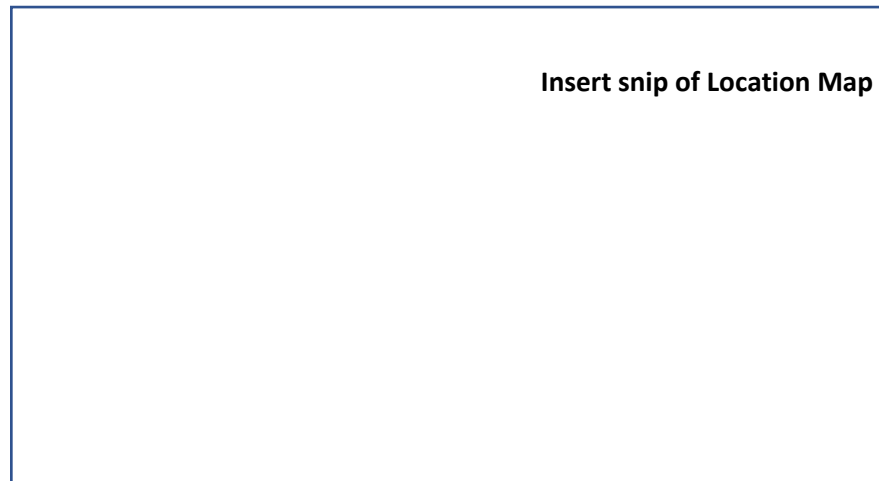
Develop Flood risk maps for the city of Sullivan City and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Sullivan City**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110208**  
 HUC 12  
 Study Area (sq. mi.) **3.60**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Alton MDP - West Mile 5 Road and Louisiana Street Alternative 2

FME ID: 151000060

### FME Description

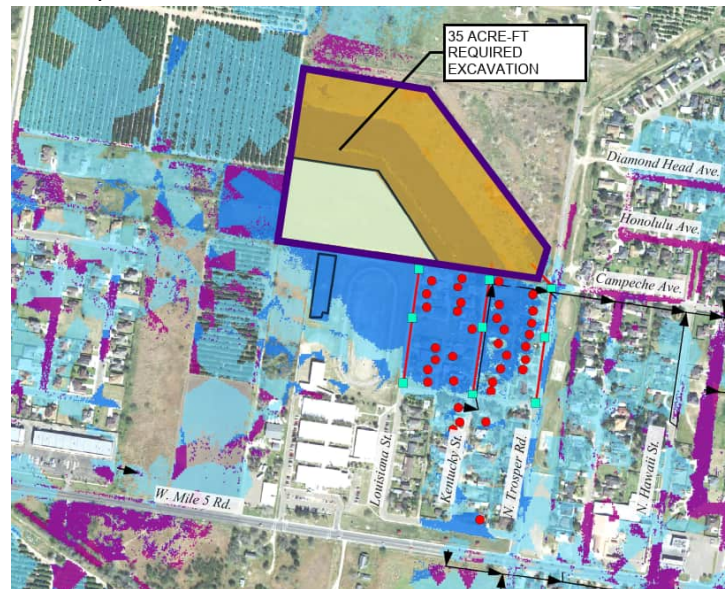
Alternative 2 is designed to remove structures from the 10-year floodplain. Approximately 35 acre-feet of volume is proposed to be excavated. construction consists of 1,940 LF of 36-inch diameter pipe sloped at 0.2% along Louisiana, Kentucky, and Trospen Road out falling directly into the retention pond, 3 headwalls and approximately 9 inlets. Additional inlets and smaller pipe may be needed to catch low lying areas that pond between the houses or regrading with swales to take runoff to the street.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Alton**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207,**  
**12110208**  
 HUC 12 **121102080200,**  
**121102080300**  
 Study Area (sq. mi.) **0.1**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$322,898	Study Sponsor:	City of Alton
Estimated year to start:	2023	Entity with Oversight	City of Alton
Time to complete?	2025	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Alton MDP - FM 676 South Glasscock Road Alternative 3

FME ID: 151000061

### FME Description

Widening of FM 676 with a proposed storm drain system containing 54" reinforced concrete pipe.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **City of Alton**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **0.049472213**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$59,000.00	Study Sponsor:	City of Alton
Estimated year to start:	2023	Entity with Oversight	City of Alton
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Alton MDP - North Inspiration Road and West St. Jude Avenue Alternative 2

FME ID: 151000062

### FME Description

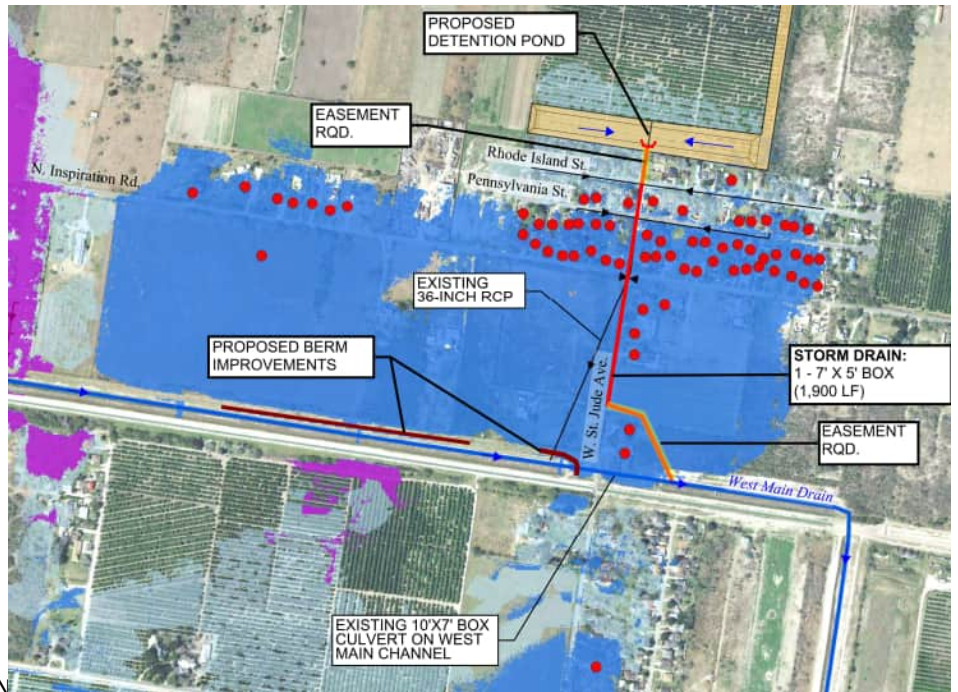
Alternative 2, is designed to remove structures from the 25-year floodplain and more frequent storms. This alternative consists of upsizing the storm drain under West St Jude Avenue. The trunk line will consist of 1,900 LF of a single 7' X 5' reinforced concrete box sloped at 0.5% from the area just west of the neighborhood on W. St. Jude Avenue to the West Main Drain Channel, downstream (north) of the existing 10' X 7' box culvert.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Alton**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207,**  
**12110210**  
 HUC 12 **121102080200,**  
**121102080300**  
 Study Area (sq. mi.) **0.16**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No   
 Population at Risk # of structures inundated  
 Roadways flooded Yes  No  Miles inundated?  
 Critical Facilities Impacted Yes  No  Agricultural Land impacted Yes  No

Notes:

### Study Costs

Total Cost: \$422,690  
 Estimated year to start: 2023  
 Time to complete? 2025  
 Funding Dedicated? Yes  No

Study Sponsor: City of Alton  
 Entity with Oversight City of Alton  
 Included in a Hazard Mitigation Action Plan or other plan? Yes  No   
 (Potential) Source of Funding FIF, local

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Alton MDP - West Mile 5 and South Glasscock Road Alternative 3

FME ID: 151000063

### FME Description

Alternative 3 is simply the buyout and removal of 23 properties on the north side of Buchanan from the 10-year floodplain. Once structures are removed, the vacant land can be excavated and used as a park/regional retention pond.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Alton**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207,**  
**12110213**  
 HUC 12 **121102080200,**  
**121102080300**  
 Study Area (sq. mi.) **0.23**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$249,480	Study Sponsor:	City of Alton
Estimated year to start:	2023	Entity with Oversight	City of Alton
Time to complete?	2025	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Weslaco Stormwater Improvement Plan - Pleasantview Drive and 11th Street

FME ID: 151000064

### FME Description

Installation of 3,220 LF of new storm drain system consisting of two – 8’ x 4’ RCBs along Mile 3 ½.

### Study Type

- Flood risk modeling/mapping  
 Flood mitigation study  
 Alternative Analysis  
 Feasibility Assessments  
 Flood preparedness studies

### Study Area

City/ Cities **Weslaco**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207,**  
                   **12110228**  
 HUC 12 **121102080100,**  
                   **121102080300**  
 Study Area (sq. mi.) **0.22**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$819,390	Study Sponsor:	City of Weslaco
Estimated year to start:		Entity with Oversight	City of Weslaco
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Weslaco Stormwater Improvement Plan - Mile 10 N and Mile 5 ½ W

FME ID: 151000065

### FME Description

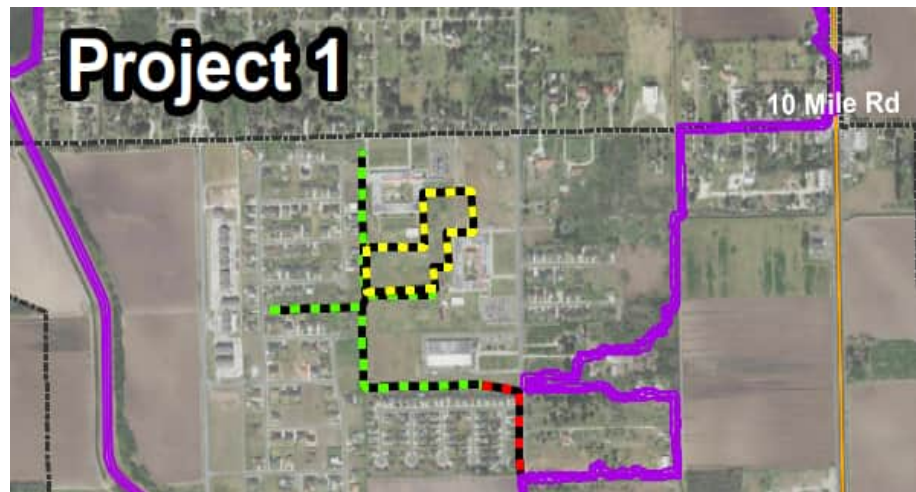
Construction of an 8 acre detention pond, with approximately 4,000 LF of channel widening along the back of the neighborhoods and between the Justice Raul A. Gonzalez Elementary School and Joe Calvillo Jr Career & Technology Education Complex; replacement of existing undersized channel culvert with two – 8’ x 5’ reinforced concrete boxes (RCBs), and adding two – 8’ x 5’ RCBs to connect the existing drainage ditches to the drain channel system on the east.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Weslaco**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207,**  
**12110230**  
 HUC 12 **121102080100,**  
**121102080300**  
 Study Area (sq. mi.) **0.40**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$666,151	Study Sponsor:	City of Weslaco
Estimated year to start:		Entity with Oversight	City of Weslaco
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Weslaco Stormwater Improvement Plan - South International Boulevard and Business 83

FME ID: 151000066

### FME Description

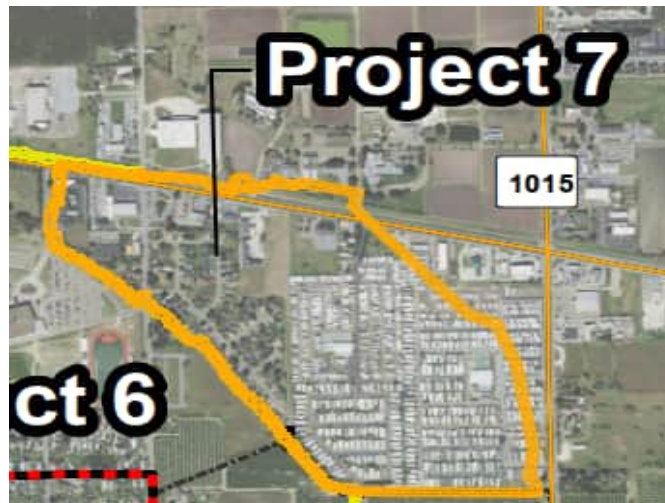
Replacement of 48 – inch culverts at two roadway crossings with 6’ x 4’ RCBs.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Weslaco**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207,**  
**12110231**  
 HUC 12 **121102080100,**  
**121102080300**  
 Study Area (sq. mi.) **0.39**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$14,071	Study Sponsor:	City of Weslaco
Estimated year to start:		Entity with Oversight	City of Weslaco
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Weslaco Stormwater Improvement Plan - Texas Boulevard to Airport Drive, South of Business 83

FME ID: 151000067

### FME Description

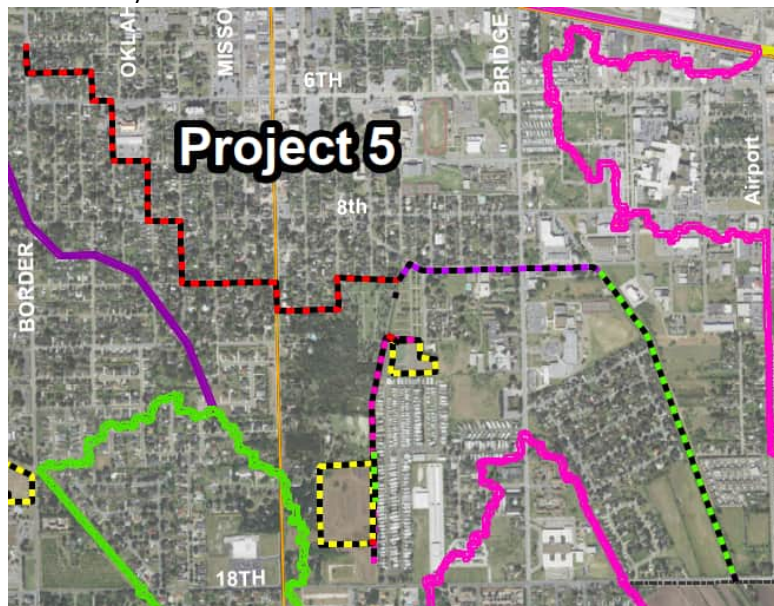
Construction of two detention ponds, 10 acres near Texas Boulevard and 18th Street and 3 acres south of Dawson Street, a berm, approximately 5,400 LF of channel widening and extension, and installation of an 8' x 4' RCB storm drain system near Border

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Weslaco**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207,**  
**12110232**  
 HUC 12 **121102080100,**  
**121102080300**  
 Study Area (sq. mi.) **1.34**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$6,597,680	Study Sponsor:	City of Weslaco
Estimated year to start:		Entity with Oversight	City of Weslaco
Time to complete?		Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Weslaco Stormwater Improvement Plan - West Weslaco

FME ID: 151000068

### FME Description

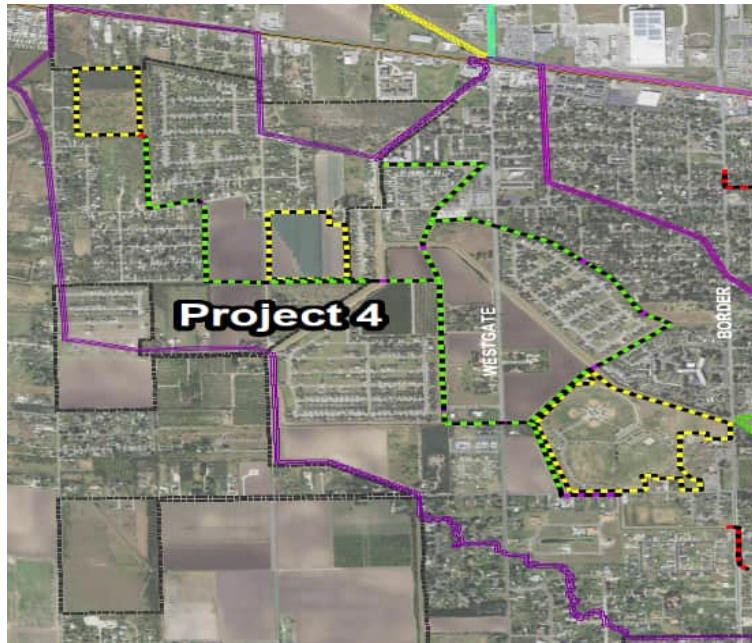
The Study is located just west of Border Avenue, between US 83 and Zelma Street. Construction of three detention ponds, 18 acres east of Vaughn Road and Midway Road, 26 acres near West 6th Street and Milano Road and 60 acres at Harlon Block Sports Complex, approximately 17,000 LF of channel widening connecting the ponds, and installation of approximately 4500 LF of large (8' x 4', 8' x 5', 8' x 6') RCB storm drain system to improve conveyance along the channels to the ponds.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Weslaco**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207,**  
**12110233**  
 HUC 12 **121102080100,**  
**121102080300**  
 Study Area (sq. mi.) **2.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$5,595,880	Study Sponsor:	City of Weslaco
Estimated year to start:		Entity with Oversight	City of Weslaco
Time to complete?		Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Weslaco Stormwater Improvement Plan - Westgate Drive and Sugar Cane Drive

FME ID: 151000069

### FME Description

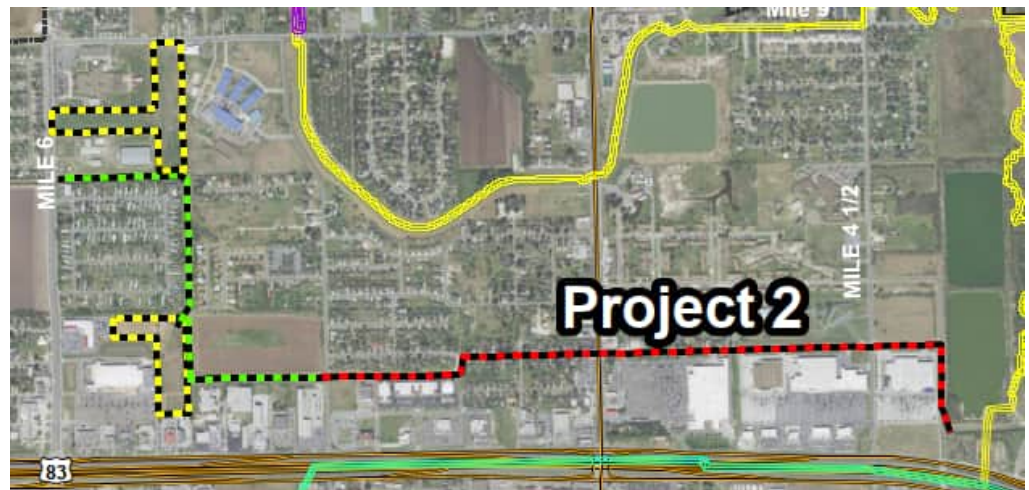
Construction of two detention ponds, 11 acres near Clecker-Heald Elementary School and 8 acres behind the commercial properties north of Interstate 2, approximately 4,500 LF of channel widening connecting the two ponds, addition of a new 42-inch reinforced concrete pipe (RCP) culvert east of Border Avenue, and installation of approximately 5,600 LF of an 8' x 4' RCB storm drain system along West Paisano Lane and East Ballard Street.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Weslaco**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110207,**  
**12110234**  
 HUC 12 **121102080100,**  
**121102080300**  
 Study Area (sq. mi.) **1.58**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,664,860	Study Sponsor:	City of Weslaco
Estimated year to start:		Entity with Oversight	City of Weslaco
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Precinct 4 MDP - Risk Area A at Mile 8.5 Rd. & Ware Rd.

FME ID: 151000071

### FME Description

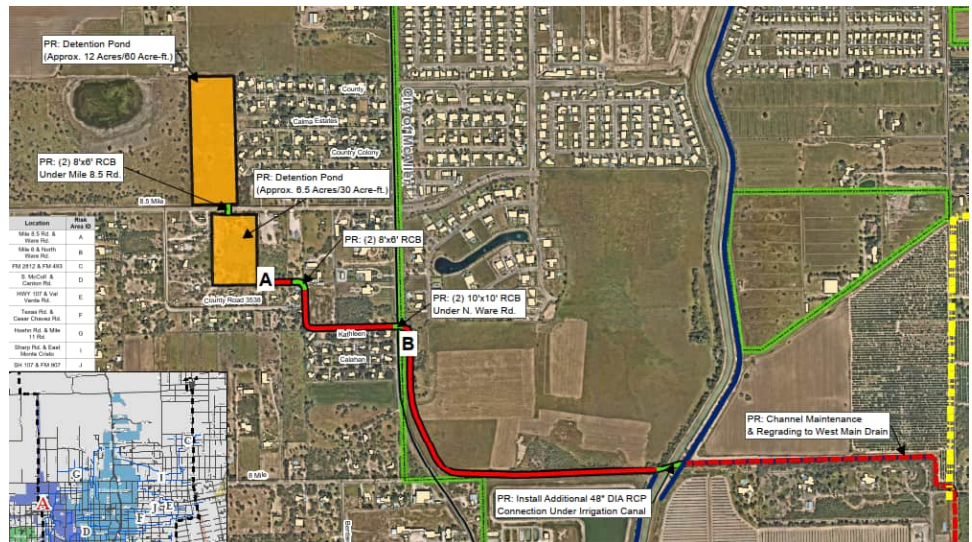
Approximately 1 mile of proposed channel improvements. Proposed culverts. Proposed Detention Ponds with pond north of Mile 8.5 Rd. to collect runoff from the west and has an approximate footprint of 12 acres and storage capacity of 60 acre-ft and will outfall south towards the pond south of Mile 8.5 Rd.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Flood preparedness studies
- Feasibility Assessments

### Study Area

City/ Cities  
County/ Counties **Hidalgo**  
HUC 8 **12110207, 12110279**  
HUC 12 **121102080400, 121102070100, 121102080200**  
Study Area (sq. mi.) **0.79**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$2,984,850	Study Sponsor:	Hidalgo County Precinct 4
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Precinct 4
Time to complete?	2025	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Precinct 4 MDP - Risk Area B at Mile 6 & North Ware Rd.

FME ID: 151000072

### FME Description

Regional Detention Facilities with a pond footprint of 25 acres along the Existing HCDD1 West Main Drain. Storm Drain and Local Drainage Improvements. Channel maintenance.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

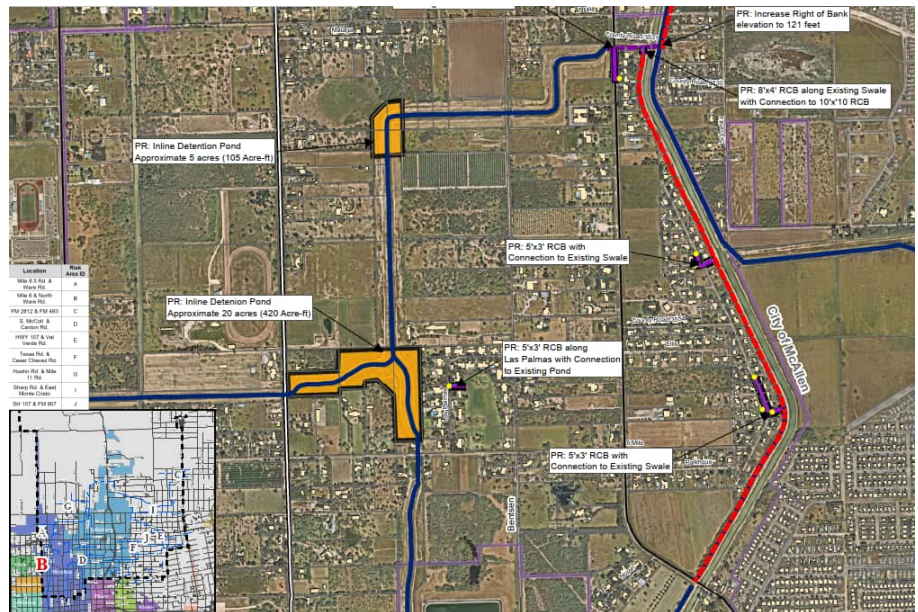
City/ Cities

County/ Counties **Hidalgo**

HUC 8 **12110207,**  
**12110280**

HUC 12 **121102080400,**  
**121102070100,**  
**121102080200,**  
**121102080200**

Study Area (sq. mi.) **0.15**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$4,076,320	Study Sponsor:	Hidalgo County Precinct 4
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Precinct 4
Time to complete?	2025	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Precinct 4 MDP - Risk Area C at FM 2812 & FM 493

FME ID: 151000073

### FME Description

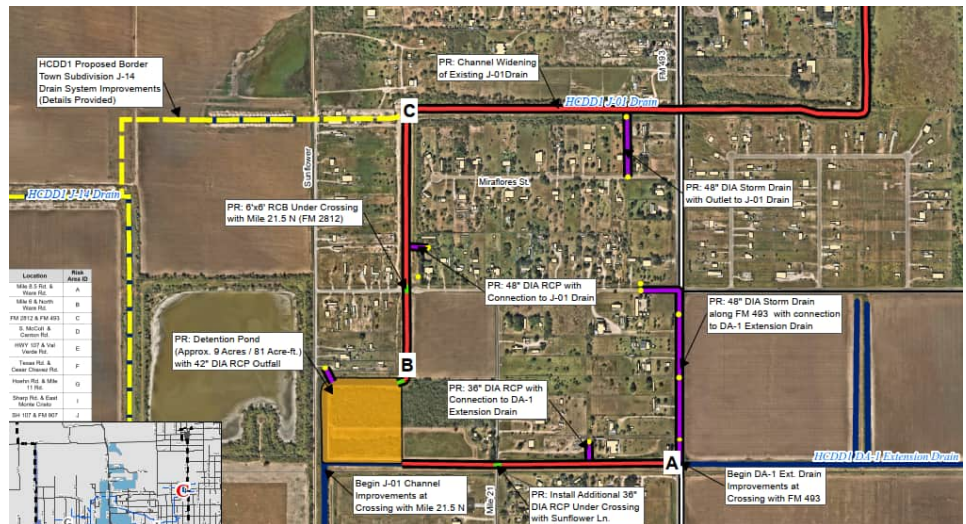
Channel Improvements (Widening & Regrading) to Existing J-01 Drain with approximately 1.5 miles of proposed improvements. Channel Improvements (Channel Maintenance & Flowline Regrading) to Existing DA-1 Ext. Drain with approximately 0.4 miles of proposed improvements. Proposed detention pond will have an approximate footprint of 9 acres and storage capacity of 90 acre-ft. Grate inlets & proposed storm drain channel maintenance & debris removal.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities	
County/ Counties	<b>Hidalgo</b>
HUC 8	<b>12110207,</b> <b>12110281</b>
HUC 12	<b>121102080400,</b> <b>121102070100,</b> <b>121102080200,</b> <b>121102080200</b>
Study Area (sq. mi.)	<b>3.23</b>



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,183,050	Study Sponsor:	Hidalgo County Precinct 4
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Precinct 4
Time to complete?	2025	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local



## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Precinct 4 MDP - Risk Area D at S. McColl & Canton Rd.

FME ID: 151000074

### FME Description

Channel Improvements (Widening & Regrading) to Existing McAllen Lateral & North Main Drain with approximately 2.25 miles of proposed improvements from S McColl St. to State Highway 107. Crossings at W Canton Rd., W Freddy Gonzalez Dr., and W Sprague St. were all evaluated up to the 25-year design storm criteria for upsizing evaluation.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

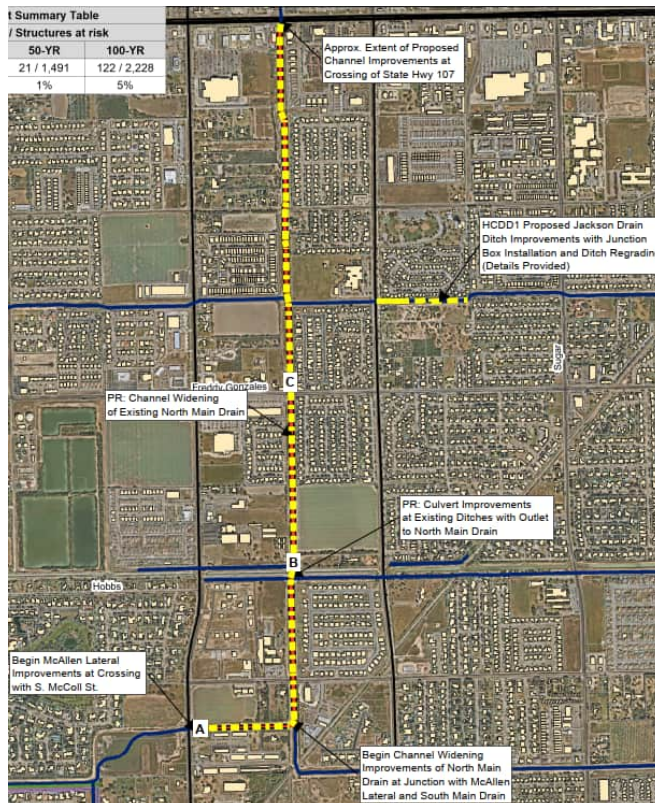
City/ Cities

County/ Counties **Hidalgo**

HUC 8 **12110207,**  
**12110282**

HUC 12 **121102080400,**  
**121102070100,**  
**121102080200,**  
**121102080200**

Study Area (sq. mi.) **1.40**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No

Population at Risk

Roadways flooded Yes  No

Critical Facilities Impacted Yes  No

Notes:

### Study Costs

Total Cost: \$953,700

Estimated year to start: 2023

Time to complete? 2025

Funding Dedicated? Yes  No

Study Sponsor: Hidalgo County Precinct 4

Entity with Oversight: Hidalgo County Precinct 4

Included in a Hazard Mitigation Action Plan or other plan? Yes  No

(Potential) Source of Funding

FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

### Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

### RFPG Recommended

Yes  No

## Precinct 4 MDP - Risk Area E at Hwy 107 & Val Verde Rd.

FME ID: 151000075

### FME Description

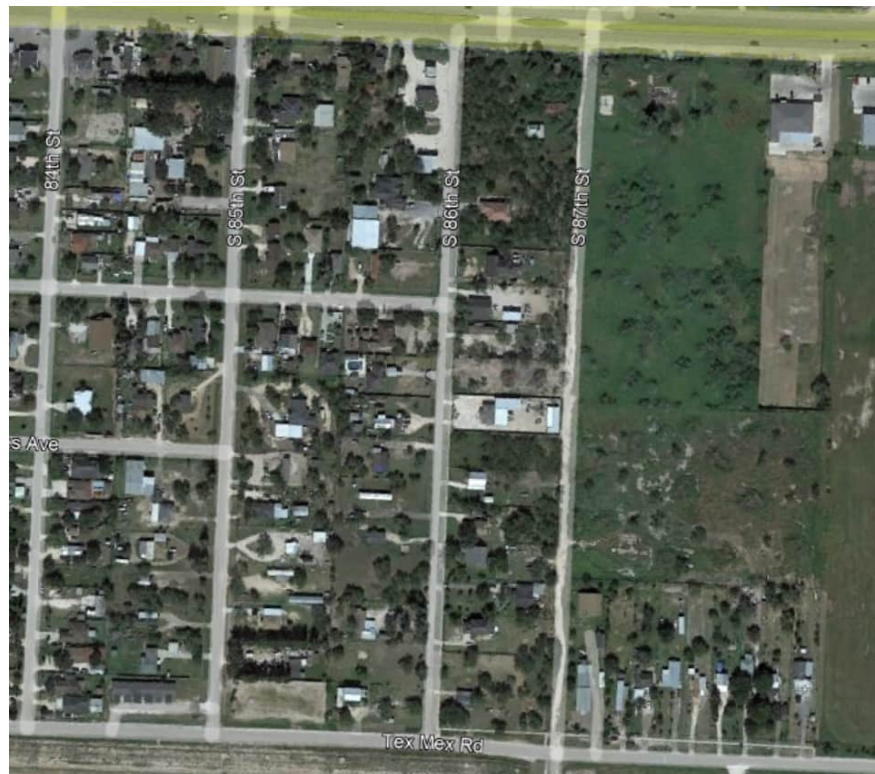
Channel Improvements with approximately 0.3 miles of proposed improvements. Proposed detention pond north of Tex-Mex Rd. and east of S 87th St. has an approximate footprint of 4.25 acres and capacity of 20 acre-ft. Grate Inlets and Proposed Storm Drain 5'x5' grate inlets spaced along every 500' of storm drain with a 4'x2' RCB along S 85th St.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Hidalgo**  
HUC 8 **12110207,**  
**12110283**  
HUC 12 **121102070100,**  
**121102080200,**  
**121102080400,**  
Study Area (sq. mi.) **0.1**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$747,450	Study Sponsor:	Hidalgo County
Estimated year to start:	2023	Entity with Oversight:	Hidalgo County
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, Local



## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Precinct 4 MDP - Risk Area F at Texas Rd. & Cesar Chavez Rd.

