





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

FMP ID: 153000001

No Structural Projects (Property easement acquisitions,

elevation of structures, flood-proofing, early warn systems)

FMP 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 Trosper 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.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.) ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 **12110207**,

12110208

HUC 12 121102080200,

121102080300

Study Area (sq. mi.) N/A

Jonothia Ave. Campeche Ave. W. Mile 5 R.d. 35 ACRE-FT REQUIRED EXCAVATION Diamond Head Ave. 1 Campeche Ave.

FIF, local

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Critical Facilities Impacted

No □

Notes:

Frequency of flooding:

of structures inundated

of structures inundated

Agricultural Land impacted

Yes □ No □

Agricultural Land impacted

Yes □ No □

Project Costs

Total Cost: \$2,152,656 Study Sponsor: City of Alton

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and nonCost (include in Total above): engineering study costs.

Estimated year to start: Entity with Oversight City of Alton

Time to complete? Included in a Hazard Mitigation Yes ✓ No □

Funding Dedicated? Yes □ No ✓ Action Plan or other plan? (Potential) Source of Funding





Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	 Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	 Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities participating in the National Flood Insurance Program	☐ Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
 ☐ Increase participation in the regional flood planning process ✓ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
☐ Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	 Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	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

FMP ID: 153000002

FMP Description

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

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110209

HUC 12 121102080200,

121102080300

Study Area (sq. mi.) N/A

PROPOSED 54" RCP STORM DRAIN, SIZE MAY CHANGE DEPENDENT ON SIZE OF AMTICIPATED TXDOT SYSTEM ON FM 676. PROPOSED GRATE INLETS PROPOSED GRATE INLETS

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

capital Cost (include in Total

Total Cost: \$387,288 Study Sponsor: City of Alton
Non-reoccurring Non- These are one-time costs for program development, education campaign, and

non-engineering study costs.

above):

Estimated year to start:

Entity with Oversight City of Alton

Time to complete?

Included in a Hazard Mitigation Yes ✓ No □



RFPG Recommended

Yes □ No ✓



Flood Mitigation Project Fact Sheet

Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local Have the flood risk and flood reduction impacts been evaluated? Have the flood risk and flood reduction impacts been evaluated? Yes □ No ✓ Does the project have any negative effects, per TWDB guidelines? Yes □ No □ Unknown 🗸 Does the project have a Benefit Cost Ratio greater than 1? Yes □ No □ Unknown ✓ Does the project reduce flood risk for the 100-Yr flood event? Yes □ No □ Unknown ✓ Does the Project provide a Water Supply Benefit? Yes □ No ✓ Has all the ROW been acquired? Yes □ No □ Will permits or interlocal agreements be needed for this project? Yes 🗆 No 🗆 Related Goals ✓ Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of flood gauges (rainfall/stream) in the Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs Increase the # of entities that integrate National Weather Increase the coverage of available flood hazard data by completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency response program that can detect the flood threat and reuse applications or as part of a floodplain management provide timely warning of impending flood danger program Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future conditions floodplain





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

FMP ID: 153000003

DETENTION POND

No Structural Projects (Property easement acquisitions,

elevation of structures, flood-proofing, early warn systems)

FMP 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.

PROPOSED BERM IMPROVEMENTS

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river Infrastructure
- restorations, etc.)

Project Area

City/ Cities

County/ Counties Hidalgo

> HUC 8 12110207,

> > 12110210

HUC 12 121102080200,

121102080300

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Population at Risk Roadways flooded Miles inundated? Yes ✓ No □ Critical Facilities Impacted Agricultural Land impacted Yes □ No □ Yes 🗆 No □

Yes □ No ✓

Project Costs

Funding Dedicated?

Notes:

Total Cost: \$2,817,936 Study Sponsor: City of Alton Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-Cost (include in Total above): engineering study costs. Estimated year to start: **Entity with Oversight** City of Alton Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan?

(Potential) Source of Funding

FIF, local

1.900 LF)



Yes □ No 🗸



Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts k	peen evaluated?
Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
 Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain 	 Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities participating in the National Flood Insurance Program	☐ Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards 	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use 	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
 available on the website Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations 	 (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





Alton MDP - North Stewart Boulevard Alternative 2

FMP ID: 153000004

FMP Description

Alternative 2 is designed to remove structures from the 10-year floodplain and more frequent storms. This alternative consists of the construction of 6,600 LF of a single 8' X 4' reinforced concrete box sloped at 0.02% from the Val Verde Acres Subdivision to Josefa Garcia Park.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)

No Structural Projects (Property easement acquisitions,

elevation of structures, flood-proofing, early warn systems)

- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

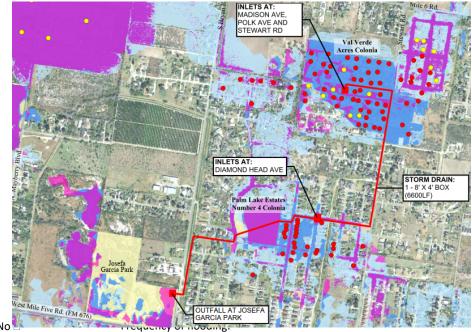
HUC 8 12110207,

12110211

HUC 12 121102080200,

121102080300

Study Area (sq. mi.) 0.38



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

Project Costs

Notes:

Total Cost:	\$8,338,572	Study Sponsor: City of Alton				
Non-reoccurring Non-capital		These are one-time costs for program development, education campaign, and non-				
Cost (include in Total above):		engineering study costs.				
Estimated year to start:	2023	Entity with Oversight City of Alton				
Time to complete?	2025	Included in a Hazard Mitigation Yes ✓ No 🗆				
		Action Plan or other plan?				
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding FIF, local				



Yes □ No 🗸



Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Yes □ No ✓
Yes □ No □ Unknown ✓
Yes □ No □ Unknown ✓
Yes □ No □ Unknown ✓
Yes □ No ✓
Yes □ No □
Yes □ No □
☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Develop and maintain an operational stormwater asset
management plan Increase the # of flood gauges (rainfall/stream) in the region
☐ Increase the # of entities that have multi-year drainage CIP list
 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
 Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Alton MDP - South Stewart Boulevard Alternative 2A

FMP ID: 153000005

FMP Description

740 LF 6' X 4' Reinforced Concrete Box Culvert starting just south of Orange Dr. and Stewart Rd. 70 acres of land acquisition for regional retention. 3.1 Acres of land for channel conveyance.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

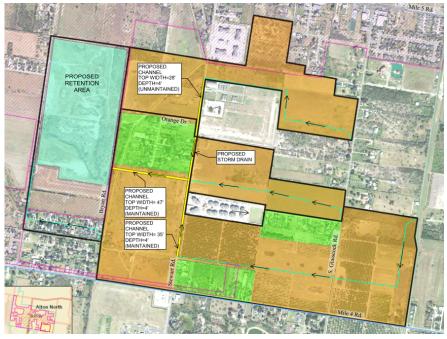
HUC 8 12110207,

12110212

HUC 12 121102080200,

121102080300

Study Area (sq. mi.) 0.81



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$6,296,400 Study Sponsor: City of Alton

Non-reoccurring Noncapital Cost (include in Total above):

Estimated year to start: 2023 Entity with Oversight Time to complete? Study costs.

\$6,296,400 Study Sponsor: City of Alton

These are one-time costs for program development, education campaign, and non-engineering study costs.

City of Alton

City of Alton

Yes ✓ No □





Flood Mitigation Project Fact Sheet

Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local Have the flood risk and flood reduction impacts been evaluated? Have the flood risk and flood reduction impacts been evaluated? Yes □ No □ Unknown ✓ Does the project have any negative effects, per TWDB guidelines? Does the project have a Benefit Cost Ratio greater than 1? Yes □ No □ Unknown ✓ Does the project reduce flood risk for the 100-Yr flood event? Yes □ No □ Unknown ✓ Does the Project provide a Water Supply Benefit? Yes □ No ✓ Has all the ROW been acquired? Yes 🗆 No 🗆 Will permits or interlocal agreements be needed for this project? Yes 🗆 No 🗆 Related Goals Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the region Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs CIP list Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future conditions floodplain RFPG Recommended





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

FMP ID: 15300006

FMP 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.

Project Type

- ☐ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- □ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110213

HUC 12 121102080200,

121102080300

Study Area (sq. mi.) N/A



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$1,663,200 Study Sponsor: City of Alton

Non-reoccurring Noncapital Cost (include in Total above): Study Sponsor: City of Alton

These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight City of Alton Included in a Hazard Mitigation Yes ✓ No □

Estimated year to start: Time to complete?



RFPG Recommended

Yes □ No ✓



Flood Mitigation Project Fact Sheet

Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local Have the flood risk and flood reduction impacts been evaluated? Have the flood risk and flood reduction impacts been evaluated? Yes □ No □ Unknown ✓ Does the project have any negative effects, per TWDB guidelines? Does the project have a Benefit Cost Ratio greater than 1? Yes □ No □ Unknown ✓ Does the project reduce flood risk for the 100-Yr flood event? Yes □ No □ Unknown ✓ Does the Project provide a Water Supply Benefit? Yes □ No ✓ Has all the ROW been acquired? Yes 🗆 No 🗆 Will permits or interlocal agreements be needed for this project? Yes 🗆 No 🗆 Related Goals Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the Flood Insurance Program region Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs CIP list Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future conditions floodplain





Weslaco Stormwater Improvement Plan -South Texas Boulevard and East 18th Street

FMP ID: 153000007

No Structural Projects (Property easement acquisitions,

elevation of structures, flood-proofing, early warn systems)

FMP Description

Construction of a 5 acre detention pond along Texas Boulevard, with approximately 1,400 LF of channel widening along the back of the neighborhood, the replacement of a 30 – inch culvert crossing the irrigation canal with an 8' x 4' RCB, and replacement of a 24 – inch culvert crossing FM 88 with an 8' x 4' RCB.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river Infrastructure restorations, etc.)

Project Area

City/ Cities

County/ Counties Hidalgo

> HUC 8 12110207,

> > 12110214

HUC 12 130800020703,

130800020702

Study Area (sq. mi.)

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? 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 □

Project Costs

Time to complete?

\$1,585,584 **Total Cost:** Study Sponsor: Weslaco Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-Cost (include in Total above): engineering study costs. Estimated year to start: **Entity with Oversight** Weslaco

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

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local







Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
 Increase community access routes to critical facilities, evacuation routes, during and after a flooding event 	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities	 Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards 	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
 □ Increase participation in the regional flood planning process ✓ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide
 Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use 	timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations 	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





Downtown Pharr Mitigation Project

FMP ID: 153000008

FMP Description

Construct 5500-linear feet of channel improvements on the Pharr South Drain downstream of Sam Houston Street to just north of Inspiration Street. Install 7280-linear feet of reinforced concrete box culvert improvements toward the Pharr

South Drain from Egly and North Hibiscus Street. Install curb inlet capture systems approximately every 500-feet to capture local drainage across subdivisions and repave roadways. Construct two (2) Regional Detention Facilities. Facility 1 at North Camelia Street (Max Depth = 5.5-feet) will require 5.5 acre-feet of excavation and is owned by the City of Pharr. Facility 2 at Audrey Street (max Depth = 9.5-feet) will require 42 acre-feet of excavation and will require acquisition.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure, Regional Detention

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 **12110207**,

12110217

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Critical Facilities Impacted

POLK POLK

of structures inundated Miles inundated?

Agricultural Land impacted Yes □ No □

Yes ✓ No 🗆

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □

Population at Risk

Roadways flooded Yes ✓ No □

Yes □ No □

2024

Notes:

Project Costs

Time to complete?

Total Cost: \$45,241,092 Study Sponsor: City of Pharr

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and noncost (include in Total above): engineering study costs.

Estimated year to start: 2022 Entity with Oversight City of Pharr

Action Plan or other plan?

Included in a Hazard Mitigation





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	· ·	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative of	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	: Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
✓ Increase community access rou routes, during and after a flood	tes to critical facilities, evacuation ing event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortune 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities p Insurance Program	oarticipating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FE used to define SFHAs 	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg	. 0.		Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floor 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education municipal floodplain managers, available on the website 	n activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, To billboards to communicate floor 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper			incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			
Yes □ No ✓			





North Pharr Backwater Relief Project

FMP ID: 153000009

FMP Description

Construct 3400-linear feet of channel improvements on the ditch running from south to north along North Fir Street and 2800-linear feet of channel improvements on the Pharr-McAllen Lateral Ditch up to North I road. Install culvert improvements, 2-8' X 4' RCB, alongside the ditch running parallel to Fir Street at crossings of W. Sioux Road and at connection to outfall of maintained ditch to the Pharr-McAllen Lateral System. Extend existing culverts at crossings. Repave W. Sioux Road.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

> HUC 8 12110207,

> > 12110220

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A



Emergency Need

Yes ✓ No□

Known Flood Risk

History of Flooding? No □ Population at Risk

Roadways flooded No □ Yes ✓

Critical Facilities Impacted Yes □ No □ Notes:

Miles inundated?

Agricultural Land impacted Yes □ No □

Project Costs

Total Cost: \$1,628,000 Study Sponsor: City of Pharr These are one-time costs for program development, education campaign, and non-Non-reoccurring Non-capital Cost (include in Total above): engineering study costs. City of Pharr Estimated year to start: 2022 **Entity with Oversight**

2024 Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan?

Funding Dedicated? (Potential) Source of Funding FIF, local Yes □ No ✓





Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	 Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards 	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use 	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website	(CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations 	 Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





North Pharr Culvert Improvements

FMP ID: 153000010

FMP Description

Install culvert improvements, 2-10X10 RCB, alongside the ditch running parallel to N. Erika Street at crossings of W. Sioux Road and at connection to outfall of maintained ditch to the Pharr-McAllen Lateral System. Repave W. Sioux Road.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- □ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110221

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

SH 495

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$869,000 Study Sponsor: City of Pharr
Non-reoccurring Non- These are one-time costs for program development, education campaign, and

capital Cost (include in Total non-engineering study costs.

above):

Estimated year to start: 2022 Entity with Oversight City of Pharr Time to complete? 2024 Included in a Hazard Mitigation Yes ✓ No □





Flood Mitigation Project Fact Sheet

Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local Have the flood risk and flood reduction impacts been evaluated? Have the flood risk and flood reduction impacts been evaluated? Yes □ No □ Unknown ✓ Does the project have any negative effects, per TWDB guidelines? Does the project have a Benefit Cost Ratio greater than 1? Yes □ No □ Unknown ✓ Does the project reduce flood risk for the 100-Yr flood event? Yes □ No □ Unknown ✓ Does the Project provide a Water Supply Benefit? Yes □ No ✓ Has all the ROW been acquired? Yes 🗆 No 🗆 Will permits or interlocal agreements be needed for this project? Yes 🗆 No 🗆 Related Goals Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the region Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs CIP list Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future conditions floodplain RFPG Recommended





North Pharr Mitigation Project

FMP ID: 153000011

FMP Description

Construct 3400-linear feet of channel improvements on the ditch running from south to north along North Fir Street and 2800-linear feet of channel improvements on the Pharr-McAllen Lateral Ditch up to North I road. Install culvert improvements, 2 – 8′ X 4′ RCB, alongside the ditch running parallel to Fir Street at crossings of W. Sioux Road and at connection to outfall of maintained ditch to the Pharr-McAllen Lateral System. Construct an inline Regional Detention Facility (RDF) along the Pharr-McAllen drain within the City Limits of San Juan. The pond will require a footprint of 35-acres.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110222

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

SIOUX B SIOUX A A A B SIOUX A A B SIOUX A B SIOUX A B SIOUX B SIOUX B SIOUX B SIOUX B SIOUX A SIOUX B SIOUX

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No □	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No □	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No □	Agricultural Land impacted	Yes 🗆	No □
Notes:					

Project Costs

Total Cost: \$8,195,000 Study Sponsor: City of Pharr

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and noncost (include in Total above): engineering study costs.

Estimated year to start: 2022 Entity with Oversight City of Pharr

Time to complete? 2024 Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?





Funding Dedicated? Yes	No ✓ (Potential) So	ource of Funding FIF, local
Have the flood risk and flood re	·	
Have the flood risk and flood reduction impacts	s been evaluated?	Yes □ No ✓
Does the project have any negative effects, per	TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio grea	ater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Y	Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benef	ît?	Yes □ No ✓
Has all the ROW been acquired?		Yes □ No □
Will permits or interlocal agreements be neede	ed for this project?	Yes □ No □
Related Goals		
✓ Increase community access routes to critic	cal facilities, evacuation	Increase the # of entities that adopt higher than NFIP-minimum
routes, during and after a flooding event Reduce the # of newly constructed vulnera within the existing and future 100-YR flood		standards Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities participatin Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA Flood I used to define SFHAs 	Insurance Rate Maps	Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available flood has studies with identified construction project hazards 		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
 ☐ Increase participation in the regional floor ✓ Provide regional detention that could be unapplications or as part of a floodplain man 	used for water reuse	Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly protected operisk areas that is reused for a beneficial put 		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities municipal floodplain managers, hosted by available on the website 		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, TV, radio, so billboards to communicate flood warnings shelter locations 		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
Reduce the # of structures that have been flooding events through property buyouts		and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended		
Yes ✓ No 🗆		





Southwest Pharr Drainage Mitigation Project FMP ID: 153000012

FMP Description

Construct four regional detention facilities (RDF). RDF 1 has a footprint of 19.75-acres and is a lateral detention facility located between Dicker and Thomas Road west of Highway 281 and near Carmen Anaya Elementary. RDF 2 has a footprint of 7.4-acres and located in the western section of Jones Box Park. RDF 3 has a footprint of 5.5-acres and located in the central section of Jones Box Park. Redirect flow from the Los Ranchitos Subdivisions via a reconfigured 36" RCP into a pilot channel located in the deepest section of the pond. Install 36"RCP and flap gate at the outfall to prevent backflow from the South Floodwater Channel into the subdivisions north of Jones Box Park. RDF 4 is located between Dicker and Las Milpas Road east of Highway 281, south of the South Floodwater Channel, and will require a footprint of 13.8-acres.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure, Regional Detention

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 **12110207**,

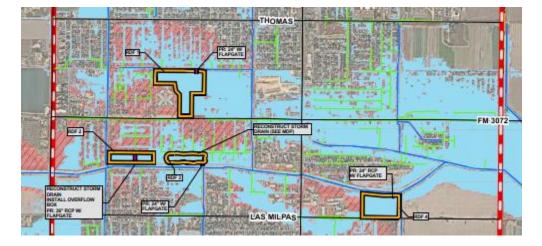
12110227

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) 0.07



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Critical Facilities Impacted

No □

Yes ✓ No □

No □

Agricultural Land impacted

Yes □ No □

Notes:

Project Costs

Total Cost: \$5,587,275 Study Sponsor: City of Pharr Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and nonengineering study costs. Cost (include in Total above): 2022 Estimated year to start: **Entity with Oversight** City of Pharr Time to complete? 2024 Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan?





Funding Dedicated? Yes \(\text{No.} \)	o ✓ (Potential) So	urce of Funding FIF, local
Have the flood risk and flood reduc	•	
Have the flood risk and flood reduction impacts bee		Yes □ No ✓
Does the project have any negative effects, per TWI	DB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater t	han 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flo	ood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?		Yes □ No ✓
Has all the ROW been acquired?		Yes □ No □
Will permits or interlocal agreements be needed for	r this project?	Yes □ No □
Related Goals		
✓ Increase community access routes to critical fa routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable within the existing and future 100-YR floodplai	critical facilities	Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities participating in the Insurance Program		Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA Flood Insur- used to define SFHAs 	ance Rate Maps	Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available flood hazard studies with identified construction projects to hazards 	address flooding	Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood plar ✓ Provide regional detention that could be used to applications or as part of a floodplain managen	nning process for water reuse ment program	Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open sp risk areas that is reused for a beneficial public to		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, spe municipal floodplain managers, hosted by Regi available on the website 	on 15 RFPG and	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, TV, radio, social r billboards to communicate flood warnings, eva shelter locations 	media, and $\hfill\Box$ acuation routes, and	Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
Reduce the # of structures that have been subj flooding events through property buyouts	ject to repeated	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended		
Yes ✓ No 🗆		





Pharr - San Juan Regional Detention Facility FMP ID: 153000013

FMP Description

Construct an inline Regional Detention Facility (RDF) along the Pharr-McAllen drain within the City Limits of San Juan. The pond will require a footprint of 35 acres, 300 acre-feet of storage volume, have a maximum depth of approximately of 14 feet, and require some property acquisition.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Regional Detention

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110224

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓	No 🗆	Frequency of flooding:		
Population at Risk			# of structures inundated		
Roadways flooded	Yes ✓	No □	Miles inundated?		
Critical Facilities Impacted	Yes 🗆	No □	Agricultural Land impacted	Yes 🗆	No □
Notes:					

Yes □ No ✓

Project Costs

Funding Dedicated?

Total Cost:	\$5,148,000	Study Sponsor:	City of Pharr
Non-reoccurring Non-capital	7	These are one-time costs for program de	evelopment, education campaign, and non-
Cost (include in Total above):	ϵ	engineering study costs.	
Estimated year to start:	2022	Entity with Oversight	City of Pharr
Time to complete?	2024	Included in a Hazard Mitigation	Yes ✓ No 🗆
		Action Plan or other plan?	

