Regional Mitigation Program

Texas General Land Office

Community Development & Revitalization

Coastal Bend Council of Governments

2022-100781-RMP

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Regional Mitigation Program Application

General

Applicant Information

Applicant: Coastal Bend Council of Governments

County: Nueces

Program: Regional Mitigation Program: CBCOG - HUD MID

COG: Coastal Bend Council of Governments (CBCOG)

Phone Number: (361) 883-5743

Address: 2910 Leopard Street, Corpus Christi, Texas 78408

Website: www.coastalbendcog.org

Employer Identification Number (EIN): 741586230

Taxpayer Identification Numbers (TIN): 17415862303

UEI (Unique Entity Identifier): XYL3BD6EM3D9

Data Universal Numbering System (DUNS): 832334234

SAM.gov Registration Expiration Date: 09-25-2025

Is the applicant an eligible subrecipient applying in conjunction with or on behalf of another entity (non-city) within the county? No

How much funding was the applicant allocated by the approved COG MOD? $4,488,700.00

Is the applicant participating in the National Flood Insurance Program? No

Fiscal Year End Date (Month): December

Fiscal Year End Date (Day): 31

Application Contacts

Contact Role	Organization	First Name	Last Name	Title	Phone	Email
Engineer	Stantec	Mason	Liebau, PE, CFM, SIT	Engineering Discipline Lead	(210) 714-9980	mason.liebau@stantec.com
Authorized Representative	Coastal Bend Council of Governments	Emily	Martinez	Executive Director	(361) 883-5743	emily@coastalbendcog.org

Contact Role	Organization	First Name	Last Name	Title	Phone	Email
Primary Contact	Coastal Bend Council of Governments	Mary	Afuso	Director of Planning and Economic Development	(361) 883-5743	mafuso@coastalbendcog.org
Grant Administrator	Coastal Bend Council of Governments	Mary	Afuso	Director of Planning and Economic Development	(361) 883-5743	mafuso@coastalbendcog.org
Chief Elected Official	San Patricio County	David	Krebs	County Judge	(361) 364-9301	dkrebs@sanpatriciocountytx.gov

SF-424 Questions

Applicant Type: Council of Governments

Application Title: Coastal Bend Resilience Resources

Is the applicant delinquent on any federal debt? No

Activities

Activity

DRGR Activity	Planned Budget Amount
Planning	$4,488,700.00

Project

Project Site Title	Street Address	Latitude (Rounded)
Regional	2910 Leopard	0.00000
CBCOG	2910 Leopard	27.80058
CBCOG	2910 Leopard	27.80058
CBCOG	2910 Leopard	27.80058

Budget Line Summary

Total Engineering over Total Construction:

Total Admin + Environmental over Total Amount Requested: 6.42%

Allowable Fee Percentage Cap for Admin + Environmental: 8%

Program Budget Code	Planned/Requested Amount
Acquisition	$0.00
Environmental	$0.00
Special Environmental	$0.00
Grant Administration	$0.00
Engineering	$0.00
Construction	$0.00
Planning	$1,000,355.00
Planning	$1,200,000.00
Acquisition	$0.00
Environmental	$0.00
Special Environmental	$0.00
Grant Administration	$96,000.00
Engineering	$0.00
Construction	$0.00

Program Budget Code	Planned/Requested Amount
Grant Administration	$112,345.00
Planning	$1,000,000.00
Grant Administration	$80,000.00
Acquisition	$0.00
Environmental	$0.00
Special Environmental	$0.00
Engineering	$0.00
Construction	$0.00
Planning	$1,000,000.00
Acquisition	$0.00
Environmental	$0.00
Engineering	$0.00
Special Environmental	$0.00
Construction	$0.00

Duplication of Benefits

FEMA Coverage

Did you receive any FEMA funding? No

Do you anticipate any FEMA funding? No

Was the proposed project eligible for FEMA? No

Is the budget in this application funding for the nonfederal share of a FEMA project? No

If yes, have funds been awarded?

If FEMA funds were received, explain why funds are needed above and beyond the FEMA funding:

Insurance Coverage

Did the applicant have insurance coverage on the proposed project? No

Name of Insurance Company:

Amount claimed/received for the project:

If a claim was not filed, please explain below:

Explain why funds are required above and beyond the insurance funding:

Other Funding

Has the applicant submitted a request to fund a part of or the whole project described in the application? No

Are local or other funds available to address the proposed project in whole or in part?