FME ID: 151000076

### FME Description

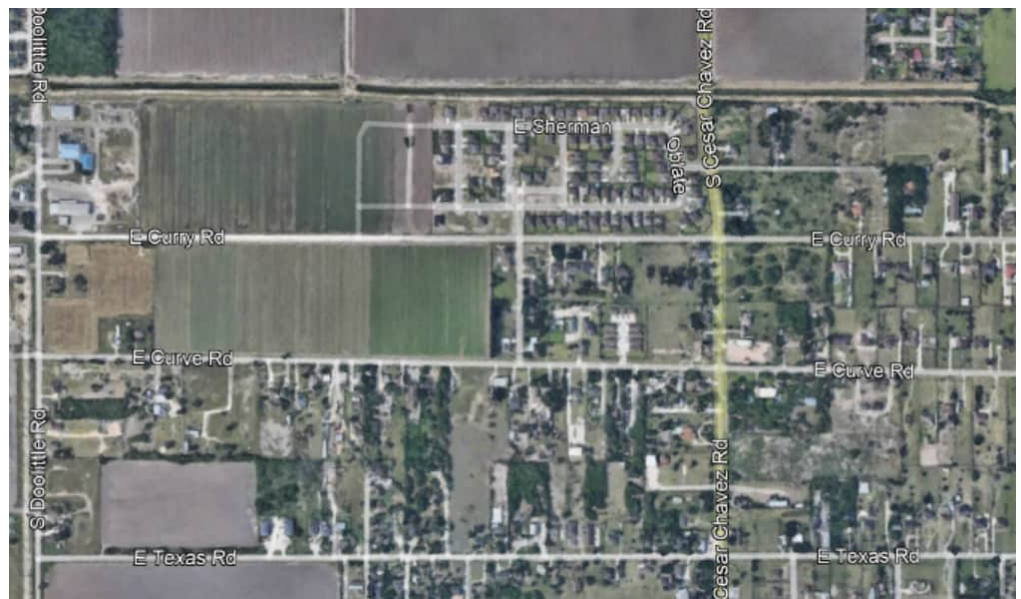
Channel Improvements with approximately 0.6 miles of proposed improvements. Grate Inlets and Proposed Storm Drain with grate inlets in sag spaced along every 500' tying into a 42" RCP along Cesar Chavez Road starting at just south of Texas Rd to the Curry Drain. Culvert Improvements with connections between the proposed open channels and existing HCDD1 Edinburg Stub will require the installation of 4'x3' RCBs.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Hidalgo**  
HUC 8 **12110207,**  
**12110284**  
HUC 12 **121102070100,**  
**121102080200,**  
**121102080400,**  
Study Area (sq. mi.) **0.56**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,188,000	Study Sponsor:	Hidalgo County
Estimated year to start:	2023	Entity with Oversight	Hidalgo County
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, Local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Precinct 4 MDP - Risk Area G at Hoehn Rd. & Mile 11 Rd.

FME ID: 151000077

### FME Description

Channel Improvements with approximately 0.75 miles of proposed improvements. Proposed Pond north of County Road 3424 and west of County Road 3421 has an approximate footprint of 5 acres and capacity of 35 acre-ft. Grate Inlets and Proposed Storm Drain 5'x5' grate inlets will be located at the southwest corner of Eubanks and County Road 3424 with a connection to a 42" DIA RCP storm drain. Proposed culverts.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Hidalgo**  
HUC 8 **12110207,**  
**12110285**  
HUC 12 **121102070100,**  
**121102080200,**  
**121102080400,**  
Study Area (sq. mi.) **0.79**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No   
Population at Risk  
Roadways flooded Yes  No   
Critical Facilities Impacted Yes  No   
Notes:

Frequency:  
# of structures inundated  
Miles inundated?  
Agricultural Land impacted Yes  No

### Study Costs

Total Cost: \$909,150  
Estimated year to start: 2023  
Time to complete? 2025  
Funding Dedicated? Yes  No

Study Sponsor: Hidalgo County  
Entity with Oversight: Hidalgo County  
Included in a CIP or other plan? Yes  No   
(Potential) Source of Funding: FIF, Local

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Precinct 4 MDP - Risk Area I at Sharp Rd. & E Monte Cristo Rd

FME ID: 151000078

### FME Description

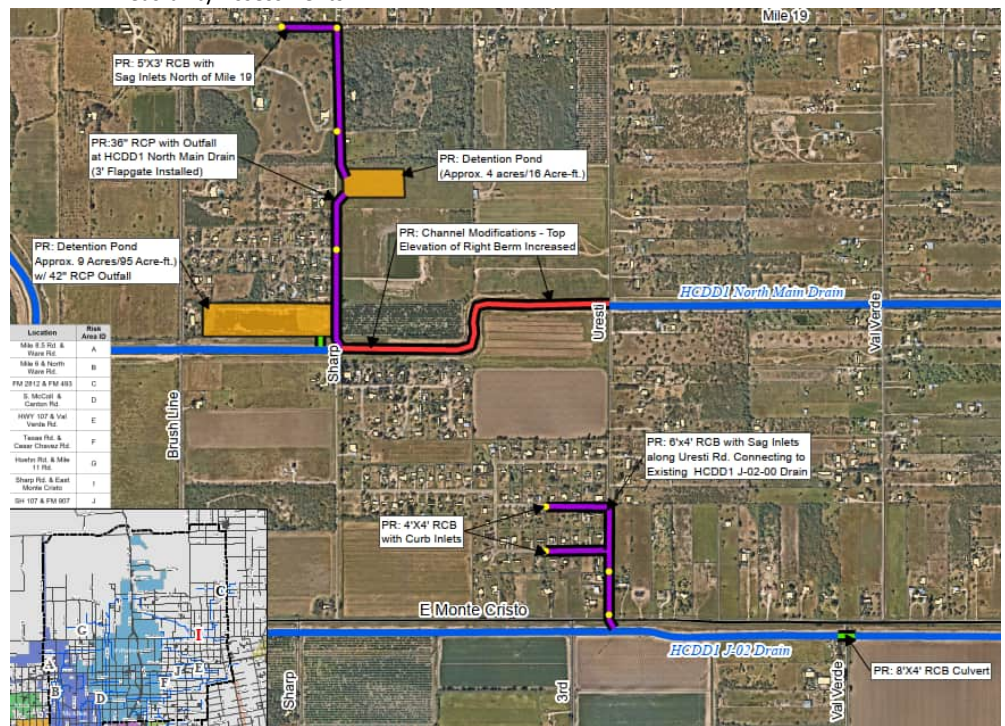
Inlets and proposed storm drain with Approximately 1,100' of 4'x4' RCB storm drain with curb inlets to be installed along Hendrix Dr. and Gaston Cr. with approximately 1,200' of 6'x4' RCB storm with grate and sag inlets along Uresti Rd. with connection to the HCDD1 J-02 Drain. Proposed installation of grate and sag inlets along Mile 19 Rd. (Phase Two) and proposed installation of grate and sag inlets along Sharp Rd. (Phase Two). Proposed Culverts Improvements (Phase One). Proposed detention pond with 9 acre footprint. Channel maintenance.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Hidalgo**  
HUC 8 **12110207,**  
**12110286**  
HUC 12 **121102080400,**  
**121102070100,**  
**121102080200,**  
**121102080200**  
Study Area (sq. mi.) **0.73**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$899,250	Study Sponsor:	Hidalgo County Precinct 4
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Precinct 4
Time to complete?	2025	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local



## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Precinct 4 MDP - Risk Area J at SH107 & FM

FME ID: 151000079

### FME Description

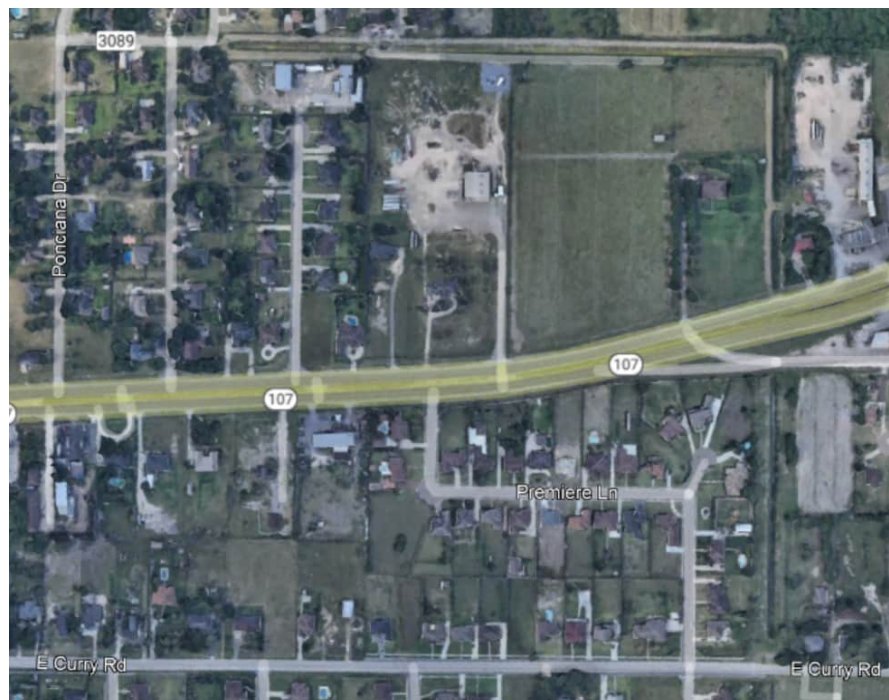
Channel Improvements (Widening & Regrading) to Existing HCDD1 "Y" drain with approximately 0.75 miles of proposed channel improvements beginning at Fresno Dr. and ending at E Curry Rd. Proposed Drainage Grate Inlets approximately 3,800' of storm drain to provide local drainage improvements north and west of existing HCDD1 "Y" Drain in two separate systems. Proposed culverts improvements. Proposed detention pond with a 2.7 acre footprint.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Hidalgo**  
HUC 8 **12110207,**  
**12110287**  
HUC 12 **121102070100,**  
**121102080200,**  
**121102080400,**  
Study Area (sq. mi.) **0.15**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$541,200	Study Sponsor:	Hidalgo County
Estimated year to start:	2023	Entity with Oversight	Hidalgo County
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, Local

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Mercedes Project Area 111

FME ID: 151000080

### FME Description

Provide channel and culvert improvements for the outlined ditches. (Mercedes Ditch 19, 19A, Anaquitas Drain)

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **0.082756907**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,151,000.00	Study Sponsor:	Hidalgo County Drainage District No. 1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No. 1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
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- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## East Mercedes Project Area 112a

FME ID: 151000081

### FME Description

Provide channel and culvert improvements for the Mercedes Ditch 23, North of IH 2.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **0.262293577**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$454,000.00	Study Sponsor:	Hidalgo County Drainage District No. 1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No. 1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Jim Hogg County Master Drainage Study

FME ID: **151000082**

### FME Description

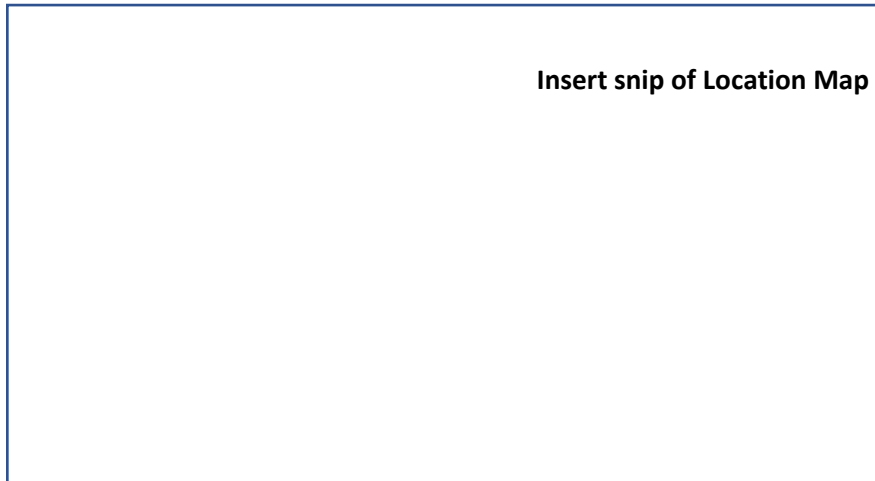
Develop Flood risk maps for the county of Jim Hogg and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Jim Hogg**  
HUC 8  
HUC 12  
Study Area (sq. mi.) **870.56**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Kenedy County Master Drainage Study

FME ID: **151000083**

### FME Description

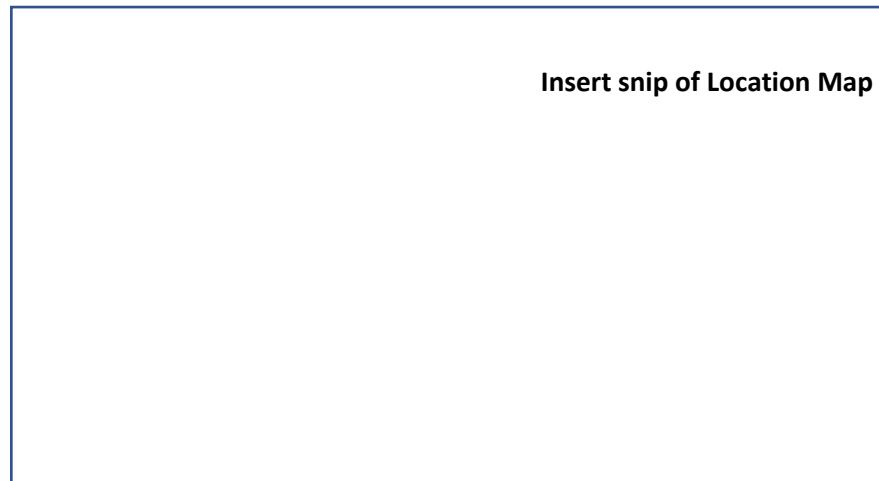
Develop Flood risk maps for the county of Kenedy and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Kenedy**  
HUC 8  
HUC 12  
Study Area (sq. mi.) **1478.25**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Fort Clark MUD Master Drainage Study

FME ID: **151000084**

### FME Description

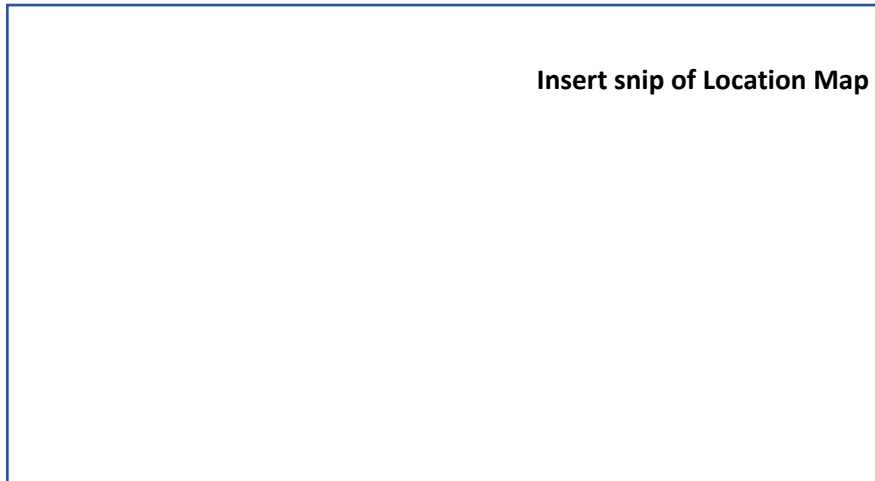
Develop Flood risk maps for Fort Clark MUD and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Kinney**  
HUC 8  
HUC 12  
Study Area (sq. mi.) **4.21**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
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- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



### Kinney County Master Drainage Study

FME ID: **151000085**

### FME Description

Develop Flood risk maps for the county of Kinney and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

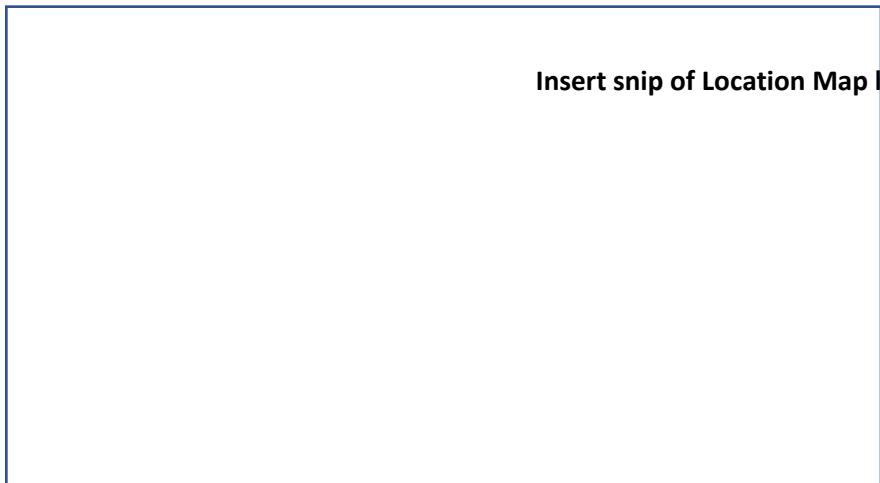
City/ Cities

County/ Counties **Kinney**

HUC 8

HUC 12

Study Area (sq. mi.) **751.29**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Risk Area 11 Rancho Escondido

FME ID: 151000086

### FME Description

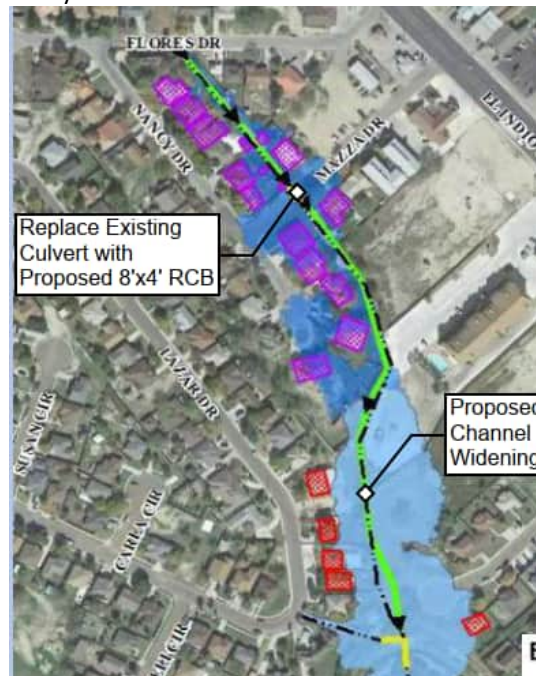
Study includes constructing 10'x2' U-shaped channel from Flores Drive to just south of Microtel Inn Suites, replacing existing culvert under Maza Drive with 1-8'x4' RCB, and installing curb inlet at cul-de-sac on Nancy Drive.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Eagle Pass**  
 County/ Counties **Maverick**  
 HUC 8 **13080001,**  
**13080002**  
 HUC 12 **130800020703,**  
**130800020702**  
 Study Area (sq. mi.) **0.03**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$136,785	Study Sponsor:	City of Eagle Pass
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Risk Area 12 Fox Borough Drive

FME ID: 151000087

### FME Description

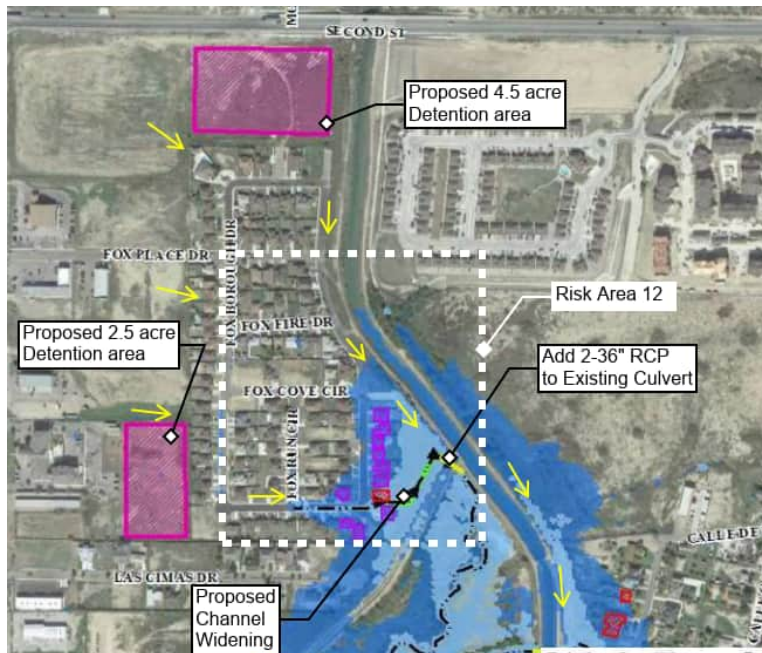
Study includes bypassing flow from inlet at PointLoma Drive and North Point Drive to the detention pond with 1 - 8'x4' RCB and Installing additional curb inlets on N. Point Drive and Silver Oak Circle.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Eagle Pass**  
 County/ Counties **Maverick**  
 HUC 8 **13080001,**  
**13080002**  
 HUC 12 **130800020703,**  
**130800020702**  
 Study Area (sq. mi.) **0.05**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$177,870	Study Sponsor:	City of Eagle Pass
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Risk Area 13 Celle De Los Santos neighborhood. Additional culvert under irrigation canal.

FME ID: 151000088

### FME Description

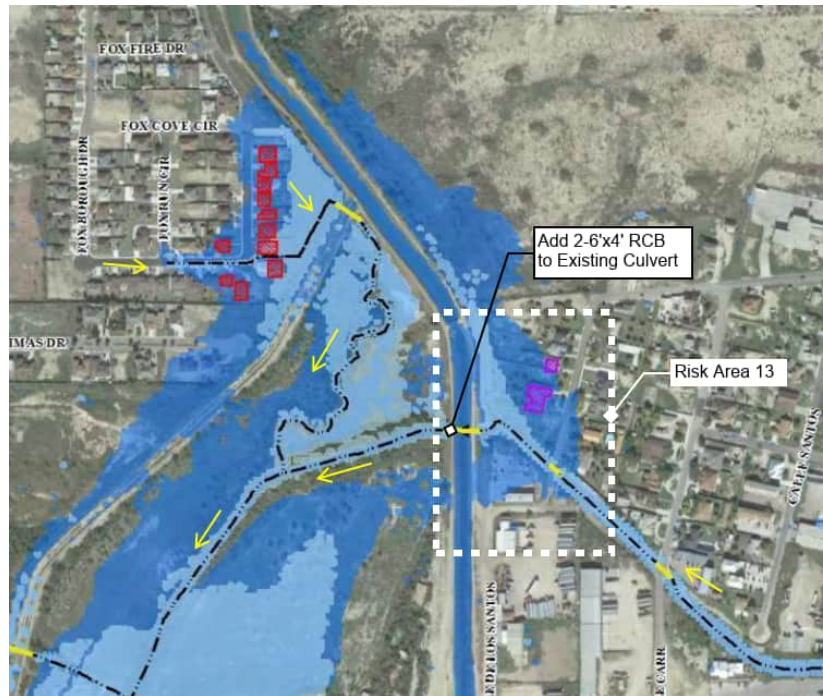
Study includes upgrading existing culvert crossing irrigation canal from 2-6'x4' RCB to 4-6'x4' RCB.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Eagle Pass**  
 County/ Counties **Maverick**  
 HUC 8 **13080001,**  
**13080002**  
 HUC 12 **130800020703,**  
**130800020702**  
 Study Area (sq. mi.) **0.03**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No   
 Population at Risk  
 Roadways flooded Yes  No   
 Critical Facilities Impacted Yes  No   
 Agricultural Land impacted Yes  No

Notes:

### Study Costs

Total Cost: \$27,225  
 Estimated year to start:  
 Time to complete?  
 Funding Dedicated? Yes  No   
 Study Sponsor: City of Eagle Pass  
 Entity with Oversight: City of Eagle Pass  
 Included in a Hazard Mitigation Action Plan or other plan? Yes  No   
 (Potential) Source of Funding: FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Risk Area 15 Trib 3 Detention at Main Street

FME ID: 151000089

### FME Description

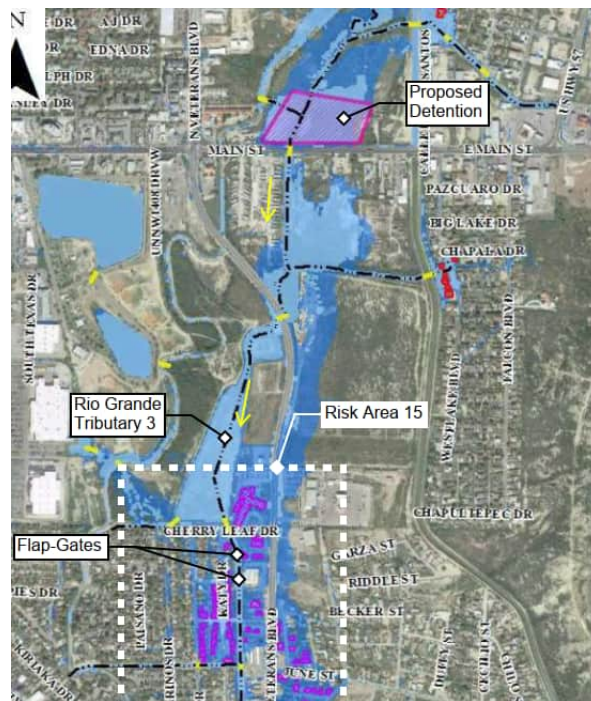
Study includes constructing 10 acre detention pond (29 ac-ft volume) along East Channel north of Highway 277 and installing flap-gates at flume outfalls on Omar Drive and Jana Drive, to prevent more frequent stormwater from backing up into the neighborhood on the west side of the channel.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Eagle Pass**  
 County/ Counties **Maverick**  
 HUC 8 **13080001,**  
**13080002**  
 HUC 12 **130800020703,**  
**130800020702**  
 Study Area (sq. mi.) **0.05**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No   
 Population at Risk  
 Roadways flooded Yes  No   
 Critical Facilities Impacted Yes  No

Agricultural Land impacted Yes  No

Notes:

### Study Costs

Total Cost: \$124,245  
 Estimated year to start:  
 Time to complete?  
 Funding Dedicated? Yes  No

Study Sponsor: City of Eagle Pass  
 Entity with Oversight: City of Eagle Pass  
 Included in a Hazard Mitigation Action Plan or other plan? Yes  No   
 (Potential) Source of Funding: FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Risk Area 2 Treasure Hills

FME ID: 151000090

### FME Description

Study includes constructing a 4' deep trapezoidal concrete channel with 8' bottom width and 2:1 side slopes, from detention pond outfall to existing culverts.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Eagle Pass**  
 County/ Counties **Maverick**  
 HUC 8 **13080001,**  
**13080002**  
 HUC 12 **130800020703,**  
**130800020702**  
 Study Area (sq. mi.) **0.06**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$89,595	Study Sponsor:	City of Eagle Pass
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Risk Area 3 Arrow Point Boulevard

FME ID: 151000091

### FME Description

Study includes constructing small retaining wall at downstream of flume outfall to force flow towards Stone Way and constructing a 2' wide and 6" deep concrete flume from existing flume outfall to Stone Way.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Eagle Pass**  
 County/ Counties **Maverick**  
 HUC 8 **13080001,**  
**13080002**  
 HUC 12 **130800020703,**  
**130800020702**  
 Study Area (sq. mi.) **0.02**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$7,920	Study Sponsor:	City of Eagle Pass
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Risk Area 4 Bibb & Misty Willow storm drain

FME ID: 151000092

### FME Description

Study includes installing 6'x4' RCB along Misty Willow Drive from N Bibb Avenue to existing channel between N Bibb Avenue and Timber Valley and installing curb inlets on N Bibb Avenue and Misty Willow Drive.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Eagle Pass**  
 County/ Counties **Maverick**  
 HUC 8 **13080001,**  
**13080002**  
 HUC 12 **130800020703,**  
**130800020702**  
 Study Area (sq. mi.) **0.02**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$47,520	Study Sponsor:	City of Eagle Pass
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Risk Area 5 Debona Drive

FME ID: 151000093

### FME Description

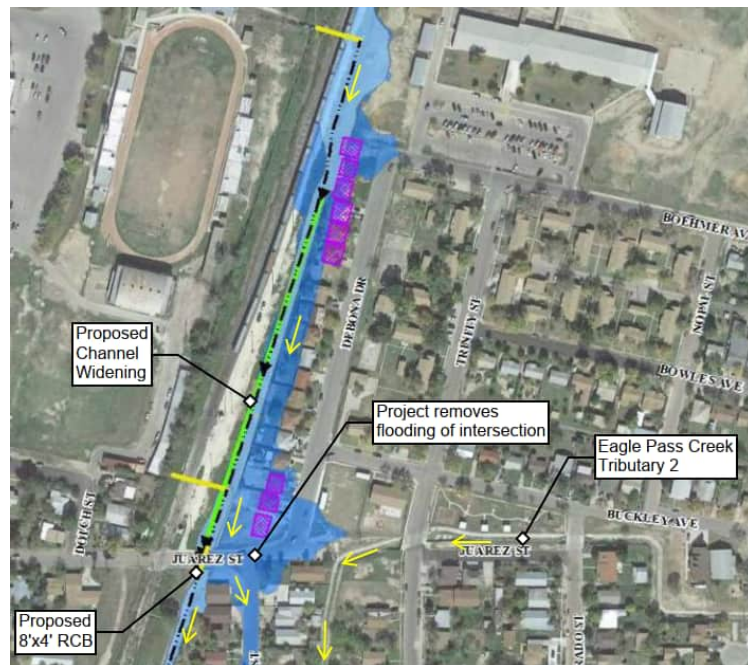
Study includes constructing a 5' deep trapezoidal channel approximately 30 feet wide with 3:1 side slopes and a 5' concrete pilot channel, replacing Juarez Street culvert with 8'x4' box culvert, and realigning existing channel to provide additional distance from homes.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Eagle Pass**  
 County/ Counties **Maverick**  
 HUC 8 **13080001,**  
**13080002**  
 HUC 12 **130800020703,**  
**130800020702**  
 Study Area (sq. mi.) **0.02**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No   
 Population at Risk  
 Roadways flooded Yes  No   
 Critical Facilities Impacted Yes  No

Notes:

Miles inundated?  
 Agricultural Land impacted Yes  No

### Study Costs

Total Cost: \$53,955  
 Estimated year to start:  
 Time to complete?  
 Funding Dedicated? Yes  No

Study Sponsor: City of Eagle Pass  
 Entity with Oversight City of Eagle Pass  
 Included in a Hazard Mitigation Action Plan or other plan? Yes  No   
 (Potential) Source of Funding FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)



Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Risk Area 6 Trib 2 bypass & detention at Eagle Pass High School fields

FME ID: 151000094

### FME Description

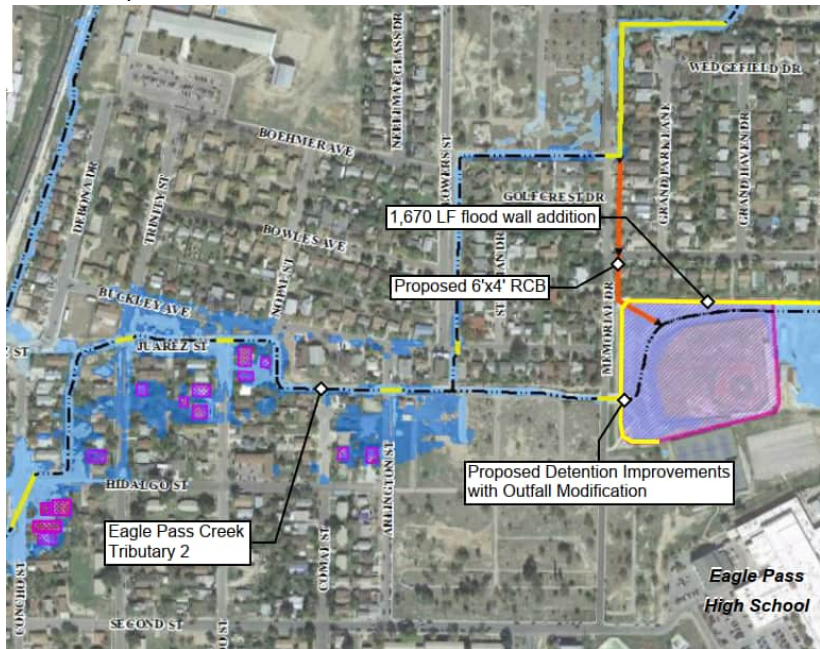
Study includes bypassing flow from Golfcrest Drive to the detention pond with 1-6'x4', RCB Modifying outfall structure from 2-5'x3' RCB to 1-5'x3' RCB, and Lowering existing baseball field by 3 ft to provide an additional 30 ac-ft of storage.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Eagle Pass**  
 County/ Counties **Maverick**  
 HUC 8 **13080001,**  
**13080002**  
 HUC 12 **130800020703,**  
**130800020702**  
 Study Area (sq. mi.) **0.10**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$143,550	Study Sponsor:	City of Eagle Pass
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Risk Area 8 Tributary 2 channel widening near Alexander Drive