(Potential) Source of Funding FIF, local





Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown 🗸
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities	Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	$\hfill \square$ Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards 	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
 available on the website Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations 	 (CFM) with the Texas Floodplain Management Association □ Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





Weslaco Stormwater Improvement Plan - Pleasantview Drive and 11th Street

FMP ID: 153000014

FMP Description

Installation of 3,220 LF of new storm drain system consisting of two – 8' x 4' RCBs along Mile 3 1/2.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure, Regional Detention

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110228

HUC 12 121102080100,

121102080300

Study Area (sq. mi.) N/A



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$4,775,000 Study Sponsor: City of Weslaco

Non-reoccurring Noncapital Cost (include in Total above): \$4,775,000 Study Sponsor: City of Weslaco

These are one-time costs for program development, education campaign, and non-engineering study costs.

Estimated year to start: Entity with Oversight City of Weslaco Time to complete? Included in a Hazard Mitigation Yes No





Flood Mitigation Project Fact Sheet

Action Plan or other plan? Funding Dedicated? (Potential) Source of Funding FIF, local Yes 🗆 No 🗆 Have the flood risk and flood reduction impacts been evaluated? Have the flood risk and flood reduction impacts been evaluated? Yes □ No ✓ Does the project have any negative effects, per TWDB guidelines? Yes □ No □ Unknown 🗸 Does the project have a Benefit Cost Ratio greater than 1? Yes □ No □ Unknown ✓ Does the project reduce flood risk for the 100-Yr flood event? Yes □ No □ Unknown ✓ Does the Project provide a Water Supply Benefit? Yes □ No ✓ Has all the ROW been acquired? Yes □ No □ Will permits or interlocal agreements be needed for this project? Yes 🗆 No 🗆 Related Goals Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the Flood Insurance Program region Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage CIP list Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and provide timely warning of impending flood danger program Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future conditions floodplain RFPG Recommended





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

FMP ID: 153000015

FMP 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.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

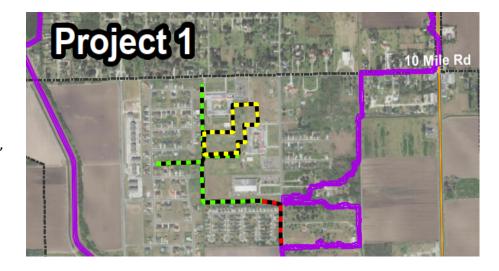
HUC 8 12110207,

12110230

HUC 12 121102080100,

121102080300

Study Area (sq. mi.) N/A



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Critical Facilities Impacted

Notes:

Yes ✓ No□

Frequency of flooding:

of structures inundated

Miles inundated?

Agricultural Land impacted

Yes □ No□

Notes:

Project Costs

Total Cost: \$4,441,008 Study Sponsor: City of Weslaco

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and nonCost (include in Total above): engineering study costs.

Estimated year to start: Entity with Oversight City of Weslaco

Time to complete? Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local





Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
 Increase community access routes to critical facilities, evacuation routes, during and after a flooding event 	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	 Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities participating in the National Flood Insurance Program	☐ Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards 	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
 □ Increase participation in the regional flood planning process ✓ Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use 	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	 (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
 Reduce the # of structures that have been subject to repeated flooding events through property buyouts 	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





Weslaco Stormwater Improvement Plan - South International Boulevard and Business 83

FMP ID: 153000016

FMP Description

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

Project Type

- ☐ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110231

HUC 12 121102080100,

121102080300

Study Area (sq. mi.) N/A

Profect 7

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

above):

Project Costs

Total Cost: \$93,808 Study Sponsor: City of Weslaco

Non-reoccurring Non- These are one-time costs for program development, education campaign, and capital Cost (include in Total non-engineering study costs.

Estimated year to start: Entity with Oversight City of Weslaco Time to complete? Included in a Hazard Mitigation Yes ✓ No □





Flood Mitigation Project Fact Sheet

Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local Have the flood risk and flood reduction impacts been evaluated? Have the flood risk and flood reduction impacts been evaluated? Yes □ No ✓ Does the project have any negative effects, per TWDB guidelines? Yes □ No □ Unknown 🗸 Does the project have a Benefit Cost Ratio greater than 1? Yes □ No □ Unknown ✓ Does the project reduce flood risk for the 100-Yr flood event? Yes □ No □ Unknown ✓ Does the Project provide a Water Supply Benefit? Yes □ No ✓ Has all the ROW been acquired? Yes □ No □ Will permits or interlocal agreements be needed for this project? Yes 🗆 No 🗆 Related Goals Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the Flood Insurance Program region Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage CIP list Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and provide timely warning of impending flood danger program Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future conditions floodplain RFPG Recommended





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

FMP ID: 153000017

No Structural Projects (Property easement acquisitions,

elevation of structures, flood-proofing, early warn systems)

FMP Description

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

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river
- restorations, etc.)

Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

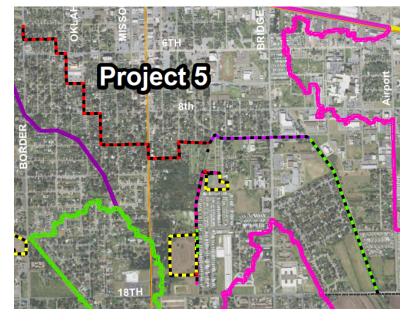
> HUC 8 12110207,

> > 12110232

HUC 12 121102080100,

121102080300

Study Area (sq. mi.) N/A



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✓ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Project Costs

Total Cost: \$43,984,512 Study Sponsor: City of Weslaco Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-Cost (include in Total above): engineering study costs. Estimated year to start: Entity with Oversight City of Weslaco Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local



Yes □ No 🗸



Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

re the flood risk and flood reduction impacts been evaluated?		Yes □ No ✓
es the project have any negative effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
es the project have a Benefit Cost Ratio greater than 1?		Yes □ No □ Unknown ✓
es the project reduce flood risk for the 100-Yr flood event?		Yes □ No □ Unknown ✓
es the Project provide a Water Supply Benefit?		Yes □ No ✓
all the ROW been acquired?		Yes □ No □
permits or interlocal agreements be needed for this project?		Yes □ No □
ated Goals		
Increase community access routes to critical facilities, evacuation routes, during and after a flooding event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities		Develop and maintain an operational stormwater asset
Increase the # of communities participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs		Increase the # of entities that have multi-year drainage CIP list
Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
Increase participation in the regional flood planning process		Increase use of nature-based flood risk reduction projects
Provide regional detention that could be used for water reuse applications or as part of a floodplain management program		Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CEM) with the Toyas Floodplain Management Association
Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and		(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that have been subject to repeated flooding events through property buyouts		incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
	es the project have any negative effects, per TWDB guidelines? es the project have a Benefit Cost Ratio greater than 1? es the project reduce flood risk for the 100-Yr flood event? es the Project provide a Water Supply Benefit? all the ROW been acquired? permits or interlocal agreements be needed for this project? ated Goals Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated	es the project have any negative effects, per TWDB guidelines? es the project have a Benefit Cost Ratio greater than 1? es the project reduce flood risk for the 100-Yr flood event? es the Project provide a Water Supply Benefit? all the ROW been acquired? permits or interlocal agreements be needed for this project? ated Goals Increase community access routes to critical facilities, evacuation routes, during and after a flooding event Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards Increase participation in the regional flood planning process Provide regional detention that could be used for water reuse applications or as part of a floodplain management program Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations Reduce the # of structures that have been subject to repeated





Weslaco Stormwater Improvement Plan - West Weslaco

FMP ID: 153000018

No Structural Projects (Property easement acquisitions,

elevation of structures, flood-proofing, early warn systems)

FMP Description

The project 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.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river Infrastructure
- restorations, etc.)

Project Area

City/ Cities

County/ Counties Hidalgo

> HUC 8 12110207,

> > 12110233

HUC 12 121102080100,

121102080300

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Population at Risk

Roadways flooded No □

Critical Facilities Impacted Notes:

No 🗆

Yes □ No □

of structures inundated

Agricultural Land impacted

Miles inundated?

Frequency or 1100aing

Yes □ No □

Project Costs

\$37,305,840 Total Cost: Study Sponsor: City of Weslaco

These are one-time costs for program development, education campaign, and nonengineering study costs.

Entity with Oversight City of Weslaco Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan?

(Potential) Source of Funding FIF, local

Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete?

Funding Dedicated? Yes □ No ✓





Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	 Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards 	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use 	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website Increase the use reverse 911, TV, radio, social media, and	(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
 Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations 	encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





Weslaco Stormwater Improvement Plan - Westgate Drive and Sugar Cane Drive

FMP ID: 153000019

FMP 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.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110234

HUC 12 121102080100,

121102080300

Study Area (sq. mi.) N/A



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Critical Facilities Impacted

Notes:

Yes ✓ No□

Frequency of flooding:

of structures inundated

Miles inundated?

Agricultural Land impacted

Yes □ No□

Notes:

Project Costs

Total Cost: \$11,099,088 Study Sponsor: City of Weslaco

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and nonCost (include in Total above): engineering study costs.

Estimated year to start: Entity with Oversight City of Weslaco

Time to complete? Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local





Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	 Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards 	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use 	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website Increase the use reverse 911, TV, radio, social media, and	(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
 Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations 	encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





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

FMP ID: 153000020

FMP 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.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110279

HUC 12 **121102080400**,

121102070100,

121102080200

Study Area (sq. mi.) N/A



Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Critical Facilities Impacted

Notes:

Frequency of flooding:

of structures inundated

Miles inundated?

Agricultural Land impacted

Yes □ No □

Agricultural Land impacted

Yes □ No □

Project Costs

Total Cost: \$19,899,000 Study Sponsor: Hidalgo County Precinct 4 Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-Cost (include in Total above): engineering study costs. Estimated year to start: Entity with Oversight Hidalgo County Precinct 4 Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan? Yes □ No ✓ (Potential) Source of Funding Funding Dedicated? FIF, local





Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Yes □ No ✓
Yes □ No □ Unknown ✓
Yes □ No □ Unknown ✓
Yes □ No □ Unknown ✓
Yes □ No ✓
Yes □ No □
Yes □ No □
☐ Increase the # of entities that adopt higher than NFIP-minimum standards
Develop and maintain an operational stormwater asset
management plan Increase the # of flood gauges (rainfall/stream) in the region
☐ Increase the # of entities that have multi-year drainage CIP list
 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase use of nature-based flood risk reduction projects
 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
(CFM) with the Texas Floodplain Management Association ☐ Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





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

FMP ID: 153000021

No Structural Projects (Property easement acquisitions,

elevation of structures, flood-proofing, early warn systems)

FMP 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.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.) ✓ Infrastructure
- Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110280

HUC 12 121102080400,

121102070100,

121102080200,

121102080200

Study Area (sq. mi.) N/A

PR: Inline Deterriors Pond. Approximate S acres (105 Acres) PR: Inline Deterriors Pond. Approximate S acres (105 Acres) PR: Inline Deterriors Pond. Approximate S acres (105 Acres) PR: Inline Deterriors Pond. Approximate S acres (105 Acres) PR: Inline Deterriors Pond. Approximate S acres (105 Acres) PR: Sys R CB acres PR: Inline Deterriors Pond. Approximate S acres (105 Acres) PR: Sys R CB acres PR: Inline Deterriors Pond. Approximate S acres (105 Acres) PR: Sys R CB acres PR: Sys R CB acres

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Time to complete?

Total Cost: \$27,175,500 Study Sponsor: Hidalgo County Precinct 4

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-cost (include in Total above): engineering study costs.

Estimated year to start: Entity with Oversight Hidalgo County Precinct 4

Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and flo	•	bee	
Have the flood risk and flood reduction	impacts been evaluated?		Yes □ No ✓
Does the project have any negative eff	ects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ra	atio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk for t	he 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Supp	ly Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreements b	oe needed for this project?		Yes □ No □
Related Goals			
✓ Increase community access routes routes, during and after a flooding			Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed			Develop and maintain an operational stormwater asset
within the existing and future 100 Increase the # of communities par Insurance Program			management plan Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA used to define SFHAs 	A Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available studies with identified construction hazards 			Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regio			Increase use of nature-based flood risk reduction projects
 Provide regional detention that co applications or as part of a floodp 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prote risk areas that is reused for a bene 			Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education a municipal floodplain managers, he available on the website 			Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
☐ Increase the use reverse 911, TV, billboards to communicate flood v			Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that ha flooding events through property			incorporate dedicated 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

FMP ID: 153000022

FMP 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.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 **12110207**,

12110281

HUC 12 121102080400,

121102070100,

121102080200,

121102080200

Study Area (sq. mi.) N/A

HCDDI Proposed Border Town Subdivision J-14 Drain System Improvements (Details Provided) PR. 6'xtf RCB Under Crossing with Mile 21.5 N (PM 2812) Waters \$15 PR. 45' DIA RCP with Connection to J-01 Drain PR. 45' DIA RCP Drain PR. 45' DIA RCP with Connection to DA-1 Extension Drain PR. 36' DIA RCP With Connection to DA-1 Extension Drain PR. 36' DIA RCP With Connection to DA-1 Extension Drain PR. 18' DIA RCP Drain PR. 36' DIA RCP With Connection to DA-1 Extension Drain PR. 18' DIA RCP With Connec

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Critical Facilities Impacted

No □

Yes ✓ No □

No □

Agricultural Land impacted

Yes □ No □

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: \$7, 887,000 Study Sponsor: Hidalgo County Precinct 4

These are one-time costs for program development, education campaign, and nonengineering study costs.

Entity with Oversight Hidalgo County Precinct 4





Time to complete?	–	Action Pla	lazard Mitigation an or other plan?	Yes ✓ No □	
Funding Dedicated?	Yes □ No ✓	(Potential) S	ource of Funding	FIF, local	
Have the flood risk ar	nd flood reduction im	pacts bee	n evaluated	?	
Have the flood risk and flood re	eduction impacts been evaluated	d?	Yes □ No ✓		
Does the project have any nega	ative effects, per TWDB guidelin	es?	Yes □ No □	Unknown ✓	
Does the project have a Benefit	Cost Ratio greater than 1?		Yes □ No □	Unknown ✓	
Does the project reduce flood r	isk for the 100-Yr flood event?		Yes □ No □	Unknown ✓	
Does the Project provide a Wat	er Supply Benefit?		Yes □ No ✓		
Has all the ROW been acquired	?		Yes □ No □		
Will permits or interlocal agree	ments be needed for this projec	ct?	Yes □ No □		
Related Goals					
	s routes to critical facilities, eva	cuation \square	Increase the # of	f entities that adopt higher than NFIP-minimu	n
routes, during and after a	flooding event		standards		
 Reduce the # of newly con within the existing and fut 	structed vulnerable critical facil	ities \square	management pla	intain an operational stormwater asset	
☐ Increase the # of commun	ities participating in the Nationa	al Flood		f flood gauges (rainfall/stream) in the region	
Insurance Program ☐ Decrease the average age	of FEMA Flood Insurance Rate N	Maps □	Increase the # of	f entities that have multi-year drainage CIP list	
used to define SFHAs				,	
_	vailable flood hazard data by co			f entities that integrate National Weather	
studies with identified con hazards	struction projects to address flo	ooding		S Texas Water Science Center (TXWSC) flood information into their local capabilities to	
			disseminate war		
	ne regional flood planning proce			nature-based flood risk reduction projects	
_	n that could be used for water re n floodplain management progra			nally coordinated warning and emergency m that can detect the flood threat and provide	۵
applications of as part of a	Hoodplain management progra	3111		of impending flood danger	-
	ly protected open space in critic	al flood	Increase the amo	ount of publicly owned land in the region that	
risk areas that is reused fo	r a beneficial public use Ication activities, specifically tar	goting -		or future regional stormwater infrastructure	
	agers, hosted by Region 15 RFPG			ficiency of floodplain managers by increasing at are certified as Certified Floodplain Manage	ers
available on the website	.6, ,6			Exas Floodplain Management Association	
	11, TV, radio, social media, and			pation in the Community Rating System by	
shelter locations	e flood warnings, evacuation rou	ites, and		tion 15 floodplain management programs to icated drainage fees to implement future FME	c
	that have been subject to repe	ated		porate noncompliance penalties; and who	3
flooding events through p			regulate develor	oment in the future conditions floodplain	
RFPG Recommended					
Yes □ No ✓					





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

FMP ID: 153000023

No Structural Projects (Property easement acquisitions,

elevation of structures, flood-proofing, early warn systems)

FMP 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.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - ✓ Infrastructure
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110282

HUC 12 121102080400,

121102070100,

121102080200,

121102080200

Study Area (sq. mi.) N/A

Emergency Need

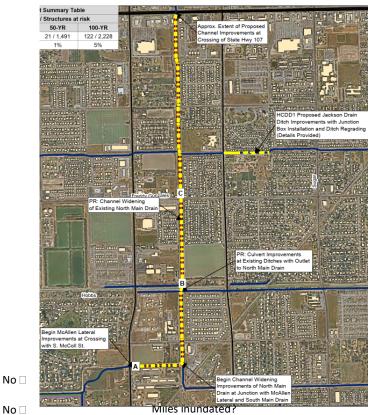
Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes \checkmark No \square Population at Risk

Roadways flooded Yes ✓ No ☐
Critical Facilities Impacted Yes ☐ No ☐

Notes:



Agricultural Land impacted Yes □ No □

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? \$6,358,000 Study Sponsor: Hidalgo County Precinct 4

These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Precinct 4 Included in a Hazard Mitigation Yes \checkmark No \square

Page 1 of 2





Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local Have the flood risk and flood reduction impacts been evaluated? Have the flood risk and flood reduction impacts been evaluated? Yes □ No ✓ Does the project have any negative effects, per TWDB guidelines? Yes □ No □ Unknown ✓ Does the project have a Benefit Cost Ratio greater than 1? Yes □ No □ Unknown ✓ Does the project reduce flood risk for the 100-Yr flood event? Yes □ No □ Unknown ✓ Does the Project provide a Water Supply Benefit? Yes □ No ✓ Has all the ROW been acquired? Yes □ No □ Will permits or interlocal agreements be needed for this project? Yes □ No □ Related Goals ✓ Increase community access routes to critical facilities, evacuation Increase the # of entities that adopt higher than NFIP-minimum routes, during and after a flooding event standards Reduce the # of newly constructed vulnerable critical facilities Develop and maintain an operational stormwater asset within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Flood Increase the # of flood gauges (rainfall/stream) in the region Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps Increase the # of entities that have multi-year drainage CIP list used to define SFHAs Increase the coverage of available flood hazard data by completing Increase the # of entities that integrate National Weather studies with identified construction projects to address flooding Service and USGS Texas Water Science Center (TXWSC) flood hazards warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water reuse Develop a regionally coordinated warning and emergency applications or as part of a floodplain management program response program that can detect the flood threat and provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical flood Increase the amount of publicly owned land in the region that risk areas that is reused for a beneficial public use can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically targeting Increase the proficiency of floodplain managers by increasing municipal floodplain managers, hosted by Region 15 RFPG and the # of them that are certified as Certified Floodplain Managers available on the website (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation routes, and encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs Reduce the # of structures that have been subject to repeated and FMPs; incorporate noncompliance penalties; and who flooding events through property buyouts regulate development in the future conditions floodplain RFPG Recommended Yes □ No ✓





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

FMP ID: 153000024

No Structural Projects (Property easement acquisitions,

elevation of structures, flood-proofing, early warn systems)

FMP 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.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river Infrastructure restorations, etc.)
- Project Area

City/ Cities

Hidalgo County/ Counties

> HUC 8 12110207,

> > 12110283

HUC 12 121102080400,

121102070100,

121102080200,

121102080200

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Population at Risk

Roadways flooded Yes ✓

Critical Facilities Impacted Notes:

of structures inundated

No □ Miles inundated? Yes □ No □

Agricultural Land impacted Yes □ No □

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete?

\$4,983,000

Study Sponsor: Hidalgo County Precinct 4

These are one-time costs for program development, education campaign, and nonengineering study costs.