Have any other state and/or federal agencies been contacted concerning funding for the proposed project? No

Disclose source(s) and use(s) of non-CDBG-MIT funds (Each row is a funding source):

Fair Housing

What methods and criteria were used to prioritize the projects in the application, including affirmatively furthering fair housing? A Housing Study is a main component of this application. The project was chosen because it aligned with CEDS Goal 2: Strengthen Resilient Infrastructure Investments, adopted by the CBCOG Board during the October 2021 meeting. Objective 2.4 states "Housing affordability is advanced with a diversity of resilient housing options to all" Strategic Action 1: Facilitate Discussions to build consensus among stakeholders on resilient housing needs and options

What are the identified protected classes, racially and ethnically concentrated areas, and concentrated areas of poverty that may be impacted by this project? The study will be focused on Census Block Groups in Aransas, San Patricio and Nueces Counties that have been identified as at least 51% LMI. The majority of the residents in these block groups are people of color - either Hispanic or Black.

Provide a meaningful analysis that describes how these identified populations may be impacted by this project. The study will be provided to elected, community and economic development leaders to be used as a tool to make informed decisions regarding building codes and development decisions to benefit the citizens in these areas.

For each fair housing activity, provide a name and status. If the activity is Completed, enter the Date Initiated. If the activity is Planned, enter the To Be Completed By date:

Item	Name	Status	Date Initiated	To be completed by
Fair Housing Activity 1	Inventory of Housing & Community Services	Planned	02-01-2025	01-31-2028
Fair Housing Activity 2	Stakeholder Engagement	Planned	02-01-2024	01-31-2028
Fair Housing Activity 3	Gap Analysis	Planned	02-01-2024	01-31-2028
Fair Housing Activity 4	Recommend Actions and Identify Additional Funding	Planned	02-01-2024	01-31-2028

Procurement

Have services been procured for Engineering, Grant Administration, or Environmental Services? Yes

Are there any persons/entities with a reportable financial interest to disclose? No

Vendor Type	TIGR: Procurement Status	Vendor Name	Contact Phone	Contact Email
Grant Administration	In House			
Engineering	Procured	The Water Institute	(225) 300-6715	mnarayanaswamy@thewaterinstitute.org
Environmental	Procured	Stantec	(210) 714-9980	mason.liebau@stantec.com

Documents

Document Type	File Attachment (Text)
Signed Applicant Certifications	Certification form.pdf
CDBG-MIT - Budget Justification of Retail Costs form (completed, signed, and sealed by a professional engineer or architect licensed to work in the State of Texas)	Budget narrative for Cost Overrun.pdf
Environmental Exempt Form for planning and administrative activities	environmental-exempt-form.CBRR.docx
Environmental Exempt Form for planning and administrative activities	environmental-exempt-form.CBRR.docx
CDBG-MIT - Budget Justification of Retail Costs form (completed, signed, and sealed by a professional engineer or architect licensed to work in the State of Texas)	Budget narrative for LDSAT.pdf
CDBG-MIT - Budget Justification of Retail Costs form (completed, signed, and sealed by a professional engineer or architect licensed to work in the State of Texas)	Budget narrative Housing Study.pdf
Environmental Exempt Form for planning and administrative activities	environmental-exempt-form.CBRR.docx
Environmental Exempt Form for planning and administrative activities	environmental-exempt-form.CBRR.docx
CDBG-MIT - Budget Justification of Retail Costs form (completed, signed, and sealed by a professional engineer or architect licensed to work in the State of Texas)	Budget narrative CFM.pdf
Scope of work information, maps, and other applicable documentation for each Local effort identified	Submission of MITMOD to GLO.pdf
Supporting census tract/block group or other beneficiary data maps	Low_Mod_Pop_All.pdf
Maps indicating latitude and longitude for proposed locations	Low_Mod_Pop_All.pdf
Scope of work information, maps, and other applicable documentation for each Local effort identified	CDBG.MIT_MOD_MAPS_202208 (FINAL).pdf
Supporting census tract/block group or other beneficiary data maps	Low_Mod_Pop_All.pdf
Maps indicating latitude and longitude for proposed locations	Low_Mod_Pop_All.pdf