FME ID: 151000095

### FME Description

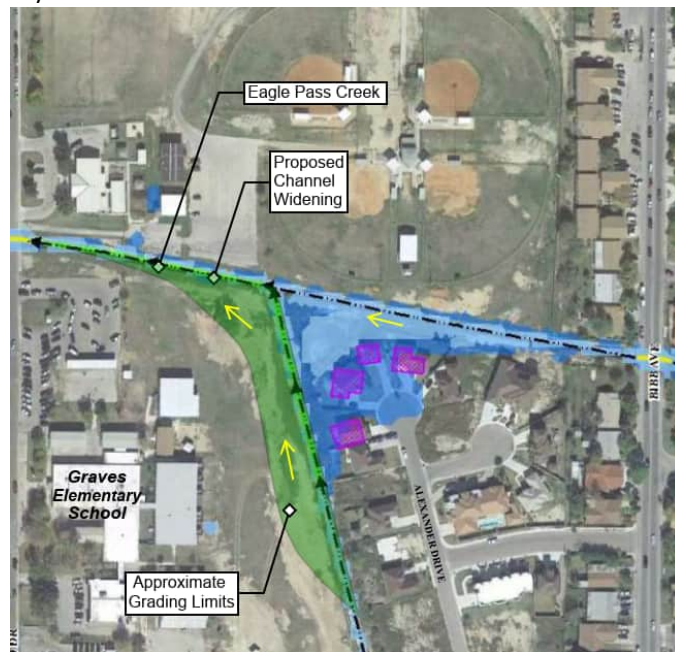
Study includes constructing a 3' deep trapezoidal channel with a 76' bottom width with 4:1 side slopes from Graves Elementary School to the confluence of existing channels and constructing a 4' deep trapezoidal channel with a 11' bottom width with 4:1 side slopes from confluence of existing channels to existing culvert at Kelso Drive.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Eagle Pass**  
 County/ Counties **Maverick**  
 HUC 8 **13080001,**  
**13080002**  
 HUC 12 **130800020703,**  
**130800020702**  
 Study Area (sq. mi.) **0.04**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	12,045	Study Sponsor:	City of Eagle Pass
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Maverick County Master Drainage Study

FME ID: **151000096**

### FME Description

Develop Flood risk maps for the county of Maverick and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

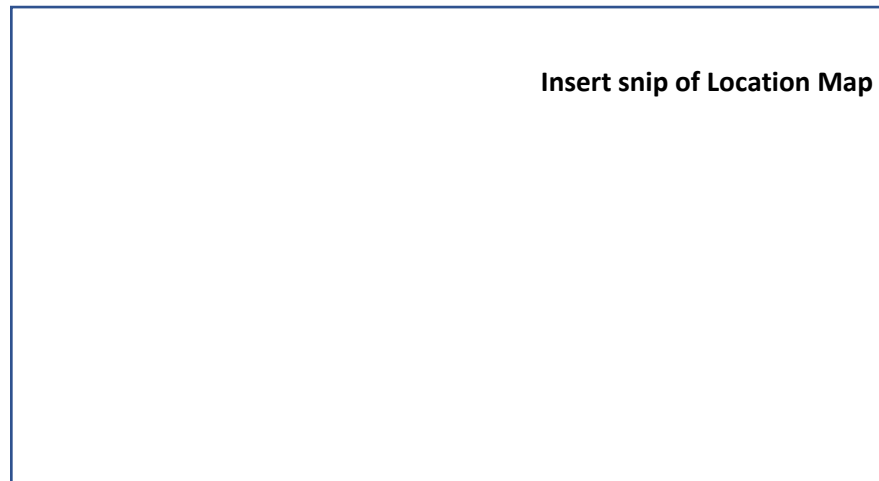
City/ Cities

County/ Counties **Maverick**

HUC 8 **13080001,**  
**13080002**

HUC 12

Study Area (sq. mi.) **768.49**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Starr County Master Drainage Study

FME ID: **151000097**

### FME Description

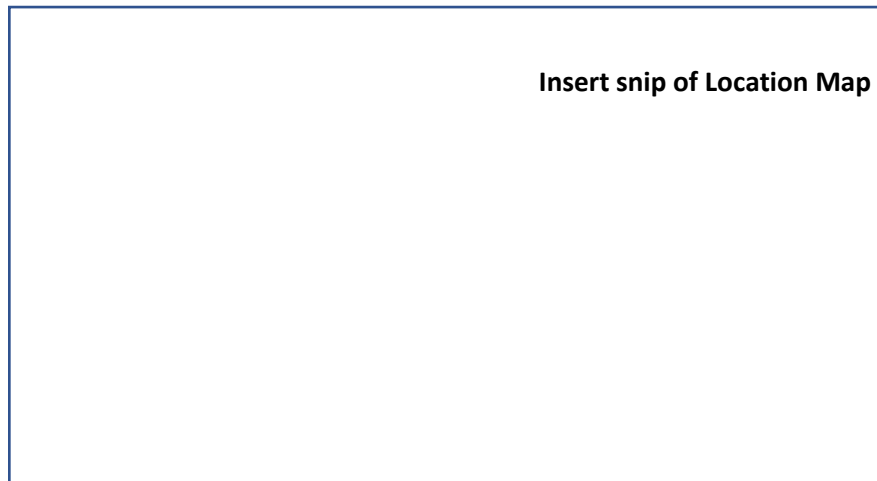
Develop Flood risk maps for the county of Starr and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Starr**  
HUC 8 **12110207,**  
**12110208**  
HUC 12  
Study Area (sq. mi.) **1232.38**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Starr County Drainage District Master Drainage Study

FME ID: **151000098**

### FME Description

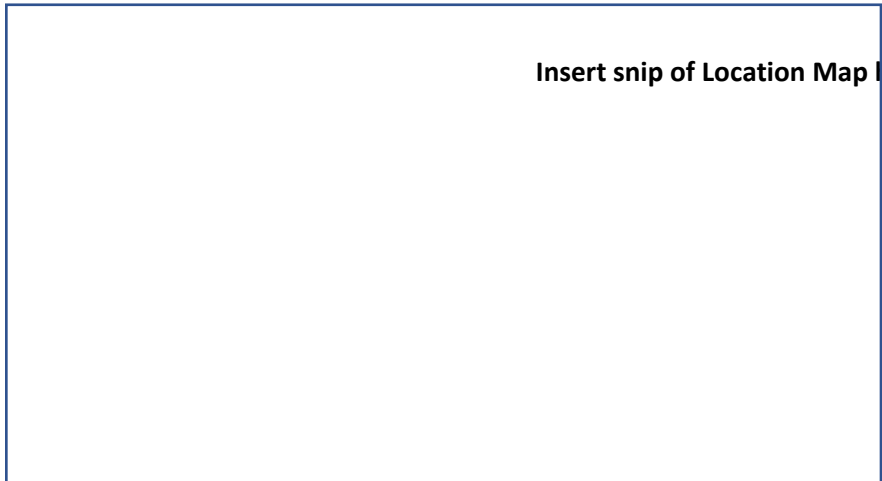
Develop Flood risk maps for the Starr County Drainage District and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Starr**  
HUC 8 **12110207,**  
**12110208**  
HUC 12  
Study Area (sq. mi.) **1232.34**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:
Population at Risk		# of structures inundated
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Notes:		Yes <input type="checkbox"/> No <input type="checkbox"/>

### Study Costs

Total Cost:	\$250,000	Study Sponsor:
Estimated year to start:		Entity with Oversight
Time to complete?		Included in a CIP or other plan?
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding
		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## La Grulla Master Drainage Study

FME ID: **151000099**

### FME Description

Develop Flood risk maps for the city of La Grulla and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

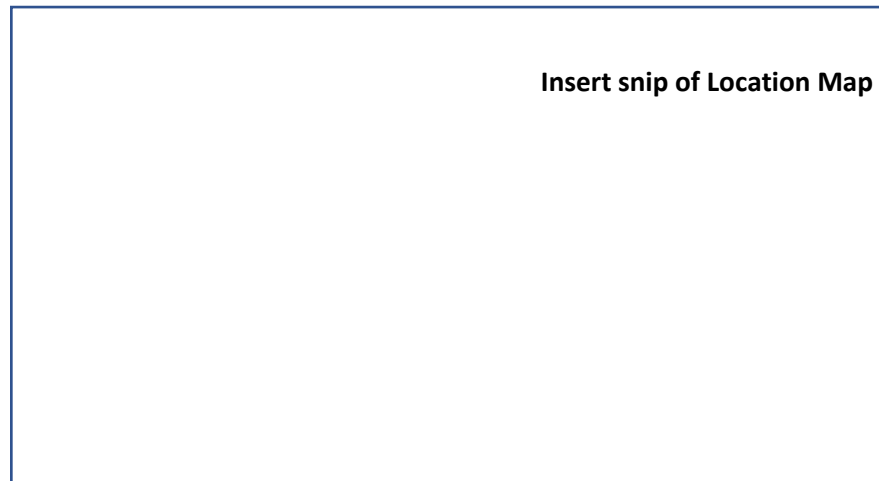
City/ Cities **La Grulla**

County/ Counties **Starr**

HUC 8 **12110207,**  
**12110208**

HUC 12

Study Area (sq. mi.) **0.94**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Roma Master Drainage Study

FME ID: **151000100**

### FME Description

Develop Flood risk maps for the city of Roma and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

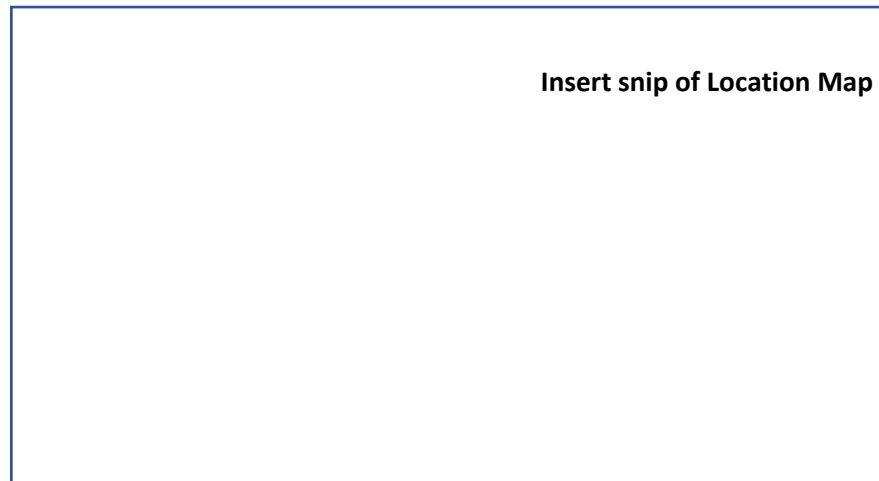
City/ Cities **Roma**

County/ Counties **Starr**

HUC 8 **12110207,**  
**12110208**

HUC 12

Study Area (sq. mi.) **5.98**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Escobares Master Drainage Study

FME ID: **151000101**

### FME Description

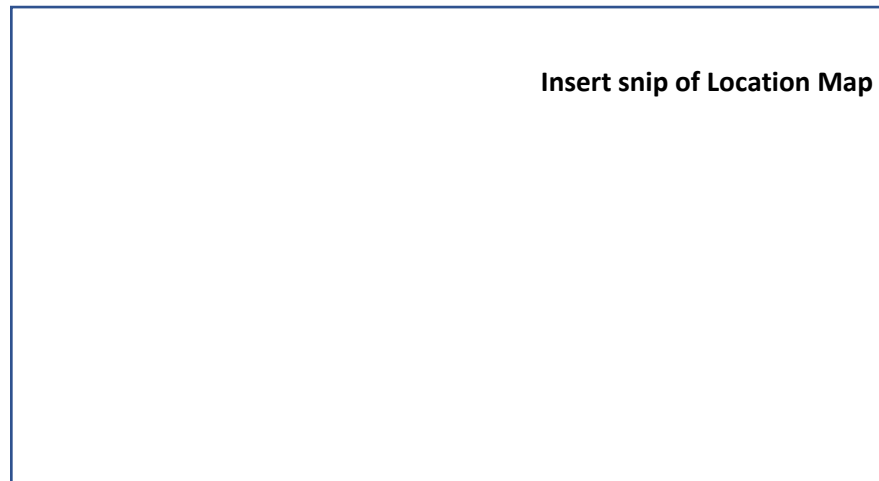
Develop Flood risk maps for the city of Escobares and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Escobares**  
 County/ Counties **Starr**  
 HUC 8 **12110207,**  
**12110208**  
 HUC 12  
 Study Area (sq. mi.) **2.73**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Rio Grande City Master Drainage Study

FME ID: **151000102**

### FME Description

Develop Flood risk maps for the city of Rio Grande City and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

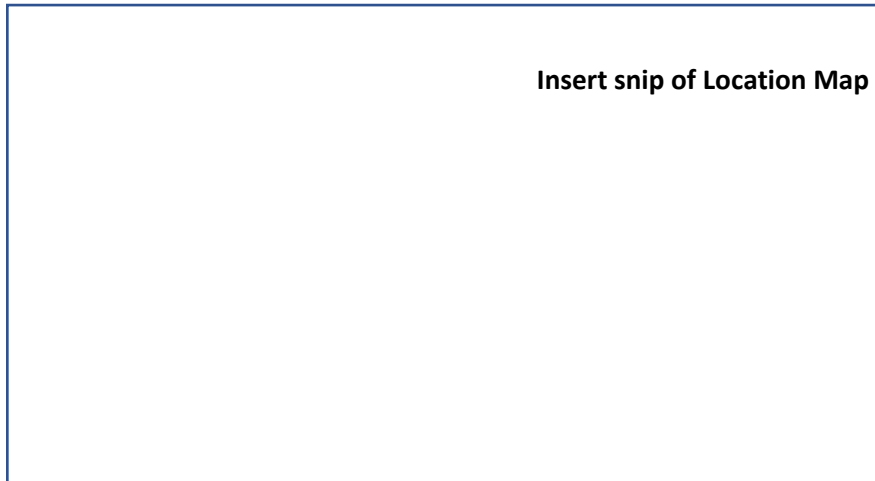
City/ Cities **Rio Grande City**

County/ Counties **Starr**

HUC 8 **12110207,**  
**12110208**

HUC 12

Study Area (sq. mi.) **11.38**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
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- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Rgc Public Works, Escobares City, And Starr Public Works Roadway Improvements

FME ID: 151000103

### FME Description

Improve Roadways, By Widening And Raising, And Create Drainage Culverts Or Bridges. (Morenos Creek And Garceno Creek)(Kelsey Creek, Rio Grande City)

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities

County/ Counties **STARR**

HUC 8 **12110207,**  
**13090001**

HUC 12 **121102070100,**  
**130900011301,**  
**130900011302,**  
**130900011304,**  
**130900011202,**

**130900011203, 130900011204, 130900011401,**  
**130900011402, 130800031007, 130800031011,**  
**130900011102, 130900011103, 130900011110,**  
**130900011403, 130900011501, 130900011502,**  
**130900011601, 130900011603, 130900011604,**  
**130900011605, 130900011606, 130900011607,**  
**130900011701, 130900011702, 130900011703,**  
**130900011704, 130900011705, 130900011706,**  
**130900011107, 130900011109, 130900011112**



Study Area (sq. mi.)



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

## Study Costs

Total Cost:	\$528,000	Study Sponsor:	Starr County
Estimated year to start:		Entity with Oversight	Starr County
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	TDA/Local

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings

## Flood Management Evaluations Fact Sheet

- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

### RFPG Recommended

Yes  No

## City of Del Rio

FME ID: 151000104

## FME Description

Update flood risk maps for the city of Del Rio and CIP using Atlas 14

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Watershed Planning

## Study Area

City/ Cities **City of Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **15.14982319**

## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

## Study Costs

Total Cost:	\$250,000.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
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- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Del Rio Project 1

FME ID: 151000105

### FME Description

Calaveras Creek Railroad Avenue Road/Culvert Improvement

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Project Planning

### Study Area

City/ Cities **City of Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **0.023648145**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$33,000.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
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- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Del Rio Project 10

FME ID: 151000106

### FME Description

San Felipe Creek W. 10th St. Storm sewer

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Project Planning

### Study Area

City/ Cities **City of Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **0.800448358**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$33,001.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Del Rio Project 11

FME ID: 151000107

### FME Description

Cinegas Creek Wildcat Drive Road/Culvert Improvement

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Project Planning

### Study Area

City/ Cities **City of Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **0.170092881**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$33,002.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Del Rio Project 12

FME ID: 151000108

### FME Description

Cantu Branch Kings Way - Site 1 Road/Culvert Improvement

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Project Planning

### Study Area

City/ Cities **City of Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **1.652483463**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$33,003.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Del Rio Project 13

FME ID: 151000109

### FME Description

Cantu Branch Margaret Lane Road/Culvert Improvement

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Project Planning

### Study Area

City/ Cities **City of Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **0.006336553**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$33,004.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Del Rio Project 14

FME ID: 151000110

### FME Description

Cantu Branch Amistad Blvd Road/Culvert Improvement

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Project Planning

### Study Area

City/ Cities **City of Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **0.026565405**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$33,005.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Del Rio Project 15

FME ID: 151000111

### FME Description

Cantu Branch Kings Way - Site 2 Road/Culvert Improvement

### Study Type

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Flood risk modeling/mapping | <input type="checkbox"/> Alternative Analysis    | <input type="checkbox"/> Flood preparedness studies  |
| <input type="checkbox"/> Flood mitigation study      | <input type="checkbox"/> Feasibility Assessments | <input checked="" type="checkbox"/> Project Planning |

### Study Area

City/ Cities **City of Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **1.652483463**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$33,006.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Del Rio Project 16

FME ID: 151000112

### FME Description

Cantu Branch Kings Way - Site 3 Road/Culvert Improvement

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Project Planning

### Study Area

City/ Cities **City of Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **1.652483463**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$33,007.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Del Rio Project 17

FME ID: 151000113

### FME Description

Cantu Branch Amistad - Site 2a Road/Culvert Improvement

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Project Planning

### Study Area

City/ Cities **City of Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **0.007424456**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$33,008.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Del Rio Project 18

FME ID: 151000114

### FME Description

Cantu Branch Amistad - Site 2b Road/Culvert Improvement

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Project Planning

### Study Area

City/ Cities **City of Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **0.006116466**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$33,009.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Del Rio Project 19

FME ID: 151000115

### FME Description

Cantu Branch Kings Way/Amistad Blvd Storm sewer Improvement

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Project Planning

### Study Area

City/ Cities **City of Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **0.017694822**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$33,010.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Del Rio Project 2

FME ID: 151000116

### FME Description

Calaveras Creek Plaza / W. Viesca St. Road/Culvert Improvement

### Study Type

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Flood risk modeling/mapping | <input type="checkbox"/> Alternative Analysis    | <input type="checkbox"/> Flood preparedness studies              |
| <input type="checkbox"/> Flood mitigation study      | <input type="checkbox"/> Feasibility Assessments | <input checked="" type="checkbox"/> Engineering Project Planning |

### Study Area

City/ Cities **Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$33,018.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Del Rio Project 3

FME ID: 151000117

### FME Description

Calaveras Creek Bowie Street Road/Culvert Improvement

### Study Type

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Flood risk modeling/mapping | <input type="checkbox"/> Alternative Analysis    | <input type="checkbox"/> Flood preparedness studies              |
| <input type="checkbox"/> Flood mitigation study      | <input type="checkbox"/> Feasibility Assessments | <input checked="" type="checkbox"/> Engineering Project Planning |

### Study Area

City/ Cities **Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$33,018.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Del Rio Project 4

FME ID: 151000118

### FME Description

Calaveras Creek Vitela St Off Channel Detention

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$33,018.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Del Rio Project 5

FME ID: 151000119

### FME Description

San Felipe Creek RSWF A Regional Detention

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$33,018.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Del Rio Project 6

FME ID: 151000120

### FME Description

San Felipe Creek RSWF B Regional Detention

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$33,018.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Del Rio Project 7

FME ID: 151000121

### FME Description

San Felipe Creek Johnson Street Bridge Replacement

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$33,018.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Del Rio Project 8

FME ID: 151000122

### FME Description

San Felipe Creek Canal Street Bridge Replacement

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$33,018.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Del Rio Project 9

FME ID: 15100012Q3

### FME Description

San Felipe Creek Academy Street Bridge Replacement

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Del Rio**

County/ Counties **Val Verde**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$33,018.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Val Verde County Master Drainage Study

FME ID: 151000124

### FME Description

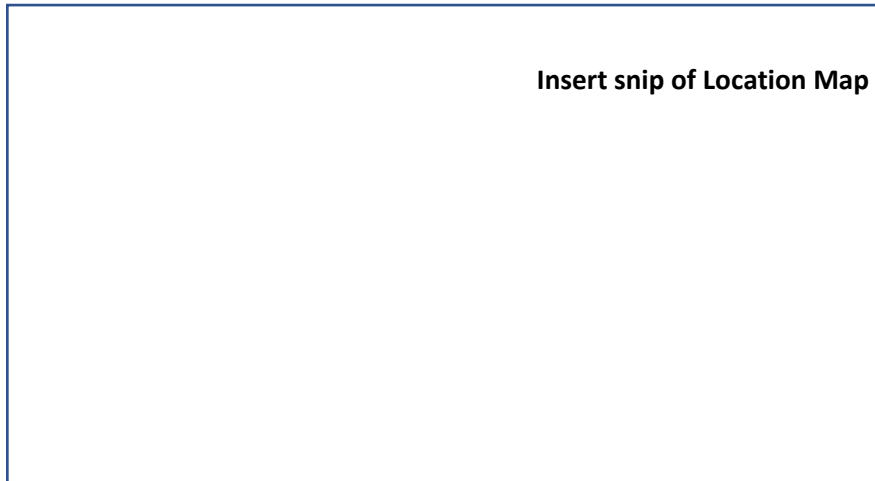
Develop Flood risk maps for the county of Val Verde and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Val Verde**  
HUC 8 **13080001**  
HUC 12  
Study Area (sq. mi.) **349.71**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$500,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Webb County Drainage District #1 Master Drainage Study

FME ID: **151000125**

### FME Description

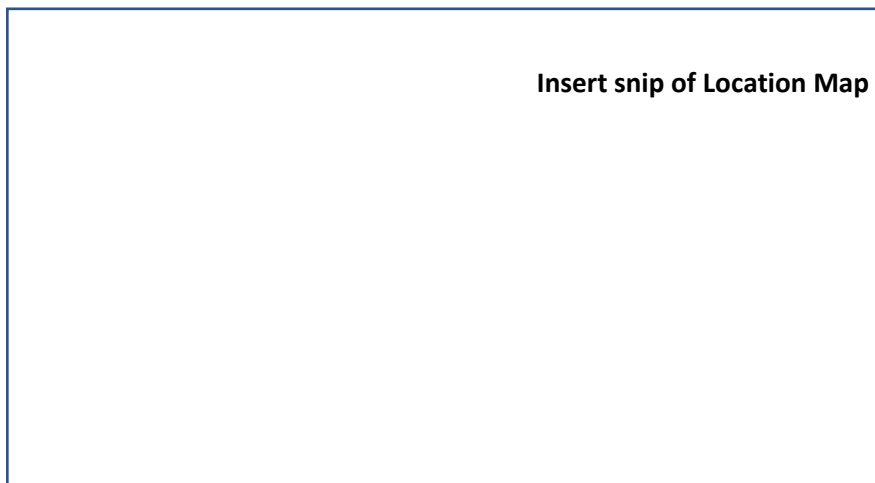
Develop Flood risk maps for the Webb County Drainage District #1 and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Webb**  
HUC 8 **13080002**  
HUC 12  
Study Area (sq. mi.) **9.12**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,000,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Laredo

FME ID: **151000126**

## FME Description

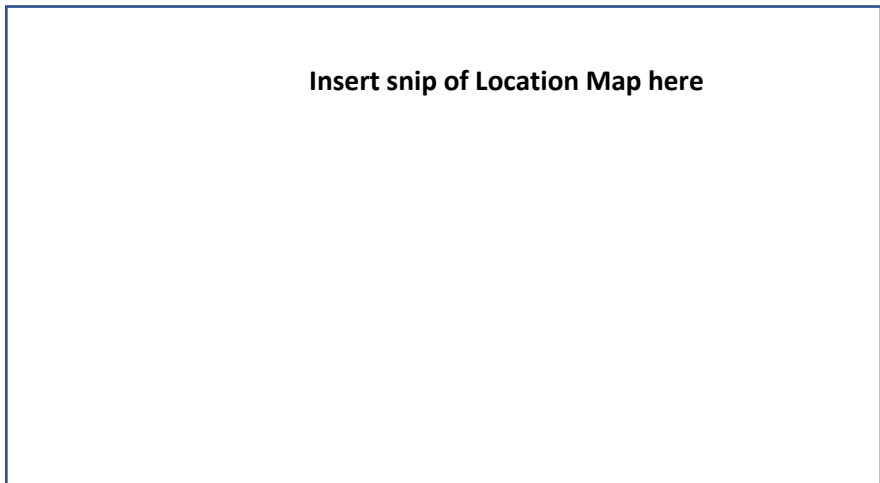
Develop Flood risk maps for the city of Laredo and develop CIP

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

## Study Area

City/ Cities **Laredo**  
 County/ Counties **Webb**  
 HUC 8 **13080002**  
 HUC 12  
 Study Area (sq. mi.) **53.45**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

## Study Costs

Total Cost:	\$1,000,000	Study Sponsor: City of Laredo
Estimated year to start:		Entity with Oversight: City of Laredo
Time to complete?		Included in a CIP or other plan? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Rio Bravo Master Drainage Study

FME ID: **151000127**

### FME Description

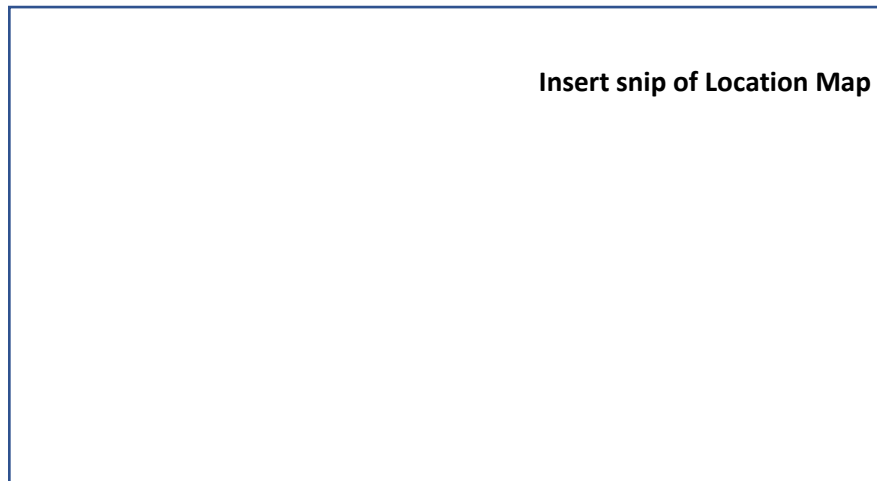
Develop Flood risk maps for the city of Rio Bravo and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Rio Bravo**  
 County/ Counties **Webb**  
 HUC 8 **13080002**  
 HUC 12  
 Study Area (sq. mi.) **0.66**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## El Cenizo Master Drainage Study

FME ID: **151000128**

### FME Description

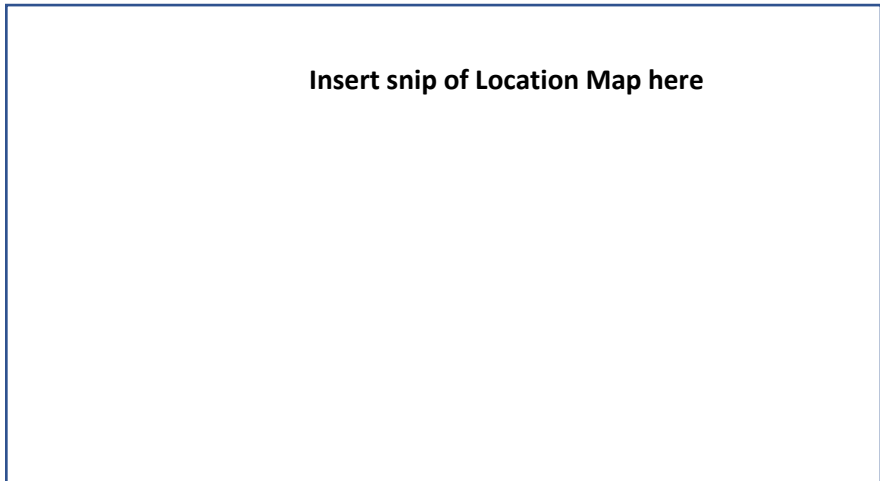
Develop Flood risk maps for the city of El Cenizo and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **El Cenizo**  
 County/ Counties **Webb**  
 HUC 8 **13080002**  
 HUC 12  
 Study Area (sq. mi.) **0.53**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Laredo Project 4

FME ID: 151000129

### FME Description

Zacate Creek Flood Plain Study to improve the 1980 flood plain map for Zacate Creek.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Laredo**

County/ Counties **Webb**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$250,000.00	Study Sponsor:	City of Laredo
Estimated year to start:	2023	Entity with Oversight	City of Laredo
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Laredo Project 6

FME ID: 151000130

### FME Description

Vidaurri Avenue Roadway Drainage Improvements to prevent future drainage in the area. Street improvements from Scott Street to Jefferson Street.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities **Laredo**

County/ Counties **Webb**

HUC 8 **13080002**

HUC 12 **130800022405,**  
**130800022610,**  
**130800022611,**  
**130800022612,**  
**130800022801,**  
**130800022802,**  
**130800022804, 130800022805,**  
**130800022809, 130800030208,**  
**130800022806**

Study Area (sq. mi.) **0.70**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No

Population at Risk

Roadways flooded Yes  No

Critical Facilities Impacted Yes  No

Frequency:  
# of structures inundated  
Miles inundated?  
Agricultural Land impacted Yes  No

Notes:

### Study Costs

Total Cost: \$330,000

Study Sponsor: Laredo

## Flood Management Evaluations Fact Sheet

Estimated year to start: \_\_\_\_\_ Entity with Oversight Laredo  
 Time to complete? \_\_\_\_\_ Included in a CIP or other plan? Yes  No   
 Funding Dedicated? Yes  No  (Potential) Source of Funding N/A

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

### Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

### RFPG Recommended

Yes  No

## Webb County Master Drainage Study

FME ID: **151000131**

### FME Description

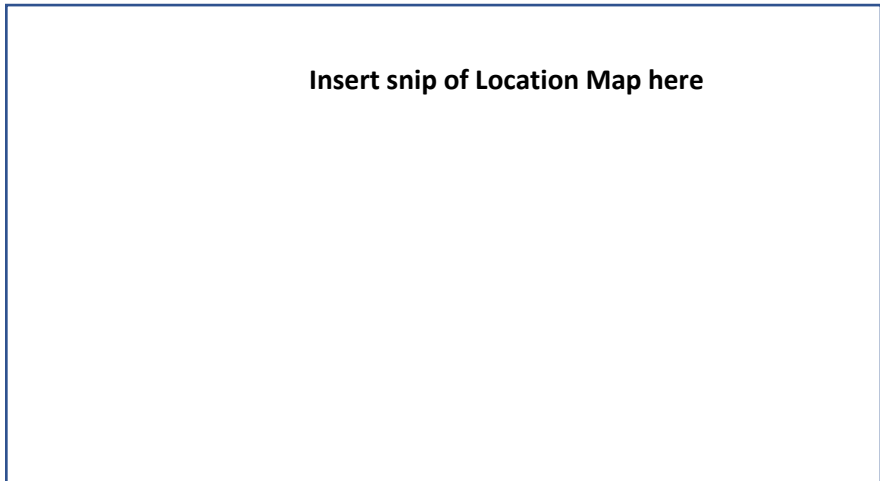
Develop Flood risk maps for the county of Webb and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Webb**  
HUC 8 **13080002**  
HUC 12  
Study Area (sq. mi.) **1654.59**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,000,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Zapata County Master Drainage Study

FME ID: **151000132**

### FME Description

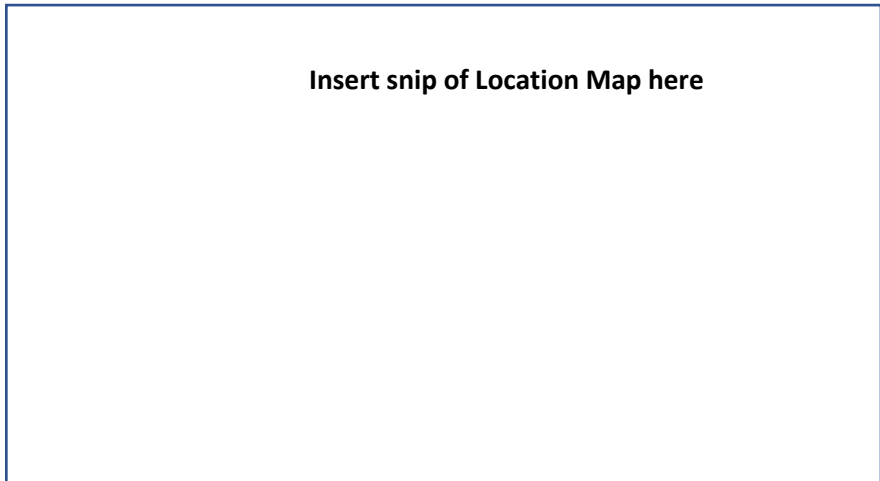
Develop Flood risk maps for the county of Zapata and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Zapata**  
HUC 8  
HUC 12  
Study Area (sq. mi.) **150.03**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## San Ygnacio MUD Master Drainage Study

FME ID: **151000133**

### FME Description

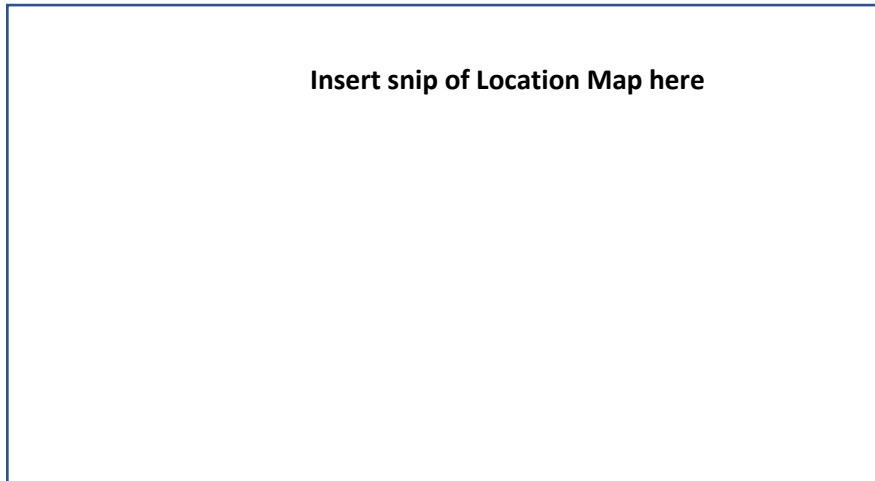
Develop Flood risk maps for San Ygnacio MUD and develop CIP

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

### Study Area

City/ Cities  
County/ Counties **Zapata**  
HUC 8  
HUC 12  
Study Area (sq. mi.)