Entity with Oversight Hidalgo County Precinct 4 Included in a Hazard Mitigation Yes ✓ No 🗆

ts connecting of Existing





Flood Mitigation Project Fact Sheet

Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local Have the flood risk and flood reduction impacts been evaluated? Have the flood risk and flood reduction impacts been evaluated? Yes □ No ✓ Does the project have any negative effects, per TWDB guidelines? Yes □ No □ Unknown ✓ Does the project have a Benefit Cost Ratio greater than 1? Yes □ No □ Unknown ✓ Does the project reduce flood risk for the 100-Yr flood event? Yes □ No □ Unknown ✓ Does the Project provide a Water Supply Benefit? Yes □ No ✓ Has all the ROW been acquired? Yes □ No □ Will permits or interlocal agreements be needed for this project? Yes □ No □ Related Goals ✓ Increase community access routes to critical facilities, evacuation Increase the # of entities that adopt higher than NFIP-minimum routes, during and after a flooding event standards Reduce the # of newly constructed vulnerable critical facilities Develop and maintain an operational stormwater asset within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Flood Increase the # of flood gauges (rainfall/stream) in the region Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps Increase the # of entities that have multi-year drainage CIP list used to define SFHAs Increase the coverage of available flood hazard data by completing Increase the # of entities that integrate National Weather studies with identified construction projects to address flooding Service and USGS Texas Water Science Center (TXWSC) flood hazards warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water reuse Develop a regionally coordinated warning and emergency applications or as part of a floodplain management program response program that can detect the flood threat and provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical flood Increase the amount of publicly owned land in the region that risk areas that is reused for a beneficial public use can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically targeting Increase the proficiency of floodplain managers by increasing municipal floodplain managers, hosted by Region 15 RFPG and the # of them that are certified as Certified Floodplain Managers available on the website (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation routes, and encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs Reduce the # of structures that have been subject to repeated and FMPs; incorporate noncompliance penalties; and who flooding events through property buyouts regulate development in the future conditions floodplain RFPG Recommended





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

FMP ID: 153000025

No Structural Projects (Property easement acquisitions,

elevation of structures, flood-proofing, early warn systems)

FMP 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.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.) ✓ Infrastructure
- Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 **12110207**,

12110284

HUC 12 121102080400,

121102070100,

121102080200,

121102080200

Study Area (sq. mi.) N/A

HCDD1 Cesar Chavez Drainage Improvements (Schematics Provided) PR: 4'x3' RCB Connection to Existing Easements with Connection to Existing Edinburg Stub PR: 4'x3' RCB Connection to Proposed Open Channel PR: 4'x3' RCB Connection to Proposed Open Channel PR: 4'x3' RCB Connection to Existing HCDD1 Edinburg Stub PR: 35' DIA RCP for Conveying Local Drainage to Existing HCDD1 Edinburg Stub PR: 36' DIA RCP with Connection to HCDD1 Edinburg Stub PR: 36' DIA RCP with Connection to HCDD1 Edinburg Stub PR: 36' DIA RCP with Connection to HCDD1 Edinburg Stub PR: 36' DIA RCP with Connection to HCDD1 Edinburg Stub PR: 36' DIA RCP with Connection to HCDD1 Edinburg Stub

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Critical Facilities Impacted

No □

Yes ✓ No □

No □

Agricultural Land impacted

Yes □ No □

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: \$7,920,000 Study Sponsor: Hidalgo County Precinct 4

These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Precinct 4





Time to complete? Funding Dedicated?	Yes □ No ✓	Action Pl	Hazard Mitigation an or other plan? Source of Funding	Yes ✓ No □ FIF, local	
runding Dedicated:	res 🗆 No 🕶	(Fotential) 3	odice of Fullding	FIF, local	
Have the flood risk and	I flood reduction in	mpacts bee	n evaluated	?	
Have the flood risk and flood red	uction impacts been evaluat	ed?	Yes □ No 🗸		
Does the project have any negative	ve effects, per TWDB guidel	nes?	Yes □ No □	Unknown ✓	
Does the project have a Benefit C	ost Ratio greater than 1?		Yes □ No □	Unknown ✓	
Does the project reduce flood risk	k for the 100-Yr flood event	•	Yes □ No □	Unknown ✓	
Does the Project provide a Water	Supply Benefit?		Yes □ No ✓		
Has all the ROW been acquired?			Yes □ No □		
Will permits or interlocal agreem	ents be needed for this proj	ect?	Yes □ No □		
Related Goals					
✓ Increase community access i		acuation \square		f entities that adopt higher than NFIP-minimu	ım
routes, during and after a flo Reduce the # of newly const	_	cilities 🗆	standards Develop and ma	intain an operational stormwater asset	
within the existing and futur			management pla		
 Increase the # of communities Insurance Program 	es participating in the Natio	nal Flood 🗆	Increase the # of	f flood gauges (rainfall/stream) in the region	
 Decrease the average age of used to define SFHAs 	FEMA Flood Insurance Rate	Maps	Increase the # of	f entities that have multi-year drainage CIP lis	it
☐ Increase the coverage of ava				f entities that integrate National Weather	
studies with identified const hazards	ruction projects to address	looding		S Texas Water Science Center (TXWSC) flood information into their local capabilities to mings	
☐ Increase participation in the			Increase use of r	nature-based flood risk reduction projects	
 Provide regional detention t applications or as part of a fl 			response progra	nally coordinated warning and emergency m that can detect the flood threat and provid of impending flood danger	le
☐ Increase acreage of publicly		ical flood 🗆	Increase the amo	ount of publicly owned land in the region that	t
risk areas that is reused for a		argeting \square		or future regional stormwater infrastructure ficiency of floodplain managers by increasing	,
municipal floodplain manage				at are certified as Certified Floodplain Manag	
available on the website	TV madia assistmendia am	J	•	Texas Floodplain Management Association	
 Increase the use reverse 911 billboards to communicate f 				pation in the Community Rating System by gion 15 floodplain management programs to	
shelter locations	-		incorporate ded	icated drainage fees to implement future FMI	Es
 Reduce the # of structures the flooding events through pro 		eated		porate noncompliance penalties; and who present in the future conditions floodplain	
RFPG Recommended	· · · · ·		,	·	
Yes □ No ✓					





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

FMP ID: 153000026

No Structural Projects (Property easement acquisitions,

elevation of structures, flood-proofing, early warn systems)

FMP 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

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - ✓ Infrastructure
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110285

HUC 12 121102080400,

121102070100,

121102080200,

121102080200

Study Area (sq. mi.) N/A

PR: Detention Pond (Approx. 10 Acre/ 75 Acre-ft) PR: Open Channel Along PR: Detention Pond (Approx. 5 Acre/ 35 Acre-ft) PR: Open Channel Along County Road 3421 PR: 36" DIA RCP to Convey Local Drainage to Proposed Detention Pond PR: 36" DIA RCP to Convey Local Drainage to Proposed Detention Pond PR: 36" DIA RCP to Convey Local Drainage to Proposed Detention Pond PR: 36" DIA RCP to Convey Local Drainage to Proposed Detention Pond PR: 36" DIA RCP to Convey Local Drainage to Proposed Detention Pond and Channel PR: 36" DIA RCP to Convey Local Drainage to Proposed Detention Pond and Channel PR: 36" DIA RCP to Convey Local Drainage to Proposed Detention Pond and Channel PR: 56" DIA RCP to Convey Local Drainage to Proposed Detention Pond and Channel PR: 56" DIA RCP to Convey Local Drainage to Proposed Detention Pond and Channel PR: 56" DIA RCP to Convey Local Drainage to Proposed Detention Pond and Channel PR: 56" DIA RCP to Convey Local Drainage to Proposed Detention Pond and Channel PR: 56" DIA RCP to Convey Local Drainage to Proposed Detention Pond and Channel PR: 56" DIA RCP to Convey Local Drainage to Proposed Detention Pond and Channel PR: 56" DIA RCP to Convey Local Drainage to Proposed Detention Pond and Channel PR: 56" DIA RCP to Convey Local Drainage to Proposed Detention Pond and Channel PR: 56" DIA RCP to Convey Local Drainage to Proposed Detention Pond and Channel PR: 56" DIA RCP to Convey Local Drainage to Proposed Detention Pond and Channel PR: 56" DIA RCP to Convey Local Drainage to Proposed Detention Pond and Channel PR: 56" DIA RCP to Convey Local Drainage to Proposed Detention Pond and Channel PR: 56" DIA RCP to Convey Local Drainage to Proposed Detention Pond and Channel PR: 56" DIA RCP to Convey Local Drainage to Proposed Detention Pond and Channel Drainage to Proposed Detention Pond and Channel Drainage to Proposed Detention Pond and Channel Drainage to Proposed Drainage to Proposed Drainage to Proposed Drainage to Proposed

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Total Cost: \$6,061,000 Study Sponsor: Hidalgo County Precinct 4

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and noncost (include in Total above): engineering study costs.

Estimated year to start: Entity with Oversight Hidalgo County Precinct 4

Entity with Oversight Hidalgo County Precinct 4 Included in a Hazard Mitigation Yes \checkmark No \Box

Yes □ No □

Time to complete?





Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local Have the flood risk and flood reduction impacts been evaluated? Have the flood risk and flood reduction impacts been evaluated? Yes □ No ✓ Does the project have any negative effects, per TWDB guidelines? Yes □ No □ Unknown ✓ Does the project have a Benefit Cost Ratio greater than 1? Yes □ No □ Unknown ✓ Does the project reduce flood risk for the 100-Yr flood event? Yes □ No □ Unknown ✓ Does the Project provide a Water Supply Benefit? Yes □ No ✓ Has all the ROW been acquired? Yes □ No □ Will permits or interlocal agreements be needed for this project? Yes □ No □ Related Goals ✓ Increase community access routes to critical facilities, evacuation Increase the # of entities that adopt higher than NFIP-minimum routes, during and after a flooding event standards Reduce the # of newly constructed vulnerable critical facilities Develop and maintain an operational stormwater asset within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Flood Increase the # of flood gauges (rainfall/stream) in the region Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps Increase the # of entities that have multi-year drainage CIP list used to define SFHAs Increase the coverage of available flood hazard data by completing Increase the # of entities that integrate National Weather studies with identified construction projects to address flooding Service and USGS Texas Water Science Center (TXWSC) flood hazards warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water reuse Develop a regionally coordinated warning and emergency applications or as part of a floodplain management program response program that can detect the flood threat and provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical flood Increase the amount of publicly owned land in the region that risk areas that is reused for a beneficial public use can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically targeting Increase the proficiency of floodplain managers by increasing municipal floodplain managers, hosted by Region 15 RFPG and the # of them that are certified as Certified Floodplain Managers available on the website (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation routes, and encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs Reduce the # of structures that have been subject to repeated and FMPs; incorporate noncompliance penalties; and who flooding events through property buyouts regulate development in the future conditions floodplain RFPG Recommended Yes □ No ✓





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

FMP ID: 153000027

FMP 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.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 **12110207**,

12110286

HUC 12 121102080400,

121102070100,

121102080200,

121102080200

Study Area (sq. mi.) N/A

PR. 2xx RCB with Sag Inlets North of Mile 10 PR. 3er RCP with Outfall at RCDD1 North Main Drain (3' Fisposte Installed) PR. Detertion Pond Approx. 4 acres/16 Acre-ft.) PR. Detertion Pond Approx. 5 Acre-ft. PR. Detertion Pond Approx. 6 Acre-ft.) PR. Detertion Pond Approx. 7 Acre-ft.) PR. Detertion Pond Approx. 6 Acre-ft.) PR. Detertion Pond Approx. 7 Acre-ft.) PR. Detertion Pond Approx. 7 Acre-ft.) PR. Detertion Pond Approx. 6 Acre-ft.) PR. Detertion Pond Approx. 7 Acre-ft.) PR. Detertion Pond Approx. 7 Acre-ft.) PR. Detertion Pond Approx. 8 Acre-ft.) PR. Detertion Pond Approx. 8 Acre-ft.) PR. Detertion Pond Approx. 9 Ac

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Population at Risk Roadways flooded

Critical Facilities Impacted

Notes:

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

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: \$5,995,000 Study Sponsor: Hidalgo County Precinct 4

These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Precinct 4





Time to complete?	Ir		lazard Mitigation Yes ✓ No □ an or other plan?
Funding Dedicated? Yes	□ No ✓		ource of Funding FIF, local
Have the flood risk and flood r Have the flood risk and flood reduction impact Does the project have any negative effects, p Does the project have a Benefit Cost Ratio gr Does the project reduce flood risk for the 100 Does the Project provide a Water Supply Ben Has all the ROW been acquired? Will permits or interlocal agreements be need	reduction imports been evaluated? For TWDB guidelines? Feater than 1? D-Yr flood event? Fefit?	acts beer	
Related Goals			
 ✓ Increase community access routes to cri routes, during and after a flooding event Reduce the # of newly constructed vulne within the existing and future 100-YR flood Increase the # of communities participat Insurance Program □ Decrease the average age of FEMA Flood used to define SFHAs □ Increase the coverage of available flood studies with identified construction proj hazards □ Increase participation in the regional flood Provide regional detention that could be applications or as part of a floodplain materials. □ Increase acreage of publicly protected or 	terable critical facilities odplain ting in the National Fluctional Fluctiona	lood loos leting ing	Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
risk areas that is reused for a beneficial Increase outreach and education activiti municipal floodplain managers, hosted be available on the website Increase the use reverse 911, TV, radio, billboards to communicate flood warnin shelter locations Reduce the # of structures that have bee flooding events through property buyou RFPG Recommended Yes □ No ✓	es, specifically target by Region 15 RFPG ar social media, and gs, evacuation route en subject to repeate	s, and	can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Precinct 4 MDP - Risk Area J at SH 107 & FM 907

FMP ID: 153000028

FMP 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.

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	ı U		IVPC

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)

 No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- □ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
 ✓ Infrastructure

Project Area

City/ Cities		Insert snip of Location N
County/ Counties	Hidalgo	
HUC 8	12110207,	
	12110287	
HUC 12	121102080400,	
	121102070100,	
	121102080200,	
	121102080200	
Study Area (sq. mi.)	N/A	

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$3,608,000 Si
Non-reoccurring Non-capital These are one-time cost:
Cost (include in Total above): engineering study costs.
Estimated year to start: Entity v

Study Sponsor: Hidalgo County Precinct 4

These are one-time costs for program development, education campaign, and nonengineering study costs

Entity with Oversight Hidalgo County Precinct 4





Time to complete? Funding Dedicated?	Yes □ No ✓	Action Pl	Hazard Mitigation an or other plan? Source of Funding	Yes ✓ No □ FIF, local	
runding Dedicated:	res 🗆 No 🕶	(Fotential) 3	odice of Fullding	FIF, local	
Have the flood risk and	I flood reduction in	mpacts bee	n evaluated	?	
Have the flood risk and flood red	uction impacts been evaluat	ed?	Yes □ No 🗸		
Does the project have any negative	ve effects, per TWDB guidel	nes?	Yes □ No □	Unknown ✓	
Does the project have a Benefit C	ost Ratio greater than 1?		Yes □ No □	Unknown ✓	
Does the project reduce flood risk	k for the 100-Yr flood event	•	Yes □ No □	Unknown ✓	
Does the Project provide a Water	Supply Benefit?		Yes □ No ✓		
Has all the ROW been acquired?			Yes □ No □		
Will permits or interlocal agreem	ents be needed for this proj	ect?	Yes □ No □		
Related Goals					
✓ Increase community access i		acuation \square		f entities that adopt higher than NFIP-minimu	ım
routes, during and after a flo Reduce the # of newly const	_	cilities 🗆	standards Develop and ma	intain an operational stormwater asset	
within the existing and futur			management pla		
 Increase the # of communities Insurance Program 	es participating in the Natio	nal Flood 🗆	Increase the # of	f flood gauges (rainfall/stream) in the region	
 Decrease the average age of used to define SFHAs 	FEMA Flood Insurance Rate	Maps	Increase the # of	f entities that have multi-year drainage CIP lis	it
☐ Increase the coverage of ava				f entities that integrate National Weather	
studies with identified const hazards	ruction projects to address	looding		S Texas Water Science Center (TXWSC) flood information into their local capabilities to mings	
☐ Increase participation in the			Increase use of r	nature-based flood risk reduction projects	
 Provide regional detention t applications or as part of a fl 			response progra	nally coordinated warning and emergency m that can detect the flood threat and provid of impending flood danger	le
☐ Increase acreage of publicly		ical flood 🗆	Increase the amo	ount of publicly owned land in the region that	t
risk areas that is reused for a		argeting \square		or future regional stormwater infrastructure ficiency of floodplain managers by increasing	,
municipal floodplain manage				at are certified as Certified Floodplain Manag	
available on the website	TV madia assistmendia am	J	•	Texas Floodplain Management Association	
 Increase the use reverse 911 billboards to communicate f 				pation in the Community Rating System by gion 15 floodplain management programs to	
shelter locations	-		incorporate ded	icated drainage fees to implement future FMI	Es
 Reduce the # of structures the flooding events through pro 		eated		porate noncompliance penalties; and who present in the future conditions floodplain	
RFPG Recommended	· · · · ·		,	·	
Yes □ No ✓					





Risk Area 11 Rancho Escondido

FMP ID: 153000029

FMP Description

Project 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.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities

County/ Counties Maverick

> HUC 8 13080001,

> > 13080002

HUC 12 130800020703.

130800020702

Study Area (sq. mi.) 0.03

Replace Existing Culvert with Proposed 8'x4' RCB Proposed Channel Widening

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Population at Risk Roadways flooded Critical Facilities Impacted

Yes ✓ No 🗆

Yes ✓ No 🗆

Yes □ No □

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

Project Costs

Notes:

Total Cost: Non-reoccurring Noncapital Cost (include in Total above):

Estimated year to start: Time to complete?

\$911,900 Study Sponsor: City of Eagle Pass

These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight City of Eagle Pass Included in a Hazard Mitigation Yes ✓ No □





Flood Mitigation Project Fact Sheet

Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local Have the flood risk and flood reduction impacts been evaluated? Have the flood risk and flood reduction impacts been evaluated? Yes □ No ✓ Does the project have any negative effects, per TWDB guidelines? Yes □ No □ Unknown 🗸 Does the project have a Benefit Cost Ratio greater than 1? Yes □ No □ Unknown ✓ Does the project reduce flood risk for the 100-Yr flood event? Yes □ No □ Unknown ✓ Does the Project provide a Water Supply Benefit? Yes □ No ✓ Has all the ROW been acquired? Yes □ No □ Will permits or interlocal agreements be needed for this project? Yes 🗆 No 🗆 Related Goals Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the Flood Insurance Program region Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage CIP list Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and provide timely warning of impending flood danger program Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future conditions floodplain RFPG Recommended





Risk Area 12 Fox Borough Drive

FMP ID: 153000030

FMP Description

Project 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.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- □ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Maverick

HUC 8 13080001,

13080002

HUC 12 130800020703,

130800020702

Study Area (sq. mi.) 0.05

Proposed 4.5 acre Detention area Proposed 2.5 acre Detention area Risk Area 12 Add 2-36" RCP to Existing Culvert LAS CIMAS DR Proposed Channel Widening

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Project Costs

Notes:

Total Cost: \$1,185,800 Study Sponsor: City of Eagle Pass

Non-reoccurring Non- , These are one-time costs for program development, education campaign, and non-engineering study costs.

above):

Estimated year to start: Entity with Oversight City of Eagle Pass Time to complete? Included in a Hazard Mitigation Yes ✓ No □





Flood Mitigation Project Fact Sheet

Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local Have the flood risk and flood reduction impacts been evaluated? Have the flood risk and flood reduction impacts been evaluated? Yes □ No ✓ Does the project have any negative effects, per TWDB guidelines? Yes □ No □ Unknown 🗸 Does the project have a Benefit Cost Ratio greater than 1? Yes □ No □ Unknown ✓ Does the project reduce flood risk for the 100-Yr flood event? Yes □ No □ Unknown ✓ Does the Project provide a Water Supply Benefit? Yes □ No ✓ Has all the ROW been acquired? Yes □ No □ Will permits or interlocal agreements be needed for this project? Yes 🗆 No 🗆 Related Goals Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the Flood Insurance Program region Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage CIP list Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and provide timely warning of impending flood danger program Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future conditions floodplain RFPG Recommended





Risk Area 13 Celle De Los Santos neighborhood.

FMP ID: 153000031

Additional culvert under irrigation canal.

FMP Description

Project includes upgrading existing culvert crossing irrigation canal from 2-6'x4' RCB to 4-6'x4' RCB.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Maverick

HUC 8 13080001,

13080002

HUC 12 130800020703,

130800020702

Study Area (sq. mi.) 0.03

FOX COVE CIR BY BY Add 2-6'x4' RCB to Existing Culvert Add 2-6'x4' RCB To Existing Culvert Add 2-6'x4' RCB To Existing Culvert

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$181,500 Study Sponsor: City of Eagle Pass

Non-reoccurring Noncapital Cost (include in Total above): \$181,500 Study Sponsor: City of Eagle Pass

These are one-time costs for program development, education campaign, and non-engineering study costs.

Estimated year to start: Entity with Oversight City of Eagle Pass Time to complete? Included in a Hazard Mitigation Yes ✓ No □





Flood Mitigation Project Fact Sheet

Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local Have the flood risk and flood reduction impacts been evaluated? Have the flood risk and flood reduction impacts been evaluated? Yes □ No ✓ Does the project have any negative effects, per TWDB guidelines? Yes □ No □ Unknown 🗸 Does the project have a Benefit Cost Ratio greater than 1? Yes □ No □ Unknown ✓ Does the project reduce flood risk for the 100-Yr flood event? Yes □ No □ Unknown ✓ Does the Project provide a Water Supply Benefit? Yes □ No ✓ Has all the ROW been acquired? Yes □ No □ Will permits or interlocal agreements be needed for this project? Yes 🗆 No 🗆 Related Goals Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the Flood Insurance Program region Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage CIP list Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and provide timely warning of impending flood danger program Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future conditions floodplain RFPG Recommended





Risk Area 15 Trib 3 Detention at Main Street

FMP ID: 153000032

FMP Description

Project 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.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river

restorations, etc.)

- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities

County/ Counties Maverick

> HUC 8 13080001,

> > 13080002

HUC 12 130800020703,

130800020702

Study Area (sq. mi.) 0.05

Rio Grand Risk Area 15 Frequency of flooding:

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? No 🗆 Population at Risk

Roadways flooded Yes ✓ No 🗆 Yes □ No □

Critical Facilities Impacted

Notes:

of structures inundated Miles inundated?

Agricultural Land impacted Yes □ No □

Project Costs

Total Cost: Non-reoccurring Non-

above):

Estimated year to start:

capital Cost (include in Total

Time to complete?

\$828.300 Study Sponsor: City of Eagle Pass

> These are one-time costs for program development, education campaign, and non-engineering study costs.

City of Eagle Pass Entity with Oversight Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan?





Flood Mitigation Project Fact Sheet

Fun	ding Dedicated?	Yes □ No ✓	(Potential) So	urce of Funding	FIF, local
Hav	e the flood risk and fl	ood reduction i	mpacts bee	n evaluated	?
Hav	e the flood risk and flood red	uction impacts been o	evaluated?	Yes □ No 🗸	
Doe	es the project have any negati	ve effects, per TWDB	guidelines?	Yes □ No □	Unknown ✓
Doe	es the project have a Benefit C	ost Ratio greater tha	n 1?	Yes □ No □	Unknown ✓
Doe	es the project reduce flood risl	k for the 100-Yr flood	event?	Yes □ No □	Unknown ✓
Doe	es the Project provide a Water	Supply Benefit?		Yes □ No ✓	
Has	all the ROW been acquired?			Yes □ No □	
Wil	permits or interlocal agreem	ents be needed for th	is project?	Yes □ No □	
Rela	ated Goals				
✓	Increase community access r				of entities that adopt higher than NFIP-
	evacuation routes, during an	_		minimum stan	
	Reduce the # of newly constr facilities within the existing a			management p	naintain an operational stormwater asset
	Increase the # of communities				of flood gauges (rainfall/stream) in the
	Flood Insurance Program			region	
	Decrease the average age of Maps used to define SFHAs	FEMA Flood Insurance	ce Rate	Increase the # CIP list	of entities that have multi-year drainage
	Increase the coverage of ava	ilable flood hazard da	ata by		of entities that integrate National Weather
	completing studies with iden				GS Texas Water Science Center (TXWSC)
	address flooding hazards				system information into their local
П	Increase participation in the	regional flood planni	ng process 🗌	•	disseminate warnings f nature-based flood risk reduction project:
	Provide regional detention the				onally coordinated warning and emergency
	reuse applications or as part				ram that can detect the flood threat and
	program				warning of impending flood danger
	Increase acreage of publicly				mount of publicly owned land in the region
	flood risk areas that is reused	a for a beneficial publ	ic use	infrastructure	lized for future regional stormwater
	Increase outreach and educa	tion activities, specif	cally		roficiency of floodplain managers by
	targeting municipal floodplai		y Region	_	# of them that are certified as Certified
	15 RFPG and available on the	e website			nagers (CFM) with the Texas Floodplain
	Increase the use reverse 911	TV radio social me	dia, and	Management A	Association Lipation in the Community Rating System b
Ш	billboards to communicate fl				egion 15 floodplain management programs
	routes, and shelter locations	_			dedicated drainage fees to implement
	Reduce the # of structures the				nd FMPs; incorporate noncompliance
	repeated flooding events thr	ough property buyou	ts	penalties; and conditions floc	who regulate development in the future odplain
RFP	G Recommended				





Risk Area 2 Treasure Hills

FMP ID: 153000033

FMP Description

Project includes constructing a 4' deep trapezoidal concrete channel with 8' bottom width and 2:1 side slopes, from detention pond outfall to existing culverts.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities

County/ Counties Maverick

HUC 8 **13080001**,

13080002

HUC 12 130800020703,

130800020702

Study Area (sq. mi.) 0.06

Flowers Street Detention Pond OLMOS PARK CIR T4 Acre Watershed Contributes Runoff to a Single 48" Pipe Here SUNCRESTOR - ATT SERVICE SUNCRESTOR

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Yes ✓ No □ Frequency of flooding:

of structures inundated

Miles inundated?

Critical Facilities Impacted

Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$597,300 Study Sponsor: City of Eagle Pass

Non-reoccurring Noncapital Cost (include in Total non-engineering study costs.

Study Sponsor: City of Eagle Pass

These are one-time costs for program development, education campaign, and non-engineering study costs.

above):

Estimated year to start: Entity with Oversight City of Eagle Pass Time to complete? Included in a Hazard Mitigation Yes \checkmark No \square





Flood Mitigation Project Fact Sheet

Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local Have the flood risk and flood reduction impacts been evaluated? Have the flood risk and flood reduction impacts been evaluated? Yes □ No ✓ Does the project have any negative effects, per TWDB guidelines? Yes □ No □ Unknown 🗸 Does the project have a Benefit Cost Ratio greater than 1? Yes □ No □ Unknown ✓ Does the project reduce flood risk for the 100-Yr flood event? Yes □ No □ Unknown ✓ Does the Project provide a Water Supply Benefit? Yes □ No ✓ Has all the ROW been acquired? Yes □ No □ Will permits or interlocal agreements be needed for this project? Yes 🗆 No 🗆 Related Goals Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the Flood Insurance Program region Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage CIP list Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and provide timely warning of impending flood danger program Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future conditions floodplain RFPG Recommended





Risk Area 3 Arrow Point Boulevard

FMP ID: 153000034

FMP Description

Project 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.

Project Type

- ☐ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- □ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Are

City/ Cities

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 □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$52,800 Study Sponsor: City of Eagle Pass

Non-reoccurring Noncapital Cost (include in Total above): Study Sponsor: City of Eagle Pass

These are one-time costs for program development, education campaign, and non-engineering study costs.

Estimated year to start: Entity with Oversight City of Eagle Pass Time to complete? Included in a Hazard Mitigation Yes ✓ No □





Flood Mitigation Project Fact Sheet

Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local Have the flood risk and flood reduction impacts been evaluated? Have the flood risk and flood reduction impacts been evaluated? Yes □ No ✓ Does the project have any negative effects, per TWDB guidelines? Yes □ No □ Unknown 🗸 Does the project have a Benefit Cost Ratio greater than 1? Yes □ No □ Unknown ✓ Does the project reduce flood risk for the 100-Yr flood event? Yes □ No □ Unknown ✓ Does the Project provide a Water Supply Benefit? Yes □ No ✓ Has all the ROW been acquired? Yes □ No □ Will permits or interlocal agreements be needed for this project? Yes 🗆 No 🗆 Related Goals Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the Flood Insurance Program region Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage CIP list Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and provide timely warning of impending flood danger program Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future conditions floodplain RFPG Recommended





Risk Area 4 Bibb & Misty Willow storm drain

FMP ID: 153000035

FMP Description

Project 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.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- □ Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Maverick

HUC 8 13080001,

13080002

HUC 12 130800020703,

130800020702

Study Area (sq. mi.) 0.02

Proposed 48" RCP WIRITH MANAZING MANAZ

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$316,800 Study Sponsor: City of Eagle Pass

Non-reoccurring Noncapital Cost (include in Total above): \$116,800 Study Sponsor: City of Eagle Pass

These are one-time costs for program development, education campaign, and non-engineering study costs.

Estimated year to start: Entity with Oversight City of Eagle Pass Time to complete? Included in a Hazard Mitigation Yes ✓ No □





Flood Mitigation Project Fact Sheet

Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local Have the flood risk and flood reduction impacts been evaluated? Have the flood risk and flood reduction impacts been evaluated? Yes □ No ✓ Does the project have any negative effects, per TWDB guidelines? Yes □ No □ Unknown 🗸 Does the project have a Benefit Cost Ratio greater than 1? Yes □ No □ Unknown ✓ Does the project reduce flood risk for the 100-Yr flood event? Yes □ No □ Unknown ✓ Does the Project provide a Water Supply Benefit? Yes □ No ✓ Has all the ROW been acquired? Yes □ No □ Will permits or interlocal agreements be needed for this project? Yes 🗆 No 🗆 Related Goals Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Increase the # of flood gauges (rainfall/stream) in the Flood Insurance Program region Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage CIP list Maps used to define SFHAs Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and provide timely warning of impending flood danger program Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future conditions floodplain RFPG Recommended





FMP ID: 153000036

Risk Area 5 Debona Drive

FMP Description

Project 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.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Maverick

HUC 8 13080001,

13080002

HUC 12 130800020703,

130800020702

Study Area (sq. mi.) 0.02

Proposed Channel Widening Project removes flooding of intersection Eagle Pass Creek Tributary 2 BUCKLEY-IVE Proposed 8x4' RCB

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Project Costs

Notes:

Total Cost: \$359,700 Study Sponsor: City of Eagle Pass

Non-reoccurring Noncapital Cost (include in Total above): Study Sponsor: City of Eagle Pass

These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight City of Eagle Pass Included in a Hazard Mitigation Yes ✓ No □
Action Plan or other plan?

Estimated year to start: Time to complete?



Yes □ No ✓



Funding Dedicated?	Yes □ No ✓ (Po	tential) Soc	irce of Funding	FIF, local
	d flood reduction impa reduction impacts been evalua		n evaluated Yes □ No ✓	?
	egative effects, per TWDB guide		Yes □ No □	Unknown ✓
	efit Cost Ratio greater than 1?		Yes □ No □	Unknown ✓
	d risk for the 100-Yr flood event	7	Yes □ No □	Unknown ✓
Does the Project provide a W		•	Yes □ No ✓	Cinciowii
Has all the ROW been acquire			Yes No	
·		iost?		
will permits of interlocal agri	eements be needed for this pro	jectr	Yes □ No □	
Related Goals				
evacuation routes, durin Reduce the # of newly confacilities within the exist Increase the # of community flood Insurance Program Decrease the average age Maps used to define SFH Increase the coverage of completing studies with address flooding hazards Increase participation in Provide regional detenting reuse applications or as program Increase acreage of public flood risk areas that is resulted in the second flood flood of the second flood	ge of FEMA Flood Insurance Rate HAS f available flood hazard data by identified construction projects of the regional flood planning property on that could be used for water part of a floodplain management of a floodplain management of a beneficial public used ducation activities, specifically dplain managers, hosted by Region the website 911, TV, radio, social media, and the flood warnings, evacuation	e	minimum stand Develop and m management p Increase the # region Increase the # CIP list Increase the # Service and US flood warning s capabilities to o Increase use of Develop a regio response progr provide timely Increase the ar that can be util infrastructure Increase the pr increasing the s Floodplain Man Management A Increase partic encouraging Re to incorporate	laintain an operational stormwater assetulan of flood gauges (rainfall/stream) in the of entities that have multi-year drainage of entities that integrate National Weather GS Texas Water Science Center (TXWSC) system information into their local disseminate warnings finature-based flood risk reduction projects conally coordinated warning and emergency ram that can detect the flood threat and warning of impending flood danger mount of publicly owned land in the region lized for future regional stormwater reficiency of floodplain managers by # of them that are certified as Certified magers (CFM) with the Texas Floodplain
repeated flooding event RFPG Recommended	s through property buyouts		penalties; and conditions floo	who regulate development in the future dplain
THE CONCESSION OF THE CONTRACT				





Risk Area 6 Trib 2 bypass & detention at Eagle Pass High School fields

FMP ID: 153000037

FMP Description

Project 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.

Project Type

- ☐ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Maverick

HUC 8 13080001,

13080002

HUC 12 130800020703,

130800020702

Study Area (sq. mi.) 0.10

AID ALSO ST Eagle Pass Creek Tributary 2 Eagle Pass High School

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Yes ✓ No □

Wiles inundated

Yes □ No □

Notes:

Frequency of flooding:

of structures inundated

Miles inundated?

Agricultural Land impacted

Yes □ No □

Notes:

Project Costs

Total Cost: \$957,000 Study Sponsor: City of Eagle Pass

Non-reoccurring Noncapital Cost (include in Total above): \$100 Study Sponsor: City of Eagle Pass

These are one-time costs for program development, education campaign, and non-engineering study costs.

Estimated year to start: Entity with Oversight City of Eagle Pass Time to complete? Included in a Hazard Mitigation Yes ✓ No □



Yes □ No ✓



Flood Mitigation Project Fact Sheet

Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local Have the flood risk and flood reduction impacts been evaluated? Have the flood risk and flood reduction impacts been evaluated? Yes □ No □ Unknown ✓ Does the project have any negative effects, per TWDB guidelines? Does the project have a Benefit Cost Ratio greater than 1? Yes □ No □ Unknown ✓ Does the project reduce flood risk for the 100-Yr flood event? Yes □ No □ Unknown ✓ Does the Project provide a Water Supply Benefit? Yes □ No ✓ Has all the ROW been acquired? Yes □ No □ Will permits or interlocal agreements be needed for this project? Yes 🗆 No 🗆 Related Goals Increase community access routes to critical facilities, Increase the # of entities that adopt higher than NFIPevacuation routes, during and after a flooding event minimum standards Reduce the # of newly constructed vulnerable critical Develop and maintain an operational stormwater asset facilities within the existing and future 100-YR floodplain management plan Increase the # of flood gauges (rainfall/stream) in the Increase the # of communities participating in the National Flood Insurance Program region Decrease the average age of FEMA Flood Insurance Rate Increase the # of entities that have multi-year drainage Maps used to define SFHAs CIP list Increase the coverage of available flood hazard data by Increase the # of entities that integrate National Weather completing studies with identified construction projects to Service and USGS Texas Water Science Center (TXWSC) address flooding hazards flood warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water Develop a regionally coordinated warning and emergency reuse applications or as part of a floodplain management response program that can detect the flood threat and provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical Increase the amount of publicly owned land in the region flood risk areas that is reused for a beneficial public use that can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically Increase the proficiency of floodplain managers by targeting municipal floodplain managers, hosted by Region increasing the # of them that are certified as Certified 15 RFPG and available on the website Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation encouraging Region 15 floodplain management programs routes, and shelter locations to incorporate dedicated drainage fees to implement Reduce the # of structures that have been subject to future FMEs and FMPs; incorporate noncompliance repeated flooding events through property buyouts penalties; and who regulate development in the future conditions floodplain RFPG Recommended





Risk Area 8 Tributary 2 channel widening near **Alexander Drive**

FMP ID: 153000038

No Structural Projects (Property easement acquisitions,

elevation of structures, flood-proofing, early warn systems)

FMP Description

Project 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.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river Infrastructure
- restorations, etc.)

Project Area

City/ Cities

County/ Counties Maverick

> HUC 8 13080001,

> > 13080002

HUC 12 130800020703,

130800020702

Study Area (sq. mi.)

Emergency Need

Yes ✓ No 🗆

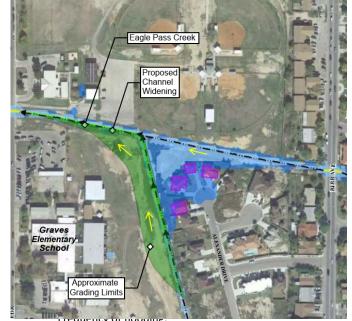
Known Flood Risk

History of Flooding? No □ Population at Risk

Roadways flooded Yes ✓ No □

Critical Facilities Impacted Yes □ No □

Notes:



of structures inundated Miles inundated?

Agricultural Land impacted Yes □ No □

Project Costs

Total Cost: \$80,300 Study Sponsor: City of Eagle Pass

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-Cost (include in Total above): engineering study costs.

Estimated year to start: Entity with Oversight City of Eagle Pass Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local



Yes □ No 🗸



Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?

Yes □ No ✓
Yes □ No □ Unknown ✓
Yes □ No □ Unknown ✓
Yes □ No □ Unknown ✓
Yes □ No ✓
Yes □ No □
Yes □ No □
☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Develop and maintain an operational stormwater asset
management plan Increase the # of flood gauges (rainfall/stream) in the region
☐ Increase the # of entities that have multi-year drainage CIP list
 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
 Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





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

FMP ID: 153000039

FMP Description

Upsize The Storm Drain Under West St. Jude Avenue. Trunk Line Will Consist Of 1900 Lf Of A Single 7'X5' Rcb 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'X7' Box Culvert. Discharging At An Angle On The Northside Of St. Jude Avenue Will Improve Efficiency Where The Tailwater Of West Main Drain Is Much Lower. Small Detention Pond Will Be Required On The Westside Of The Houses On Rhode Island St To Capture Runoff From The 700 Acres Mentioned Earlier. Berm Improvements Are Recommended Along The West Main Drain Bank. Overall, 72 Existing Structures Will Be Removed From The 25 Yr. Floodplain.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

PROPOSED DETENTION POND Rhode Island St. Pennsylvania St. Penns

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Total Cost: \$2,609,200 Study Sponsor: City of Alton
Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-

engineering study costs.

Cost (include in Total above): Estimated year to start:

Entity with Oversight City of Alton

Yes □ No □





Time to complete?		dazard Mitigation Yes ✓ No □ an or other plan?
Funding Dedicated? Yes \square No		ource of Funding FIF, local
Have the flood risk and flood reduction impacts been also the project have any negative effects, per TWI Does the project have a Benefit Cost Ratio greater to Does the project reduce flood risk for the 100-Yr flood the Project provide a Water Supply Benefit? Has all the ROW been acquired? Will permits or interlocal agreements be needed for	ction impacts bee en evaluated? 'DB guidelines? than 1? bod event?	
Related Goals		
 ✓ Increase community access routes to critical far routes, during and after a flooding event ☐ Reduce the # of newly constructed vulnerable within the existing and future 100-YR floodplai Increase the # of communities participating in Insurance Program ☐ Decrease the average age of FEMA Flood Insurused to define SFHAs ☐ Increase the coverage of available flood hazard studies with identified construction projects to hazards ☐ Increase participation in the regional flood plane Provide regional detention that could be used applications or as part of a floodplain manager ☐ Increase acreage of publicly protected open spendicular countries. 	critical facilities in the National Flood rance Rate Maps d data by completing address flooding nning process for water reuse ment program pace in critical flood	Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
risk areas that is reused for a beneficial public Increase outreach and education activities, spe municipal floodplain managers, hosted by Regi available on the website Increase the use reverse 911, TV, radio, social billboards to communicate flood warnings, eva shelter locations Reduce the # of structures that have been subj flooding events through property buyouts RFPG Recommended Yes □ No ✓	ecifically targeting ion 15 RFPG and media, and acuation routes, and	can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





NM-102 FMP ID: 153000040

FMP Description

Project includes expansion of HCDD1 Lull Drain and addition of laterals NM-102-01, NM-102-02, and NM-102-03. Should happen 2023 development ongoing and city will participate to make it happen.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$15,000,000

Notes:

Project Costs

Total Cost:
Non-reoccurring Non-capital
Cost (include in Total above):
Estimated year to start:
Time to complete?

Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1 Included in a Hazard Mitigation Action Plan or other plan? Hidalgo County Drainage District #1 Yes \checkmark No \square





Funding Dedicated? Yes □ No ✓ (Poter	ntial) Source of Funding FIF, local
Have the flood risk and flood reduction impacts Have the flood risk and flood reduction impacts been evaluated?	
·	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities	☐ Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood	management plan Increase the # of flood gauges (rainfall/stream) in the region
Insurance Program	and case the nonnear gauges (ranner, or carry in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing	Increase the # of entities that integrate National Weather
studies with identified construction projects to address flooding hazards	Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website Increase the use reverse 911, TV, radio, social media, and	(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
billboards to communicate flood warnings, evacuation routes, and	encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that have been subject to repeated	incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	regulate development in the future conditions floodplain
RFPG Recommended	
Ves □ No ✓	





NM-103 FMP ID: 153000041

FMP Description

Replace culverts on Access Road and Monte Cristo with 10'X6' RCB and relace 36" RCP on Rogers, Utility - Canal and Russell with 8' X 6' RCB for Rogers. 6' x 6' RCB for Utility - Canal and 48" RCP for Russell. Get included in plan

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$17,190,000

Project Costs

Notes:

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? Study Sponsor: Hidalgo County Drainage District #1

These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1 Included in a Hazard Mitigation Action Plan or other plan? Hidalgo County Drainage District #1 Yes \checkmark No \square





Funding Dedicated? Yes □ No ✓ (Poter	ntial) Source of Funding FIF, local
Have the flood risk and flood reduction impacts Have the flood risk and flood reduction impacts been evaluated?	
·	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities	☐ Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood	management plan Increase the # of flood gauges (rainfall/stream) in the region
Insurance Program	and case the nonnear gauges (ranner, or carry in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing	Increase the # of entities that integrate National Weather
studies with identified construction projects to address flooding hazards	Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website Increase the use reverse 911, TV, radio, social media, and	(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
billboards to communicate flood warnings, evacuation routes, and	encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that have been subject to repeated	incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	regulate development in the future conditions floodplain
RFPG Recommended	
Ves □ No ✓	





NM-105 FMP ID: 153000042

FMP Description

Project includes a lateral ditch with a 10-foot bottom width, 3:1 (H:V) sode slopes, and 8-foot depth, Also, replacing existing crossings at McColl (30-in RCP), Monument Mack (30-in RCP), and Hoehn (18-in RCP) into 5'x5' RCB, 6'x4' RCB and 48-in RCP respectively. Get included in plan.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$15,850,000

Project Costs

Notes:

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? Study Sponsor: Hidalgo County Drainage District #1

These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1 Included in a Hazard Mitigation Action Plan or other plan? Hidalgo County Drainage District #1 Yes \checkmark No \square





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated 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-106 FMP ID: 153000043

FMP Description

Project includes extending west with a 10-foot bottom width, 3:1 (H:V) sode slopes, and 8-foot depth as well as replacing existing crossing at McColl (36-in RCP) and Access (36-in RCP) into 2-36-in RCP each. plan

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)

 No Structure elevation of the provided structures in the provided structures
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$3,060,000

Project Costs

Notes:

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? Study Sponsor: Hidalgo County Drainage District #1

These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1
Included in a Hazard Mitigation Yes ✓ No □
Action Plan or other plan?