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

NM-111

FME ID: **151000134**

## FME Description

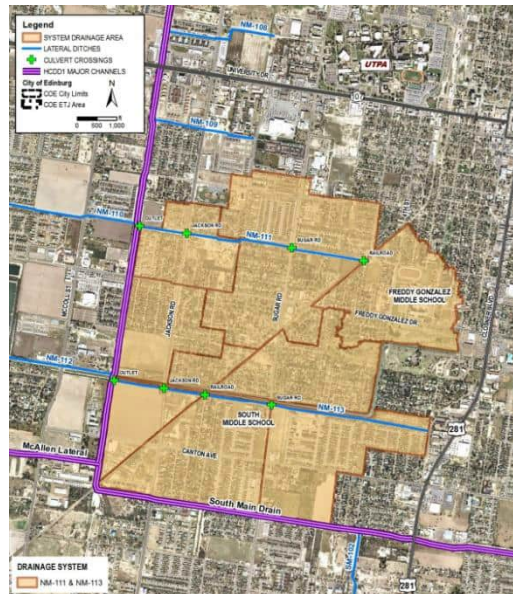
Replace existing structures with new material of the same structure to continue to provide conveyance.

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

## Study Area

City/ Cities **Edinburg**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.50**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

## Study Costs

Total Cost:	\$718,171.47	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
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- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

ES-100

FME ID: 151000135

## FME Description

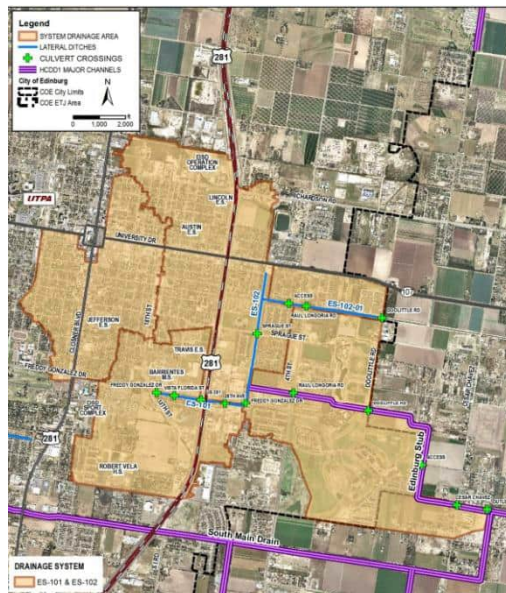
Correct out of bank ponding due to flooding by adjusting the low overbank areas and lower channel banks and fix culverts at Doolittle and Raul Longoria to prevent conveyance restriction during larger storm events. Allow for greater conveyance of water by replacing the outlet gate to the South Main Drain and replacing 10' X 10' RCB along Cesar Chavez and Dirt Road with new material. Increasing the size of RCB on Doolittle and Raul Longoria to 10' X 10' RCB.

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

## Study Area

City/ Cities **Edinburg**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.0**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Frequency:
Population at Risk			# of structures inundated
Roadways flooded	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Miles inundated?
Critical Facilities Impacted	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Agricultural Land impacted
Notes:			Yes <input type="checkbox"/> No <input type="checkbox"/>

## Study Costs

Total Cost:	\$18,681,939.51	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
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- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



ES-101

FME ID: 151000136

## FME Description

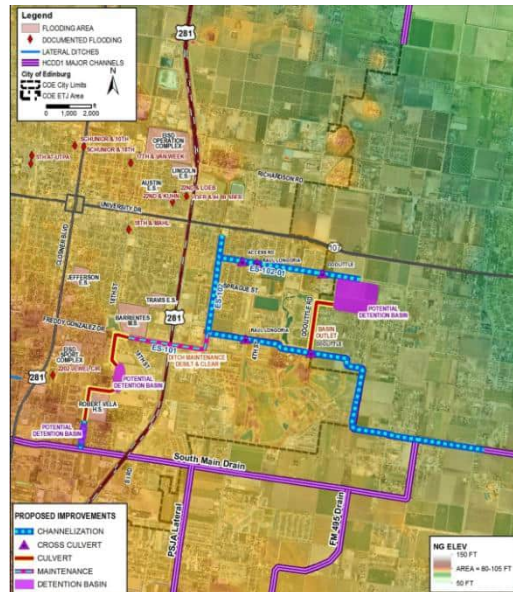
Project includes storm water detention basins for drainage relief because of ROW restriction. The basin outfall is proposed to be connected to the ES-101 ditch as well as south into the South Main Drain upstream of US 281. No projects for this year.

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

## Study Area

City/ Cities **Edinburg**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.0**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

## Study Costs

Total Cost:	\$ 3,324,410.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

SM-102

FME ID: 151000137

## FME Description

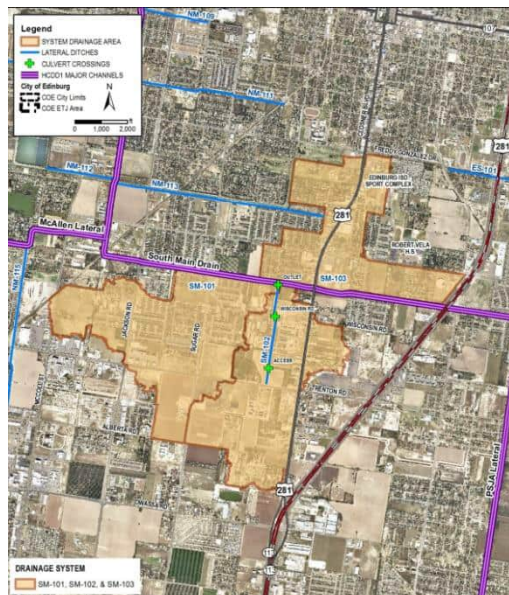
Increase conveyance ease through Wisconsin and Access Road by regrading ditches. The system will continue to be extended south and will consist of a 10 foot bottom trapezoidal, earthen section with 3:1 side slopes and an approximate depth of 8 feet. Improvements currently process is acquiring a property to be used as a detention pond. Include in plan.

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

## Study Area

City/ Cities **Edinburg**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.0**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Frequency:
Population at Risk			# of structures inundated
Roadways flooded	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Miles inundated?
Critical Facilities Impacted	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Agricultural Land impacted
Notes:			Yes <input type="checkbox"/> No <input type="checkbox"/>

## Study Costs

Total Cost:	\$ 1,549,605.68	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

SM-103

FME ID: 151000138

## FME Description

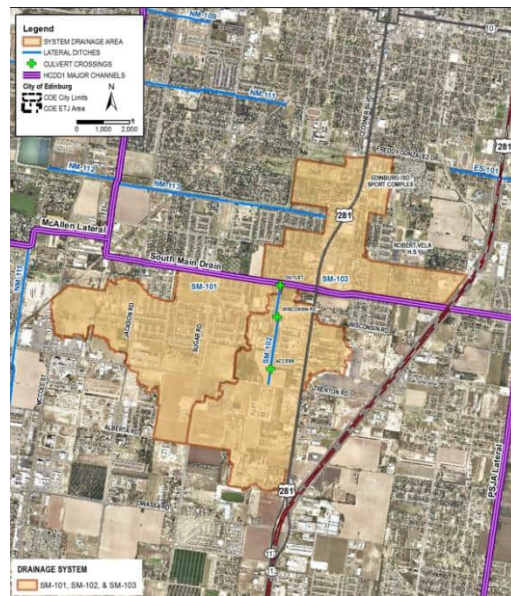
Increase collection areas for the system along Closner Blvd.

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

## Study Area

City/ Cities **Edinburg**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.0**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

## Study Costs

Total Cost:	\$ 906,437.50	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



SM-104

FME ID: 151000139

## FME Description

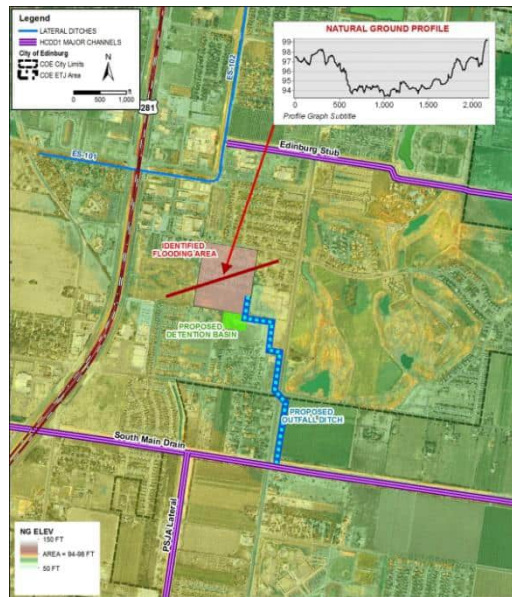
Land acquisition and a drainage ditch system to convey the runoff from the existing development and adjacent future developable areas.

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

## Study Area

City/ Cities **Edinburg**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.0**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

## Study Costs

Total Cost:	\$ 1,625,505.96	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
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- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

MC-100

FME ID: 151000140

## FME Description

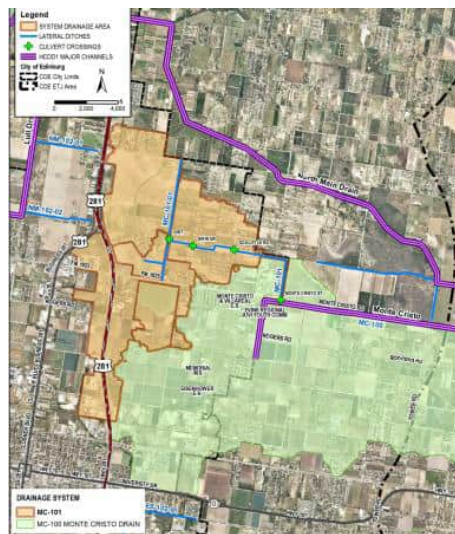
New channel improvements and alignment to collect the system area runoff and convey it to the Monte Cristo Drain. Included In plan

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

## Study Area

City/ Cities **Edinburg**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.0**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

## Study Costs

Total Cost:	\$ 2,885,082.76	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
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- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: **151000141**

## Drain C-Right Culvert Improvements

### FME Description

This alternative proposes to add 3 – 72” pipes to the 54” pipe existing along Paso Real Highway (formerly Helen Moore Road) from south of the railroad to north of Business 77. Rather than use multiple pipes a single 10’x10’ box culvert is proposed with 3 – 72” CMPs under the railroad track.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities

County/ Counties **Cameron County**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$2,649,000.00	Study Sponsor:	Cameron County Drainage District No. 3
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No. 3
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Webb County Hwy 359 Colonias Drainage

FME ID: **151000142**

### FME Description

Study would identify areas of frequent flooding, hazardous risk of flooding, land acquisition for public drainage improvements. Study would also develop a mitigation plan to minimize flood impacts and highlight evacuation routes. Developing an early warning system to notify the local community officials and residents of impending flood hazards due to weather events.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities

County/ Counties **Webb County**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$ 100,000.00	Study Sponsor:	Webb County
Estimated year to start:	2023	Entity with Oversight	Webb County
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Webb County Tanquecitos Colonia LOMR

FME ID: **151000143**

### FME Description

Develop a FEMA approved LOMR for the Tanquecitos Colonia in Webb County

### Study Type

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Flood risk modeling/mapping | <input type="checkbox"/> Alternative Analysis    | <input type="checkbox"/> Flood preparedness studies    |
| <input type="checkbox"/> Flood mitigation study      | <input type="checkbox"/> Feasibility Assessments | <input checked="" type="checkbox"/> Watershed Planning |

### Study Area

City/ Cities

County/ Counties **Webb County**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$ 150,000.00	Study Sponsor:	Webb County
Estimated year to start:	2023	Entity with Oversight	Webb County
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: **151000144**

## Summers Regional Detention Pond and 100-year channel system

### FME Description

Develop the City of Laredo Summer's Pond into a regional detention pond to improve stormwater management of existing development downstream and reduce perpetual maintenance costs for the Webb County Drainage District No.1. Additional improvements include an earthen channel designed for the 100-year storm event to convey runoff from proposed multiple developments within the Chacon Creek Tributary 2A watershed. This project will include H & H and environmental studies and a CLOMR/LOMR request through FEMA to update flood risk maps accordingly.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities

County/ Counties **Webb County**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No

Population at Risk Yes  No

Roadways flooded Yes  No

Critical Facilities Impacted Yes  No

Notes:

Frequency:

# of structures inundated

Miles inundated?

Agricultural Land impacted Yes  No

### Study Costs

Total Cost: \$4,885,000.00

Estimated year to start: 2023

Time to complete? 2025

Study Sponsor: Webb County Drainage District No.1

Entity with Oversight Webb County

Included in a CIP or other plan? Yes  No



Funding Dedicated? Yes  No  (Potential) Source of Funding

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Lago Dam to Regional Pond Conversion

FME ID: **151000145**

### FME Description

Pond improvements will include lowering and expanding the existing berm, installing an outlet structure with 48" RCP and concrete spillway, and extending existing conventional systems currently draining into the dam. An access road will also be constructed for maintenance access. Project to include H & H and environmental studies coordination with TCEQ, and a CLOMR/LOMR request through FEMA to update flood risk maps

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities

County/ Counties **Webb County**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$858,000.00	Study Sponsor:	Webb County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Webb County
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
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- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Los Presidentes Arterial Road Extension- Phase 1 and 2A

FME ID: **151000146**

### FME Description

Box culvert structure within the floodplain, conventional drainage systems, and earthen channels

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities

County/ Counties **Webb County**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,092,000.00	Study Sponsor:	Webb County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Webb County
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: **151000147**

## Concord Hills Extension and Drainage Improvements

### FME Description

Construction of a new collector road extending from the intersection of Concord Hills Blvd. and Los Presidentes Avenue to the south towards its intersection with Wormser Rd. will benefit the residents of the City of Laredo, and Webb County by improving access for first time responders and overall traffic circulation. This project will incorporate drainage improvements including three creek crossings consisting of box culvert crossings and conventional drainage systems. Environmental and H & H studies will be required.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities

County/ Counties **Webb County**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No

Population at Risk

Roadways flooded? Yes  No

Critical Facilities Impacted? Yes  No

Notes:

Frequency:

# of structures inundated

Miles inundated?

Agricultural Land impacted Yes  No

### Study Costs

Total Cost: \$1,522,000.00

Estimated year to start: 2023

Time to complete? 2025

Funding Dedicated? Yes  No

Study Sponsor: Webb County Drainage District No.1

Entity with Oversight Webb County

Included in a CIP or other plan? Yes  No

(Potential) Source of Funding

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: **151000148**

## Los Presidentes Pond and Channel Improvements

### FME Description

Project to upgrade the existing drainage system by replacing existing concrete line channels to increase flow and capacity through the neighborhood. This will allow flow into the existing detention pond faster and reduce ponding within city streets

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities

County/ Counties **Webb County**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No

Population at Risk Yes  No

Roadways flooded Yes  No

Critical Facilities Impacted Yes  No

Notes:

Frequency:

# of structures inundated

Miles inundated?

Agricultural Land impacted Yes  No

### Study Costs

Total Cost: \$295,000.00

Estimated year to start: 2023

Time to complete? 2025

Funding Dedicated? Yes  No

Study Sponsor: Webb County Drainage District No.1

Entity with Oversight Webb County

Included in a CIP or other plan? Yes  No

(Potential) Source of Funding

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain



## RFPG Recommended

Yes  No

## UISD/Garcia Pond Update

FME ID: **151000149**

### FME Description

Existing pond enhancements including dredging and pond outlet improvements aimed at resolving localized flood risk for Lago Del Valle Subdivision.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities

County/ Counties **Webb County**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$135,000.00	Study Sponsor:	Webb County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Webb County
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
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- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## H&H Model and Flood Risk Map Update of Unstudied "A" Zones within WCDD

FME ID: **151000150**

### FME Description

H&H modeling and LOMR request of remaining 5,700 LF of unstudied "A" Zone along Chacon Creek Tributary 2 to be initiated at its downstream end at Lago Del Valle Dam. This project is also to include a short, 1,000 LF segment of unstudied "A" Zone along Tex-Mex Tributary.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities

County/ Counties **Webb County**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$65,000.00	Study Sponsor:	Webb County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Webb County
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## H&H Modeling and Localized Flood Mapping of Existing Creeks Outside of Regulatory Floodplain

FME ID: **151000151**

### FME Description

H&H modeling and inundation mapping of existing creeks outside of the regulatory floodplain identified by the National Hydrography Dataset within the Webb County Drainage District No. 1.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities

County/ Counties **Webb County**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$50,000.00	Study Sponsor:	Webb County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Webb County
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML02 Esperanza

FME ID: **151000152**

### FME Description

Upgrade and extend storm sewer. Channel Improvements along Esperanza Ditch. Crossing improvements and upsizing RCP from 24" to 48".

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.66**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$4,268,039.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML03 Tulipan

FME ID: **151000153**

### FME Description

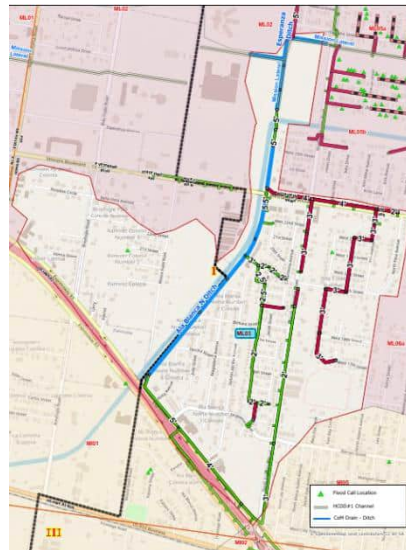
7410 feet of storm sewer upgrade.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.78**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No   
 Population at Risk  
 Roadways flooded Yes  No   
 Critical Facilities Impacted Yes  No   
 Notes:

Frequency:  
 # of structures inundated  
 Miles inundated?  
 Agricultural Land impacted Yes  No

### Study Costs

Total Cost: \$1,655,615.00  
 Estimated year to start: 2023  
 Time to complete? 2025  
 Funding Dedicated? Yes  No

Study Sponsor: City of Mission  
 Entity with Oversight City of Mission  
 Included in a CIP or other plan? Yes  No   
 (Potential) Source of Funding

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## ML04 Basham

FME ID: **151000154**

### FME Description

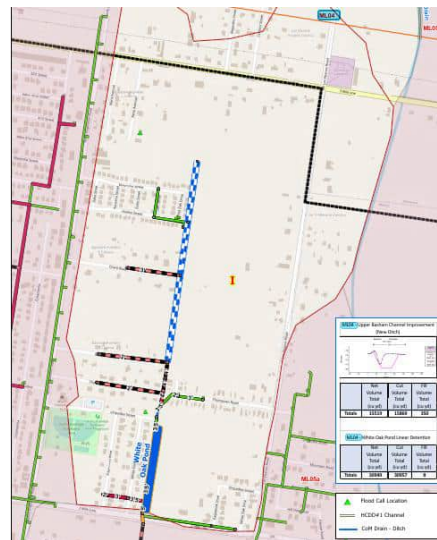
910 feet of storm sewer upgrade. 2589 feet of storm sewer extension along with channel improvements and conversion of a pond drain to a 12ac-ft Detention Basin

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.60**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No  Frequency:  
 Population at Risk # of structures inundated  
 Roadways flooded Yes  No  Miles inundated?  
 Critical Facilities Impacted Yes  No  Agricultural Land impacted Yes  No   
 Notes:

### Study Costs

Total Cost: \$835,298.00 Study Sponsor: City of Mission  
 Estimated year to start: 2023 Entity with Oversight: City of Mission  
 Time to complete? 2025 Included in a CIP or other plan? Yes  No   
 Funding Dedicated? Yes  No  (Potential) Source of Funding

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML05a Leandro

FME ID: **151000155**

### FME Description

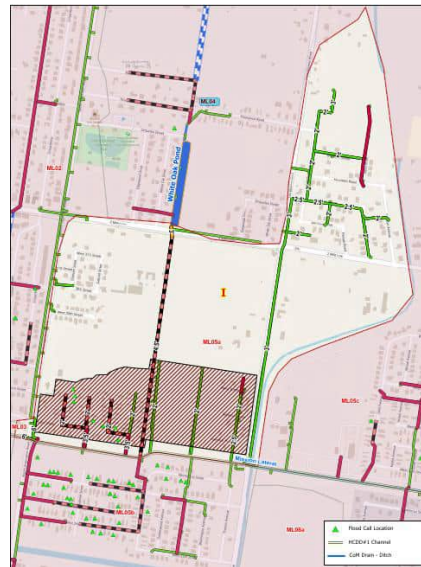
462 feet of storm sewer upgrades and an extension of 4381 of storm sewer. Buyout and Relocation program of 51 acres.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.44**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,221,540.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML05b Gabriel

FME ID: **151000156**

### FME Description

3834 feet of storm sewer upgrades and an extension of 2647 feet. Buyout and Relocation program of 62 acres.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.26**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,454,575.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## ML05c Trospen

FME ID: **151000157**

### FME Description

7151 feet of storm sewer upgrade and an extension of 3660 feet. Buyout and Relocation program of 27 acres.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.70**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$2,982,995.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML05d Holland B

FME ID: **151000158**

### FME Description

2937 feet of storm sewer upgrade and an extension of storm sewer of 2491 feet.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.14**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,175,175.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML05e Mayberry C

FME ID: **151000159**

### FME Description

17594 feet of storm sewer upgrade and an extension of storm sewer of 5096 feet.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **2.57**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$4,902,950.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## ML05f Miller

FME ID: **151000160**

## FME Description

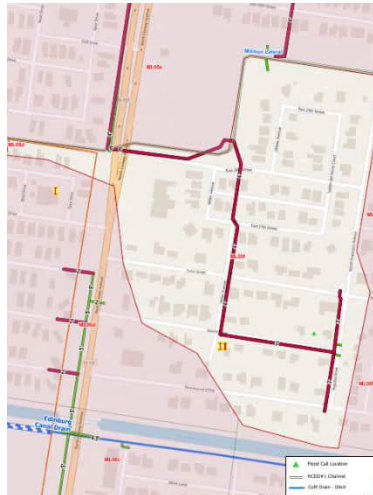
1897 feet of storm sewer upgrade

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

## Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.08**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

## Study Costs

Total Cost:	\$669,750.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML05g Alyssa

FME ID: **151000161**

### FME Description

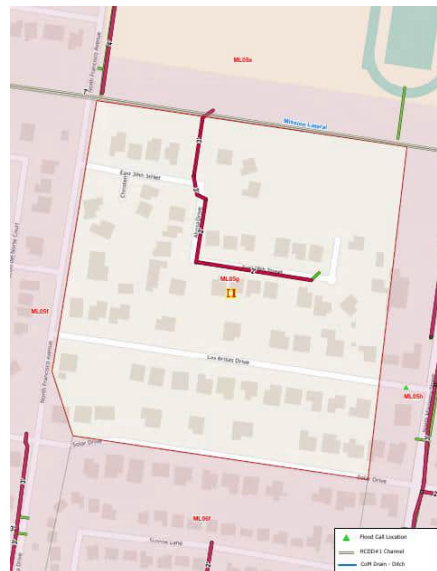
978 feet of storm sewer upgrade.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.05**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Frequency:	
Population at Risk			# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$248,280.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight:	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML05h Mayberry B

FME ID: **151000162**

### FME Description

3323 feet of storm sewer upgrade and an extension of storm sewer of 513 feet

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.15**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,625,044.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## ML05i Stewart B

FME ID: **151000163**

### FME Description

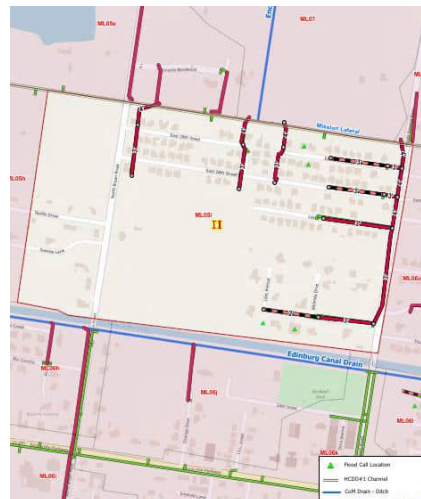
5363 feet of storm sewer upgrade and an extension of storm sewer of 1617 feet

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.25**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,551,195.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML06a Holland A

FME ID: **151000164**

### FME Description

10360 feet of storm sewer upgrade

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.94**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No   
 Population at Risk  
 Roadways flooded Yes  No   
 Critical Facilities Impacted Yes  No   
 Notes:

Frequency:  
 # of structures inundated  
 Miles inundated?  
 Agricultural Land impacted Yes  No

### Study Costs

Total Cost: \$2,168,575.00  
 Estimated year to start: 2023  
 Time to complete? 2025  
 Funding Dedicated? Yes  No

Study Sponsor: City of Mission  
 Entity with Oversight: City of Mission  
 Included in a CIP or other plan? Yes  No   
 (Potential) Source of Funding

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML06b & ML06c Stacie / Conway A

FME ID: **151000165**

### FME Description

1831 feet of storm sewer upgrade. Channel improvements of 2415 feet

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.28**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$539,371.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## ML06d Conway B

FME ID: **151000166**

### FME Description

476 feet of storm sewer upgrade

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.07**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$176,600.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML06e Augusta

FME ID: **151000167**

### FME Description

1434 feet of storm sewer upgrade

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.04**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$557,492.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML06f Thornwood

FME ID: **151000168**

### FME Description

693 feet of storm sewer upgrade

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.03**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$317,950.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## ML06g Mayberry A

FME ID: **151000169**

### FME Description

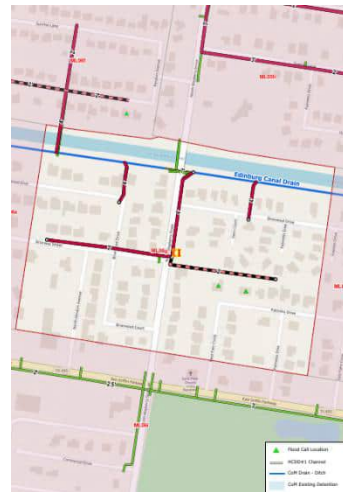
1599 feet of storm sewer upgrade and an extension of storm sewer of 616 feet

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.06**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$813,962.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML06h Woodland

FME ID: **151000170**

### FME Description

1715 feet of storm sewer upgrade

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.08**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No   
 Population at Risk  
 Roadways flooded Yes  No   
 Critical Facilities Impacted Yes  No

Frequency:  
 # of structures inundated  
 Miles inundated?  
 Agricultural Land impacted Yes  No

Notes:

### Study Costs

Total Cost: \$508,385.00  
 Estimated year to start: 2023  
 Time to complete? 2025  
 Funding Dedicated? Yes  No

Study Sponsor: City of Mission  
 Entity with Oversight: City of Mission  
 Included in a CIP or other plan? Yes  No   
 (Potential) Source of Funding

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML06i Bryan

FME ID: **151000171**

## FME Description

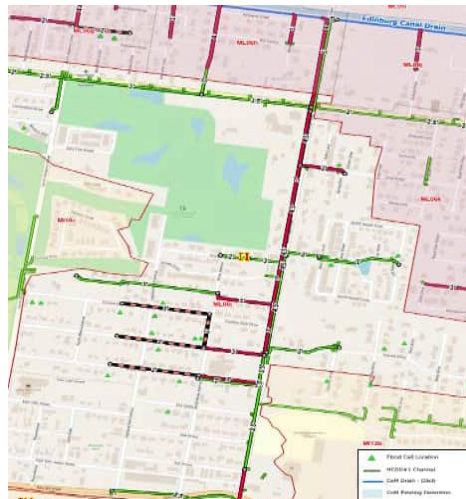
6976 feet of storm sewer upgrade and an extension of storm sewer of 3234 feet

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

## Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.69**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

## Study Costs

Total Cost:	\$2,472,545.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## ML06j Orange

FME ID: **151000172**

### FME Description

526 feet of storm sewer upgrade

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.08**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$146,120.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML06k Stewart A

FME ID: **151000173**

### FME Description

4147 feet of storm sewer upgrades and an extension of storm sewer of 1175 feet. Construction of new detention basin on N. Steward Rd of 20 acre-ft.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.38**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$2,322,862.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML06I Sundrop

FME ID: **151000174**

### FME Description

408 feet of storm sewer upgrade and an extension of storm sewer of 382 feet. New construction of a 20 acre-feet basin

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.04**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$328,830.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## ML06m & ML06n Tulip/Glasscock

FME ID: **151000175**

### FME Description

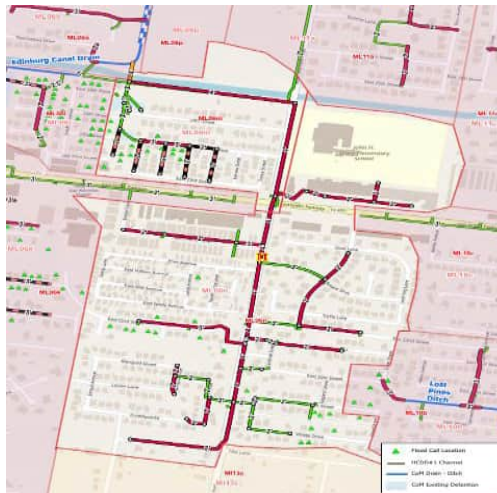
11767 feet of storm sewer upgrade and an extension of storm sewer of 1880 feet.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.36**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$4,089,283.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML06o Solar

FME ID: **151000176**

### FME Description

2543 feet of storm sewer upgrade

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.10**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$676,195.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML06p Lower ECD

FME ID: **151000177**

### FME Description

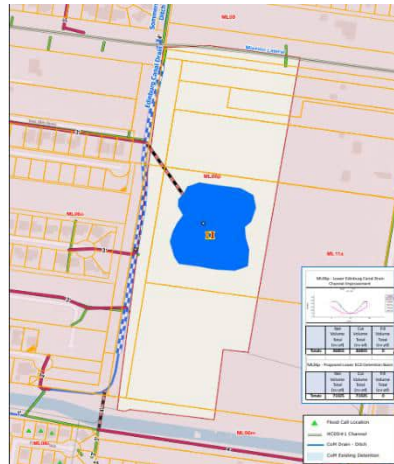
13720 feet of channel Improvements. New construction of detention basin on Glasscock Rd of 40 acre- feet.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.05**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$677,235.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## ML08 Stonegate

FME ID: **151000178**

### FME Description

5641 storm sewer upgrade.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **3.82**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,431,639.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML10a Country Club

FME ID: **151000179**

### FME Description

1364 feet of storm sewer upgrade, includes 346 feet of upgrade to Trunk Line segments along Taylor Rd.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.04**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$247,858.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
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- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML10b Sunset

FME ID: **151000180**

### FME Description

9173 feet of storm sewer upgrade, includes 1962 feet of upgrades to Trunk line segments along Taylor Rd. An extension of 1620 feet.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.36**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$2,499,400.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## ML10c Griffin

FME ID: **151000181**

### FME Description

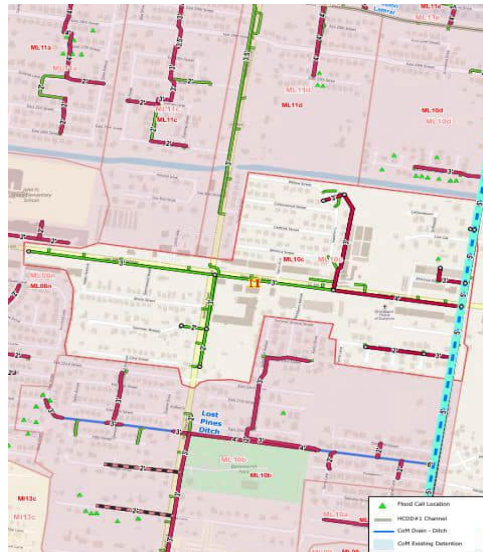
5481 feet of storm sewer upgrade, includes 1568 feet of upgrades to Trunk line segments along Taylor Rd.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.27**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No   
 Population at Risk  
 Roadways flooded Yes  No   
 Critical Facilities Impacted Yes  No   
 Notes:

Frequency:  
 # of structures inundated  
 Miles inundated?  
 Agricultural Land impacted Yes  No

### Study Costs

Total Cost: \$1,174,453.00  
 Estimated year to start: 2023  
 Time to complete? 2025  
 Funding Dedicated? Yes  No

Study Sponsor: City of Mission  
 Entity with Oversight: City of Mission  
 Included in a CIP or other plan? Yes  No   
 (Potential) Source of Funding

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML10d Driftwood

FME ID: **151000182**

### FME Description

3150 feet of storm sewer upgrade, includes 2417 feet of upgrades to trunk line segments along Taylor Rd.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.10**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,260,970.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML11a Sunrise

FME ID: **151000183**

### FME Description

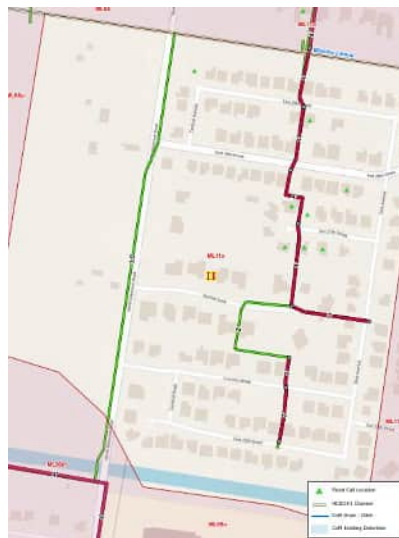
1880 feet of storm sewer upgrade

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.14**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$571,095.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## ML11b Shary B

FME ID: **151000184**

### FME Description

6249 feet of storm sewer upgrade, and 856 feet of storm sewer extension

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **3.5**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,270,835.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML11c Wernecke

FME ID: **151000185**

### FME Description

1680 feet of storm sewer upgrade

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.13**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$215,090.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## ML11d Grapefruit

FME ID: **151000186**

### FME Description

582 feet of storm sewer upgrade

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.13**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$97,675.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## ML11e Norma

FME ID: **151000187**

## FME Description

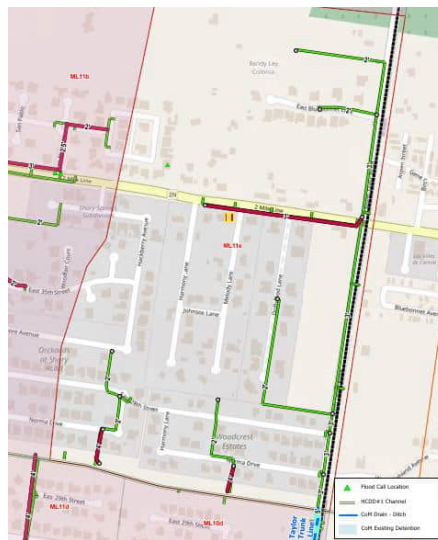
1545 feet of storm sewer upgrade

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

## Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.22**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

## Study Costs

Total Cost:	\$293,656.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## MI02 El Dorado

FME ID: **151000188**

### FME Description

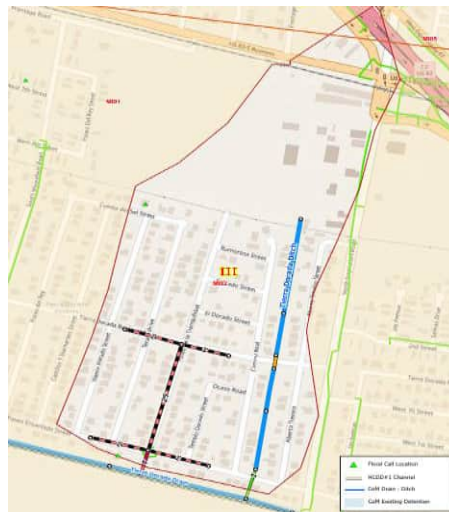
180 feet of storm sewer upgrade and an extension of storm sewer of 2320 feet

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.15**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$499,160.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## MI05 Greenlawn

FME ID: **151000189**

### FME Description

3768 feet of storm sewer extension

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.55**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$828,784.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## MI06a Erma

FME ID: **151000190**

### FME Description

7042 feet of storm sewer upgrade and an extension of storm sewer of 2354 feet. New construction of a 12 acre-foot detention basin.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.67**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,776,592.50	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## MI06b Leal

FME ID: **151000191**

## FME Description

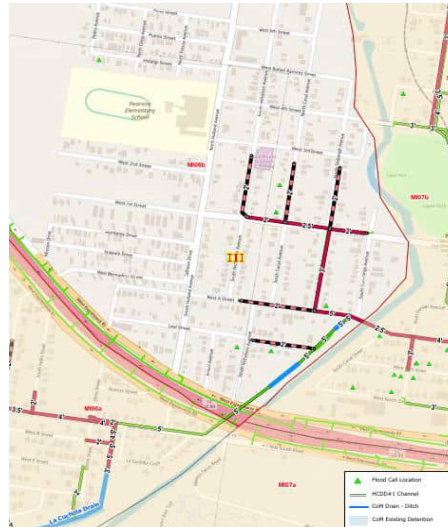
2165 feet of storm sewer upgrade and a storm sewer extension of 2987 feet.

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

## Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.52**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

## Study Costs

Total Cost:	\$929,441.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## MI07a Farias

FME ID: **151000192**

## FME Description

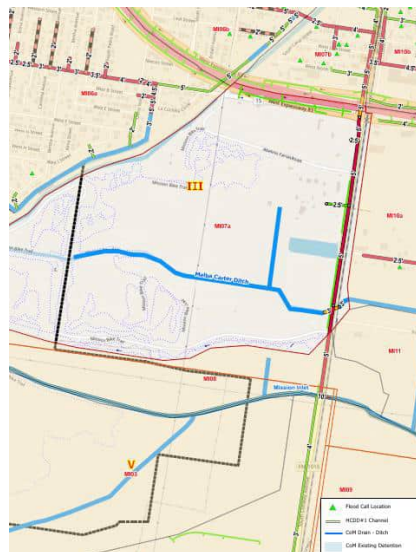
2165 feet of storm sewer upgrade and a storm sewer extension of 2987 feet.

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

## Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.60**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

## Study Costs

Total Cost:	\$1,435,240.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## MI07b Guadalupe

FME ID: **151000193**

### FME Description

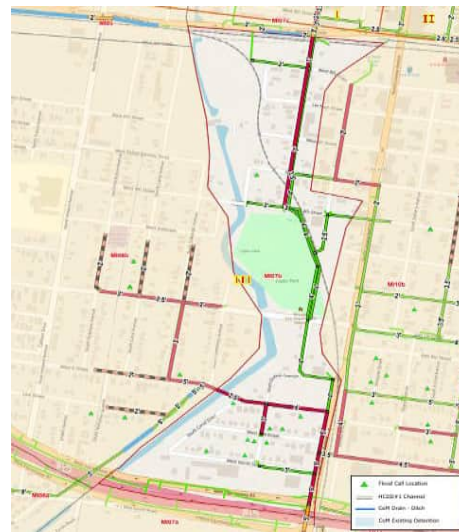
3559 feet of storm sewer upgrade and a single crossing improvement at I2

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.19**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,240,035.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
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- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## MI07c Perkins

FME ID: **151000194**

### FME Description

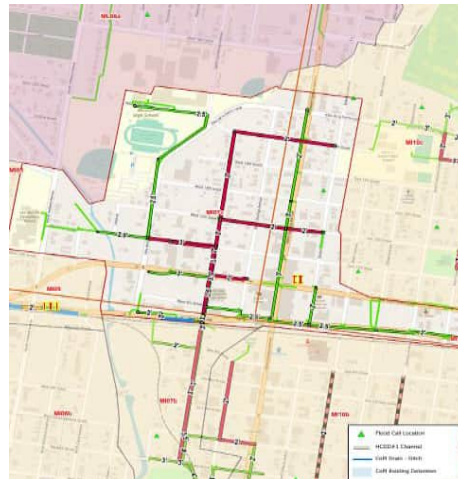
4739 feet of storm sewer upgrade and a single crossing improvement at Business 83

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.33**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,016,470.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
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- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## MI09 Los Indios

FME ID: **151000195**

### FME Description

7248 feet of storm sewer upgrade and an extension of storm sewer of 1465 feet.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **2.38**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,890,630.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## MI10a Melba Carter

FME ID: **151000196**

### FME Description

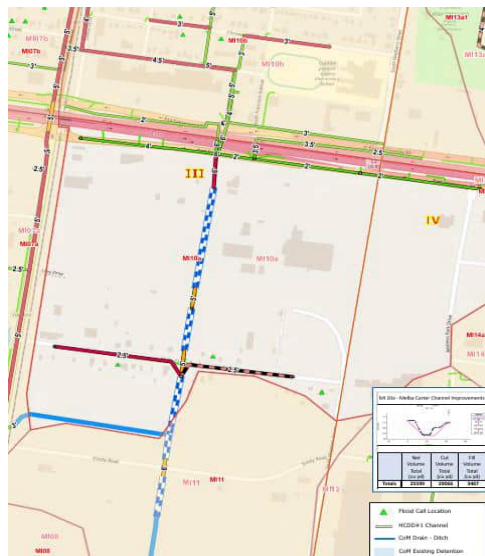
1449 feet of storm sewer upgrade and an extension of storm sewer of 997 feet. Channel improvements of 2224 feet and two crossing improvements locations.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.31**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$865,805.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## MI10b Astroland

FME ID: **151000197**

### FME Description

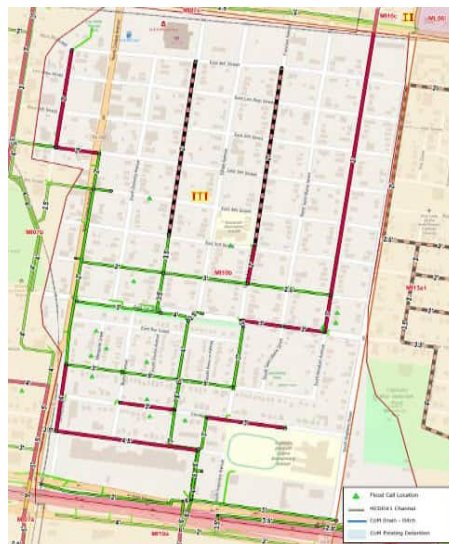
8712 feet of storm sewer upgrade and an extension of storm sewer of 3572 feet.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.54**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,240,035.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## MI10c Keralum

FME ID: **151000198**

## FME Description

2413 feet of storm sewer upgrade

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

## Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.36**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

## Study Costs

Total Cost:	\$524,760.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## MI11 Lower Melba Carter (5-F)

FME ID: **151000199**

### FME Description

902 feet of channel improvements and one crossing improvement location

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.17**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$107,408.50	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## MI13a1 & MI13a2 Spikes & Jupiter

FME ID: **151000200**

### FME Description

7042 feet of storm sewer upgrade and an extension of storm sewer of 2354 feet. New construction of two new detention basins one 10 acre foot and the other 40 acre foot.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.94**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$3,710,470.50	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## MI13b Elm

FME ID: **151000201**

## FME Description

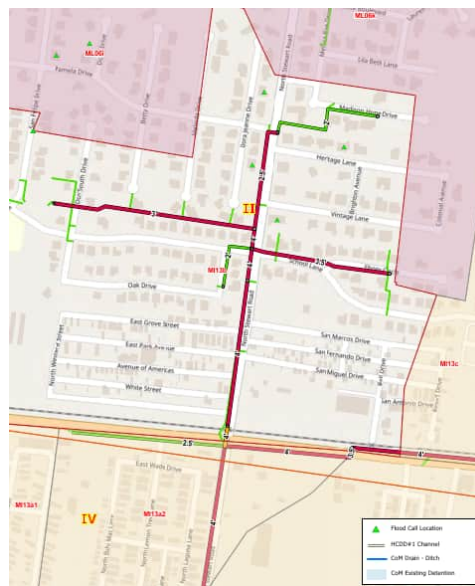
4105 feet of storm sewer upgrade

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

## Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.25**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding? Yes  No   
 Population at Risk  
 Roadways flooded? Yes  No   
 Critical Facilities Impacted? Yes  No   
 Notes:

Frequency:  
 # of structures inundated  
 Miles inundated?  
 Agricultural Land impacted? Yes  No

## Study Costs

Total Cost: \$981,200.00  
 Estimated year to start: 2023  
 Time to complete? 2025  
 Funding Dedicated? Yes  No

Study Sponsor: City of Mission  
 Entity with Oversight: City of Mission  
 Included in a CIP or other plan? Yes  No   
 (Potential) Source of Funding

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## MI13c Ragland

FME ID: **151000202**

### FME Description

5363 feet of storm sewer upgrade

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.31**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,133,510.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## MI14a & MI14b Mission Medical Center / Travis

FME ID: **151000203**

### FME Description

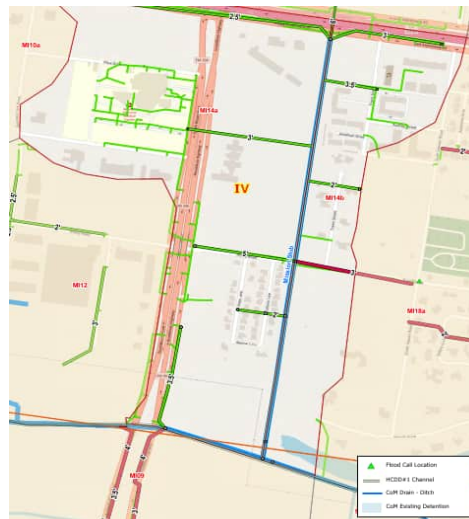
1263 feet of storm sewer upgrade

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.5**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$273,999.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## MI16 Rosalinda

FME ID: **151000204**

### FME Description

1263 feet of storm sewer upgrade and include crossing improvement on 4th St upgrading from 24" to 36" pipe

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.18**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$509,295.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## MI17 Taylor

FME ID: **151000205**

### FME Description

4031 feet of storm sewer upgrade.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.29**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$774,220.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## MI18a Frio

FME ID: **151000206**

### FME Description

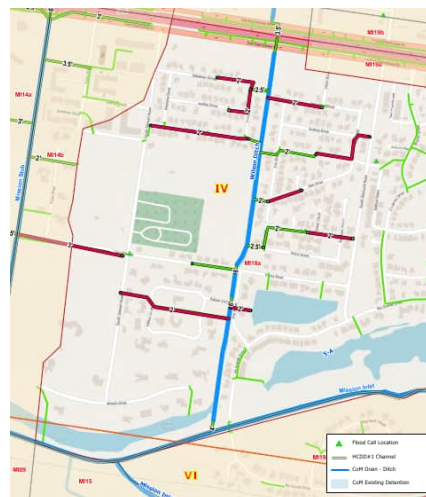
6259 feet of storm sewer upgrade

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.85**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,195,880.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## MI18b Mission Palms

FME ID: **151000207**

### FME Description

1296 feet of storm sewer upgrade

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.57**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$266,848.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## MI19a Sabine

FME ID: **151000208**

### FME Description

4417 feet of storm sewer upgrade

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo County**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **0.97**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$979,660.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Starr County Hazard Mitigation Plan Action No.21

FME ID: **151000209**

### FME Description

Improvements to Arroyo Roma and Arroyo Los Morenos

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities

County/ Counties **Starr**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$3,200,000.00	Study Sponsor:	Starr County Drainage District
Estimated year to start:	2023	Entity with Oversight	Starr County Drainage District
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Del Rio Master Watershed Study Solution 1

FME ID: **151000210**

### FME Description

Regional Stormwater facilities beside Tributary 1 there is an empty lot that can be available as off-channel detention area for flood control

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Del Rio**  
 County/ Counties **Val Verde**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Del Rio
Estimated year to start:	2023	Entity with Oversight	City of Del Rio
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Parker Drain Widening (Tio Cano Lake Overflow)

FME ID: **151000211**

### FME Description

Parker Drain Widening (Tio Cano Lake Overflow)

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$14,046,600.00	Study Sponsor:	Cameron County Drainage District No. 6
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No. 6
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Main Drain Widening

FME ID: **151000212**

### FME Description

Main Drain Widening

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$6,563,125.00	Study Sponsor:	Cameron County Drainage District No. 6
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No. 6
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Cameron County Drainage District No. 5 Regional Detention and Channel Improvements

FME ID: **151000213**

### FME Description

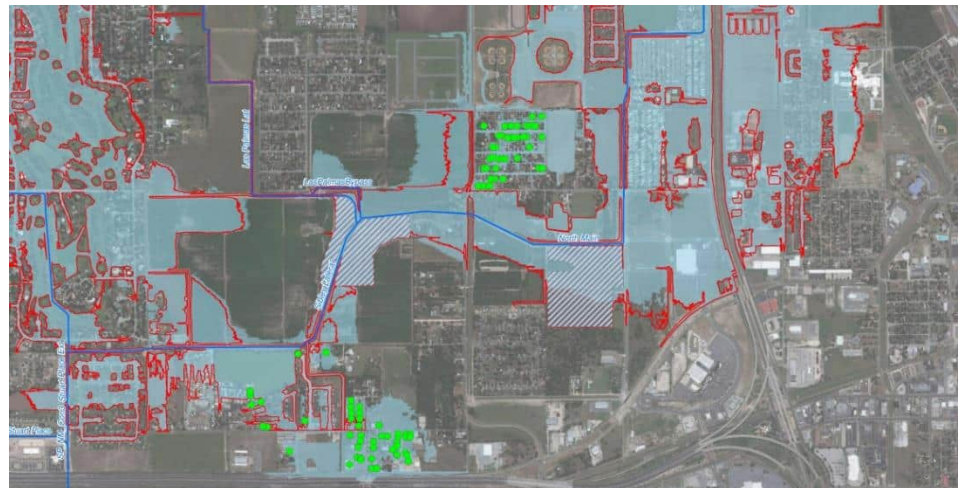
New Regional Detention Ponds and Channel Improvement Projects in Cameron County Drainage District No. 5 jurisdiction

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities  
County/ Counties **Cameron**  
HUC 8  
HUC 12  
Study Area (sq. mi.) **1.0**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$4,250,000.00	Study Sponsor:	Cameron County Drainage District No. 5
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No. 5
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Cameron County Drainage District No. 5 Stormsewer, Bridge, and Culvert Improvements.

FME ID: **151000214**

### FME Description

New Stormsewer, bridge, and culvert improvements.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$2,000,000.00	Study Sponsor:	Cameron County Drainage District No. 5
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No. 5
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Jefferson Street Storm Drain Improvements

FME ID: **151000215**

### FME Description

Intended to provide drainage relief to the area around City Lake (76th Drive, Jefferson Ave and also on 5th Street and 13th Street as shown in area map. The project provides for increasing drainage pipes and adding curb inlets to improve flow of stormwater

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Harlingen**  
 County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$2,881,884.24	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Business 77 & 13th Street Storm Sewer

FME ID: **151000216**

### FME Description

intended to provide drainage relief to the area along Business 77 and 13th Street; up to Harlingen High School as shown in area map. The project provides for increasing drainage pipes and adding box size culverts and curb inlets to improve flow of stormwater.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Harlingen**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No

Population at Risk Yes  No

Roadways flooded Yes  No

Critical Facilities Impacted Yes  No

Notes:

Frequency:

# of structures inundated

Miles inundated?

Agricultural Land impacted Yes  No

### Study Costs

Total Cost: \$5,307,810.00

Estimated year to start: 2023

Time to complete? 2025

Funding Dedicated? Yes  No

Study Sponsor: City of Harlingen

Entity with Oversight City of Harlingen

Included in a CIP or other plan? Yes  No

(Potential) Source of Funding



## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - 21st Street Storm Sewer Improvements

FME ID: **151000217**

### FME Description

intended to provide drainage relief to the areas along 21st Street from Van Buren to Austin St. as shown in area map. The project provides for increasing drainage pipes size and adding curb inlets to improve flow of stormwater.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Harlingen**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No

Population at Risk Yes  No

Roadways flooded Yes  No

Critical Facilities Impacted Yes  No

Notes:

Frequency:

# of structures inundated

Miles inundated?

Agricultural Land impacted Yes  No

### Study Costs

Total Cost: \$1,197,563.64

Estimated year to start: 2023

Time to complete? 2025

Funding Dedicated? Yes  No

Study Sponsor: City of Harlingen

Entity with Oversight City of Harlingen

Included in a CIP or other plan? Yes  No

(Potential) Source of Funding

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Treasure Hills/ 25th Street Storm Sewer Improvements

FME ID: **151000218**

### FME Description

intended to provide drainage relief to the areas along 25th Street and Treasure Hills Blvd; area by Treasure Hills Elementary; as shown in area map. The project provides for increasing drainage pipes size and adding curb inlets to improve flow of stormwater.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Harlingen**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No

Population at Risk Yes  No

Roadways flooded Yes  No

Critical Facilities Impacted Yes  No

Notes:

Frequency:

# of structures inundated

Miles inundated?

Agricultural Land impacted Yes  No

### Study Costs

Total Cost: \$1,476,245.00

Estimated year to start: 2023

Time to complete? 2025

Funding Dedicated? Yes  No

Study Sponsor: City of Harlingen

Entity with Oversight City of Harlingen

Included in a CIP or other plan? Yes  No

(Potential) Source of Funding



## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - 5th & 7th Storm Sewer Improvements

FME ID: **151000219**

### FME Description

intended to provide drainage relief to the areas along 5 th , 7th Adams, and Jefferson Streets as shown in area map. The project provides for increasing drainage pipes size and adding curb inlets to improve flow of stormwater.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Harlingen**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No

Population at Risk Yes  No

Roadways flooded Yes  No

Critical Facilities Impacted Yes  No

Notes:

Frequency:

# of structures inundated

Miles inundated?

Agricultural Land impacted Yes  No

### Study Costs

Total Cost: \$3,115,749.00

Estimated year to start: 2023

Time to complete? 2025

Funding Dedicated? Yes  No

Study Sponsor: City of Harlingen

Entity with Oversight City of Harlingen

Included in a CIP or other plan? Yes  No

(Potential) Source of Funding

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Lozano Street Small Detention Pond Project

FME ID: **151000220**

### FME Description

#### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

#### Study Area

City/ Cities **Harlingen**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

#### Emergency Need

Yes  No

#### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

#### Study Costs

Total Cost:	\$1,250,000.00	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

#### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - 21st Street Storm Sewer Improvements

FME ID: **151000221**

### FME Description

intended to provide drainage relief to the areas along 21st Street from Van Buren to Austin St. as shown in area map. The project provides for increasing drainage pipes size and adding curb inlets to improve flow of stormwater.

### Study Type

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Flood risk modeling/mapping | <input type="checkbox"/> Alternative Analysis    | <input type="checkbox"/> Flood preparedness studies         |
| <input type="checkbox"/> Flood mitigation study      | <input type="checkbox"/> Feasibility Assessments | <input checked="" type="checkbox"/> Preliminary Engineering |

### Study Area

City/ Cities **Harlingen**  
County/ Counties **Cameron**  
HUC 8  
HUC 12  
Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,285,666.74	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Jackson Avenue Drainage Improvements Project

FME ID: **151000222**

### FME Description

City of Harlingen - Jackson Avenue Drainage Improvements Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Harlingen**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$163,819.04	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Hickory Hill Road Drainage Improvement Project

FME ID: **151000223**

### FME Description

City of Harlingen - Hickory Hill Road Drainage Improvement Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Harlingen**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	-	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Lozano Street Detention Facility

FME ID: **151000224**

### FME Description

City of Harlingen - Lozano Street Detention Facility

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Harlingen**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	-	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Adam's Crossing Subdivision Storm Sewer Improvement Project

FME ID: **151000225**

### FME Description

City of Harlingen - Adam's Crossing Subdivision Storm Sewer Improvement Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Harlingen**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$575,000.00	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Teegee and Fairpark Storm Sewer System Project

FME ID: **151000226**

### FME Description

City of Harlingen - Teegee and Fairpark Storm Sewer System Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Harlingen**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$2,157,526.00	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Harlingen - Fairpark Blvd Storm Sewer System Improvement Project

FME ID: **151000227**

### FME Description

City of Harlingen - Fairpark Blvd Storm Sewer System Improvement Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Harlingen**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$592,000.00	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Jacaranda Storm Sewer System Improvement Project

FME ID: **151000228**

### FME Description

City of Harlingen - Jacaranda Storm Sewer System Improvement Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Harlingen**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$303,000.00	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Ed Carey Storm Sewer System Improvement Project

FME ID: **151000229**

### FME Description

City of Harlingen - Ed Carey Storm Sewer System Improvement Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Harlingen**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$2,700,000.00	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Pickens Storm Sewer Improvements Project

FME ID: **151000230**

### FME Description

City of Harlingen - Pickens Storm Sewer Improvements Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Harlingen**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,743,000.00	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Sunchase Storm Sewer Improvements

FME ID: **151000231**

### FME Description

City of Harlingen - Sunchase Storm Sewer Improvements

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Harlingen**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$492,480.00	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Sabal Palm Storm Sewer System Improvements

FME ID: **151000232**

### FME Description

City of Harlingen - Sabal Palm Storm Sewer System Improvements

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Harlingen**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$765,030.00	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Summerfield Storm Sewer System Improvement Project

FME ID: **151000233**

### FME Description

City of Harlingen - Summerfield Storm Sewer System Improvement Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Harlingen**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.0**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$45,000.00	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Harlingen - Beck Ave Storm Sewer Improvement Project

FME ID: 151000234

### FME Description

City of Harlingen - Beck Ave Storm Sewer Improvement Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$114,600	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - 1st Street Storm Sewer Improvement Project

FME ID: 151000236

### FME Description

City of Harlingen - 1st Street Storm Sewer Improvement Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$320,000	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Alcott Storm Sewer System Improvement Project

FME ID: 151000237

### FME Description

City of Harlingen - Alcott Storm Sewer System Improvement Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$342,000	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - 7th Street Storm Sewer Improvement Project

FME ID: 151000238

### FME Description

City of Harlingen - 7th Street Storm Sewer Improvement Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$412,000	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - 7th Street Storm Sewer Improvement Project

FME ID: 151000238

### FME Description

City of Harlingen - 7th Street Storm Sewer Improvement Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$412,000	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Hoogland Street Storm Sewer Improvements

FME ID: 151000239

### FME Description

City of Harlingen - Hoogland Street Storm Sewer Improvements

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$300,000	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Rose Street Storm Sewer Improvement Project

FME ID: 151000240

### FME Description

City of Harlingen - Rose Street Storm Sewer Improvement Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$182,000	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Harlingen - Beck and Breedlove Storm Sewer Improvement Project

FME ID: 151000241

### FME Description

City of Harlingen - Beck and Breedlove Storm Sewer Improvement Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$182,000	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Dilworth Storm Sewer Improvement Project

FME ID: 151000242

### FME Description

City of Harlingen - Dilworth Storm Sewer Improvement Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$258,000	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Quail Run Street Storm Sewer Improvement Project

FME ID: 151000243

### FME Description

City of Harlingen - Quail Run Street Storm Sewer Improvement Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$200,000	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Hapner Street Storm Sewer Improvement Project

FME ID: 151000244

### FME Description

City of Harlingen - Hapner Street Storm Sewer Improvement Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$167,200	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Harlingen - Rio Hondo Road Ditch Improvements

FME ID: 151000245

### FME Description

City of Harlingen - Cantu Lateral Ditch Improvement Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,901,000	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000246

## City of Harlingen - Cantu Lateral Ditch Improvement Project

### FME Description

City of Harlingen - Cantu Lateral Ditch Improvement Project

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$354,860	Study Sponsor:	City of Harlingen
Estimated year to start:	2023	Entity with Oversight	City of Harlingen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000247

## Ovalle Lateral Connectivity

### FME Description

Ovalle Lateral Connectivity

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,385,937.5	Study Sponsor:	Cameron County Drainage District No. 6
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No. 6
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Deta Regional Water Management - Santa Cruz Detention Pond.

FME ID: 151000248

### FME Description

a regional detention facility at the Santa Cruz Reservoir, expanding the footprint to approximately 418 acres for flood mitigation and water storage. .

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$10,000,000	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Deta Regional Water Management - Engleman Detention Pond/Reservoir

FME ID: 151000249

### FME Description

A regional detention facility at the Engleman (Carlton Barth) Irrigation Reservoir, expanding the footprint to approximately 77 acres for flood mitigation and water storage.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$10,000,000	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## South Main Drain BP 3

FME ID: 151000250

### FME Description

5.6 miles of channel improvements includes wideingin within existing right of way. From FM493 to FM 907

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$23,010,000	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Ditch 1.9, 2, and 4a- La Villa/ Edcouch/ Elsa BP 8

FME ID: 151000251

### FME Description

4.3 miles of channel improvements includes excavating and widening in new and existing right of way, including additional culvert crossings, with new pump station

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$23,010,000	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## PD Lateral rain - Extensions 2, 3 and 5 BP 15

FME ID: 151000252

### FME Description

2 miles of channel improvements include widening Laterals 2,3, and 5 within United Irrigation District Right of way

### Study Type

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Flood risk modeling/mapping | <input type="checkbox"/> Alternative Analysis    | <input type="checkbox"/> Flood preparedness studies         |
| <input type="checkbox"/> Flood mitigation study      | <input type="checkbox"/> Feasibility Assessments | <input checked="" type="checkbox"/> Preliminary Engineering |

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$3,140,000	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Bates Lateral Ditch Extension BP 17

FME ID: 151000253

### FME Description

Channel improvements include excavation of the Bates Lateral Ditch towards S. Abram Road and new storm drainage system along Apache Street and Navajo Street towards S. Abram Road, outfallin at the Bates Lateral Ditch Extension.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,940,000	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## PD Lateral - Iowa Road Drainage Improvements BP 18

FME ID: 151000254

### FME Description

Channel improvements include widening of the PD Lateral from SH 107 to Vaquero Avenue within existing right of way and installation of culverts at Iowa, Mile 7, and Mile 8. New storm drainage system for the neighborhood from the PD lateral to Vaquero Avenue. New storm drainage system for Iowa Road near alignment for Mile 8 1/2.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,940,000	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
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- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## South Abram Lateral Drain BP 19

FME ID: 151000255

### FME Description

Channel improvements include widening of south Abram Lateral and storm drainage system along West Loop 374 between Chihuahua Drive and Los Charcos Dr. to south Abram Lateral Drain.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,900,000	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Seminary regional detention facility BP 20

FME ID: 151000256

### FME Description

Acquisition of 67.8 acres for excavation of regional detention facility located at Seminary Road and Ingle Road.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$5,610,000	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Structure 606AL and Ditch Improvements BP 22

FME ID: 151000257

### FME Description

0.4 miles of channel improvements include ditch widening and new gatewell structure with pump at IBWC Levee Structure 606 AL, north of SH 107

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,710,000	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Donna North Lateral Extension BP 23

FME ID: 151000258

### FME Description

Construction of stormwater pump station and force main across I2, west of FM 493

### Study Type

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Flood risk modeling/mapping | <input type="checkbox"/> Alternative Analysis    | <input type="checkbox"/> Flood preparedness studies         |
| <input type="checkbox"/> Flood mitigation study      | <input type="checkbox"/> Feasibility Assessments | <input checked="" type="checkbox"/> Preliminary Engineering |

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$810,000	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Ditch F-13-00 and F-02-00 Improvements BP 24

FME ID: 151000259

### FME Description

4.7 miles of channel improvements include widening Ditches F-13-00 and F-02-00 within existing right of way, from Hwy 281 to Floodway Levee.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,460,000	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## San Juan Lateral Extension BP 25

FME ID: 151000260

### FME Description

Channel improvements include widening the San Juan Lateral within existing right of way, from Ridge Road to Sam Houston Blvd. New storm drainage culvert from Sam Houston Blvd. to Carroll Rd.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$3,460,000	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## LF Drain Nolana Extention BP 26

FME ID: 151000261

### FME Description

Channel and culvert improvements include excavation of new drainage ditch and drainage culverts from Earling Road to LJ Drain.

### Study Type

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Flood risk modeling/mapping | <input type="checkbox"/> Alternative Analysis    | <input type="checkbox"/> Flood preparedness studies         |
| <input type="checkbox"/> Flood mitigation study      | <input type="checkbox"/> Feasibility Assessments | <input checked="" type="checkbox"/> Preliminary Engineering |

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$2,740,000	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



FME ID: 151000262

## FEMA Map

## FME Description

Assessment of the city's floodplain to determine areas of flooding and develop a FEMA map.

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

## Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding? Yes  No

Population at Risk Yes  No

Roadways flooded Yes  No

Critical Facilities Impacted Yes  No

Notes:

Frequency of flooding:

# of structures inundated

Miles inundated?

Agricultural Land impacted Yes  No

## Study Costs

Total Cost: \$250,000

Estimated year to start: 2023

Time to complete? 2025

Funding Dedicated? Yes  No

Study Sponsor: City of Edcouch

Entity with Oversight City of Edcouch

Included in a CIP or other plan? Yes  No

(Potential) Source of Funding

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Main Drain regional detention facility

FME ID: 151000263

### FME Description

Main Drain regional detention facility

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$150,000	Study Sponsor:	City of Edcouch
Estimated year to start:	2023	Entity with Oversight	City of Edcouch
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Drainage Masterplan

FME ID: 151000264

## FME Description

Assessment of the city's drainage infrastructure to determine improvements and alleviate flooding.