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated 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-108 FMP ID: 153000044

FMP Description

Replace 10' x 6' RCB with a 48" RCP along Jackson Road crossing to increase conveyance of the ditch system. Plan

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$5,460,000

Project Costs

Notes:

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1 Included in a Hazard Mitigation Action Plan or other plan? Hidalgo County Drainage District #1 Yes \checkmark No \square





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated 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-109 FMP ID: 153000045

FMP Description

Enlarge 36" RCP along culvert to 48" RCP to increase the conveyance capacity of the ditch system. Include in the plan.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$5,660,000

Project Costs

Notes:

Total Cost:
Non-reoccurring Non-capital
Cost (include in Total above):
Estimated year to start:
Time to complete?

Study Sponsor: Hidalgo County Drainage District #1

These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1
Included in a Hazard Mitigation Action Plan or other plan?

Hidalgo County Drainage District #1
Yes ✓ No □





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated 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-110 FMP ID: 153000046

FMP Description

Project includes an extension of 8'x4' RCB upstream to increase conveyance across McColl Road. Also, replacing existing crossings at Utility (30-in RCP), Mon Mack (36-in RCP), and Saker (36-in RCP) into 7'x4x RCB, 7'x4' RCB and 2-36-in RCP, respectively.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$4,560,000

Notes:

Project Costs

Total Cost:
Non-reoccurring Non-capital
Cost (include in Total above):
Estimated year to start:
Time to complete?

Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1
Included in a Hazard Mitigation Action Plan or other plan?

Hidalgo County Drainage District #1
Yes ✓ No □





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			
Yes □ No ✓			





FMP ID: 153000047 NM-113

FMP Description

Replace 5' x 4' RCB along Jackson Road with 2 - 5' X 4' RCB and replace the current 5' X 4' RCB along the Railroad with a new 5' X 4' RCB. On Sugar Road increase the size of the culvert 18" RCB to a 42" RCB. Nothing there include in plan - irrigation district is doing concrete lining and city has not been involved.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, No Structural Projects (Property easement acquisitions, low water crossing, flow structures, reservoirs, storm drainage elevation of structures, flood-proofing, early warn systems) improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- Infrastructure

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

> HUC 8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: No 🗆 Population at Risk # of structures inundated No □ Roadways flooded Yes ✓ Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Project Costs

Time to complete?

Notes:

Total Cost: \$5,440,000 Study Sponsor: Hidalgo County Drainage District #1 Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and nonengineering study costs. Cost (include in Total above): Estimated year to start: Hidalgo County Drainage District #1 **Entity with Oversight**

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





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated 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-115 FMP ID: 153000048

FMP Description

Project includes replacing existing crossing at Wisconsin (7'x8' RCB), Alberta (8'x9' RCB), Utility (8'x7' RCB), Dove (7'x6' RCB), Violet (6'x5' RCB), Utility (6'x4' RCB), and Utility (6'x4') into 2-7'x8' RCB, 2-8'x9' RCB, 2-8'x7' RCB, 2-7'x6' RCB, 10'x8' RCB, 2-6'x4' RCB and 2-6'x4' RCB, respectively. Include in plan.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)

 No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 **12110207,**

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$21,110,000

Project Costs

Notes:

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1 Included in a Hazard Mitigation Action Plan or other plan? Hidalgo County Drainage District #1 Yes \checkmark No \square





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated 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-116 FMP ID: 153000049

FMP Description

Project includes replacing existing crossing at Wisconsin (2-36-in RCP) into 6'x5' RCB.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$7,480,000

Project Costs

Notes:

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? Study Sponsor: Hidalgo County Drainage District #1

These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1
Included in a Hazard Mitigation Action Plan or other plan?

Hidalgo County Drainage District #1
Yes ✓ No □





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and flo	· ·	bee	
Have the flood risk and flood reductio	n impacts been evaluated?		Yes □ No ✓
Does the project have any negative ef	fects, per TWDB guidelines?		Yes □ No □ Unknown 🗸
Does the project have a Benefit Cost F	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk for	the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Sup	ply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreements	be needed for this project?		Yes □ No □
Related Goals			
✓ Increase community access route routes, during and after a floodin			Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed			Develop and maintain an operational stormwater asset
within the existing and future 100 Increase the # of communities pa Insurance Program			management plan Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEN used to define SFHAs 	IA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available studies with identified construction hazards 	e flood hazard data by completing on projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the region	, ,,		Increase use of nature-based flood risk reduction projects
 Provide regional detention that c applications or as part of a flood 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly proterisk areas that is reused for a ben 	·		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education municipal floodplain managers, h available on the website 			Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, TV, billboards to communicate flood 	radio, social media, and warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that h flooding events through property			incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			•
Yes □ No ✓			





Raymondville Drain BP 2

FMP ID: 153000050

FMP Description

Consists of drainage ditch connection to existing channels. Existing channels improvements of approximately 63 miles of drainage improvements include in-line and off-line detention, reservoirs and control structures that stretch from Edinburg Lake to the Laguna Madre.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$15,000,000

Project Costs

Notes:

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1
Included in a Hazard Mitigation Action Plan or other plan?

Hidalgo County Drainage District #1
Yes ✓ No □





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and flo	· ·	bee	
Have the flood risk and flood reductio	n impacts been evaluated?		Yes □ No ✓
Does the project have any negative ef	fects, per TWDB guidelines?		Yes □ No □ Unknown 🗸
Does the project have a Benefit Cost F	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk for	the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Sup	ply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreements	be needed for this project?		Yes □ No □
Related Goals			
✓ Increase community access route routes, during and after a floodin			Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed			Develop and maintain an operational stormwater asset
within the existing and future 100 Increase the # of communities pa Insurance Program			management plan Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEN used to define SFHAs 	IA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available studies with identified construction hazards 	e flood hazard data by completing on projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the region	, ,,		Increase use of nature-based flood risk reduction projects
 Provide regional detention that c applications or as part of a flood 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly proterisk areas that is reused for a ben 	·		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education municipal floodplain managers, h available on the website 			Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, TV, billboards to communicate flood 	radio, social media, and warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that h flooding events through property			incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			•
Yes □ No ✓			





North Main Drain III and I BP 4

FMP ID: 153000051

FMP Description

9 miles of channel improvements includes widening the North Main Drain within existing right of way.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$17,190,000

Notes:

Project Costs

Total Cost:
Non-reoccurring Non-capital
Cost (include in Total above):
Estimated year to start:
Time to complete?

Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1
Included in a Hazard Mitigation Action Plan or other plan?

Hidalgo County Drainage District #1
Yes ✓ No □





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and flo	· ·	bee	
Have the flood risk and flood reductio	n impacts been evaluated?		Yes □ No ✓
Does the project have any negative ef	fects, per TWDB guidelines?		Yes □ No □ Unknown 🗸
Does the project have a Benefit Cost F	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk for	the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Sup	ply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreements	be needed for this project?		Yes □ No □
Related Goals			
✓ Increase community access route routes, during and after a floodin			Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed			Develop and maintain an operational stormwater asset
within the existing and future 100 Increase the # of communities pa Insurance Program			management plan Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEN used to define SFHAs 	IA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available studies with identified construction hazards 	e flood hazard data by completing on projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the region	, ,,		Increase use of nature-based flood risk reduction projects
 Provide regional detention that c applications or as part of a flood 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly proterisk areas that is reused for a ben 	·		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education municipal floodplain managers, h available on the website 			Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, TV, billboards to communicate flood 	radio, social media, and warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that h flooding events through property			incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			•
Yes □ No ✓			





North Main Drain I BP 5

FMP ID: 153000052

FMP Description

5.7 miles of channel improvements includes widening the North Main Drain within existing right of way

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$15,850,000

Notes:

Project Costs

Total Cost:
Non-reoccurring Non-capital
Cost (include in Total above):
Estimated year to start:
Time to complete?

Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1
Included in a Hazard Mitigation Action Plan or other plan?

Hidalgo County Drainage District #1
Yes ✓ No □





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and flo	· ·	bee	
Have the flood risk and flood reductio	n impacts been evaluated?		Yes □ No ✓
Does the project have any negative ef	fects, per TWDB guidelines?		Yes □ No □ Unknown 🗸
Does the project have a Benefit Cost F	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk for	the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Sup	ply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreements	be needed for this project?		Yes □ No □
Related Goals			
✓ Increase community access route routes, during and after a floodin			Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed			Develop and maintain an operational stormwater asset
within the existing and future 100 Increase the # of communities pa Insurance Program			management plan Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEN used to define SFHAs 	IA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available studies with identified construction hazards 	e flood hazard data by completing on projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the region	, ,,		Increase use of nature-based flood risk reduction projects
 Provide regional detention that c applications or as part of a flood 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly proterisk areas that is reused for a ben 	·		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education municipal floodplain managers, h available on the website 			Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, TV, billboards to communicate flood 	radio, social media, and warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that h flooding events through property			incorporate dedicated 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

FMP ID: 153000053

FMP Description

Rehab of the outfall structure, including concrete embankment replacement

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities Edcouch

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$3,060,000

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? Study Sponsor: Hidalgo County Drainage District #1

These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1
Included in a Hazard Mitigation
Action Plan or other plan?

Hidalgo County Drainage District #1
Yes ✓ No □





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and flo	· ·	bee	
Have the flood risk and flood reductio	n impacts been evaluated?		Yes □ No ✓
Does the project have any negative ef	fects, per TWDB guidelines?		Yes □ No □ Unknown 🗸
Does the project have a Benefit Cost F	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk for	the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Sup	ply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreements	be needed for this project?		Yes □ No □
Related Goals			
✓ Increase community access route routes, during and after a floodin			Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed			Develop and maintain an operational stormwater asset
within the existing and future 100 Increase the # of communities pa Insurance Program			management plan Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEN used to define SFHAs 	IA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available studies with identified construction hazards 	e flood hazard data by completing on projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the region	, ,,		Increase use of nature-based flood risk reduction projects
 Provide regional detention that c applications or as part of a flood 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly proterisk areas that is reused for a ben 	·		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education municipal floodplain managers, h available on the website 			Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, TV, billboards to communicate flood 	radio, social media, and warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that h flooding events through property			incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			•
Yes □ No ✓			





Palmview Lateral BP 7

FMP ID: 153000054

FMP Description

1.3 miles of channel improvements includes widening of the Palmview Lateral within existing right of way.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities Palmview

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Project Costs

Notes:

Total Cost: \$5,460,000

Non-reoccurring Non-capital These are of Cost (include in Total above): engineering Estimated year to start:

Time to complete? Inclu

Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1 Included in a Hazard Mitigation Action Plan or other plan? Hidalgo County Drainage District #1 Yes \checkmark No \square





Funding Dedicated? Yes □ No ✓ (Poter	ntial) Source of Funding FIF, local
Have the flood risk and flood reduction impacts Have the flood risk and flood reduction impacts been evaluated?	
·	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities	☐ Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood	management plan Increase the # of flood gauges (rainfall/stream) in the region
Insurance Program	and case the nonnear gauges (ranner, or carry in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing	Increase the # of entities that integrate National Weather
studies with identified construction projects to address flooding hazards	Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website Increase the use reverse 911, TV, radio, social media, and	(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
billboards to communicate flood warnings, evacuation routes, and	encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that have been subject to repeated	incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	regulate development in the future conditions floodplain
RFPG Recommended	
Ves □ No ✓	





Pharr-McAllen Lateral BP 9

FMP ID: 153000055

FMP Description

3 miles of channel improvements, widening lateral within exisitng right of way

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities Pharr, McAllen

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$5,660,000

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? Study Sponsor: Hidalgo County Drainage District #1

These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1
Included in a Hazard Mitigation Action Plan or other plan?

Hidalgo County Drainage District #1
Yes ✓ No □





Funding Dedicated? Yes □ No ✓ (Poter	ntial) Source of Funding FIF, local
Have the flood risk and flood reduction impacts Have the flood risk and flood reduction impacts been evaluated?	
·	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities	☐ Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood	management plan Increase the # of flood gauges (rainfall/stream) in the region
Insurance Program	and case the nonnear gauges (ranner, or carry in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing	Increase the # of entities that integrate National Weather
studies with identified construction projects to address flooding hazards	Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website Increase the use reverse 911, TV, radio, social media, and	(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
billboards to communicate flood warnings, evacuation routes, and	encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that have been subject to repeated	incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	regulate development in the future conditions floodplain
RFPG Recommended	
Ves □ No ✓	





Weslaco North Lateral BP 10

FMP ID: 153000056

FMP Description

6 miles of channel improvements widening of Weslaco North Lateral within existing right of way.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities Weslaco

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$4,560,000

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1
Included in a Hazard Mitigation
Action Plan or other plan?

Hidalgo County Drainage District #1
Yes ✓ No □





Funding Dedicated? Yes □ No ✓ (Poter	ntial) Source of Funding FIF, local
Have the flood risk and flood reduction impacts Have the flood risk and flood reduction impacts been evaluated?	
·	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities	☐ Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood	management plan Increase the # of flood gauges (rainfall/stream) in the region
Insurance Program	and case the nonnear gauges (ranner, or carry in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing	Increase the # of entities that integrate National Weather
studies with identified construction projects to address flooding hazards	Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website Increase the use reverse 911, TV, radio, social media, and	(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
billboards to communicate flood warnings, evacuation routes, and	encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that have been subject to repeated	incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	regulate development in the future conditions floodplain
RFPG Recommended	
Ves □ No ✓	





Alternate Rado Drain BP 11

FMP ID: 153000057

FMP Description

2.1 miles of channel improvements includes widening the Alternate Rado Drain within existing right of way.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$5,440,000

Notes:

Project Costs

Total Cost:
Non-reoccurring Non-capital
Cost (include in Total above):
Estimated year to start:
Time to complete?

Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1
Included in a Hazard Mitigation
Action Plan or other plan?

Hidalgo County Drainage District #1
Yes ✓ No □





Funding Dedicated? Yes □ No ✓ (Poter	ntial) Source of Funding FIF, local
Have the flood risk and flood reduction impacts Have the flood risk and flood reduction impacts been evaluated?	
·	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities	☐ Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood	management plan Increase the # of flood gauges (rainfall/stream) in the region
Insurance Program	and case the nonnear gauges (ranner, or carry in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing	Increase the # of entities that integrate National Weather
studies with identified construction projects to address flooding hazards	Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website Increase the use reverse 911, TV, radio, social media, and	(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
billboards to communicate flood warnings, evacuation routes, and	encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that have been subject to repeated	incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	regulate development in the future conditions floodplain
RFPG Recommended	
Ves □ No ✓	





Mission-McAllen Drain BP 12

FMP ID: 153000058

FMP Description

5.3 miles of channel improvements includes widening the Mission-McAllen drain within exisiting right of way. Install 7955-linear feet of reinforced concrete box culvert improvements from Business 83 Street to the PSJA drain. Install curb inlet capture systems approximately every 500-feet across subdivisions and repave roadways.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities Mission, McAllen

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$21,110,000 St

Non-reoccurring Non-capital These are one-time costs

Cost (include in Total above): engineering study costs.

Estimated year to start: Entity w

Time to complete? Included in a Haza

Study Sponsor: Hidalgo County Drainage District #1

These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1
Included in a Hazard Mitigation Action Plan or other plan?

Hidalgo County Drainage District #1

Yes ✓ No □





Funding Dedicated? Yes □ No ✓ (Poter	ntial) Source of Funding FIF, local
Have the flood risk and flood reduction impacts Have the flood risk and flood reduction impacts been evaluated?	
·	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities	☐ Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood	management plan Increase the # of flood gauges (rainfall/stream) in the region
Insurance Program	and case the nonnear gauges (ranner, or carry in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing	Increase the # of entities that integrate National Weather
studies with identified construction projects to address flooding hazards	Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website Increase the use reverse 911, TV, radio, social media, and	(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
billboards to communicate flood warnings, evacuation routes, and	encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that have been subject to repeated	incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	regulate development in the future conditions floodplain
RFPG Recommended	
Ves □ No ✓	





Mission Inlet BP 13

FMP ID: 153000059

FMP Description

Channel improvements including widening the pilot channel of the Mission Inlet and improvements at the outfall structure to IBWC Floodway

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities Mission

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Project Costs

Notes:

Total Cost: \$7,480,000

Non-reoccurring Non-capital

Cost (include in Total above):

Estimated year to start:

Time to complete?

Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1
Included in a Hazard Mitigation Action Plan or other plan?

Hidalgo County Drainage District #1
Yes ✓ No □





Funding Dedicated? Yes □ No ✓ (Poter	ntial) Source of Funding FIF, local
Have the flood risk and flood reduction impacts Have the flood risk and flood reduction impacts been evaluated?	
·	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities	☐ Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood	management plan Increase the # of flood gauges (rainfall/stream) in the region
Insurance Program	and case the nonnear gauges (ranner, or carry in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing	Increase the # of entities that integrate National Weather
studies with identified construction projects to address flooding hazards	Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website Increase the use reverse 911, TV, radio, social media, and	(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
billboards to communicate flood warnings, evacuation routes, and	encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that have been subject to repeated	incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	regulate development in the future conditions floodplain
RFPG Recommended	
Ves □ No ✓	





West Main Drain III Extension BP 14

FMP ID: 153000060

FMP Description

14 miles of channel improvements include constructing and wideing the West Main Drain.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Time to complete?

Total Cost: \$17,480,000 Study Sponsor: Hidalgo County Drainage District #1

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-cost (include in Total above): engineering study costs.

Estimated year to start: Entity with Oversight Hidalgo County Drainage District #1

Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated 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 BP 16 FMP ID: 153000061

FMP Description

2 miles of chanlle improvements includes widening the PSJA Drain within existing Right of Way, from Nolana to I2.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities Pharr, San Juan, Alamo

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$1,090,000

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1 Included in a Hazard Mitigation Action Plan or other plan? Hidalgo County Drainage District #1 Yes \checkmark No \square





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			
Yes □ No ✓			





Alamo Expressway Drain Phase 2 BP 21

FMP ID: 153000062

FMP Description

1.9 miles of channel improvements include excavation of the Alamo Expressway Drain and roadway crossing upgrades from I2 to Cesar Chavez Drain.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities Alamo

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$1,470,000 Study S

Non-reoccurring Non-capital These are one-time costs for p

Cost (include in Total above): engineering study costs.

Estimated year to start: Entity with O

Time to complete? Included in a Hazard M

Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1
Included in a Hazard Mitigation Action Plan or other plan?

Hidalgo County Drainage District #1

Yes ✓ No □





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated 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) FMP ID: 153000063

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Parker Drain Widening (Tio Cano Lake Overflow)

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities ·

County/ Counties Cameron

HUC 8 **12110207**,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Estimated year to start:

Total Cost: \$ 14,046,600 Study Sponsor: Cameron County Drainage District No. 6

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and noncost (include in Total above): engineering study costs.

Entity with Oversight Cameron County Drainage District No. 6

Yes 🗆 No 🗆





Time to complete?		dazard Mitigation Yes ✓ No □ an or other plan?
Funding Dedicated? Yes \square No		ource of Funding FIF, local
Have the flood risk and flood reduction impacts been also the project have any negative effects, per TWI Does the project have a Benefit Cost Ratio greater to Does the project reduce flood risk for the 100-Yr flood the Project provide a Water Supply Benefit? Has all the ROW been acquired? Will permits or interlocal agreements be needed for	ction impacts bee en evaluated? 'DB guidelines? than 1? bod event?	
Related Goals		
 ✓ Increase community access routes to critical far routes, during and after a flooding event ☐ Reduce the # of newly constructed vulnerable within the existing and future 100-YR floodplai Increase the # of communities participating in Insurance Program ☐ Decrease the average age of FEMA Flood Insurused to define SFHAs ☐ Increase the coverage of available flood hazard studies with identified construction projects to hazards ☐ Increase participation in the regional flood plane Provide regional detention that could be used applications or as part of a floodplain manager ☐ Increase acreage of publicly protected open spendicular countries. 	critical facilities in the National Flood rance Rate Maps d data by completing address flooding nning process for water reuse ment program pace in critical flood	Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
risk areas that is reused for a beneficial public Increase outreach and education activities, spe municipal floodplain managers, hosted by Regi available on the website Increase the use reverse 911, TV, radio, social billboards to communicate flood warnings, eva shelter locations Reduce the # of structures that have been subj flooding events through property buyouts RFPG Recommended Yes □ No ✓	ecifically targeting ion 15 RFPG and media, and acuation routes, and	can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FMP ID: 153000064

Main Drain Widening - switch to Parker Regional Detention Facility

FMP Description

Regional Detention Facility to help alleviate runoff

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities ·

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$ 6,563,125

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Study Sponsor: Cameron County Drainage District No. 6 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Cameron County Drainage District No. 6





Time to complete?		dazard Mitigation Yes ✓ No □ an or other plan?
Funding Dedicated? Yes \square No		ource of Funding FIF, local
Have the flood risk and flood reduction impacts been also the project have any negative effects, per TWI Does the project have a Benefit Cost Ratio greater to Does the project reduce flood risk for the 100-Yr flood the Project provide a Water Supply Benefit? Has all the ROW been acquired? Will permits or interlocal agreements be needed for	ction impacts bee en evaluated? 'DB guidelines? than 1? bod event?	
Related Goals		
 ✓ Increase community access routes to critical far routes, during and after a flooding event ☐ Reduce the # of newly constructed vulnerable within the existing and future 100-YR floodplai Increase the # of communities participating in Insurance Program ☐ Decrease the average age of FEMA Flood Insurused to define SFHAs ☐ Increase the coverage of available flood hazard studies with identified construction projects to hazards ☐ Increase participation in the regional flood plane Provide regional detention that could be used applications or as part of a floodplain manager ☐ Increase acreage of publicly protected open spendicular countries. 	critical facilities in the National Flood rance Rate Maps d data by completing address flooding nning process for water reuse ment program pace in critical flood	Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
risk areas that is reused for a beneficial public Increase outreach and education activities, spe municipal floodplain managers, hosted by Regi available on the website Increase the use reverse 911, TV, radio, social billboards to communicate flood warnings, eva shelter locations Reduce the # of structures that have been subj flooding events through property buyouts RFPG Recommended Yes □ No ✓	ecifically targeting ion 15 RFPG and media, and acuation routes, and	can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FMP ID: 153000065

Ovalle Lateral Connectivity

FMP Description

Ovalle Lateral Connectivity

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities -

County/ Counties Cameron

HUC 8 **12110207**,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$ 1,385,938

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? Study Sponsor: Cameron County Drainage District No. 6
These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Cameron County Drainage District No. 6 Included in a Hazard Mitigation Yes \checkmark No \square

Action Plan or other plan?





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			
Yes □ No ✓			





Flood Mitigation Project

Main Drain regional detention facility

Fact Sheet

FMP Description

Main Drain regional detention facility

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- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)

FMP ID: 153000066

Infrastructure

Project Area

City/ Cities

County/ Counties Cameron

> HUC 8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: No □ Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$3,325,625

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete?

Study Sponsor: Cameron County Drainage District No. 6 These are one-time costs for program development, education campaign, and nonengineering study costs.

Cameron County Drainage District No. 6 **Entity with Oversight** Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan?





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated 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)

FMP ID: 153000067

FMP Description

Floodway Pump Stations (Cantu, Main, Parker, Thompson & Adams Gardens)

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities ·

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$2,243,868

Project Costs

Notes:

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Study Sponsor: Cameron County Drainage District No. 6 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Cameron County Drainage District No. 6





Time to complete?	Ir		lazard Mitigation Yes ✓ No □ an or other plan?
Funding Dedicated? Yes	□ No ✓		ource of Funding FIF, local
Have the flood risk and flood r Have the flood risk and flood reduction impact Does the project have any negative effects, p Does the project have a Benefit Cost Ratio gr Does the project reduce flood risk for the 100 Does the Project provide a Water Supply Ben Has all the ROW been acquired? Will permits or interlocal agreements be need	reduction imports been evaluated? For TWDB guidelines? Feater than 1? D-Yr flood event? Fefit?	acts beer	
Related Goals			
 ✓ Increase community access routes to cri routes, during and after a flooding event Reduce the # of newly constructed vulne within the existing and future 100-YR flood Increase the # of communities participat Insurance Program □ Decrease the average age of FEMA Flood used to define SFHAs □ Increase the coverage of available flood studies with identified construction proj hazards □ Increase participation in the regional flood Provide regional detention that could be applications or as part of a floodplain materials. □ Increase acreage of publicly protected or 	terable critical facilities odplain ting in the National Fluctional Fluctiona	lood loos leting ing	Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
risk areas that is reused for a beneficial Increase outreach and education activiti municipal floodplain managers, hosted be available on the website Increase the use reverse 911, TV, radio, billboards to communicate flood warnin shelter locations Reduce the # of structures that have bee flooding events through property buyou RFPG Recommended Yes □ No ✓	es, specifically target by Region 15 RFPG ar social media, and gs, evacuation route en subject to repeate	s, and	can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Clark Road Ditch Improvements

FMP ID: 153000068

FMP Description

Clark Road Ditch Improvements

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$1,352,813

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? Study Sponsor: Cameron County Drainage District No. 6 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Cameron County Drainage District No. 6 Included in a Hazard Mitigation Yes \checkmark No \square

Action Plan or other plan?





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			
Yes □ No ✓			





FMP ID: 153000069

Southwest Ditch Widening

FMP Description

Southwest Ditch Widening

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Drc	NACT	IVIDA
FIL	ject i	IVDC

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities ·

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$1,010,000

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? Study Sponsor: Cameron County Drainage District No. 6 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Cameron County Drainage District No. 6 Included in a Hazard Mitigation Yes \checkmark No \square

Action Plan or other plan?





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			
Yes □ No ✓			





North McAllen Detention Pond

FMP Description

North McAllen Detention Pond

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)

FMP ID: 153000070

Infrastructure

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

> HUC 8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: No 🗆 Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete?

\$62,296,000 Study Sponsor: City of McAllen

These are one-time costs for program development, education campaign, and nonengineering study costs.

Yes ✓ No 🗆

Entity with Oversight City of McAllen Included in a Hazard Mitigation

Action Plan or other plan?

Page 1 of 2





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated 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 Bond Project 1

FMP ID: 153000071

No Structural Projects (Property easement acquisitions,

elevation of structures, flood-proofing, early warn systems)

FMP Description

Regional Continuation of improvements to the 200+ acre off-line detention pond near Mile 17 North and Uncle Peters Road to mitigate flooding up and downsteam of the Main Floodway channel.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - ✓ Infrastructure
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- Project Area

City/ Cities Edinburg

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

\$15,000,000

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Study Sponsor: Hidalgo County Drainage District #1 These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Hidalgo County Drainage District #1





Time to complete?	Ir		lazard Mitigation Yes ✓ No □ an or other plan?
Funding Dedicated? Yes	□ No ✓		ource of Funding FIF, local
Have the flood risk and flood r Have the flood risk and flood reduction impact Does the project have any negative effects, p Does the project have a Benefit Cost Ratio gr Does the project reduce flood risk for the 100 Does the Project provide a Water Supply Ben Has all the ROW been acquired? Will permits or interlocal agreements be need	reduction imports been evaluated? For TWDB guidelines? Feater than 1? D-Yr flood event? Fefit?	acts beer	
Related Goals			
 ✓ Increase community access routes to cri routes, during and after a flooding event Reduce the # of newly constructed vulne within the existing and future 100-YR flood Increase the # of communities participat Insurance Program □ Decrease the average age of FEMA Flood used to define SFHAs □ Increase the coverage of available flood studies with identified construction proj hazards □ Increase participation in the regional flood Provide regional detention that could be applications or as part of a floodplain materials. □ Increase acreage of publicly protected or 	terable critical facilities odplain ting in the National Fluctional Fluctiona	lood loos leting ing	Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
risk areas that is reused for a beneficial Increase outreach and education activiti municipal floodplain managers, hosted be available on the website Increase the use reverse 911, TV, radio, billboards to communicate flood warnin shelter locations Reduce the # of structures that have bee flooding events through property buyou RFPG Recommended Yes □ No ✓	es, specifically target by Region 15 RFPG ar social media, and gs, evacuation route en subject to repeate	s, and	can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Flood Mitigation Project

Hidalgo County Precinct 1 - Floodway Pumps

Fact Sheet

FMP Description

Repair and replacement of pumps along the floodway at Mile 12 1/3, Mile 14 1/2 and Mile 17 1/2.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)

FMP ID: 153000072

Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

> HUC 8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: No 🗆 Population at Risk # of structures inundated No \square Roadways flooded Yes ✓ Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete?

\$5,000,000 Study Sponsor: Hidalgo County Precinct 1

These are one-time costs for program development, education campaign, and nonengineering study costs.

Yes □ No □

Hidalgo County Precinct 1 **Entity with Oversight** Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan?





Funding Dedicated? Yes □ No ✓ (Poter	ntial) Source of Funding FIF, local
Have the flood risk and flood reduction impacts Have the flood risk and flood reduction impacts been evaluated?	
·	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities	☐ Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood	management plan Increase the # of flood gauges (rainfall/stream) in the region
Insurance Program	and case the nonnear gauges (ranner, or carry in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing	Increase the # of entities that integrate National Weather
studies with identified construction projects to address flooding hazards	Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website Increase the use reverse 911, TV, radio, social media, and	(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
billboards to communicate flood warnings, evacuation routes, and	encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that have been subject to repeated	incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	regulate development in the future conditions floodplain
RFPG Recommended	
Ves □ No ✓	





13th Street Regional Detention Facility

FMP ID: 153000073

FMP Description

13th Street Regional Detention Facility

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities Harlingen
County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

\$22,700,000

Notes:

Project Costs

Total Cost:
Non-reoccurring Non-capital
Cost (include in Total above):
Estimated year to start:
Time to complete?

Study Sponsor: Harlingen

These are one-time costs for program development, education campaign, and non-engineering study costs.

Yes □ No □

Entity with Oversight Harlingen
Included in a Hazard Mitigation
Action Plan or other plan?

Harlingen
Yes ✓ No □





Funding Dedicated? Yes □ No ✓ (Poter	ntial) Source of Funding FIF, local
Have the flood risk and flood reduction impacts Have the flood risk and flood reduction impacts been evaluated?	
·	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities	☐ Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood	management plan Increase the # of flood gauges (rainfall/stream) in the region
Insurance Program	and case the nonnear gauges (ranner, or carry in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing	Increase the # of entities that integrate National Weather
studies with identified construction projects to address flooding hazards	Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website Increase the use reverse 911, TV, radio, social media, and	(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
billboards to communicate flood warnings, evacuation routes, and	encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that have been subject to repeated	incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	regulate development in the future conditions floodplain
RFPG Recommended	
Ves □ No ✓	





Flood Mitigation Project

3rd Street Regional Detention Facility

Fact Sheet

FMP Description

3rd Street Regional Detention Facility

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)

FMP ID: 153000074

Infrastructure

Project Area

City/ Cities Harlingen County/ Counties Cameron

> HUC 8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: No □ Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Time to complete?

Total Cost: \$15,000,000 Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start:

Study Sponsor: Harlingen

These are one-time costs for program development, education campaign, and nonengineering study costs.

Yes □ No □

Entity with Oversight Harlingen Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan?





Funding Dedicated? Yes □ No ✓ (Poter	ntial) Source of Funding FIF, local
Have the flood risk and flood reduction impacts Have the flood risk and flood reduction impacts been evaluated?	
·	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities	☐ Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood	management plan Increase the # of flood gauges (rainfall/stream) in the region
Insurance Program	and case the nonnear gauges (ranner, or carry in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing	Increase the # of entities that integrate National Weather
studies with identified construction projects to address flooding hazards	Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website Increase the use reverse 911, TV, radio, social media, and	(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
billboards to communicate flood warnings, evacuation routes, and	encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that have been subject to repeated	incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	regulate development in the future conditions floodplain
RFPG Recommended	
Ves □ No ✓	





Flood Mitigation Project

System 32 Regional Detention Facility

Fact Sheet

FMP Description

System 32 Regional Detention Facility

			_	
Dr	\cap	ct	I \ /	$n_{\mathcal{L}}$
FIL	\cup \vdash	ct ⁻	ΙV	nc

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)

FMP ID: 153000075

Infrastructure

Project Area

City/ Cities Harlingen County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: No □ Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete?

\$1,800,000 Study Sponsor: Harlingen

These are one-time costs for program development, education campaign, and non-

Yes □ No □

engineering study costs.

Entity with Oversight Harlingen Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan?





Funding Dedicated? Yes □ No ✓ (Poter	ntial) Source of Funding FIF, local
Have the flood risk and flood reduction impacts Have the flood risk and flood reduction impacts been evaluated?	
·	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities	☐ Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood	management plan Increase the # of flood gauges (rainfall/stream) in the region
Insurance Program	and case the nonnear gauges (ranner, or carry in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing	Increase the # of entities that integrate National Weather
studies with identified construction projects to address flooding hazards	Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website Increase the use reverse 911, TV, radio, social media, and	(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
billboards to communicate flood warnings, evacuation routes, and	encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that have been subject to repeated	incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	regulate development in the future conditions floodplain
RFPG Recommended	
Ves □ No ✓	





Wilson-Morgan Regional Detention Facility

FMP Description

Wilson-Morgan Regional Detention Facility

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)

FMP ID: 153000076

Infrastructure

Project Area

City/ Cities Harlingen

County/ Counties Cameron

> HUC 8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: No □ Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Estimated year to start:

Time to complete?

Total Cost: \$8,600,000 Study Sponsor: Harlingen Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and nonengineering study costs. Cost (include in Total above):

> **Entity with Oversight** Harlingen Included in a Hazard Mitigation Yes ✓ No 🗆

Yes □ No □

Action Plan or other plan?





Funding Dedicated? Yes □ No ✓ (Poter	ntial) Source of Funding FIF, local
Have the flood risk and flood reduction impacts Have the flood risk and flood reduction impacts been evaluated?	
·	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities	☐ Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood	management plan Increase the # of flood gauges (rainfall/stream) in the region
Insurance Program	and case the nonnear gauges (ranner, or carry in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing	Increase the # of entities that integrate National Weather
studies with identified construction projects to address flooding hazards	Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website Increase the use reverse 911, TV, radio, social media, and	(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
billboards to communicate flood warnings, evacuation routes, and	encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that have been subject to repeated	incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	regulate development in the future conditions floodplain
RFPG Recommended	
Ves □ No ✓	





FMP ID: 153000077 Jefferson Regional Detention Facility

FMP Description

Jefferson Regional Detention Facility

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities Harlingen County/ Counties Cameron

> HUC 8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: No □ Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Time to complete?

Total Cost: \$15,000,000 Study Sponsor: Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and nonengineering study costs. Cost (include in Total above): Estimated year to start:

Entity with Oversight Harlingen Included in a Hazard Mitigation

Yes ✓ No 🗆 Action Plan or other plan?

Yes □ No □

Harlingen





Funding Dedicated? Yes □ No ✓ (Poter	ntial) Source of Funding FIF, local
Have the flood risk and flood reduction impacts Have the flood risk and flood reduction impacts been evaluated?	
·	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities	☐ Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood	management plan Increase the # of flood gauges (rainfall/stream) in the region
Insurance Program	and case the nonnear gauges (ranner, or carry in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing	Increase the # of entities that integrate National Weather
studies with identified construction projects to address flooding hazards	Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website Increase the use reverse 911, TV, radio, social media, and	(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
billboards to communicate flood warnings, evacuation routes, and	encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that have been subject to repeated	incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	regulate development in the future conditions floodplain
RFPG Recommended	
Ves □ No ✓	





West Street 10x10 Box Culvert

FMP ID: 153000078

FMP Description

West Street 10x10 Box Culvert

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities Harlingen
County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Time to complete?

Total Cost: \$22,000,000

Non-reoccurring Non-capital These are one-t
Cost (include in Total above): engineering stu
Estimated year to start:

Study Sponsor: Harlingen
These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight Harlingen
Included in a Hazard Mitigation Yes ✓ No □
Action Plan or other plan?





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			
Yes □ No ✓			





FMP ID: 153000079

Joint Use Irrigation Canal No. 1

FMP Description

Joint Use Irrigation Canal No. 1

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities Harlingen County/ Counties Cameron

> HUC 8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: No 🗆 Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

\$15,800,000

Notes:

Project Costs

Time to complete?

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start:

Study Sponsor: Harlingen

These are one-time costs for program development, education campaign, and non-

Yes □ No □

engineering study costs.

Entity with Oversight Harlingen Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan?





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			
Yes □ No ✓			





FMP ID: 153000080

System 23 Storm Sewer Drainage **Improvements**

FMP Description

System 23 Storm Sewer Drainage Improvements

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities Harlingen County/ Counties Cameron HUC 8 12110207, 12110258 HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: Yes ✓ No 🗆 Population at Risk # of structures inundated Roadways flooded Yes ✓ No □ Miles inundated? Agricultural Land impacted Yes
No Critical Facilities Impacted Yes □ No □ Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start:

Harlingen \$1,800,000 Study Sponsor:

> These are one-time costs for program development, education campaign, and nonengineering study costs.

Entity with Oversight Harlingen





Time to complete?		dazard Mitigation Yes ✓ No □ an or other plan?
Funding Dedicated? Yes \square No		ource of Funding FIF, local
Have the flood risk and flood reduction impacts been also the project have any negative effects, per TWI Does the project have a Benefit Cost Ratio greater to Does the project reduce flood risk for the 100-Yr flood the Project provide a Water Supply Benefit? Has all the ROW been acquired? Will permits or interlocal agreements be needed for	ction impacts bee en evaluated? 'DB guidelines? than 1? bod event?	
Related Goals		
 ✓ Increase community access routes to critical far routes, during and after a flooding event ☐ Reduce the # of newly constructed vulnerable within the existing and future 100-YR floodplai Increase the # of communities participating in Insurance Program ☐ Decrease the average age of FEMA Flood Insurused to define SFHAs ☐ Increase the coverage of available flood hazard studies with identified construction projects to hazards ☐ Increase participation in the regional flood plane Provide regional detention that could be used applications or as part of a floodplain manager ☐ Increase acreage of publicly protected open spendicular countries. 	critical facilities in the National Flood rance Rate Maps d data by completing address flooding nning process for water reuse ment program pace in critical flood	Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
risk areas that is reused for a beneficial public Increase outreach and education activities, spe municipal floodplain managers, hosted by Regi available on the website Increase the use reverse 911, TV, radio, social billboards to communicate flood warnings, eva shelter locations Reduce the # of structures that have been subj flooding events through property buyouts RFPG Recommended Yes □ No ✓	ecifically targeting ion 15 RFPG and media, and acuation routes, and	can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FMP ID: 153000081 System 23 Regional Detention Facility

FMP Description

System 23 Regional Detention Facility

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)

Yes □ No □

Infrastructure

Project Area

City/ Cities Harlingen County/ Counties Cameron

> HUC 8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: No □ Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Total Cost: \$1,800,000 Study Sponsor: Harlingen Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and nonengineering study costs. Cost (include in Total above):

> Included in a Hazard Mitigation Yes ✓ No 🗆

Estimated year to start: **Entity with Oversight** Harlingen Time to complete? Action Plan or other plan?





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			
Yes □ No ✓			





FMP ID: 153000082 Alt_West_107

FMP Description

Alt_West_107

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

> HUC 8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: No □ Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Time to complete?

Total Cost: \$35,336,000 Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start:

Study Sponsor: McAllen

These are one-time costs for program development, education campaign, and nonengineering study costs.

Yes □ No □

Entity with Oversight McAllen Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan?





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			
Yes □ No ✓			





Alt_RetireeHeaven

FMP ID: 153000083

FMP Description

Alt_RetireeHeaven_S10th

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

HUC 8 **12110207**,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Time to complete?

Total Cost: \$4,799,000

Non-reoccurring Non-capital These are one-ti
Cost (include in Total above): engineering stud
Estimated year to start:

These are one-time costs for program development, education campaign, and non-engineering study costs.

Entity with Oversight McAllen

Yes □ No □

McAllen

Entity with Oversight McAllen
Included in a Hazard Mitigation
Action Plan or other plan?

McAllen
Yes ✓ No □

Study Sponsor:





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended			
Yes □ No ✓			





FMP ID: 153000084

Alt_MilitaryHighway

FMP Description

Alt_MilitaryHighway

	A	_
Drc	NACT	IVIDA
FIL	ject i	IVDC

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

> HUC 8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: No □ Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted

Notes:

Project Costs

Total Cost: \$8,629,000 Study Sponsor: McAllen Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and nonengineering study costs. Cost (include in Total above):

> Included in a Hazard Mitigation Yes ✓ No 🗆

Yes □ No □

Estimated year to start: **Entity with Oversight** McAllen Time to complete? Action Plan or other plan?





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated 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 to Brownsville FIF - Project 1A North Main Drain and Imapala Ditch

FMP ID: 153000085

FMP Description

Channel, culvert road crossing, and pump station improvements on North Main Drain and Impala Ditch between International Blvd and the Impala Pump Station.

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)

130900020311

- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities **Brownsville** County/ Counties Cameron HUC 8 12110207, 12110258 HUC 12 121102080100, 121102080300,

Study Area (sq. mi.)

N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: Yes ✓ No 🗆 Population at Risk # of structures inundated Roadways flooded Yes ✓ No □ Miles inundated? Critical Facilities Impacted Agricultural Land impacted Yes □ No □ Yes 🗆 No 🗆

\$46,976,000

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start:

Study Sponsor: City of Brownsville These are one-time costs for program development, education campaign, and non-

engineering study costs.

Entity with Oversight City of Brownsville





Time to complete?	Ir		lazard Mitigation Yes ✓ No □ an or other plan?
Funding Dedicated? Yes	□ No ✓		ource of Funding FIF, local
Have the flood risk and flood r Have the flood risk and flood reduction impact Does the project have any negative effects, p Does the project have a Benefit Cost Ratio gr Does the project reduce flood risk for the 100 Does the Project provide a Water Supply Ben Has all the ROW been acquired? Will permits or interlocal agreements be need	reduction imports been evaluated? For TWDB guidelines? Feater than 1? D-Yr flood event? Fefit?	acts beer	
Related Goals			
 ✓ Increase community access routes to cri routes, during and after a flooding event Reduce the # of newly constructed vulne within the existing and future 100-YR flood Increase the # of communities participat Insurance Program □ Decrease the average age of FEMA Flood used to define SFHAs □ Increase the coverage of available flood studies with identified construction proj hazards □ Increase participation in the regional flood Provide regional detention that could be applications or as part of a floodplain materials. □ Increase acreage of publicly protected or 	terable critical facilities odplain ting in the National Fluctional Fluctiona	lood loos leting ing	Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
risk areas that is reused for a beneficial Increase outreach and education activiti municipal floodplain managers, hosted be available on the website Increase the use reverse 911, TV, radio, billboards to communicate flood warnin shelter locations Reduce the # of structures that have bee flooding events through property buyou RFPG Recommended Yes □ No ✓	es, specifically target by Region 15 RFPG ar social media, and gs, evacuation route en subject to repeate	s, and	can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





Port Isabel to Brownsville FIF - Project 1B North Main Drain and Four Corners

FMP ID: 153000086

No Structural Projects (Property easement acquisitions,

elevation of structures, flood-proofing, early warn systems)

FMP Description

Channel and culvert improvements along with one detention pond on North Main Drain between Rockwell Dr and Boca Chica Blvd

Project Type

- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - ects (wetlands, bioswales, river
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)

Project Area

City/ Cities Brownsville
County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$33,318,000 Study Sponsor: City of Brownsville
Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-

Cost (include in Total above): engineering study costs.