## Study Type

- Flood risk modeling/mapping
- Alternative Analysis
- Flood preparedness studies
- Flood mitigation study
- Feasibility Assessments
- Preliminary Engineering

## Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



## Emergency Need

Yes  No

## Known Flood Risk

- |                              |   |                            |  |
|------------------------------|---|----------------------------|--|
| History of Flooding?         | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Frequency of flooding:     |  |
| Population at Risk           |   | # of structures inundated  |  |
| Roadways flooded             | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Miles inundated?           |  |
| Critical Facilities Impacted | Yes <input type="checkbox"/> No <input type="checkbox"/>            | Agricultural Land impacted | Yes <input type="checkbox"/> No <input type="checkbox"/> |
- Notes:

## Study Costs

- |                          |   |                                  |   |
|--------------------------|---|----------------------------------|---|
| Total Cost:              | \$150,000   | Study Sponsor:                   | City of Edcouch   |
| Estimated year to start: | 2023  | Entity with Oversight            | City of Edcouch   |
| Time to complete?        | 2025  | Included in a CIP or other plan? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Funding Dedicated?       | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | (Potential) Source of Funding    |   |

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Detention Pond

FME ID: 151000265

## FME Description

Construction of detention pond to maintain and regulate flows from the City to the County system.

## Study Type

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Flood risk modeling/mapping | <input type="checkbox"/> Alternative Analysis    | <input type="checkbox"/> Flood preparedness studies         |
| <input type="checkbox"/> Flood mitigation study      | <input type="checkbox"/> Feasibility Assessments | <input checked="" type="checkbox"/> Preliminary Engineering |

## Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

## Study Costs

Total Cost:	\$750,000	Study Sponsor:	City of Edcouch
Estimated year to start:	2023	Entity with Oversight	City of Edcouch
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000266

## Ditch Widening

### FME Description

Construction of ditch widening to increase drainage capacity prior to reaching County drainage system.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,200,000	Study Sponsor:	City of Edcouch
Estimated year to start:	2023	Entity with Oversight	City of Edcouch
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Drainage Infrastructure Improvements

FME ID: 151000267

### FME Description

Upgrades to the City drainage system to convey required flows and alleviate flooding based on the masterplan.

### Study Type

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Flood risk modeling/mapping | <input type="checkbox"/> Alternative Analysis    | <input type="checkbox"/> Flood preparedness studies         |
| <input type="checkbox"/> Flood mitigation study      | <input type="checkbox"/> Feasibility Assessments | <input checked="" type="checkbox"/> Preliminary Engineering |

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,500,000	Study Sponsor:	City of Edcouch
Estimated year to start:	2023	Entity with Oversight	City of Edcouch
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
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- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

NM-104

FME ID: 151000268

## FME Description

NM-104

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

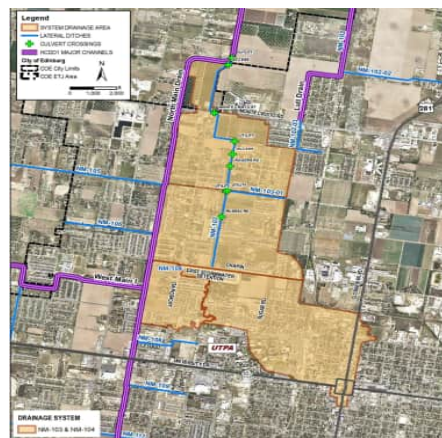
## Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding? Yes  No

Population at Risk Yes  No

Roadways flooded Yes  No

Critical Facilities Impacted Yes  No

Notes:

Frequency of flooding:  
# of structures inundated  
Miles inundated?  
Agricultural Land impacted Yes  No

## Study Costs

Total Cost: \$192,800

Estimated year to start: 2023

Time to complete? 2025

Funding Dedicated? Yes  No

Study Sponsor: City of Edinburg  
Entity with Oversight: City of Edinburg  
Included in a CIP or other plan? Yes  No   
(Potential) Source of Funding

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



NM-112

FME ID: 151000269

## FME Description

NM-112

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

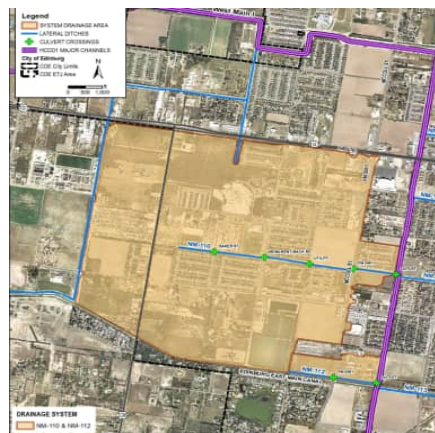
## Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding? Yes  No

Population at Risk Yes  No

Roadways flooded Yes  No

Critical Facilities Impacted Yes  No

Notes:

Frequency of flooding:  
# of structures inundated  
Miles inundated?  
Agricultural Land impacted Yes  No

## Study Costs

Total Cost: \$621,841.69

Estimated year to start: 2023

Time to complete? 2025

Funding Dedicated? Yes  No

Study Sponsor: City of Edinburg  
Entity with Oversight: City of Edinburg  
Included in a CIP or other plan? Yes  No   
(Potential) Source of Funding

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
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- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Alamo - Original Town Site Drainage Improvements

FME ID: 151000270

### FME Description

Provide drainage (bar ditch or curb and gutter) for original Alamo Town site

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

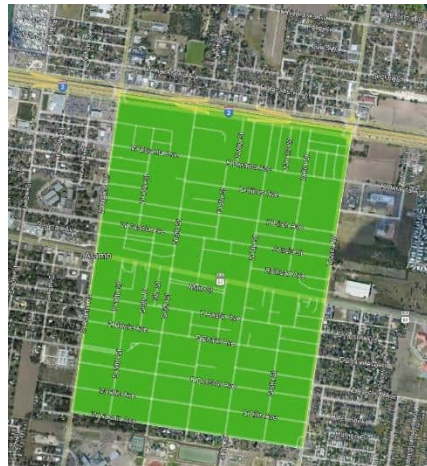
### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No

Population at Risk

Roadways flooded Yes  No

Critical Facilities Impacted Yes  No

Notes:

Frequency of flooding:

# of structures inundated

Miles inundated?

Agricultural Land impacted Yes  No

### Study Costs

Total Cost: \$838,089

Estimated year to start: 2023

Time to complete? 2025

Funding Dedicated? Yes  No

Study Sponsor: City of Alamo

Entity with Oversight City of Alamo

Included in a CIP or other plan? Yes  No

(Potential) Source of Funding

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Alton - Calichera Project

FME ID: 151000271

### FME Description

Create a retention pond system from existing caliche pits and connect the pits to the Hidalgo County Drainage District No.1 MDS.  
One 1 pit to be used as a detention pond

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

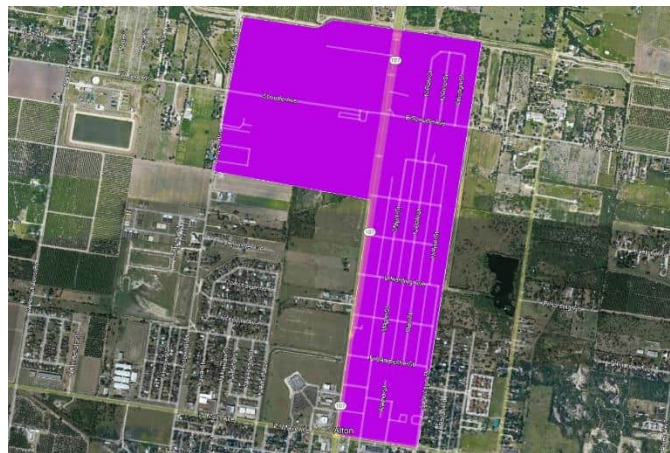
### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No

Population at Risk Yes  No

Roadways flooded Yes  No

Critical Facilities Impacted Yes  No

Notes:

Frequency of flooding:  
# of structures inundated  
Miles inundated?  
Agricultural Land impacted Yes  No

### Study Costs

Total Cost: \$1,998,508

Estimated year to start: 2023

Time to complete? 2025

Funding Dedicated? Yes  No

Study Sponsor: City of Alton  
Entity with Oversight: City of Alton  
Included in a CIP or other plan? Yes  No   
(Potential) Source of Funding

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Alton - Alton Drainage System Connection

FME ID: 151000272

### FME Description

Connect City of Alton's drainage system to the Hidalgo County Drainage District No.1 Master Drainage System (MDS)

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,463,284	Study Sponsor:	City of Alton
Estimated year to start:	2023	Entity with Oversight	City of Alton
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Donna - North Donna Drainage Improvement

FME ID: 151000273

### FME Description

Increase Hutto & South Rd. drain ditch capacity and create drainage for West Scobey Rd.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No   
 Population at Risk  
 Roadways flooded Yes  No   
 Critical Facilities Impacted Yes  No

Frequency of flooding:  
 # of structures inundated  
 Miles inundated?  
 Agricultural Land impacted Yes  No

Notes:

### Study Costs

Total Cost:	\$4,905,850	Study Sponsor:	City of Donna
Estimated year to start:	2023	Entity with Oversight:	City of Donna
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Donna - Donna - Hidalgo County Drainage District No.1 System Connection

FME ID: 151000274

### FME Description

Connect existing drainage line to Hidalgo County Drainage District No.1 System

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$805,134	Study Sponsor:	City of Donna
Estimated year to start:	2023	Entity with Oversight	City of Donna
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
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- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Hidalgo - Hidalgo Drainage Study

FME ID: 151000275

### FME Description

Drainage Engineering Study

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

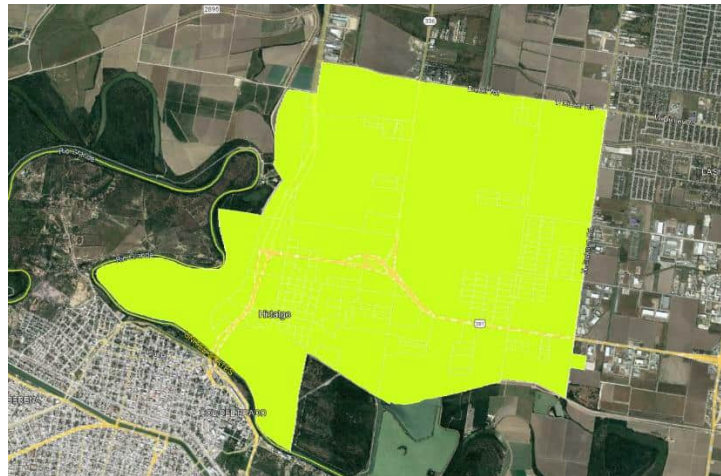
### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$618,730	Study Sponsor:	City of Hidalgo
Estimated year to start:	2023	Entity with Oversight	City of Hidalgo
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
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- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Hidalgo - Northern Hidalgo Drainage Relief

FME ID: 151000276

### FME Description

Widen existing drain ditches and acquire more ROW for the expansion to the USIBWC Floodway

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$618,730	Study Sponsor:	City of Hidalgo
Estimated year to start:	2023	Entity with Oversight	City of Hidalgo
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
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- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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## RFPG Recommended

Yes  No

## City of La Joya - City of La Joya back flow / river control

FME ID: 151000277

### FME Description

Create means of controlling the Rio Grande by use of backflow preventer near rail line and Old Military Highway.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$20,751	Study Sponsor:	City of La Joya
Estimated year to start:	2023	Entity with Oversight	City of La Joya
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of La Villa - Phase II - La Villa Detention Project

FME ID: 151000278

### FME Description

Complete Phase II of the La Villa Regional Detention Project to allow for detention and improved detention ditches

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$5,837,934	Study Sponsor:	City of La Villa
Estimated year to start:	2023	Entity with Oversight	City of La Villa
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

ES-102

FME ID: 151000279

## FME Description

ES-102

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

## Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

## Emergency Need

Yes  No

## Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

## Study Costs

Total Cost:	\$8,820,196	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

SM-101

FME ID: 151000280

## FME Description

SM-101

## Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

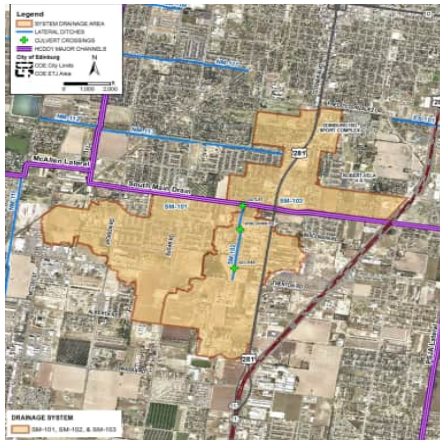
## Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



## Emergency Need

Yes  No

## Known Flood Risk

- |                              |   |                            |  |
|------------------------------|---|----------------------------|--|
| History of Flooding?         | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Frequency of flooding:     |  |
| Population at Risk           |   | # of structures inundated  |  |
| Roadways flooded             | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Miles inundated?           |  |
| Critical Facilities Impacted | Yes <input type="checkbox"/> No <input type="checkbox"/>            | Agricultural Land impacted | Yes <input type="checkbox"/> No <input type="checkbox"/> |
- Notes:

## Study Costs

- |                          |   |                                  |   |
|--------------------------|---|----------------------------------|---|
| Total Cost:              | \$440,020   | Study Sponsor:                   | City of Edinburg  |
| Estimated year to start: | 2023  | Entity with Oversight            | City of Edinburg  |
| Time to complete?        | 2025  | Included in a CIP or other plan? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Funding Dedicated?       | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | (Potential) Source of Funding    |   |

## Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## MC-101

FME ID: 151000281

### FME Description

MC-101

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

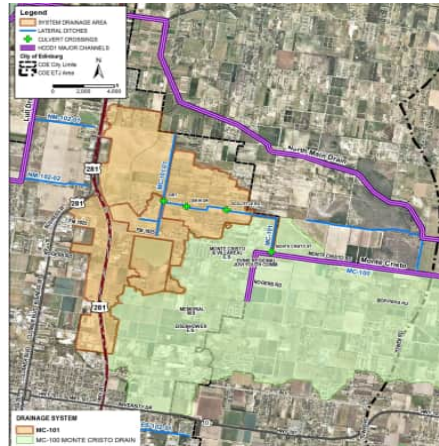
### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

- |                              |   |                            |  |
|------------------------------|---|----------------------------|--|
| History of Flooding?         | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Frequency of flooding:     |  |
| Population at Risk           |   | # of structures inundated  |  |
| Roadways flooded             | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Miles inundated?           |  |
| Critical Facilities Impacted | Yes <input type="checkbox"/> No <input type="checkbox"/>            | Agricultural Land impacted | Yes <input type="checkbox"/> No <input type="checkbox"/> |
- Notes:

### Study Costs

- |                          |   |                                  |   |
|--------------------------|---|----------------------------------|---|
| Total Cost:              | \$192,800   | Study Sponsor:                   | City of Edinburg  |
| Estimated year to start: | 2023  | Entity with Oversight            | City of Edinburg  |
| Time to complete?        | 2025  | Included in a CIP or other plan? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Funding Dedicated?       | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | (Potential) Source of Funding    |   |

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
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- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Los Indios Diversion

FME ID: 151000282

### FME Description

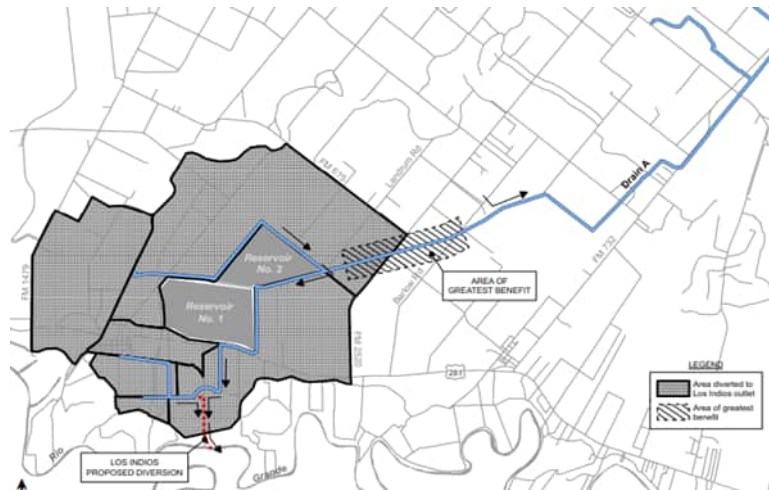
Los Indios Diversion

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$2,900,000	Study Sponsor:	Cameron County Drainage District No. 3
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No. 3
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
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- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Drain A Diversion

FME ID: 151000283

### FME Description

Drain A Diversion from Main Drain to Rio Grande to allow greater conveyance through system.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$3,100,000	Study Sponsor:	Cameron County Drainage District No. 3
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No. 3
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
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- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Drain D Channel Improvements

FME ID: 151000284

### FME Description

Drain D Channel Improvements

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$3,885,584.34	Study Sponsor:	Cameron County Drainage District No. 3
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No. 3
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
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- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000285

## City of Mercedes - Drainage System Improvements for the City of Mercedes

### FME Description

Mercedes Park, Mercedes south east quad, HCCIDNo.9 Later 19 and HCCIDNo.9 Anacuitas drainage improvements for the City of Mercedes

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$5,400,000	Study Sponsor:	City of Mercedes
Estimated year to start:	2023	Entity with Oversight	City of Mercedes
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Floodway Pump Stations (Cantu, Main, Parker, Thompson & Adams Gardens)

FME ID: 151000286

### FME Description

Floodway Pump Stations (Cantu, Main, Parker, Thompson & Adams Gardens)

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$2,243,867.75	Study Sponsor:	Cameron County Drainage District No. 6
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No. 6
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000287

## Main Canal Piping

### FME Description

Main Canal Piping

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$7,296,960.00	Study Sponsor:	Cameron County Drainage District No. 6
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No. 6
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## East Ditch Widening

FME ID: 151000288

### FME Description

East Ditch Widening

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,703,520.00	Study Sponsor:	Cameron County Drainage District No. 6
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No. 6
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Peñitas - Peñitas Drain

FME ID: 151000289

### FME Description

Install drainage infrastructure for various areas inside the City of Penitas

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Peñitas**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$5,477,300.00	Study Sponsor:	City of Peñitas
Estimated year to start:	2023	Entity with Oversight	City of Peñitas
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Peñitas - Peñitas Berm

FME ID: 151000290

### FME Description

Berm or intake structure between irrigation canals to protect neighborhoods

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,635,615.30	Study Sponsor:	Hidalgo County Drainage District #1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District #1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Peñitas - Peñitas Drainage Infrastructure

FME ID: 151000291

### FME Description

Create drainage ditch to drain Peñitas area

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$8,387,536.00	Study Sponsor:	Hidalgo County Drainage District #1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District #1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Pharr - Pharr Detention Pond Study

FME ID: 151000292

### FME Description

Complete drainage study for detention pond(s) for the City of Pharr

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Pharr**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$2,291,566.00	Study Sponsor:	City of Pharr
Estimated year to start:	2018	Entity with Oversight	City of Pharr
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	General Fund; HMGP

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Parker Drain regional detention facility

FME ID: 151000293

### FME Description

Parker Drain regional detention facility

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$11,893,125.00	Study Sponsor:	Cameron County Drainage District No. 6
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No. 6
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Tio Cano Lake Pump Station

FME ID: 151000294

### FME Description

Tio Cano Lake Pump Station

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$2,573,100.00	Study Sponsor:	Cameron County Drainage District No. 6
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No. 6
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000295

## City of San Juan - San Juan Downtown Revitalization Project Phase I, II and III

### FME Description

Install new curb inlets, grate inlets, storm drain manholes, and pipes, then connect new system to existing City storm sewer system

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Pharr**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$2,604,461.00	Study Sponsor:	City of San Juan
Estimated year to start:	2023	Entity with Oversight	City of San Juan
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Donna Irrigation District - FM 493 Ditch Rehabilitation / Capacity Improvements

FME ID: 151000296

### FME Description

Increase capacity of drainage/irrigation ditch on FM493 south of Calle Chaparral

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$460,479.00	Study Sponsor:	Donna Irrigation District
Estimated year to start:	2023	Entity with Oversight:	Donna Irrigation District
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Engleman Irrigation District - FM 493 N - FM 1925 Ditch Rehab

FME ID: 151000297

### FME Description

Drainage ditch improvement along FM 493 North & FM 1925

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

- |                              |   |                            |  |
|------------------------------|---|----------------------------|--|
| History of Flooding?         | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Frequency of flooding:     |  |
| Population at Risk           |   | # of structures inundated  |  |
| Roadways flooded             | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Miles inundated?           |  |
| Critical Facilities Impacted | Yes <input type="checkbox"/> No <input type="checkbox"/>            | Agricultural Land impacted | Yes <input type="checkbox"/> No <input type="checkbox"/> |
- Notes:

### Study Costs

- |                          |   |                                  |   |
|--------------------------|---|----------------------------------|---|
| Total Cost:              | \$460,479.00  | Study Sponsor:                   | Engleman Irrigation District  |
| Estimated year to start: | 2023  | Entity with Oversight:           | Engleman Irrigation District  |
| Time to complete?        | 2025  | Included in a CIP or other plan? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Funding Dedicated?       | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | (Potential) Source of Funding    |   |

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Engleman Irrigation District - FM 493 - FM 1925 Pump Rehab

FME ID: 151000298

### FME Description

Rehabilitation of pumps for flood relief and to protect Colonias near FM 493 & FM 1925 (2 portable 175hp pumps)

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Flood Proofing

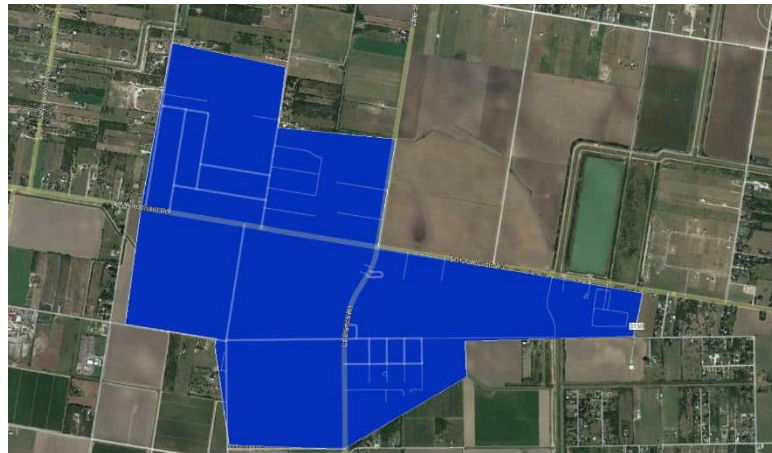
### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$126,500.00	Study Sponsor:	Engleman Irrigation District
Estimated year to start:	2023	Entity with Oversight	Engleman Irrigation District
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000299

## Hidalgo and Cameron Counties Irrigation District No. 9 - USIBWC Main Floodway Outfall Canal Improvements North

### FME Description

Improve outfall capacity by deepening the USIBWC Main Floodway Outfall Canal

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$7,311,635.00	Study Sponsor:	Hidalgo and Cameron Counties Irrigation District No. 9
Estimated year to start:	2023	Entity with Oversight	Hidalgo and Cameron Counties Irrigation District No. 9
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
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- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000300

## Hidalgo and Cameron Counties Irrigation District No. 9 - New Auxiliary Canal to USIBWC Main Floodway

### FME Description

Proposed auxiliary canal from USIBWC Main Floodway to HCCIDNo.9 irrigation line

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$9,314,528.00	Study Sponsor:	Hidalgo and Cameron Counties Irrigation District No. 9
Estimated year to start:	2023	Entity with Oversight	Hidalgo and Cameron Counties Irrigation District No. 9
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Hidalgo County Drainage District No.1 - F-14-01

FME ID: 151000301

### FME Description

Create new F-14-01 drain ditch to provide drainage relief for the Northern Alamo area, north of US-83 and west of FM1423

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$2,916,826.00	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Hidalgo County Drainage District No.1 - Raymondville Drain & Connecting Laterals

FME ID: 151000302

### FME Description

New drainage system from Edinburg Lake to connect to existing Raymondville Drain

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$265,000,000.00	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Hidalgo County Drainage District No.1 - J-06-00

FME ID: 151000303

### FME Description

Create new J-06-00 drain ditch to provide drainage relief for the Northwest Edinburg area, west of Edinburg Lake

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$6,124,767.40	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Hidalgo County Precinct 1 - Floodway Pumps

FME ID: 151000304

### FME Description

Repair and replacement of pumps along the floodway at Mile 12 1/3, Mile 14 1/2 and Mile 17 1/2

### Study Type

- Flood risk modeling/mapping
- Alternative Analysis
- Flood preparedness studies
- Flood mitigation study
- Feasibility Assessments
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$94,264.00	Study Sponsor:	Hidalgo County Precinct 1
Estimated year to start:	2023	Entity with Oversight:	Hidalgo County Precinct 1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Hidalgo County Precinct 1 - Monte Alto

FME ID: 151000305

### FME Description

Alleviate subdivision flooding by creating a ditch.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$2,554,452.00	Study Sponsor:	Hidalgo County Precinct 1
Estimated year to start:	2023	Entity with Oversight:	Hidalgo County Precinct 1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Hidalgo County Precinct 2 - Floodway Pump Station Upgrade

FME ID: 151000306

### FME Description

Increase pump size for draining into Floodway

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$150,091.00	Study Sponsor:	Hidalgo County Precinct 2
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Precinct 2
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Hidalgo County Precinct 3 - 4 Mile Line

FME ID: 151000307

### FME Description

Improve drainage system outfalling into West Main 3.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$830,901.00	Study Sponsor:	Hidalgo County Precinct 3
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Precinct 3
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Hidalgo County Precinct 3 - Palm Dr.

FME ID: 151000308

### FME Description

Improve drainage system outfalling into West Main 3.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,108,196.00	Study Sponsor:	Hidalgo County Precinct 3
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Precinct 3
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Hidalgo County Precinct 3 - Moorefield Rd.

FME ID: 151000309

### FME Description

Improve drainage system outfalling into West Main 3.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$603,989.00	Study Sponsor:	Hidalgo County Precinct 3
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Precinct 3
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Hidalgo County Precinct 3 - Mile 8 1/2

FME ID: 151000310

### FME Description

Improve drainage system outfalling into the Raymondville Drain

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$2,561,306.00	Study Sponsor:	Hidalgo County Precinct 3
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Precinct 3
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Hidalgo County Precinct 3 - Inspiration Rd

FME ID: 151000311

### FME Description

Improve drainage system outfalling into the Raymondville Drain

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$5,014,031.00	Study Sponsor:	Hidalgo County Precinct 3
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Precinct 3
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Hidalgo County Precinct 4 - Alberta Drain Phase

FME ID: 151000312

### FME Description

Create drainage for existing subdivisions to Alamo Lateral (Between Owassa and Alberta, bounds ~1 mile East of Tower

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$2,147,544.80	Study Sponsor:	Hidalgo County Precinct 4
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Precinct 4
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Sullivan City - US 83 - FM 886 Drainage Improvements

FME ID: 151000313

### FME Description

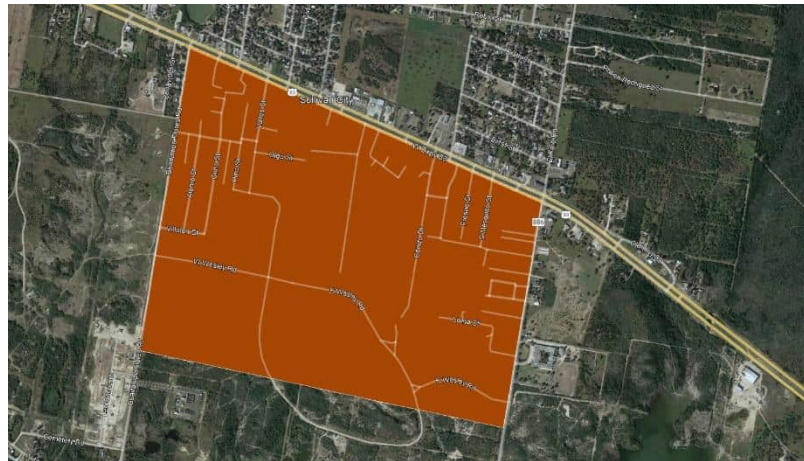
Improve drainage South of US 83 and West of FM 886, add storm drain through US 83 and curb and gutter for remaining

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Sullivan City**  
 County/ Counties **Hidalgo**  
 HUC 8 **12110208**  
 HUC 12 **121102080900**  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$464,219.00	Study Sponsor:	Sullivan City
Estimated year to start:	2023	Entity with Oversight	Sullivan City
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Cameron County Drainage District No.1 - Ditch 1 detention ponds

FME ID: 151000314

### FME Description

200 acre elevated detention pond with pump station

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$4,568,612.85	Study Sponsor:	Cameron County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Brownsville - North Airport Drainage improvements.

FME ID: 151000315

### FME Description

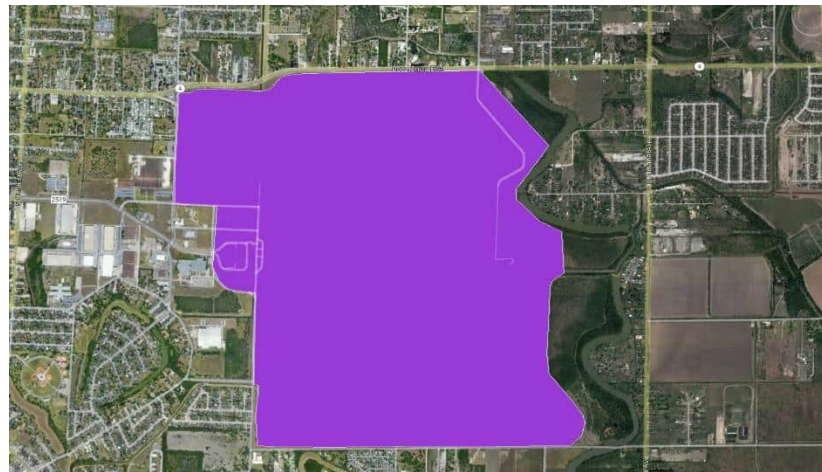
Add detention facilities and improve outfalls

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Brownsville**  
 County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$2,529,275.00	Study Sponsor:	City of Brownsville
Estimated year to start:	2023	Entity with Oversight	City of Brownsville
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of South Padre Island - SPI White Sands Washout Prevention

FME ID: 151000316

### FME Description

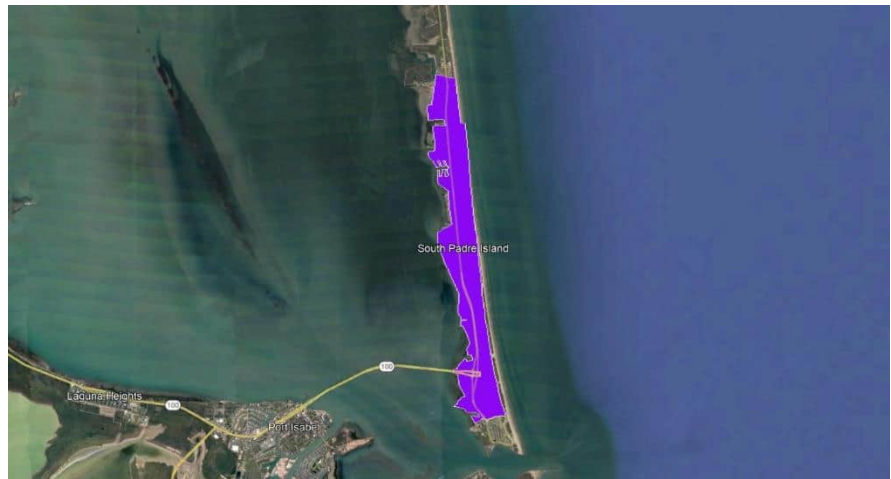
Develop temporary sea wall to minimize washout

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **South Padre Island**  
 County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$174,750.00	Study Sponsor:	City of South Padre Island
Estimated year to start:	2023	Entity with Oversight	City of South Padre Island
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of South Padre Island - Addition of SPI Outfall

FME ID: 151000317

### FME Description

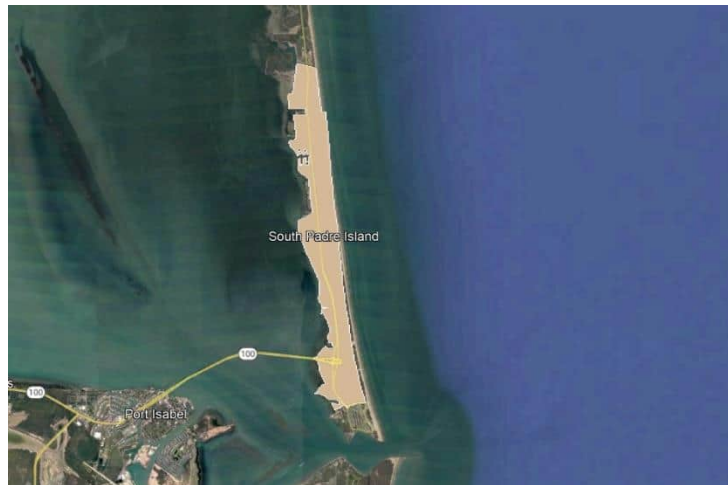
Study outfall needed between Sheraton/Sea Vista

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **South Padre Island**  
 County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$3,022,570.00	Study Sponsor:	City of South Padre Island
Estimated year to start:	2023	Entity with Oversight	City of South Padre Island
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
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- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



FME ID: 151000318

## City of South Padre Island - SPI drainage study/identification of infrastructure improvements.

### FME Description

Identify drainage issues and develop storm sewer system and outfall for Gulf Blvd

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **South Padre Island**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:		Study Sponsor:	City of South Padre Island
Estimated year to start:	2023	Entity with Oversight	City of South Padre Island
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of South Padre Island - Bayside outfall

FME ID: 151000319

### FME Description

Design outfall into Laguna Madre S. of Go Cart Track.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **South Padre Island**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$1,100,000.00	Study Sponsor:	City of South Padre Island
Estimated year to start:	2023	Entity with Oversight	City of South Padre Island
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000320

## Cameron County - SouthPoint/Reid Hope King/Villa Pancho Channel / Pump Station

### FME Description

New channel to river is needed. pump station required to pump into river when levels are high

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$4,197,256.25	Study Sponsor:	Cameron County Engineering Dept.
Estimated year to start:	2023	Entity with Oversight	Cameron County Engineering Dept.
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
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- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
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- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Cameron County Precinct No.1 - CCP1 Ditch Reclaim A

FME ID: 151000321

### FME Description

Reclaim/Repair/ Regrade ditch between Florida/Dockberry and Brownsville/FM 511

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,060,620.00	Study Sponsor:	Cameron County Precinct No.1
Estimated year to start:	2023	Entity with Oversight	Cameron County Precinct No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
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- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
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- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Cameron County Drainage District No.1 - Ditch 2 detention ponds

FME ID: 151000322

### FME Description

200 acre elevated detention pond with pump station

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$4,568,612.85	Study Sponsor:	Cameron County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Brownsville - FM802/HW48 Drainage Improvements

FME ID: 151000323

### FME Description

Roadway and drainage improvement for industrial dist

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Brownsville**  
 County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$413,887.34	Study Sponsor:	City of Brownsville
Estimated year to start:	2023	Entity with Oversight	City of Brownsville
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Brownsville - Colonia Galaxia Outfall improvements.