Estimated year to start: Entity with Oversight City of Brownsville





Time to complete?	Ir		lazard Mitigation Yes ✓ No □ an or other plan?
Funding Dedicated? Yes	□ No ✓		ource of Funding FIF, local
Have the flood risk and flood r Have the flood risk and flood reduction impact Does the project have any negative effects, p Does the project have a Benefit Cost Ratio gr Does the project reduce flood risk for the 100 Does the Project provide a Water Supply Ben Has all the ROW been acquired? Will permits or interlocal agreements be need	reduction imports been evaluated? For TWDB guidelines? Feater than 1? D-Yr flood event? Fefit?	acts beer	
Related Goals			
 ✓ Increase community access routes to cri routes, during and after a flooding event Reduce the # of newly constructed vulne within the existing and future 100-YR flood Increase the # of communities participat Insurance Program □ Decrease the average age of FEMA Flood used to define SFHAs □ Increase the coverage of available flood studies with identified construction proj hazards □ Increase participation in the regional flood Provide regional detention that could be applications or as part of a floodplain materials. □ Increase acreage of publicly protected or 	terable critical facilities odplain ting in the National Fluctional Fluctiona	lood loos leting ing	Increase the # of entities that adopt higher than NFIP-minimum standards Develop and maintain an operational stormwater asset management plan Increase the # of flood gauges (rainfall/stream) in the region Increase the # of entities that have multi-year drainage CIP list Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings Increase use of nature-based flood risk reduction projects Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
risk areas that is reused for a beneficial Increase outreach and education activiti municipal floodplain managers, hosted be available on the website Increase the use reverse 911, TV, radio, billboards to communicate flood warnin shelter locations Reduce the # of structures that have bee flooding events through property buyou RFPG Recommended Yes □ No ✓	es, specifically target by Region 15 RFPG ar social media, and gs, evacuation route en subject to repeate	s, and	can be utilized for future regional stormwater infrastructure Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FMP ID: 153000087

Port Isabel to Brownsville FIF - Project 2 Cameron County Ditch 1 at Confluence

FMP Description

Five large detention ponds on Cameron County Ditch 1 (CCD1) between Paredes Ln and Ruben Torress Blvd along with improvements to a culvert crossing on the CCD1 tributary.

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- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities **Brownsville**

HUC 8 12110207,

12110258

HUC 12 121102080100,

Cameron

121102080300,

130900020311

Study Area (sq. mi.) N/A

County/ Counties

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Time to complete?

Total Cost: \$99,275,000 Study Sponsor: City of Brownsville Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-Cost (include in Total above): engineering study costs. Estimated year to start:

Entity with Oversight City of Brownsville

Included in a Hazard Mitigation Yes ✓ No □





Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local Have the flood risk and flood reduction impacts been evaluated? Have the flood risk and flood reduction impacts been evaluated? Yes □ No ✓ Does the project have any negative effects, per TWDB guidelines? Yes □ No □ Unknown ✓ Does the project have a Benefit Cost Ratio greater than 1? Yes □ No □ Unknown ✓ Does the project reduce flood risk for the 100-Yr flood event? Yes □ No □ Unknown ✓ Does the Project provide a Water Supply Benefit? Yes □ No ✓ Has all the ROW been acquired? Yes □ No □ Will permits or interlocal agreements be needed for this project? Yes □ No □ Related Goals ✓ Increase community access routes to critical facilities, evacuation Increase the # of entities that adopt higher than NFIP-minimum routes, during and after a flooding event standards Reduce the # of newly constructed vulnerable critical facilities Develop and maintain an operational stormwater asset within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Flood Increase the # of flood gauges (rainfall/stream) in the region Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps Increase the # of entities that have multi-year drainage CIP list used to define SFHAs Increase the coverage of available flood hazard data by completing Increase the # of entities that integrate National Weather studies with identified construction projects to address flooding Service and USGS Texas Water Science Center (TXWSC) flood hazards warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water reuse Develop a regionally coordinated warning and emergency applications or as part of a floodplain management program response program that can detect the flood threat and provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical flood Increase the amount of publicly owned land in the region that risk areas that is reused for a beneficial public use can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically targeting Increase the proficiency of floodplain managers by increasing municipal floodplain managers, hosted by Region 15 RFPG and the # of them that are certified as Certified Floodplain Managers available on the website (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation routes, and encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs Reduce the # of structures that have been subject to repeated and FMPs; incorporate noncompliance penalties; and who flooding events through property buyouts regulate development in the future conditions floodplain RFPG Recommended Yes □ No ✓





FMP ID: 153000088

Port Isabel to Brownsville FIF - Project 3 Cameron County Ditch 1 at Cameron Park

FMP Description

Five extreme event storm sewer and overflow routing improvements for the Cameron Park neighborhood along Avenida Florencia.

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	ject ⁻

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities Brownsville

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? \$1,569,000 Study Sponsor: City of Brownsville

These are one-time costs for program development, education campaign, and nonengineering study costs.

Entity with Oversight City of Brownsville Included in a Hazard Mitigation Yes \checkmark No \square





Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local Have the flood risk and flood reduction impacts been evaluated? Have the flood risk and flood reduction impacts been evaluated? Yes □ No ✓ Does the project have any negative effects, per TWDB guidelines? Yes □ No □ Unknown ✓ Does the project have a Benefit Cost Ratio greater than 1? Yes □ No □ Unknown ✓ Does the project reduce flood risk for the 100-Yr flood event? Yes □ No □ Unknown ✓ Does the Project provide a Water Supply Benefit? Yes □ No ✓ Has all the ROW been acquired? Yes □ No □ Will permits or interlocal agreements be needed for this project? Yes □ No □ Related Goals ✓ Increase community access routes to critical facilities, evacuation Increase the # of entities that adopt higher than NFIP-minimum routes, during and after a flooding event standards Reduce the # of newly constructed vulnerable critical facilities Develop and maintain an operational stormwater asset within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Flood Increase the # of flood gauges (rainfall/stream) in the region Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps Increase the # of entities that have multi-year drainage CIP list used to define SFHAs Increase the coverage of available flood hazard data by completing Increase the # of entities that integrate National Weather studies with identified construction projects to address flooding Service and USGS Texas Water Science Center (TXWSC) flood hazards warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water reuse Develop a regionally coordinated warning and emergency applications or as part of a floodplain management program response program that can detect the flood threat and provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical flood Increase the amount of publicly owned land in the region that risk areas that is reused for a beneficial public use can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically targeting Increase the proficiency of floodplain managers by increasing municipal floodplain managers, hosted by Region 15 RFPG and the # of them that are certified as Certified Floodplain Managers available on the website (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation routes, and encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs Reduce the # of structures that have been subject to repeated and FMPs; incorporate noncompliance penalties; and who flooding events through property buyouts regulate development in the future conditions floodplain RFPG Recommended Yes □ No ✓





FMP ID: 153000089

Port Isabel to Brownsville FIF - Project 4 Town Resaca at West 5th Street

FMP Description

Storm sewer improvements near Palm Blvd, W 5th Street, Ebony St, and Ramireno Ln. along with a detention pond.

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- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities Brownsville

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Time to complete?

Total Cost: \$34,077,000 Study Sponsor: City of Brownsville

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and noncost (include in Total above): engineering study costs.

Cost (include in Total above): en Estimated year to start:

Entity with Oversight City of Brownsville Included in a Hazard Mitigation Yes \checkmark No \square





Action Plan or other plan? Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local Have the flood risk and flood reduction impacts been evaluated? Have the flood risk and flood reduction impacts been evaluated? Yes □ No ✓ Does the project have any negative effects, per TWDB guidelines? Yes □ No □ Unknown ✓ Does the project have a Benefit Cost Ratio greater than 1? Yes □ No □ Unknown ✓ Does the project reduce flood risk for the 100-Yr flood event? Yes □ No □ Unknown ✓ Does the Project provide a Water Supply Benefit? Yes □ No ✓ Has all the ROW been acquired? Yes □ No □ Will permits or interlocal agreements be needed for this project? Yes □ No □ Related Goals ✓ Increase community access routes to critical facilities, evacuation Increase the # of entities that adopt higher than NFIP-minimum routes, during and after a flooding event standards Reduce the # of newly constructed vulnerable critical facilities Develop and maintain an operational stormwater asset within the existing and future 100-YR floodplain management plan Increase the # of communities participating in the National Flood Increase the # of flood gauges (rainfall/stream) in the region Insurance Program Decrease the average age of FEMA Flood Insurance Rate Maps Increase the # of entities that have multi-year drainage CIP list used to define SFHAs Increase the coverage of available flood hazard data by completing Increase the # of entities that integrate National Weather studies with identified construction projects to address flooding Service and USGS Texas Water Science Center (TXWSC) flood hazards warning system information into their local capabilities to disseminate warnings Increase participation in the regional flood planning process Increase use of nature-based flood risk reduction projects Provide regional detention that could be used for water reuse Develop a regionally coordinated warning and emergency applications or as part of a floodplain management program response program that can detect the flood threat and provide timely warning of impending flood danger Increase acreage of publicly protected open space in critical flood Increase the amount of publicly owned land in the region that risk areas that is reused for a beneficial public use can be utilized for future regional stormwater infrastructure Increase outreach and education activities, specifically targeting Increase the proficiency of floodplain managers by increasing municipal floodplain managers, hosted by Region 15 RFPG and the # of them that are certified as Certified Floodplain Managers available on the website (CFM) with the Texas Floodplain Management Association Increase the use reverse 911, TV, radio, social media, and Increase participation in the Community Rating System by billboards to communicate flood warnings, evacuation routes, and encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs Reduce the # of structures that have been subject to repeated and FMPs; incorporate noncompliance penalties; and who flooding events through property buyouts regulate development in the future conditions floodplain RFPG Recommended Yes □ No ✓





FMP ID: 153000090

Port Isabel to Brownsville FIF - Project 5 Cameron County Ditch 1 at Golf Center

FMP Description

Channel and roadway crossing improvements on Cameron County Ditch 1 between Pablo Kisel Blvd and Dana Ave. Also incldes improvements to a man-made lake spillway and conversion of the city-owned golf course into a multi-use detention pond.

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- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)

 No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities Brownsville

County/ Counties Cameron

12110258

HUC 8 12110207,

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$45,497,000 Study Sponsor: City of Brownsville

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-

Cost (include in Total above): engineering study costs.

Estimated year to start: Entity with Oversight City of Brownsville

Time to complete? Included in a Hazard Mitigation Yes ✓ No □









FMP ID: 153000091

Port Isabel to Brownsville FIF - Project 6 Los Fresnos at East 10th St.

FMP Description

	th streets along with a detention pond.

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- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities Los Fresnos

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$4,419,000 Study Sponsor: City of Los Fresnos
Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-

engineering study costs.

Cost (include in Total above): Estimated year to start: Time to complete?

Entity with Oversight City of Los Fresnos Included in a Hazard Mitigation Yes ✓ No □









FMP ID: 153000092

Port Isabel to Brownsville FIF - Project 7 Cameron County Ditch 1 at Hwy 69E

FMP Description

Channel and roadway crossing improvements on Cameron County Ditch 1 between Laredo Rd and Pablo Kisel Blvd

Pro	ject ⁻	Гуре
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- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities Brownsville

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? \$7,691,000 Study Sponsor: City of Brownsville

These are one-time costs for program development, education campaign, and nonengineering study costs.

Entity with Oversight City of Brownsville Included in a Hazard Mitigation Yes \checkmark No \square









FMP ID: 153000093

Port Isabel to Brownsville FIF - Project 9 North Main Drain and Hwy 69E

FMP Description

Detention pond and storm sewer improvements on North Main Drain, west of Price Road and 69E.

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- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities Brownsville

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? \$32,468,000 Study Sponsor: City of Brownsville

These are one-time costs for program development, education campaign, and non-

engineering study costs.

Entity with Oversight City of Brownsville Included in a Hazard Mitigation Yes \checkmark No \square









FMP ID: 153000094

Port Isabel to Brownsville FIF - Project 11A Los Fresnos West Ocean Blvd

FMP Description

Channel and culvert crossing improvements along with a detention pond near TX-100 and Orive Blvd

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- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.) ✓ Infrastructure

Project Area

City/ Cities Los Fresnos

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$29,326,000 Study Sponsor: City of Los Fresnos

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-

Cost (include in Total above): engineering study costs.

Estimated year to start: Entity v

Estimated year to start: Entity with Oversight City of Los Fresnos Time to complete? Included in a Hazard Mitigation Yes ✓ No □









FMP ID: 153000095

Port Isabel to Brownsville FIF - Project 11B Los Fresnos West Ocean Blvd

FMP Description

Channel and culvert crossing improvements along with a detention pond near TX-100 and Evergreen St

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- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities Los Fresnos

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$16,965,000 Study Sponsor: City of Los Fresnos Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-Cost (include in Total above): engineering study costs.

Estimated year to start: Entity with Oversight City of Los Fresnos Time to complete?

Included in a Hazard Mitigation Yes ✓ No □









FMP ID: 153000096

Port Isabel to Brownsville FIF - Project 12 Town Resaca at Washington Park

FMP Description

Storm sewer improvements on E Madison St, E 7th St, and E Jackson St

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- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities Brownsville

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes 🗆 No 🗆 Agricultural Land impacted Yes 🗀 No 🗆

Notes:

Project Costs

Total Cost: \$8,685,000 Study Sponsor: City of Brownsville

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-

Cost (include in Total above): engineering study costs.

Estimated year to start: Entity with Oversight City of Brownsville

Time to complete? Included in a Hazard Mitigation Yes ✓ No □









FMP ID: 153000097

Cameron County Drainage District No. 5 **Enhanced Flood Warning System**

FMP Description

Upgrade 10 existing river gauges (dual radar/ pressure trans.) & tipping bucket. Install 7 new stream gauges. 5 of the seven new would have tipping buckets and 2 would have weighing rain gauges

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1 1 0		IVPC

- Structural Project (retention/ detention, levees, channelization, dams, No Structural Projects (Property easement acquisitions, low water crossing, flow structures, reservoirs, storm drainage elevation of structures, flood-proofing, early warn systems) improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river Infrastructure restorations, etc.)

Project Area

City/ Cities

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Time to complete?

\$180,000 **Total Cost:** Study Sponsor: Cameron County Drainage District No. 5 Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-Cost (include in Total above): engineering study costs. Estimated year to start:

Entity with Oversight Cameron County Drainage District No. 5

Included in a Hazard Mitigation Yes ✓ No □









FMP ID: 153000098

Delta Storm_La Villa Improvements

FMP Description

Improvements to the culvert	t crossings in Edcouch	and Elsa, channel widening	a and improvements, and	addition of retention facilities
improvements to the curvert	LI USSIIIRS III EULUULII	anu cisa, chamilei wideim	ik anu illibrovenients, anu	i audition of retention facilities

Project Type					
✓ Structural Pro	ssing, flow str	n/ detention, levees, char uctures, reservoirs, storr			perty easement acquisitions, od-proofing, early warn systems)
□ Nature Based restorations, €		ojects (wetlands, bioswa	ales, river ✓ Infrastru	icture	
Project Area City/C	ities				
County/ Cour	nties Hidalg o	o			
н	JC 8 12110 2	207,			
	121102	258			
HU	C 12 12110 2	2080100,			
	121102	2080300,			
	130900	0020311			
Study Area (sq.	mi.) N/A				
Emergency N Yes ✓ No □	eed				
Known Flood	Rick				
History of Flooding Population at Risk		Yes ✓ No 🗆	Frequency of flood # of structures inunda		
Roadways flooded Critical Facilit Notes:	ies Impacted	Yes ✓ No □ Yes □ No □	Miles inunda Agricultural Land impa		
Project Costs					
Total Cost: Non-reoccurring Nocost (include in Tota		\$13,100,000	Study Spor These are one-time costs for prog- engineering study costs.	•	nty Drainage District No. 1 Education campaign, and non-
Estimated year to s Time to complete?	start:		Entity with Overs Included in a Hazard Mitiga Action Plan or other p	tion Yes ✓ No	nty Drainage District No. 1
Funding Dedicated	?	Yes □ No 🗸	(Potential) Source of Fun		



Yes □ No ✓



Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	 Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards 	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use 	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website	(CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations 	 Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





FMP ID: 153000099

Delta Storm_Edcouch Elsa Improvements

FMP Description

Estimated year to start:

Time to complete?

Funding Dedicated?

Channel widening and detention facilities in Edcouch and Elsa

Pro	ject Type								
✓	Structural Project (r low water crossing, improvements, etc.	flow structu				ns, 🗆			easement acquisitions, ofing, early warn systems)
	Nature Based (Structurestorations, etc.)	ctural) Projec	cts (wetlar	nds, biosw	ales, river	✓	Infrastructure	2	
Pro	ject Area								
	City/ Cities								
	County/ Counties	Hidalgo							
	HUC 8	12110207,							
		12110258							
	HUC 12	121102080	100,						
		121102080	300,						
		130900020	311						
S	tudy Area (sq. mi.)	N/A							
	ergency Need ✓ No□								
Kno	wn Flood Risl	<							
Pop	ory of Flooding? ulation at Risk		Yes ✓			f structur	y of flooding: es inundated		
Road	dways flooded Critical Facilities Im es:	pacted	Yes ✓ Yes □	-	Agrio		s inundated? and impacted	Yes 🗆 No 🗆	
Proj	ject Costs								
Non	Il Cost: -reoccurring Non-ca (include in Total above		\$10,	560,000	These are one-t	time costs	udy Sponsor: for program d	,	ainage District No. 1 ion campaign, and non-

Entity with Oversight

Included in a Hazard Mitigation

Yes □ No ✓

Action Plan or other plan?

(Potential) Source of Funding

Hidalgo County Drainage District No. 1

Yes ✓ No 🗆

FIF, local



Yes □ No ✓



Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	 Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards 	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use 	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website	(CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations 	 Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





FMP ID: 153000100

Northeast Pharr Mitigation Project

FMP Description

Funding Dedicated?

Install 7955-linear feet of reinforced concrete box culvert improvements from Business 83 Street to the PSJA drain. Install curb inlet capture systems approximately every 500-feet across subdivisions and repave roadways.

Pro	ject Type					
√	Structural Project (r	flow structu	etention, levees, cha ures, reservoirs, stor			al Projects (Property easement acquisitions, structures, flood-proofing, early warn systems)
	Nature Based (Structurestorations, etc.)	ctural) Proje	cts (wetlands, biosw	ales, river	✓ Infrastructui	re
Pro	ject Area					
	City/ Cities	Pharr				
	County/ Counties	Hidalgo				
	HUC 8	12110207,	,			
		12110258				
	HUC 12	121102080	0100,			
		121102080	0300,			
		130900020	0311			
9	Study Area (sq. mi.)	N/A				
	ergency Need ✓ No□					
Knc	own Flood Risl	k				
Hist	ory of Flooding? ulation at Risk		Yes ✓ No 🗆		equency of flooding: tructures inundated	
Roa Not	dways flooded Critical Facilities Im es:	pacted	Yes ✓ No □ Yes □ No □	Agricul	Miles inundated? tural Land impacted	
Pro	ject Costs					
Tota Nor Cos	al Cost: n-reoccurring Non-ca t (include in Total abov mated year to start:	•	\$15,550,200	engineering study		development, education campaign, and non-
Tim	e to complete?			Included in	a Hazard Mitigation	Yes ✓ No 🗆

Action Plan or other plan? (Potential) Source of Funding

FIF, local

Yes □ No ✓



Yes □ No ✓



Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	 Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards 	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use 	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website	(CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations 	 Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





FMP ID: 153000101

Olmito Townsite Flood Mitigation Project

FMP Description

Funding Dedicated?

Install storm sewer improvements across US77 to connect to outfall ditch to the east of the Olmito Townsite.