FME ID: 151000324

### FME Description

Addition of Pump station to pump water into Rio Grande

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Brownsville**  
 County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,953,515.86	Study Sponsor:	City of Brownsville
Estimated year to start:	2023	Entity with Oversight	City of Brownsville
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Brownsville - Central Blvd/Stovall Rd connection improvements

FME ID: 151000325

### FME Description

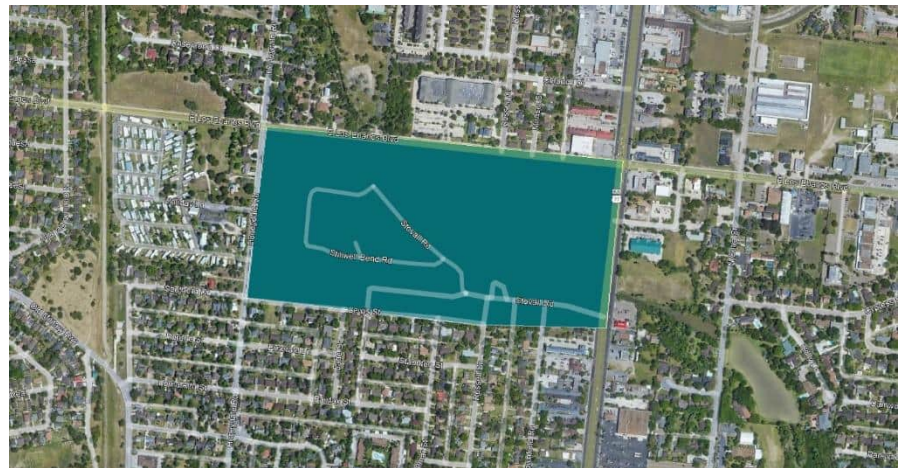
Improve drainage system connecting Resaca

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Brownsville**  
 County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$667,391.79	Study Sponsor:	City of Brownsville
Estimated year to start:	2023	Entity with Oversight	City of Brownsville
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
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- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Cameron County Drainage District No.1 - Cameron Park lateral improvements

FME ID: 151000326

### FME Description

Clean, expand and define responsible party

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$2,918,075.00	Study Sponsor:	Cameron County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Los Fresnos - Los Fresnos S.E Outfall Improvements.

FME ID: 151000327

### FME Description

Improve/widen ditch to increase flow

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Los Fresnos**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$2,145,533.75	Study Sponsor:	City of Los Fresnos
Estimated year to start:	2023	Entity with Oversight	City of Los Fresnos
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Rancho Viejo - FM 1732/Carmen Ave Crossing Improvements.

FME ID: 151000328

### FME Description

Improve drainage structure under FM1732 to equalize flooding across roadway.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Rancho Viejo**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,604,593.08	Study Sponsor:	City of Rancho Viejo
Estimated year to start:	2023	Entity with Oversight	City of Rancho Viejo
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
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- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
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- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Mission – Flood Monitor

FME ID: 151000329

### FME Description

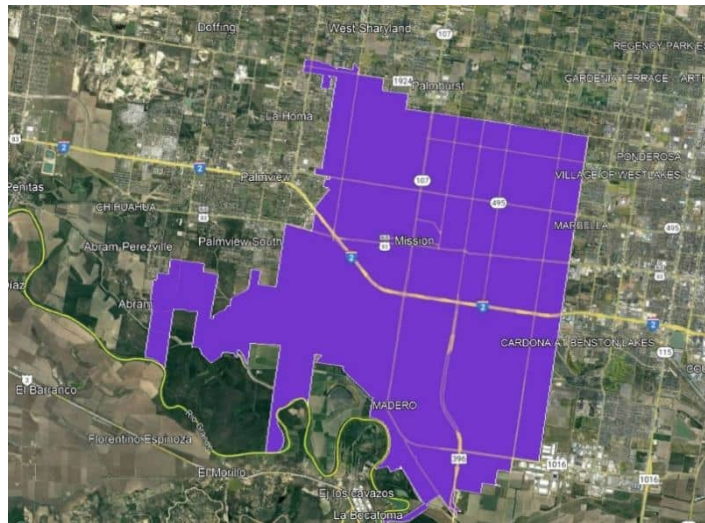
Install flood levels besides major roadways for citizens.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated	
Population at Risk		Miles inundated?	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>		

Notes:

### Study Costs

Total Cost:	\$5,000.00	Study Sponsor:	City of Rancho Viejo
Estimated year to start:	2023	Entity with Oversight	City of Rancho Viejo
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Rancho Viejo - Rancho Viejo Outfall at US77 Expansion

FME ID: 151000330

### FME Description

Drainage Improvements/infrastructure at crossing under US77. Expansion of outlet needed.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Rancho Viejo**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$2,901,630.00	Study Sponsor:	City of Rancho Viejo
Estimated year to start:	2023	Entity with Oversight	City of Rancho Viejo
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Cameron County Drainage District No.1 - Rancho Viejo Resaca Improvements.

FME ID: 151000331

### FME Description

Dredge, improve Resaca drainage connectivity

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$822,250.00	Study Sponsor:	Cameron County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Cameron County Precinct No.2 - CCP2 Ditch Reclaim D

FME ID: 151000332

### FME Description

Project 22 in Cam Co Digest Request Forms - Reclaiming/Repairing/Regrading of ditch SW of rancho Viejo.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$1,228,807.50	Study Sponsor:	Cameron County Precinct No.2
Estimated year to start:	2023	Entity with Oversight	Cameron County Precinct No.2
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Cameron County Precinct No.2 - CCP2 Ditch Reclaim E

FME ID: 151000333

### FME Description

Project 22 in Cam Co Digest Request Forms - Reclaiming/Repairing/Regrading of ditch NW of Rancho Viejo Between FM1421 and HW100

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$748,912.50	Study Sponsor:	Cameron County Precinct No.2
Estimated year to start:	2023	Entity with Oversight	Cameron County Precinct No.2
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Clark Road Ditch Improvements

FME ID: 151000334

### FME Description

Clark Road Ditch Improvements

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

- |                              |   |                            |  |
|------------------------------|---|----------------------------|--|
| History of Flooding?         | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Frequency of flooding:     |  |
| Population at Risk           |   | # of structures inundated  |  |
| Roadways flooded             | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Miles inundated?           |  |
| Critical Facilities Impacted | Yes <input type="checkbox"/> No <input type="checkbox"/>            | Agricultural Land impacted | Yes <input type="checkbox"/> No <input type="checkbox"/> |
- Notes:

### Study Costs

- |                          |   |                                  |   |
|--------------------------|---|----------------------------------|---|
| Total Cost:              | \$1,352,812.50  | Study Sponsor:                   | Cameron County Drainage District No. 6                              |
| Estimated year to start: | 2023  | Entity with Oversight            | Cameron County Drainage District No. 6                              |
| Time to complete?        | 2025  | Included in a CIP or other plan? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Funding Dedicated?       | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | (Potential) Source of Funding    |   |

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
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- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Clark Road Ditch Improvements

FME ID: 151000334

### FME Description

Clark Road Ditch Improvements

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,352,812.50	Study Sponsor:	Cameron County Drainage District No. 6
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No. 6
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
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- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Cameron County Drainage District No.3 - Cameron County Drainage District No. 3 Drain Expansion

FME ID: 151000335

### FME Description

Expand capacity along Cameron County Drainage District No. 3 Drains, acquire add ROW

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$15,937,875.00	Study Sponsor:	Cameron County Drainage District No.3
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No.3
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
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- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Indian Lake - Indian Lake Resaca Dredging

FME ID: 151000336

### FME Description

Dredging of Resaca to increase detention

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Indian Lake**  
 County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$598,000.00	Study Sponsor:	City of Indian Lake
Estimated year to start:	2023	Entity with Oversight	City of Indian Lake
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Laguna Vista - Broadway/ FM510 Drainage Improvements

FME ID: 151000337

### FME Description

Drainage infrastructure improvements needed along Broadway and connecting streets.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Laguna Vista**  
 County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$922,250.00	Study Sponsor:	City of Laguna Vista
Estimated year to start:	2023	Entity with Oversight	City of Laguna Vista
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Laguna Vista - Laguna Vista Drain Relocation

FME ID: 151000338

### FME Description

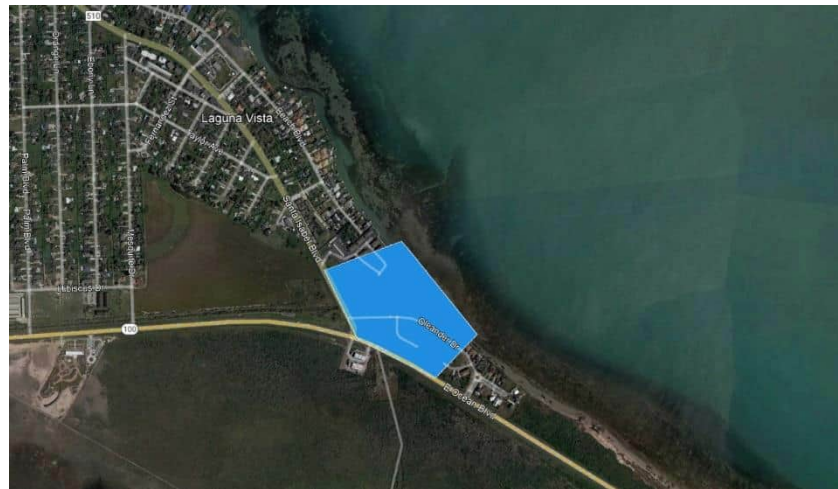
Relocate outfall or remove Black Mangroves (Endangered species)

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Laguna Vista**  
 County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$2,500,000.00	Study Sponsor:	City of Laguna Vista
Estimated year to start:	2023	Entity with Oversight	City of Laguna Vista
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Laguna Vista - Addition of Laguna Vista Relief Drain

FME ID: 151000339

### FME Description

Relief drain North of Hw100 to Bahia Grande

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Laguna Vista**  
 County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$174,750.00	Study Sponsor:	City of Laguna Vista
Estimated year to start:	2023	Entity with Oversight	City of Laguna Vista
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Los Fresnos - Los Fresnos N. Drainage Improvements

FME ID: 151000340

### FME Description

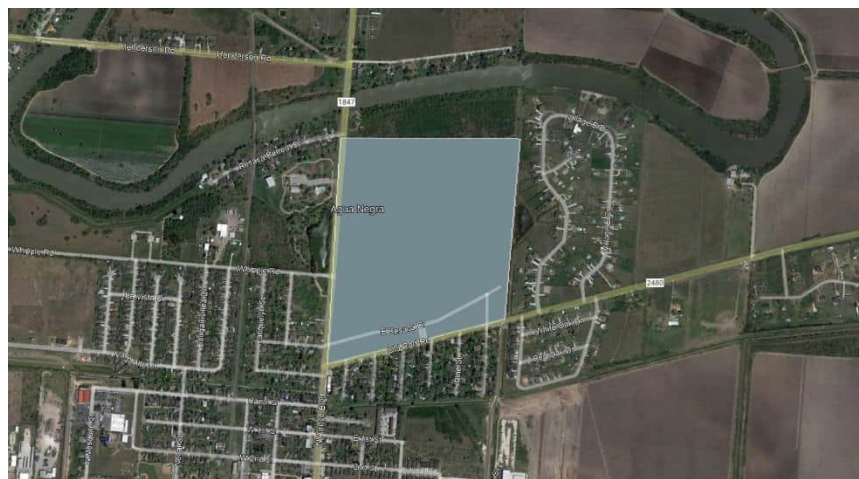
Improve existing drain system for future development

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Los Fresnos**  
 County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$249,500.00	Study Sponsor:	City of Los Fresnos
Estimated year to start:	2023	Entity with Oversight	City of Los Fresnos
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Cameron County Precinct No.3 - West Bayview Drainage Improvement (South Green Valley Farms)

FME ID: 151000341

### FME Description

Ditch maintenance and improvements, increase culvert size where needed , .5mi W of FM 803 to .5mi E of FM 3609 along FM 510 &~1mi N along FM 803

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$970,789.99	Study Sponsor:	Cameron County Precinct No.3
Estimated year to start:	2023	Entity with Oversight	Cameron County Precinct No.3
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Cameron County Precinct No.3 - FM 1847 Roadside Ditch and Drainage Improvements

FME ID: 151000342

### FME Description

Create roadside ditches and positive outfall/flow for FM 1847, north of FM 510

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$504,274.64	Study Sponsor:	Cameron County Precinct No.3
Estimated year to start:	2023	Entity with Oversight	Cameron County Precinct No.3
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## West Bayview Drainage Improvement Phase IV

FME ID: 151000343

### FME Description

Ditch maintenance and improvements, increase culvert size where needed , .5mi W of FM 803 to .5mi E of FM 3609 along FM 510 & ~1mi N along FM 803

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$5,187,721.07	Study Sponsor:	Cameron County Precinct No.3
Estimated year to start:	2023	Entity with Oversight	Cameron County Precinct No.3/Cameron County Drainage District No.4
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## West Bayview Drainage Improvement Phase V

FME ID: 151000344

### FME Description

Proposed ditch to bypass water around the subdivision to existing drainage structure

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$2,580,108.34	Study Sponsor:	Cameron County Drainage District No.4
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No.4 / Texas Department of Transportation
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Palm Valley - Palm Valley Resacas Improvements

FME ID: 151000345

### FME Description

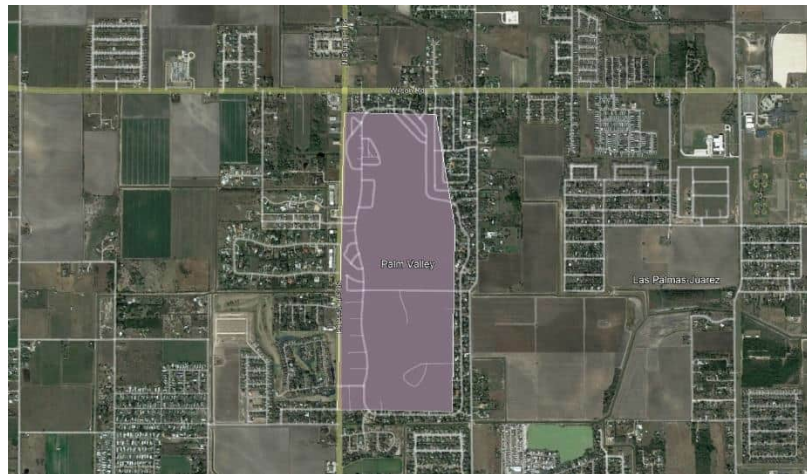
Dredging of Resaca in Golf Course to increase capacity

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Palm Valley**  
 County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,569,750.00	Study Sponsor:	City of Palm Valley
Estimated year to start:	2023	Entity with Oversight	City of Palm Valley
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
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- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Palm Valley - Stuart Place Road Drainage Improvements

FME ID: 151000346

### FME Description

Major flooding impedes emergency response. 5ft water. Improve drainage structures.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Palm Valley**  
 County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$914,610.00	Study Sponsor:	City of Palm Valley
Estimated year to start:	2023	Entity with Oversight	City of Palm Valley
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Bayview Irrigation District - Bayview-San Roman North Pump Station

FME ID: 151000347

### FME Description

Connect Resaca and pump station needed to move water out of Resaca

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$2,492,000.00	Study Sponsor:	Bayview Irrigation District 11
Estimated year to start:	2023	Entity with Oversight	Bayview Irrigation District 11
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Bayview Irrigation District - Bayview Detention Facility

FME ID: 151000348

### FME Description

Detention facilities needed to increase holding capacity

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$3,837,500.00	Study Sponsor:	Bayview Irrigation District 11
Estimated year to start:	2023	Entity with Oversight	Bayview Irrigation District 11
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Bayview Irrigation District - Laguna Atascosa Outfall Expansion

FME ID: 151000349

### FME Description

Refuge hinders outfall cap for Bayview ID11 Coop Needed for more outflow/larger gates

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$3,946,800.00	Study Sponsor:	Bayview Irrigation District 11
Estimated year to start:	2023	Entity with Oversight	Bayview Irrigation District 11
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Bayview Irrigation District - Laguna Atascosa Gate Upgrade / Expansion

FME ID: 151000350

### FME Description

Larger/more gates needed for more outflow capabilities.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$2,354,625.00	Study Sponsor:	Bayview Irrigation District 11
Estimated year to start:	2023	Entity with Oversight	Bayview Irrigation District 11
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
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- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000351

## City of Palm Valley - Palm Valley Master Drainage Study

### FME Description

Master drainage study map needed. Structures have never been mapped

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Watershed Planning

### Study Area

City/ Cities **Palm Valley**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:		Study Sponsor:	City of Palm Valley
Estimated year to start:	2023	Entity with Oversight	City of Palm Valley
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Cameron County Drainage District No.4 - FM 510 Crossing Improvements

FME ID: 151000352

### FME Description

Improve flow capacity at crossings on FM 510 to prevent stacking

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$7,350,750.00	Study Sponsor:	Cameron County Drainage District No.4
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No.4
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Cameron County - Chula Vista Orason Drainage Improvements

FME ID: 151000353

### FME Description

Flooding issues compounded by inadequate infrastructure. Improve to overall drainage infra.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$4,197,256.25	Study Sponsor:	Cameron County Drainage District No.4
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No.4
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Cameron County Drainage District No.3 - Main Drain A Downstream Improvements, Drain B-1

FME ID: 151000354

### FME Description

Enlarge Culverts, exchange 60" RCP for 8'x8' concrete box culvert (FM 732 crossing), and a 4'x3' RCB with a 8'x8' RCP. See 2010 ESPEY 6.2.2 Alternative 2. page 37

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$9,515,000.00	Study Sponsor:	Cameron County Drainage District No.3
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No.3
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Cameron County Drainage District No.3 - Main Drain A Capacity Increase Project

FME ID: 151000355

### FME Description

Incr. channel width, replace N. and S. bridges at Bus77 to CR596 & replace flume with siphon downstream of Iowa Gardens Rd.  
See 2010 ESPEY 6.2.2 Alt. 2a. page 38

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$16,073,613.38	Study Sponsor:	Cameron County Drainage District No.3
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No.3
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Southwest Ditch Widening

FME ID: 151000356

### FME Description

Southwest Ditch Widening

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,010,000.00	Study Sponsor:	Cameron County Drainage District No.6
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No.6
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Cameron County Drainage District No.3 - Drain F-23 Culvert Improvements

FME ID: 151000357

### FME Description

Replace existing 48" RCP at Williams Road and 36" RCP at Irene Street with 6'x6' RCB. See 2010 ESPEY 6.2.7 Alternative 7. page 41

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$192,729.25	Study Sponsor:	Cameron County Drainage District No.3
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No.3
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000358

## Cameron County Drainage District No.5/ Harlingen Irrigation District - Hensz and Perk Lane Laterals Crossing Replacements

### FME Description

Replacement of crossings on Hensz and perk Lane laterals

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$11,245,110.27	Study Sponsor:	Cameron County Drainage District No.5/ Harlingen Irrigation District
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No.5/ Harlingen Irrigation District
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of San Benito - South Rail Drainage

FME ID: 151000359

### FME Description

South of R.R. -Drainage improvement and flood elevation measures

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **San Benito**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$6,607,849.00	Study Sponsor:	City of San Benito
Estimated year to start:	2023	Entity with Oversight	City of San Benito
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of San Benito - North Rail Drainage

FME ID: 151000360

### FME Description

North of R.R. -Drainage improvement and flood elevation measures

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **San Benito**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$10,696,236.00	Study Sponsor:	City of San Benito
Estimated year to start:	2023	Entity with Oversight	City of San Benito
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000361

## City of San Benito - Lateral Connections to Drainage District

### FME Description

Connecting existing San Benito laterals to Drainage District ditches

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **San Benito**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$705,838.00	Study Sponsor:	City of San Benito
Estimated year to start:	2023	Entity with Oversight	City of San Benito
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Primera - Primera/Wilson Tract Main Outfall Improvements

FME ID: 151000362

### FME Description

Improvements/expansion along Wilson main tract to relief stacking into Primera.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Primera**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$922,250.00	Study Sponsor:	City of Primera
Estimated year to start:	2023	Entity with Oversight	City of Primera
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Primera - Primera Detention Ponds

FME ID: 151000363

### FME Description

Additional Detention facilities needed

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Primera**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$3,544,949.77	Study Sponsor:	City of Primera
Estimated year to start:	2023	Entity with Oversight	City of Primera
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000364

## Cameron County Precinct No.4 - North Floodway Control Structure Improvements

### FME Description

Proposed replacement of gates and check valves into the floodway

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$2,616,250.00	Study Sponsor:	Cameron County Precinct No.4
Estimated year to start:	2023	Entity with Oversight	Cameron County Precinct No.4
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Cameron County Precinct No.4 - NF-13 Capacity and Structure Improvements (North FM 800)

FME ID: 151000365

### FME Description

Improve existing drainage ditch NF-13 and existing culverts on North FM 800

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$10,522,087.36	Study Sponsor:	Cameron County Precinct No.4
Estimated year to start:	2023	Entity with Oversight	Cameron County Precinct No.4
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
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- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



FME ID: 151000366

## Cameron County Precinct No.4 - North Floodway Bypass / Hardin Ranch Drain Extension

### FME Description

Proposed major east -west ditch utilizing some existing drainage structures to provide a major outfall in lieu of floodway

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$65,657,932.63	Study Sponsor:	Cameron County Precinct No.4
Estimated year to start:	2023	Entity with Oversight	Cameron County Precinct No.4
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Tio Cano Lake Detention / Retention Facility

FME ID: 151000367

### FME Description

Proposed detention / retention pond

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$10,027,317.73	Study Sponsor:	Cameron County Precinct No.4, Cameron County Draiage District No. 6
Estimated year to start:	2023	Entity with Oversight	Cameron County Precinct No.4, Cameron County Draiage District No. 6
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Cameron County Precinct No.4/Camreon County Drainage District No.5 - Southwest Main Drain / Arroyo Colorado Connector

FME ID: 151000368

### FME Description

Construct a ditch to the Arroyo Colorado via the CCDDNo.5 Southwest Main Drain (Baker Potts - Hoss Lane)

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$4,409,960.44	Study Sponsor:	Cameron County Precinct No.4/Camreon County Drainage District No.5
Estimated year to start:	2023	Entity with Oversight	Cameron County Precinct No.4/Camreon County Drainage District No.5
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000369

## Cameron County Precinct No.4/Camreon County Drainage District No.5 - Santa Rosa Capacity & Structure Improvements

### FME Description

Improve / replace existing drainage structures to increase capacity.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$6,617,489.79	Study Sponsor:	Cameron County Precinct No.4/Camreon County Drainage District No.5
Estimated year to start:	2023	Entity with Oversight	Cameron County Precinct No.4/Camreon County Drainage District No.5
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Cameron County Drainage District No.5 - Wilson Main Tract Drain Expansion

FME ID: 151000370

### FME Description

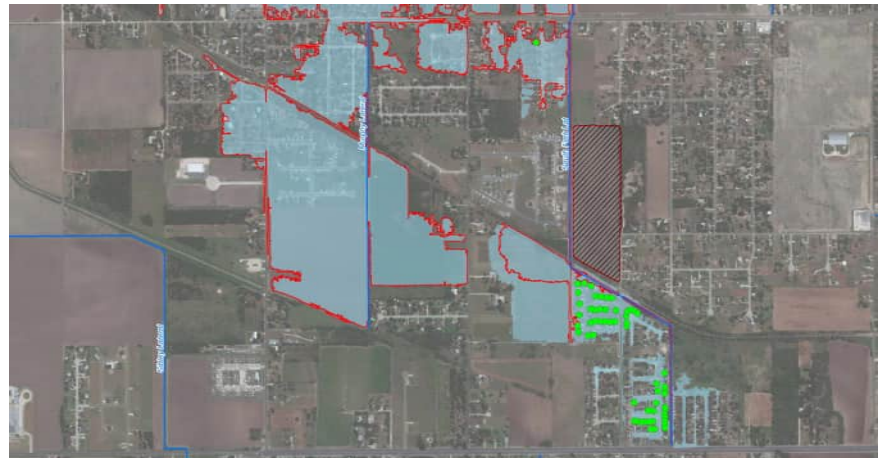
Expand the Wilson Main Tract Drain which acts as primary drain and outfall for a major part of The City of Primera North. The expansion will prevent stacking throughout connecting laterals and to protect assets in effected area.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$2,862,925.00	Study Sponsor:	Cameron County Drainage District No.5
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No.5
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Cameron County Drainage District No.5 - Young Lateral - Wilson Main Tract Connection

FME ID: 151000371

### FME Description

Connection of Young lateral to Wilson Main Tract.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

- |                              |   |                            |  |
|------------------------------|---|----------------------------|--|
| History of Flooding?         | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Frequency of flooding:     |  |
| Population at Risk           |   | # of structures inundated  |  |
| Roadways flooded             | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Miles inundated?           |  |
| Critical Facilities Impacted | Yes <input type="checkbox"/> No <input type="checkbox"/>            | Agricultural Land impacted | Yes <input type="checkbox"/> No <input type="checkbox"/> |
- Notes:

### Study Costs

- |                          |   |                                  |   |
|--------------------------|---|----------------------------------|---|
| Total Cost:              | \$5,796,285.00  | Study Sponsor:                   | Cameron County Drainage District No.5                               |
| Estimated year to start: | 2023  | Entity with Oversight            | Cameron County Drainage District No.5                               |
| Time to complete?        | 2025  | Included in a CIP or other plan? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Funding Dedicated?       | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | (Potential) Source of Funding    |   |

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
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- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Harlingen Irrigation District - Morris Rd Connectivity

FME ID: 151000372

### FME Description

Connectivity needed for neighborhoods in Morris Rd Area.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$2,500,000.00	Study Sponsor:	Harlingen Irrigation District No.1
Estimated year to start:	2023	Entity with Oversight	Harlingen Irrigation District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
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- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Harlingen Irrigation District - Ebony / 800 Expansion

FME ID: 151000373

### FME Description

Culvert improvements under TxDOT roadways to move storm water.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$2,500,000.00	Study Sponsor:	Harlingen Irrigation District No.1
Estimated year to start:	2023	Entity with Oversight	Harlingen Irrigation District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Harlingen Irrigation District - Adams Garden Crossing Expansion

FME ID: 151000374

### FME Description

Enlarge crossings on entire system to outfall into main floodway

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$12,013,500.00	Study Sponsor:	Harlingen Irrigation District No.1
Estimated year to start:	2023	Entity with Oversight	Harlingen Irrigation District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Harlingen Irrigation District - North Combes - Connectivity

FME ID: 151000375

### FME Description

No current connectivity to drainage system. Connectivity needed.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$5,796,285.00	Study Sponsor:	Harlingen Irrigation District No.1
Estimated year to start:	2023	Entity with Oversight	Harlingen Irrigation District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000376

## La Feria Irrigation District - Bixby Drainage Improvements

### FME Description

Homes flood during storm event. Upgraded infrastructure needed.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$10,258,636.23	Study Sponsor:	La Feria Irrigation District
Estimated year to start:	2023	Entity with Oversight	La Feria Irrigation District
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Rio Hondo - Rio Hondo Connectivity

FME ID: 151000377

### FME Description

Need to develop channel/connectivity either north to Arroyo Colorado or South to Rio Grande River

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Rio Hondo**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$1,829,205.00	Study Sponsor:	City of Rio Hondo
Estimated year to start:	2023	Entity with Oversight	City of Rio Hondo
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## La Feria Irrigation District - La Feria/ 6.0 Channel Widening

FME ID: 151000378

### FME Description

Channel widening from Arroyo Colorado to Wilson Main Tract crossover

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$3,511,885.00	Study Sponsor:	La Feria Irrigation District
Estimated year to start:	2023	Entity with Oversight	La Feria Irrigation District
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## La Feria Irrigation District - Tio Cano Lake Capacity Improvements

FME ID: 151000379

### FME Description

Deepening/widening of Tio Cano Lake to provide storage

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

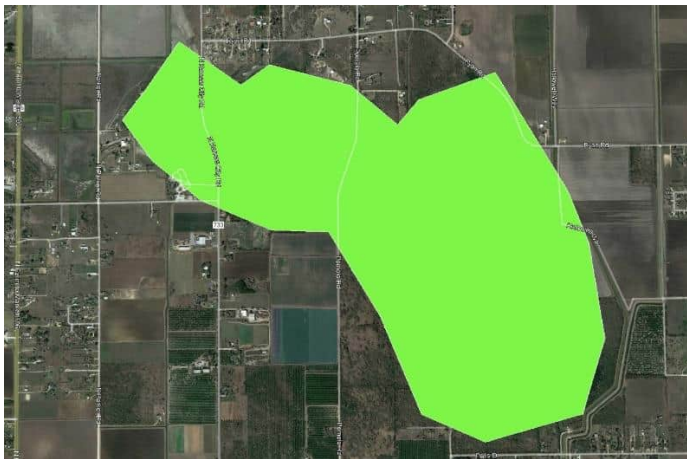
### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$772,750.00	Study Sponsor:	La Feria Irrigation District
Estimated year to start:	2023	Entity with Oversight:	La Feria Irrigation District
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
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- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



FME ID: 151000380

## City of Rio Hondo - Rio Hondo Drainage Improvements

### FME Description

Overall H&H improvements throughout city

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Watershed Planning

### Study Area

City/ Cities **Rio Hondo**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:		Study Sponsor:	City of Rio Hondo
Estimated year to start:	2023	Entity with Oversight	City of Rio Hondo
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Rio Hondo - Rio Hondo Evacuation Center

FME ID: 151000381

### FME Description

Construct an evacuation center needed during storm event

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Flood Readiness and Resilience

### Study Area

City/ Cities **Rio Hondo**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$3,245,221.25	Study Sponsor:	City of Rio Hondo
Estimated year to start:	2023	Entity with Oversight	City of Rio Hondo
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Santa Rosa - Santa Rosa Drainage System Improvements

FME ID: 151000382

### FME Description

Clay lines in place. Total system infrastructure improvements needed. Manholes collapse.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Santa Rosa**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$3,245,221.25	Study Sponsor:	City of Santa Rosa
Estimated year to start:	2023	Entity with Oversight	City of Santa Rosa
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
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- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Santa Rosa - Santa Rosa - 107 Channel / Crossover

FME ID: 151000383

### FME Description

Expansion of channel and culvert crossings at railroad tracks.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Santa Rosa**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$3,245,221.25	Study Sponsor:	City of Santa Rosa
Estimated year to start:	2023	Entity with Oversight	City of Santa Rosa
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
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- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Santa Rosa - Santa Rosa Connectivity

FME ID: 151000384

### FME Description

Connectivity needed to alleviate major flooding during 50-year storms. Connection of Santa Rosa to surrounding area

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Santa Rosa**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$383,237.50	Study Sponsor:	City of Santa Rosa
Estimated year to start:	2023	Entity with Oversight	City of Santa Rosa
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Los Indios - Los Indios-Carrasitos Trail Drainage Improvements