Project Type										
Structural Project (r low water crossing, improvements, etc.	flow structure					No Structural elevation of st				
Nature Based (Structurestorations, etc.)	ctural) Projects	(wetland	ls, bioswa	ales, river	✓	Infrastructure				
Project Area City/ Cities										
County/ Counties	Cameron									
HUC 8	12110207,									
	12110258									
HUC 12	12110208010	00,								
	12110208030	00,								
	1309000203	l 1								
Study Area (sq. mi.)	N/A									
Emergency Need Yes ✓ No□										
Known Flood Risl	<									
History of Flooding? Population at Risk		Yes ✓ I	No □			y of flooding: res inundated				
Roadways flooded Critical Facilities Im Notes:		Yes ✓ I Yes □ I	No □ No □	Agricult		es inundated? and impacted	Yes 🗆	No 🗆		
Project Costs										
Total Cost: Non-reoccurring Non-ca Cost (include in Total above Estimated year to start:		\$5,6	05,079	These are one-time engineering study	e costs. costs.	eudy Sponsor: Sifor program d With Oversight	evelopme	n County ent, educati n County	ion campaigr	n, and non-
Time to complete?				Included in a	a Haza	rd Mitigation or other plan?	Yes ✓	-		

(Potential) Source of Funding FIF, local

Yes □ No ✓



Yes □ No ✓



Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain	 Develop and maintain an operational stormwater asset management plan
☐ Increase the # of communities participating in the National Flood Insurance Program	Increase the # of flood gauges (rainfall/stream) in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
 Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards 	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use 	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website	(CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations 	 Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





FMP ID: 153000102

Alton MDP - North Stewart Boulevard Alternative 1

FMP Description

Alternative 2 is designed to remove structures from the 10-year floodplain and more frequent storms. This alternative consists of the construction of 6,600 LF of a single 8' X 4' reinforced concrete box sloped at 0.02% from the Val Verde Acres Subdiv

Pro	oject Type		
✓	Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)		No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
	Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)	✓	Infrastructure
Pro	oject Area		
	City/ Cities Alton		

County/ Counties Hidalgo HUC 8 12110207, 12110258 HUC 12 121102080100, 121102080300, 130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding: Population at Risk # of structures inundated Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □

Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$23,000,000 Study Sponsor: City of Alton Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-

Cost (include in Total above): engineering study costs. Estimated year to start: Entity with Oversight City of Alton Time to complete?

Included in a Hazard Mitigation Yes ✓ No □









FMP ID: 153000103

Drain C-Right Culvert Improvements

FMP 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.

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- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities

County/ Counties Cameron

> HUC 8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: No 🗆 Population at Risk # of structures inundated Roadways flooded Yes ✓ No □ Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes 🗆 No 🗆

Project Costs

Notes:

\$8,437,502 **Total Cost:** Cameron County Drainage District No. 3 Study Sponsor: Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and nonengineering study costs. Cost (include in Total above): Cameron County Drainage District No. 3 Estimated year to start: **Entity with Oversight** Time to complete?

Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan?





Funding Dedicated?	Yes □ No ✓ (Poter	ntial) S	ource of Funding FIF, local
Have the flood risk and f	•	bee	
Have the flood risk and flood reduct	ion impacts been evaluated?		Yes □ No ✓
Does the project have any negative	effects, per TWDB guidelines?		Yes □ No □ Unknown ✓
Does the project have a Benefit Cost	Ratio greater than 1?		Yes □ No □ Unknown ✓
Does the project reduce flood risk fo	or the 100-Yr flood event?		Yes □ No □ Unknown ✓
Does the Project provide a Water Su	pply Benefit?		Yes □ No ✓
Has all the ROW been acquired?			Yes □ No □
Will permits or interlocal agreement	s be needed for this project?		Yes □ No □
Related Goals			
 Increase community access rou routes, during and after a flood 	tes to critical facilities, evacuation ling event		Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly construction and fortuna 1			Develop and maintain an operational stormwater asset
within the existing and future 1 Increase the # of communities Insurance Program	participating in the National Flood		management plan Increase the # of flood gauges (rainfall/stream) in the region
G	MA Flood Insurance Rate Maps		Increase the # of entities that have multi-year drainage CIP list
	ble flood hazard data by completing tion projects to address flooding		Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the reg			Increase use of nature-based flood risk reduction projects
 Provide regional detention that applications or as part of a floo 			Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase acreage of publicly prorisk areas that is reused for a be 	otected open space in critical flood eneficial public use		Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
	on activities, specifically targeting hosted by Region 15 RFPG and		Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
 Increase the use reverse 911, T billboards to communicate floo 	V, radio, social media, and d warnings, evacuation routes, and		Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that flooding events through proper	•		incorporate dedicated 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 F-23 Culvert Improvements

FMP ID: 153000104

FM	Р	Descr	int	ior
		0001	100	\cdot

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

Project Type					
Structural Project (low water crossing, improvements, etc	flow structure				Projects (Property easement acquisitions, tructures, flood-proofing, early warn systems
□ Nature Based (Stru restorations, etc.)	ctural) Projects	(wetlands, biosw	rales, river	✓ Infrastructure	
Project Area City/ Cities					
County/ Counties	Cameron				
HUC 8	12110207,				
	12110258				
HUC 12	12110208010	00,			
	12110208030	00,			
	13090002031	1			
Study Area (sq. mi.)	N/A				
Emergency Need	I				
Known Flood Ris	L				
History of Flooding? Population at Risk Roadways flooded Critical Facilities In Notes:		Yes ✓ No □ Yes ✓ No □ Yes □ No □	# of s	equency of flooding: tructures inundated Miles inundated? tural Land impacted	Yes □ No □
Project Costs					
Total Cost: Non-reoccurring Non-ca Cost (include in Total abov Estimated year to start: Time to complete?		\$3,070,137	engineering study E Included in	e costs for program o	Cameron County Drainage District No. 3 development, education campaign, and non- Cameron County Drainage District No. 3 Yes ✓ No □
Funding Dedicated?		Yes □ No ✓		l) Source of Funding	FIF, local



Yes □ No 🗸



Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities	Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region
 □ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website 	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CENA) with the Toyon Floodplain Management Association
 Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations 	 (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





FMP ID: 153000105

Drain D Channel Improvements

FMP Description

Drain D Channel Improvements

D		г
Pro	ject 7	IVne
1 1 0		, урс

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)

 No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Critical Facilities Impacted

No □

Yes ✓ No □

No □

Agricultural Land impacted

Yes □ No □

Notes:

Project Costs

Total Cost: \$3,885,584 Study Sponsor: Cameron County Drainage District No. 3

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and noncost (include in Total above): engineering study costs.

Estimated year to start: Entity with Oversight Time to complete? Cameron County Drainage District No. 3

Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local



Yes □ No 🗸



Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities	Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region
 □ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website 	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CENA) with the Toyon Floodplain Management Association
 Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations 	 (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





Flood Mitigation Project

Zacate Creek Channel Improvements

Fact Sheet

FMP Description

Zacate Creek Channel Improvements.

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- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)

FMP ID: 153000106

Infrastructure

Project Area

City/ Cities Laredo

County/ Counties Webb

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency 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:

Project Costs

Time to complete?

Total Cost: \$700,000 Study Sponsor: City of Laredo

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-Cost (include in Total above): engineering study costs.

Estimated year to start:

Entity with Oversight City of Laredo Included in a Hazard Mitigation Yes ✓ No 🗆

Action Plan or other plan?

Funding Dedicated? (Potential) Source of Funding FIF, local Yes □ No ✓



Yes □ No 🗸



Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities	Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region
 □ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website 	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CENA) with the Toyon Floodplain Management Association
 Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations 	 (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





McAllen MDP - Study 1 Monte Cristo Hoen Rd Subdivision

FMP ID: 153000107

FMP Description

McAllen MDP - Study 1 Monte Cristo Hoen Rd Subdivision

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- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)

 No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

12110258

HUC 12 121102080100,

HUC 8 12110207,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$4,799,000 Study Sponsor: City of McAllen

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-cost (include in Total above): engineering study costs.

Estimated year to start: Entity with Oversight City of McAllen Time to complete? Included in a Hazard Mitigation Yes ✓ No ☐ Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local



Yes □ No 🗸



Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities	Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region
 □ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website 	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CENA) with the Toyon Floodplain Management Association
 Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations 	 (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





FMP ID: 153000108

McAllen MDP - Study 2 Shary Rd and 6MI Intersection

FMP Description

McAllen MDP - Study 2 Shary Rd and 6MI Imtersection

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Infrastructure

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: Non-reoccurring Non-capital Cost (include in Total above): Estimated year to start: Time to complete? \$8,629,000 Study Sponsor: City of McAllen

These are one-time costs for program development, education campaign, and nonengineering study costs.

gineering study costs.

Entity with Oversight Ci

Entity with Oversight City of McAllen Included in a Hazard Mitigation Yes \checkmark No \square Action Plan or other plan?





Funding Dedicated? Yes □ No ✓ (Poter	ntial) Source of Funding FIF, local
Have the flood risk and flood reduction impacts Have the flood risk and flood reduction impacts been evaluated?	
·	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
Reduce the # of newly constructed vulnerable critical facilities	☐ Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood	management plan Increase the # of flood gauges (rainfall/stream) in the region
Insurance Program	and case the nonnear gauges (ranner, or carry in the region
 Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing	Increase the # of entities that integrate National Weather
studies with identified construction projects to address flooding hazards	Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and 	 Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
available on the website Increase the use reverse 911, TV, radio, social media, and	(CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by
billboards to communicate flood warnings, evacuation routes, and	encouraging Region 15 floodplain management programs to
shelter locations Reduce the # of structures that have been subject to repeated	incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who
Reduce the # of structures that have been subject to repeated flooding events through property buyouts	regulate development in the future conditions floodplain
RFPG Recommended	
Ves □ No ✓	





FMP ID: 153000109

McAllen MDP - Study 3 SH107 East

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McAllen MDP - Study 3 SH107 East

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- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)

 No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
 - Nature Based (Structural) Projects (wetlands, bioswales, river ✓ Infrastructure restorations, etc.)

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No□

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes 🗆 No 🗆 Agricultural Land impacted Yes 🗀 No 🗆

Notes:

Project Costs

Total Cost: \$15,550,200 Study Sponsor: City of McAllen

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non cost (include in Total above): engineering study costs.

Estimated year to start: Entity with Oversight City of McAllen Time to complete? Entity with Oversight City of McAllen Yes ✓ No □

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local



Yes □ No ✓



Flood Mitigation Project Fact Sheet

Yes □ No ✓
Yes □ No □ Unknown ✓
Yes □ No □ Unknown 🗸
Yes □ No □ Unknown 🗸
Yes □ No ✓
Yes □ No □
Yes □ No □
☐ Increase the # of entities that adopt higher than NFIP-minimum standards
 Develop and maintain an operational stormwater asset management plan
Increase the # of flood gauges (rainfall/stream) in the region
☐ Increase the # of entities that have multi-year drainage CIP list
 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase use of nature-based flood risk reduction projects
 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
(CFM) with the Texas Floodplain Management Association ☐ Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FMP ID: 153000110

McAllen MDP - Study 4 Bentsen Rd

FMP Description

McAllen MDP - Study 4 Betnsen Rd

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300.

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No□

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes 🗆 No 🗆 Agricultural Land impacted Yes 🗀 No 🗆

Notes:

Project Costs

Total Cost: \$4,560,000 Study Sponsor: City of McAllen

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-cost (include in Total above): engineering study costs.

Estimated year to start: Entity with Oversight City of McAllen Time to complete? Entity with Oversight City of McAllen Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local



Yes □ No ✓



Flood Mitigation Project Fact Sheet

Yes □ No ✓
Yes □ No □ Unknown ✓
Yes □ No □ Unknown 🗸
Yes □ No □ Unknown 🗸
Yes □ No ✓
Yes □ No □
Yes □ No □
☐ Increase the # of entities that adopt higher than NFIP-minimum standards
 Develop and maintain an operational stormwater asset management plan
Increase the # of flood gauges (rainfall/stream) in the region
☐ Increase the # of entities that have multi-year drainage CIP list
 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase use of nature-based flood risk reduction projects
 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
(CFM) with the Texas Floodplain Management Association ☐ Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





FMP ID: 153000111

Drain J01

FMP Description

The Drain J01 FMP aims to replace the present 24 in RCP with 48 in RCP to divert. The 36 in RCP will be removed/plugged

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- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage elevation improvements, etc.)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- ✓ Infrastructure

Project Area

City/ Cities McAllen

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300.

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No□

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Time to complete?

Total Cost: \$603,663.00 Study Sponsor: Hidalgo County Drainage District No. 1

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and nonCost (include in Total above): engineering study costs.

Estimated year to start: Entity with Oversight Hidalgo County Drainage District No. 1

Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local



Yes □ No ✓



Flood Mitigation Project Fact Sheet

Yes □ No ✓
Yes □ No □ Unknown ✓
Yes □ No □ Unknown 🗸
Yes □ No □ Unknown 🗸
Yes □ No ✓
Yes □ No □
Yes □ No □
☐ Increase the # of entities that adopt higher than NFIP-minimum standards
 Develop and maintain an operational stormwater asset management plan
Increase the # of flood gauges (rainfall/stream) in the region
☐ Increase the # of entities that have multi-year drainage CIP list
 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase use of nature-based flood risk reduction projects
 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers
(CFM) with the Texas Floodplain Management Association ☐ Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to
incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain





2023 Bond Project 24 - F-13 F02

FMP ID: 153000112

FMP Description

This project is approximately 4.7 miles of channel improvements includes widening ditches F-13 and F-02 within existing right of way, from Hwy 281 to Floodway Levee.

Project Type

- ✓ Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)

 No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$1,460,000.00 Study Sponsor: Hidalgo County Drainage District No. 1

Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and noncost (include in Total above): engineering study costs.

Estimated year to start: Entity with Oversight Time to complete? Hidalgo County Drainage District No. 1

Included in a Hazard Mitigation Yes ✓ No □

Action Plan or other plan?

Funding Dedicated? Yes □ No ✓ (Potential) Source of Funding FIF, local





Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes No
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities	☐ Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region
☐ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CENA) with the Taylor Floodplain Managers at Association
available on the website Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	(CFM) with the Texas Floodplain Management Association ☐ Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





2018 Bond Project 34 South Lateral

FMP ID: 153000113

FMP Description

This project proposes three detention pond on the both side of East Las Milpas Rd. The proposed project also includes channel widening. The project cost is approximately \$4,538,85 2which resulted in a benefit cost ratio of 0.5.

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- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)

 No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- ✓ Infrastructure

Project Area

City/ Cities Las Milpas

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$4,538,852.00 Study Sponsor: Hidalgo County Drainage District No. 1 Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and nonengineering study costs. Cost (include in Total above): Hidalgo County Drainage District No. 1 Estimated year to start: **Entity with Oversight** Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan? Funding Dedicated? (Potential) Source of Funding FIF, local Yes □ No ✓





Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes No
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities	☐ Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region
 □ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
☐ Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CENA) with the Taylor Floodplain Managers at Association
available on the website Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations	(CFM) with the Texas Floodplain Management Association ☐ Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





Downtown Pharr Alternative

FMP ID: 153000114

FMP Description

The proposed improvements include channel widening, benching, clearing, longitudinal grading and will require limited grading outside of the existing R.O.W.

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- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)

 No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)
- Infrastructure

Project Area

City/ Cities Pharr

County/ Counties Hidalgo

HUC 8 12110207,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?

Population at Risk

Roadways flooded

Critical Facilities Impacted

No □

Frequency of flooding:

of structures inundated

Miles inundated?

Agricultural Land impacted

Yes □ No □

Notes:

Project Costs

Total Cost: \$22,210,000.00 Study Sponsor: City of Pharr Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and nonengineering study costs. Cost (include in Total above): Estimated year to start: **Entity with Oversight** City of Pharr Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan? Funding Dedicated? (Potential) Source of Funding FIF, local Yes □ No ✓





Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities	Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region
 □ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website 	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CENA) with the Toyon Floodplain Management Association
 Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations 	 (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





Floodway Pump Stations (Main)

FMP ID: 153000115

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The proposed project will involve upgrading five outfalls into the North Floodway with the addition to the construction of new pump stations.

P	roj	ject	T	уре

✓	Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)		No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
П	Nature Based (Structural) Projects (wetlands, bioswales, river	✓	Infrastructure

Project Area

City/ Cities

restorations, etc.)

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 **121102080100**,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✔ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Project Costs

Total Cost:	\$2,360,700.00	Study Sponsor:	Cameron County Drainage District No. 6
Non-reoccurring Non-capital		These are one-time costs for program a	levelopment, education campaign, and non-
Cost (include in Total above):		engineering study costs.	
Estimated year to start:		Entity with Oversight	Cameron County Drainage District No. 6
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No 🗆
		Action Plan or other plan?	
Funding Dedicated?	Yes □ No ✓	(Potential) Source of Funding	FIF, local





Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities	Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region
 □ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website 	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CENA) with the Toyon Floodplain Management Association
 Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations 	 (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





Floodway Pump Stations (Parker)

FMP ID: 153000116

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The proposed project will involve upgrading five outfalls into the North Floodway with the addition to the construction of new pump stations.

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- Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)
 Nature Based (Structural) Projects (wetlands, bioswales, river

 No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
- restorations, etc.)

Project Area

City/ Cities

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Yes ✓ No □ Frequency of flooding:

Population at Risk # of structures inundated

Roadways flooded Yes ✓ No □ Miles inundated?

Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$2,360,700.00 Study Sponsor: Cameron County Drainage District No. 6 Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-Cost (include in Total above): engineering study costs. Estimated year to start: **Entity with Oversight** Cameron County Drainage District No. 6 Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan? Funding Dedicated? (Potential) Source of Funding FIF, local Yes □ No ✓





Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities	Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region
 □ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website 	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CENA) with the Toyon Floodplain Management Association
 Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations 	 (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





Flood Mitigation Project

FMP ID: 153000117

Floodway Pump Stations (Thompson)

Fact Sheet

FMP Description

The proposed project will involve upgrading five outfalls into the North Floodway with the addition to the construction of new pump stations.

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- Structural Project (retention/ detention, levees, channelization, dams, No Structural Projects (Property easement acquisitions, low water crossing, flow structures, reservoirs, storm drainage elevation of structures, flood-proofing, early warn systems) improvements, etc.) Infrastructure
 - Nature Based (Structural) Projects (wetlands, bioswales, river restorations, etc.)

Project Area

City/ Cities

County/ Counties Cameron

> HUC 8 12110207,

> > 12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding? Frequency of flooding: Yes ✓ No 🗆 # of structures inundated Population at Risk Roadways flooded Yes ✓ No 🗆 Miles inundated? Critical Facilities Impacted Yes □ No □ Agricultural Land impacted Yes □ No □

Notes:

Project Costs

Total Cost: \$2,360,700.00 Study Sponsor: Cameron County Drainage District No. 6 Non-reoccurring Non-capital These are one-time costs for program development, education campaign, and non-Cost (include in Total above): engineering study costs. Estimated year to start: **Entity with Oversight** Cameron County Drainage District No. 6 Time to complete? Included in a Hazard Mitigation Yes ✓ No 🗆 Action Plan or other plan?

Funding Dedicated? (Potential) Source of Funding FIF, local Yes □ No ✓





Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities	Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region
 □ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
 Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website 	Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CENA) with the Toyon Floodplain Management Association
 Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations 	 (CFM) with the Texas Floodplain Management Association Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs
☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	





Flood Mitigation Project

Floodway Pump Stations (Adams Gardens)

Fact Sheet

FMP ID: 153000118

FMP Description

The proposed project will involve upgrading five outfalls into the North Floodway with the addition to the construction of new pump stations.

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✓	Structural Project (retention/ detention, levees, channelization, dams, low water crossing, flow structures, reservoirs, storm drainage improvements, etc.)		No Structural Projects (Property easement acquisitions, elevation of structures, flood-proofing, early warn systems)
	Nature Based (Structural) Projects (wetlands, bioswales, river	✓	Infrastructure

Project Area

City/ Cities

restorations, etc.)

County/ Counties Cameron

HUC 8 12110207,

12110258

HUC 12 121102080100,

121102080300,

130900020311

Study Area (sq. mi.) N/A

Emergency Need

Yes ✓ No 🗆

Known Flood Risk

History of Flooding?	Yes ✔ No 🗆	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes ✓ No 🗆	Miles inundated?	
Critical Facilities Impacted	Yes □ No □	Agricultural Land impacted	Yes □ No □
Notes:			

Project Costs

Total Cost:	\$2,360,700.00	Study Sponsor:	Cameron County Drainage District No. 6
Non-reoccurring Non-capital		These are one-time costs for program a	levelopment, education campaign, and non-
Cost (include in Total above):		engineering study costs.	
Estimated year to start:		Entity with Oversight	Cameron County Drainage District No. 6
Time to complete?		Included in a Hazard Mitigation	Yes ✓ No 🗆
		Action Plan or other plan?	
Funding Dedicated?	Yes □ No 🗸	(Potential) Source of Funding	FIF, local





Flood Mitigation Project Fact Sheet

Have the flood risk and flood reduction impacts been evaluated?	Yes □ No ✓
Does the project have any negative effects, per TWDB guidelines?	Yes □ No □ Unknown ✓
Does the project have a Benefit Cost Ratio greater than 1?	Yes □ No □ Unknown ✓
Does the project reduce flood risk for the 100-Yr flood event?	Yes □ No □ Unknown ✓
Does the Project provide a Water Supply Benefit?	Yes □ No ✓
Has all the ROW been acquired?	Yes □ No □
Will permits or interlocal agreements be needed for this project?	Yes □ No □
Related Goals	
✓ Increase community access routes to critical facilities, evacuation routes, during and after a flooding event	☐ Increase the # of entities that adopt higher than NFIP-minimum standards
☐ Reduce the # of newly constructed vulnerable critical facilities	Develop and maintain an operational stormwater asset
within the existing and future 100-YR floodplain Increase the # of communities participating in the National Flood Insurance Program	management plan Increase the # of flood gauges (rainfall/stream) in the region
 □ Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs 	☐ Increase the # of entities that have multi-year drainage CIP list
☐ Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards	 Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
☐ Increase participation in the regional flood planning process	☐ Increase use of nature-based flood risk reduction projects
 Provide regional detention that could be used for water reuse applications or as part of a floodplain management program 	 Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
☐ Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use	 Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
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☐ Reduce the # of structures that have been subject to repeated flooding events through property buyouts	and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain
RFPG Recommended	