FME ID: 151000385

### FME Description

new storm water drainage system needed.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Los Indios**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$667,307.98	Study Sponsor:	City of Los Indios
Estimated year to start:	2023	Entity with Oversight	City of Los Indios
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Cameron County - Reba-Bass Lake Drainage Improvements

FME ID: 151000386

### FME Description

Drainage improvements between Bus 83 and Arroyo Colorado

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

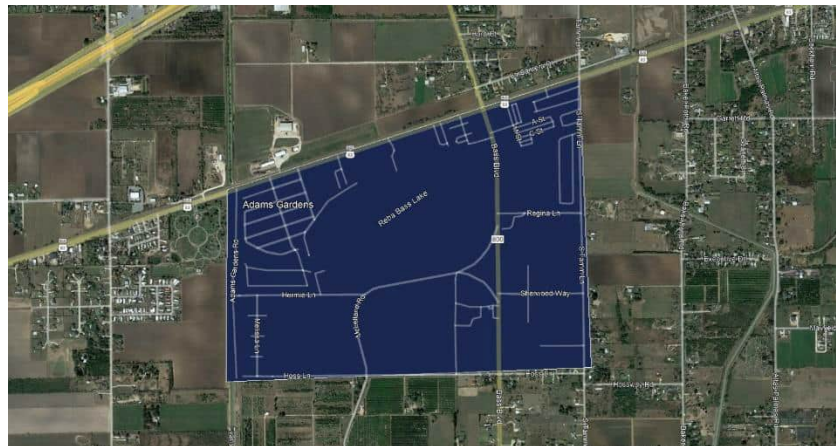
### Study Area

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

- |                              |   |                            |  |
|------------------------------|---|----------------------------|--|
| History of Flooding?         | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Frequency of flooding:     |  |
| Population at Risk           |   | # of structures inundated  |  |
| Roadways flooded             | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Miles inundated?           |  |
| Critical Facilities Impacted | Yes <input type="checkbox"/> No <input type="checkbox"/>            | Agricultural Land impacted | Yes <input type="checkbox"/> No <input type="checkbox"/> |
- Notes:

### Study Costs

- |                          |   |                                  |   |
|--------------------------|---|----------------------------------|---|
| Total Cost:              | \$1,228,807.50  | Study Sponsor:                   | Cameron County  |
| Estimated year to start: | 2023  | Entity with Oversight            | Cameron County  |
| Time to complete?        | 2025  | Included in a CIP or other plan? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Funding Dedicated?       | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | (Potential) Source of Funding    |   |

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
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- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Los Indios - Los Indios-Del Rio East Subdivision Improvements

FME ID: 151000387

### FME Description

Infrastructure to include the improvement of storm water drainage.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Los Indios**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,228,807.50	Study Sponsor:	City of Los Indios
Estimated year to start:	2023	Entity with Oversight	City of Los Indios
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
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- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Rio Hondo - Rio Hondo Dam Repair

FME ID: 151000388

### FME Description

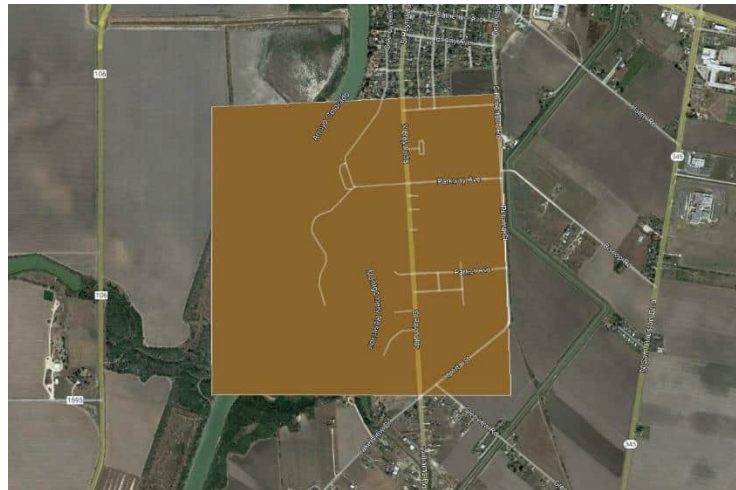
Repair and rehabilitate the Dam that holds Resaca water and connects City to park on the peninsula

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Rio Hondo**  
 County/ Counties **Cameron**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,339,590.00	Study Sponsor:	City of Rio Hondo
Estimated year to start:	2023	Entity with Oversight	City of Rio Hondo
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Willacy County Precinct No.1 - La Sara Drain Ditch improvement

FME ID: 151000389

### FME Description

improve ~6,000 LF of existing drain ditches in La Sara

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Willacy**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$1,209,719.00	Study Sponsor:	Willacy County Precinct No.1
Estimated year to start:	2023	Entity with Oversight	Willacy County Precinct No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Willacy County Precinct No.1 - Los Angeles Drain Ditch improvement

FME ID: 151000390

### FME Description

Maintain ~2,500 LF of drain ditches in Los Angeles Subdivision

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Willacy**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$637,529.00	Study Sponsor:	Willacy County Precinct No.1
Estimated year to start:	2023	Entity with Oversight	Willacy County Precinct No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Willacy County Precinct No.1 - Various Drainage Improvements in Ranchette Estates

FME ID: 151000391

### FME Description

Regrade swale, install RCP w/ S.E.T. Culverts, and clean/maintain R.E. Main Drain Ditch to improve drainage and maintain roadway access.

### Study Type

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Flood risk modeling/mapping | <input type="checkbox"/> Alternative Analysis    | <input type="checkbox"/> Flood preparedness studies              |
| <input type="checkbox"/> Flood mitigation study      | <input type="checkbox"/> Feasibility Assessments | <input checked="" type="checkbox"/> Engineering Project Planning |

### Study Area

County/ Counties **Willacy**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$921,875.00	Study Sponsor:	Willacy County Precinct No.1
Estimated year to start:	2023	Entity with Oversight	Willacy County Precinct No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
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- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of San Perlita - Box Culvert Extension

FME ID: 151000392

### FME Description

Connection of San Perlita drainage infrastructure to East Main Drain through 4'x8' RCB

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Willacy**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,357,390.00	Study Sponsor:	City of San Perlita
Estimated year to start:	2023	Entity with Oversight	City of San Perlita
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of San Perlita - School Storm Sewer Extension

FME ID: 151000393

### FME Description

Extension of southwest end of San Perlita drainage infrastructure and connect system to existing drainage ditch

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **San Perlita**

County/ Counties **Willacy**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$234,627.00	Study Sponsor:	City of San Perlita
Estimated year to start:	2023	Entity with Oversight	City of San Perlita
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



FME ID: 151000394

## City of San Perlita - Community Drainage Improvements

### FME Description

Extend city's southwest storm sewer to connect into drainage canal.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **San Perlita**

County/ Counties **Willacy**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$688,748.00	Study Sponsor:	City of San Perlita
Estimated year to start:	2023	Entity with Oversight	City of San Perlita
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Willacy County Drainage District No.1 - HW 186 East Drainage Extension

FME ID: 151000395

### FME Description

Connectivity/extension of current drainage facilities. Residents currently flood.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Willacy**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$3,800,000.00	Study Sponsor:	Willacy County Drainage District
Estimated year to start:	2023	Entity with Oversight:	Willacy County Drainage District
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Willacy County Drainage District No.1 - Detention to Willacy Main Drain

FME ID: 151000396

### FME Description

Detention facilities for Willacy Main Drain, increase holding capacity

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Willacy**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$10,000,000.00	Study Sponsor:	Willacy County Drainage District
Estimated year to start:	2023	Entity with Oversight	Willacy County Drainage District
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Lyford - Lyford detention and ditch improvement

FME ID: 151000397

### FME Description

Clean up and maintain existing ditch as well as create additional detention on existing I Lateral

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Lyford**

County/ Counties **Willacy**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$411,793.00	Study Sponsor:	City of Lyford
Estimated year to start:	2023	Entity with Oversight	City of Lyford
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000398

## Willacy County Precinct No. 3 - Various Drairage Improvements in Bausell & Ellis

### FME Description

Improve ~2,500 LF of drain ditch, install 30" RCP, and 18" RCP Culvert

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities

County/ Counties **Willacy**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$498,953.00	Study Sponsor:	Willacy County Precinct No.3
Estimated year to start:	2023	Entity with Oversight	Willacy County Precinct No.3
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000399

## Willacy County Precinct No.3 - Willamar Culvert Install and Ditch improvement

### FME Description

Install 60" RCP culvert and maintain ~6,000 LF of the main storm system

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities

County/ Counties **Willacy**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$285,292.00	Study Sponsor:	Willacy County Precinct No.3
Estimated year to start:	2023	Entity with Oversight	Willacy County Precinct No.3
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Mission – Rural Alternative

FME ID: 151000400

### FME Description

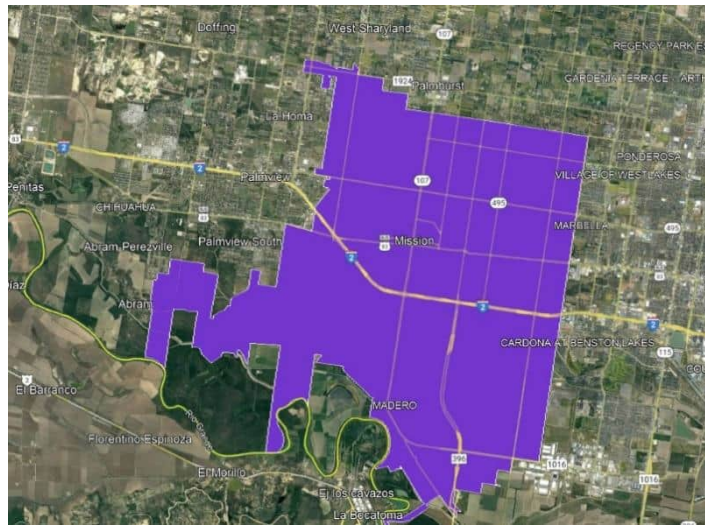
Install box culverts towards rural area of city limits.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Mission**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$2,000.00	Study Sponsor:	City of Rancho Viejo
Estimated year to start:	2023	Entity with Oversight	City of Rancho Viejo
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



FME ID: 151000401

## Willacy County Drainage District No.1- 626L "Smith Gate" addition

### FME Description

Addition of pump to move water into IBWC floodway

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities

County/ Counties **Willacy**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$2,100,000.00	Study Sponsor:	Willacy County Drainage District
Estimated year to start:	2023	Entity with Oversight	Willacy County Drainage District
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000402

## Willacy County Drainage District No.1- Los Mesquites Subdivision Connectivity

### FME Description

Drainage infrastructure needed. Connectivity to WCDD1 needed.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities

County/ Counties **Willacy**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$900,000.00	Study Sponsor:	Willacy County Drainage District
Estimated year to start:	2023	Entity with Oversight	Willacy County Drainage District
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000403

## Willacy County Drainage District No.1- Sebastian Detention

### FME Description

Detention facilities for Sebastian, pumping station to pump into IBWC Floodway

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Willacy**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$7,300,000.00	Study Sponsor:	Willacy County Drainage District
Estimated year to start:	2023	Entity with Oversight	Willacy County Drainage District
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000404

## Willacy County Precinct No.4 - Lyford South Various Drain Ditch improvement

### FME Description

Improve ~6,000 LF of drain ditch or swales, including ~600 LF of 18" RCP Culverts with S.E.T.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Willacy**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$324,603.00	Study Sponsor:	Willacy County Precinct No.4
Estimated year to start:	2023	Entity with Oversight	Willacy County Precinct No.4
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000405

## Willacy County Precinct No.4 - Santa Monica Various Drain Ditch improvement

### FME Description

Improve existing swales, including ~750 LF of 18" RCP Culverts

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Willacy**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$928,345.00	Study Sponsor:	Willacy County Precinct No.4
Estimated year to start:	2023	Entity with Oversight	Willacy County Precinct No.4
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000406

## Willacy County Precinct No.4 - Lateral G improvement

### FME Description

improve ~24,000 LF of Lateral G drain ditch

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Willacy**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$3,808,376.00	Study Sponsor:	Willacy County Precinct No.4
Estimated year to start:	2023	Entity with Oversight	Willacy County Precinct No.4
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000407

## Willacy County Precinct No.4 - Zapata Various Drain Ditch improvement

### FME Description

improve ~18,000 LF of main drain ditch and install 60" RCP Culvert as necessary

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Willacy**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$2,068,532.00	Study Sponsor:	Willacy County Precinct No.4
Estimated year to start:	2023	Entity with Oversight	Willacy County Precinct No.4
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



FME ID: 151000408

## Alton MDP - FM 676 at Stewart Road

### FME Description

Alton MDP - FM 676 at Stewart Road

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$75,000.00	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000409

## Alton MDP - South Stewart Boulevard Alternative 2A

### FME Description

Alton MDP - South Stewart Boulevard Alternative 2A

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$5,300,000.00	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000410

## Southwest Weslaco No.76

### FME Description

Southwest Weslaco No.77

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$2,599,000.00	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000411

## Hidalgo County Colonia Stormwater Drainage Planning Study Update

### FME Description

Hidalgo County Colonia Stormwater Drainage Planning Study Update

### Study Type

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Flood risk modeling/mapping | <input type="checkbox"/> Alternative Analysis    | <input type="checkbox"/> Flood preparedness studies              |
| <input type="checkbox"/> Flood mitigation study      | <input type="checkbox"/> Feasibility Assessments | <input checked="" type="checkbox"/> Engineering Project Planning |

### Study Area

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$996,000.00	Study Sponsor:	Hidalgo County
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000412

## Cameron Colonia Stormwater Drainage Planning Study Update

### FME Description

Cameron Colonia Stormwater Drainage Planning Study Update

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities

County/ Counties **Cameron County**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$996,000.00	Study Sponsor:	Cameron County
Estimated year to start:	2023	Entity with Oversight	Cameron County, All Cameron County Drainage Districts
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Willacy Colonia Stormwater Drainage Planning Study Update

FME ID: 151000413

### FME Description

Willacy Colonia Stormwater Drainage Planning Study Update

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities

County/ Counties **Willacy County**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$500,000.00	Study Sponsor:	Willacy County
Estimated year to start:	2023	Entity with Oversight	Willacy County, Willacy County Drainage District No.1 and 2
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## McAllen MDP- Study 1 Montecristo/Hoen Rd Subdivision

FME ID: 151000414

### FME Description

Upsize existing pond Montecristo/Hoen Dr and Channelization to discharge Pond into Existing Drainage ditch south of AOI .

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **McAllen**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$9,409,947.81	Study Sponsor:	City of McAllen
Estimated year to start:	2023	Entity with Oversight	City of McAllen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## McAllen MDP - Study 2 Shary Rd & 6MI Intersection

FME ID: 151000415

### FME Description

One pond upstream of Shary Rd & 6 Mile Rd intersection. South of existing Drainage Ditch

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **McAllen**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$5,526,745.44	Study Sponsor:	City of McAllen
Estimated year to start:	2023	Entity with Oversight	City of McAllen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## McAllen MDP- Study 3 SH107 East

FME ID: 151000416

### FME Description

1 large pond on State Highway 107 and N 23rd St.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **McAllen**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$9,632,611.23	Study Sponsor:	City of McAllen
Estimated year to start:	2023	Entity with Oversight	City of McAllen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## McAllen MDP - Study 4 Betnsen Rd

FME ID: 151000417

### FME Description

2 Detention Ponds along Bentsen Rd and Channel Improvements on ditch east of Bentsen Rd adjacent to Irrigation Canal.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **McAllen**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$15,499,695.67	Study Sponsor:	City of McAllen
Estimated year to start:	2023	Entity with Oversight	City of McAllen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## McAllen MDP - Study 5 Country Meadows Subdivison

FME ID: 151000418

### FME Description

1 large Detention Pond East of Shary Rd and Mile 8 1/2.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **McAllen**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$11,137,330.36	Study Sponsor:	City of McAllen
Estimated year to start:	2023	Entity with Oversight	City of McAllen
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Interstate 69C and McCullough St.

FME ID: 151000419

### FME Description

Study to identify flood mitigation measures

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **San Benito**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$2,000,000.00	Study Sponsor:	City of San Benito
Estimated year to start:	2023	Entity with Oversight	City of San Benito
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Drainage Ditch NM-102 Improvements

FME ID: 151000420

### FME Description

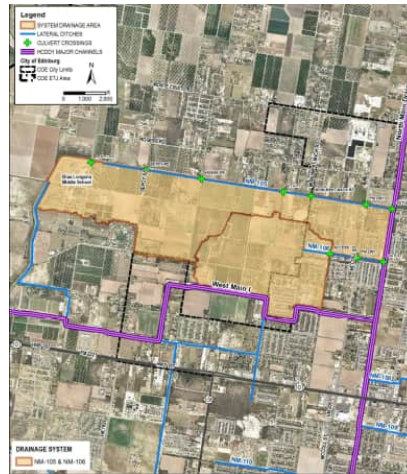
Drainage Ditch NM-102 Improvements

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Edinburg**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$2,252,940.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Drainage Ditch NM-103 Improvements

FME ID: 151000421

### FME Description

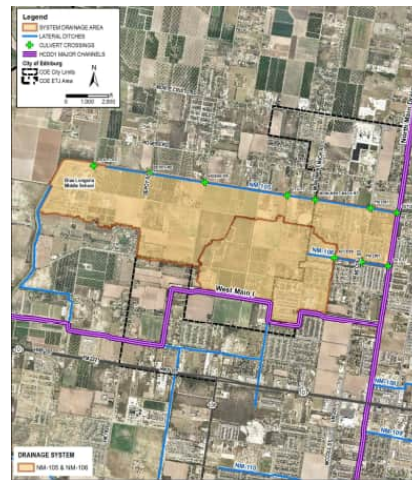
Drainage Ditch NM-103 Improvements

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Edinburg**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$714,690.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Drainage Ditch NM-105 Improvements

FME ID: 151000422

### FME Description

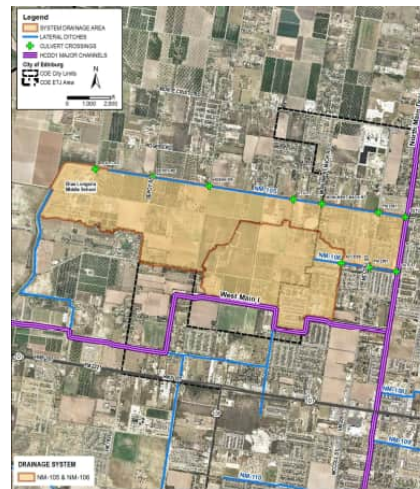
Drainage Ditch NM-105 Improvements

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Edinburg**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$316,053.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Drainage Ditch NM-106 Improvements

FME ID: 151000423

### FME Description

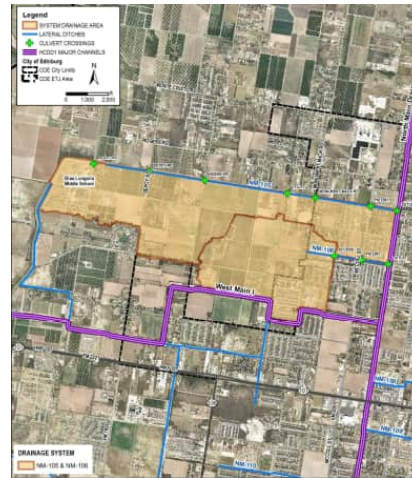
Drainage Ditch NM-106 Improvements

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Edinburg**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$252,623.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Drainage Ditch NM-108 Improvements

FME ID: 151000424

### FME Description

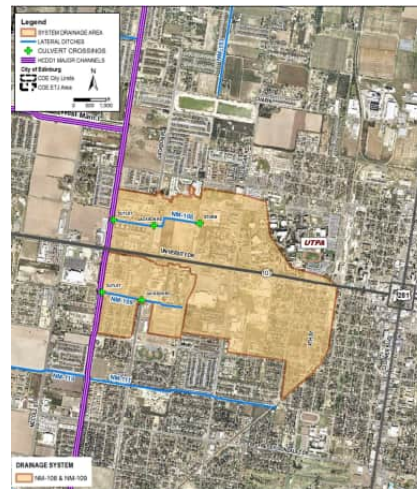
Drainage Ditch NM-108 Improvements

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Edinburg**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$631,950.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Drainage Ditch NM-109 Improvements

FME ID: 151000425

### FME Description

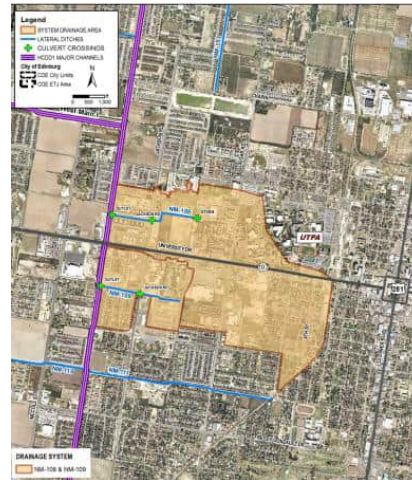
Drainage Ditch NM-109 Improvements

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Edinburg**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$883,893.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight:	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Drainage Ditch NM-110 Improvements

FME ID: 151000426

### FME Description

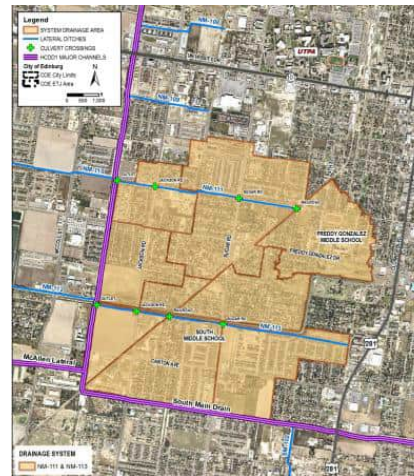
Drainage Ditch NM-110 Improvements

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Edinburg**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No   
 Population at Risk  
 Roadways flooded Yes  No   
 Critical Facilities Impacted Yes  No

Frequency of flooding:  
 # of structures inundated  
 Miles inundated?  
 Agricultural Land impacted Yes  No

Notes:

### Study Costs

Total Cost:	\$452,263.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight:	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Drainage Ditch NM-113 Improvements

FME ID: 151000427

### FME Description

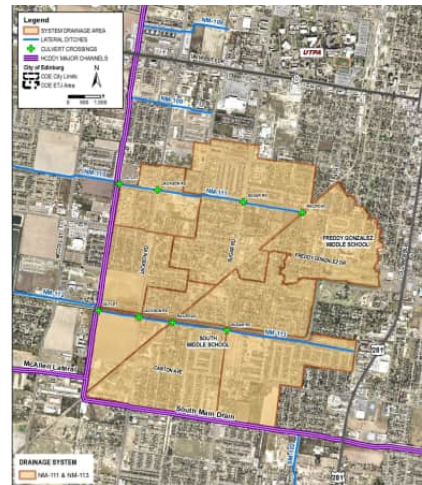
Drainage Ditch NM-113 Improvements

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Edinburg**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding? Yes  No   
 Population at Risk  
 Roadways flooded Yes  No   
 Critical Facilities Impacted Yes  No

Frequency of flooding:  
 # of structures inundated  
 Miles inundated?  
 Agricultural Land impacted Yes  No

Notes:

### Study Costs

Total Cost:	\$143,313.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight:	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Drainage Ditch NM-115 Improvements

FME ID: 151000428

### FME Description

Drainage Ditch NM-115 Improvements

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Edinburg**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$596,720.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## Drainage Ditch NM-116 Improvements

FME ID: 151000429

### FME Description

Drainage Ditch NM-116 Improvements

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Preliminary Engineering

### Study Area

City/ Cities **Edinburg**  
 County/ Counties **Hidalgo**  
 HUC 8  
 HUC 12  
 Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$134,467.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight:	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000430

## Drain A Detention

### FME Description

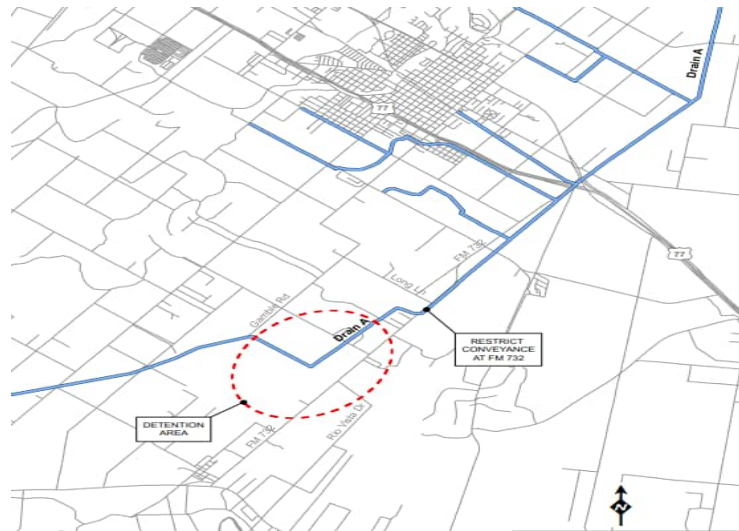
Drain A Detention

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities  
County/ Counties **Cameron**  
HUC 8  
HUC 12  
Study Area (sq. mi.) **1.00**



### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$3,100,000.00	Study Sponsor:	Cameron County Drainage District No. 3
Estimated year to start:	2023	Entity with Oversight	Cameron County Drainage District No. 3
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
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- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
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- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Tier 3 Urban Stormwater Model Development 8: City of San Juan Flood Mitigation Project Development

FME ID: 151000431

### FME Description

Tier 3 Urban Stormwater Model Development 8: City of San Juan Flood Mitigation Project Development

### Study Type

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Flood risk modeling/mapping | <input type="checkbox"/> Alternative Analysis    | <input type="checkbox"/> Flood preparedness studies              |
| <input type="checkbox"/> Flood mitigation study      | <input type="checkbox"/> Feasibility Assessments | <input checked="" type="checkbox"/> Engineering Project Planning |

### Study Area

City/ Cities **San Juan**  
County/ Counties **Hidalgo**  
HUC 8  
HUC 12  
Study Area (sq. mi.) **4.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:		Study Sponsor:	City of San Juan
Estimated year to start:	2023	Entity with Oversight	City of San Juan
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
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- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Starr County Hazard Mitigation Plan Action #18

FME ID: 151000432

### FME Description

Widen Arroyo Los Morenos (Creek) to improve water flow and prevent flooding

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Escobares**

County/ Counties **Starr**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$12,000,000.00	Study Sponsor:	Starr County
Estimated year to start:	2023	Entity with Oversight	Starr County
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Pharr - Pharr Drain Ditch Expansion

FME ID: 151000433

### FME Description

Expand drain ditches throughout the City to increase outfall to the HCDDNo. 1 System

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Pharr**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$11,615,064.00	Study Sponsor:	City of Pharr
Estimated year to start:	2023	Entity with Oversight	City of Pharr
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Donna Irrigation District - FM 1423 Ditch Rehab Project 1

FME ID: 151000434

### FME Description

Improve drainage/irrigation ditch on FM1423 south of Business 83 to improve capacity

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Donna**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$881,047.00	Study Sponsor:	Donna Irrigation District
Estimated year to start:	2023	Entity with Oversight	Donna Irrigation District
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Donna Irrigation District - FM 1423 Ditch Rehab Project 2

FME ID: 151000435

### FME Description

Improve drainage/irrigation ditch on FM1423 between Elm & Pine to improve capacity

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Donna**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$388,318.00	Study Sponsor:	Donna Irrigation District
Estimated year to start:	2023	Entity with Oversight:	Donna Irrigation District
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



FME ID: 151000436

## Drain J01 Improvements

### FME Description

Extension of Ditch J01 west

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$8,610,000.00	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Mercedes Lateral Improvements

FME ID: 151000437

### FME Description

Widening of Mercedes Lateral

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Mercedes**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$7,070,000.00	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Panchitas outfall structure BP 6

FME ID: 151000438

### FME Description

Rehab of the outfall structure, including concrete embankment replacement

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Lyford**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated
Population at Risk		Miles inundated?
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:		

### Study Costs

Total Cost:	\$3,060,000.00	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## Pharr-McAllen Lateral Bond Project 9

FME ID: 151000439

### FME Description

3 miles of channel improvements, widening lateral within existng right of way

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Pharr, McAllen**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$5,660,000.00	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## PSJA Drain Bond Project 16

FME ID: 151000440

### FME Description

2 miles of chanlle improvements includes widening the PSJA Drain within existing Right of Way, from Nolana to I2

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Pharr, San Juan, Alamo**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,090,000.00	Study Sponsor:	Hidalgo County Drainage District No.1
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Drainage District No.1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of La Feria – Holistic HUC Flood Protection Study

FME ID: 151000441

### FME Description

Develop flood risk maps for the City of La Feria and develop CIP.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **La Feria**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of La Feria
Estimated year to start:	2023	Entity with Oversight	City of La Feria
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Elsa – Holistic HUC Flood Protection Study

FME ID: 151000442

### FME Description

Develop flood risk maps for the City of Elsa and develop CIP.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Elsa**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Elsa
Estimated year to start:	2023	Entity with Oversight	City of Elsa
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Donna – Holistic HUC Flood Protection Study

FME ID: 151000443

### FME Description

Develop flood risk maps for the City of Donna and develop CIP.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Donna**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Donna
Estimated year to start:	2023	Entity with Oversight	City of Donna
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Combes – Holistic HUC Flood Protection Study

FME ID: 151000444

### FME Description

Develop flood risk maps for the City of Combes and develop CIP.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Combes**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Combes
Estimated year to start:	2023	Entity with Oversight	City of Combes
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Edinburg – Holistic HUC Flood Protection Study

FME ID: 151000445

### FME Description

Develop flood risk maps for the City of Edinburg and develop CIP.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Edinburg**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Edinburg
Estimated year to start:	2023	Entity with Oversight	City of Edinburg
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Alton – Holistic HUC Flood Protection Study

FME ID: 151000446

### FME Description

Develop flood risk maps for the City of Alton and develop CIP.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Alton**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Alton
Estimated year to start:	2023	Entity with Oversight	City of Alton
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000447

## Cameron County – Holistic HUC Flood Protection Study

### FME Description

Develop flood risk maps for the Cameron County and develop CIP.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	Cameron County
Estimated year to start:	2023	Entity with Oversight	Cameron County
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Weslaco – Holistic HUC Flood Protection Study

FME ID: 151000448

### FME Description

Develop flood risk maps for the City of Weslaco and develop CIP.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Weslaco**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Weslaco
Estimated year to start:	2023	Entity with Oversight	City of Weslaco
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000449

## City of San Benito – Holistic HUC Flood Protection Study

### FME Description

Develop flood risk maps for the San Benito and develop CIP.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **San Benito**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of San Benito
Estimated year to start:	2023	Entity with Oversight	City of San Benito
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of Mission – Holistic HUC Flood Protection Study

FME ID: 151000450

### FME Description

Develop flood risk maps for the Mission and develop CIP.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Mission**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Mission
Estimated year to start:	2023	Entity with Oversight	City of Mission
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000451

## City of Palmhurst – Holistic HUC Flood Protection Study

### FME Description

Develop flood risk maps for the Palmhurst and develop CIP.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Palmhurst**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Palmhurst
Estimated year to start:	2023	Entity with Oversight	City of Palmhurst
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000452

## City of Palmview – Holistic HUC Flood Protection Study

### FME Description

Develop flood risk maps for the Palmview and develop CIP.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Palmview**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Palmview
Estimated year to start:	2023	Entity with Oversight	City of Palmview
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of Primera – Holistic HUC Flood Protection Study

FME ID: 151000453

### FME Description

Develop flood risk maps for the Primera and develop CIP.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Primera**

County/ Counties **Cameron**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Primera
Estimated year to start:	2023	Entity with Oversight	City of Primera
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No



Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000454

## City of Mercedes – Holistic HUC Flood Protection Study

### FME Description

Develop flood risk maps for the City of Mercedes and develop CIP.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Mercedes**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Mercedes
Estimated year to start:	2023	Entity with Oversight	City of Mercedes
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

FME ID: 151000455

## City of Los Fresnos – Holistic HUC Flood Protection Study

### FME Description

Develop flood risk maps for the City of Los Fresnos and develop CIP.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **Los Fresnos**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

### Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of Los Fresnos
Estimated year to start:	2023	Entity with Oversight	City of Los Fresnos
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No

## City of La Villa – Holistic HUC Flood Protection Study

FME ID: 151000456

### FME Description

Develop flood risk maps for the City of La Villa and develop CIP.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **La Villa**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of La Villa
Estimated year to start:	2023	Entity with Oversight	City of La Villa
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No



## City of La Joya – Holistic HUC Flood Protection Study

FME ID: 151000457

### FME Description

Develop flood risk maps for the City of La Joya and develop CIP.

### Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies
- Engineering Project Planning

### Study Area

City/ Cities **La Joya**

County/ Counties **Hidalgo**

HUC 8

HUC 12

Study Area (sq. mi.) **1.00**

### Emergency Need

Yes  No

### Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

### Study Costs

Total Cost:	\$1,500,000.00	Study Sponsor:	City of La Joya
Estimated year to start:	2023	Entity with Oversight	City of La Joya
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

### Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes  No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes  No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes  No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes  No

## Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
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- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

## RFPG Recommended

Yes  No