Document Type	File Attachment (Text)
Scope of work information, maps, and other applicable documentation for each Local effort identified	CDBG.MIT_MOD_MAPS_202208 (FINAL).pdf
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Maps indicating latitude and longitude for proposed locations	Low_Mod_Pop_All.pdf
CDBG Mitigation Viewer Export	aransas.Nueces.SanPat.pdf
SF-424 (completed and signed)	Signed SDF424.pdf
Professional Services documentation	TWI LDSAT.pdf
Professional Services documentation	TWI Compound flooding.pdf
Professional Services documentation	NRA letter 11.26.24.pdf
Professional Services documentation	stantec letter.pdf
Professional Services documentation	Evaluation Summary for Compound Flooding Model Bid.docx
Professional Services documentation	Evaluation Matrix for Local Disaster Situational Awareness Tool Bid.docx
Professional Services documentation	Evaluation Matrix for Comprehensive Housing Study Bid.docx
Professional Services documentation	Evaluation Matrix for Compound Flooding Model Bid.docx
Professional Services documentation	photo of rfq posting 5.jpg
Professional Services documentation	photo of rfq posting 4.jpg
Professional Services documentation	photo of rfq posting 3.jpg
Professional Services documentation	photo of rfq posting 2.jpg
Professional Services documentation	photo of rfq posting 1.jpg
Professional Services documentation	Publication affidavit.pdf
Professional Services documentation	email alerting community of RFQ.pdf
Professional Services documentation	Caller.com notice 11.8.24..pdf
Local Procurement Policies and Procedures	Procurement Policy 2022.pdf
Professional Services documentation	rfq Local Disaster Situational Awareness tool.pdf
Professional Services documentation	rfq housing study.pdf
Professional Services documentation	rfq compound flooding model.pdf

Document Type	File Attachment (Text)
Single Audit or Annual Financial Statement	2023 Coastal Bend Council of Governments ACFR OCR.pdf
Current Printout of SAM.gov Registration	SAM exp 9.25.25.pdf

Compund Flood Study

Project Info

Project Information

DRGR Activity: Planning

Project Type: Planning

Project Title: Compund Flood Study

Does this project include replacement or relocation of a facility (i.e., lift station, water treatment plant, etc.)? No

Provide a detailed description of the scope of work proposed. For proposed work involving a length of road, ditch, channel, etc., report the scope of the project in linear feet (lf): The proposed scope of work for the compound flooding model project includes several comprehensive tasks designed to enhance flood risk assessment, management, and community resilience. Here is a detailed description of the scope of work:

1. Needs Assessment and Data Collection

- Comprehensive Needs Assessment: Conduct a thorough needs assessment to identify specific requirements and objectives for the community.
- Data Collection: Gather and analyze relevant data sources, including hydrological, meteorological, and topographical data. This also involves collecting and analyzing existing flood models from sources such as the USACE Galveston District, FEMA studies, and the Texas General Land Office (GLO) Regional Baseline Flood Study (RBFS).

2. Flood Model Development

- Inland Extents Identification: Using the collected data, identify inland areas impacted by compound flood hazards.
- Regional Coastwide Compound Flood Model: Develop a comprehensive flood model that integrates various flood sources (fluvial, coastal, and pluvial flooding) up to the identified inland extents.
- Model Calibration and Validation: Calibrate and validate the model against historical tropical and non-tropical events to ensure accuracy and reliability.
- Satellite Data Integration: Demonstrate the model's ability to ingest satellite-derived precipitation products and compare them against other precipitation products such as AORC and MRMS.
- Real-Time Flood Forecasting: Develop a data assimilation pipeline for remote-sensed data within the compound flood model to enable real-time flood forecasting. Evaluate the model's performance with the integration of remote-sensed data products.

3. Probabilistic Model Development

- Probabilistic Framework: Create a probabilistic framework to generate graduated compound flood hazard data for current and future conditions, including assessments of precipitation and sea level rise.
- Synthetic Events: Develop a set of synthetic events sufficient to quantify probabilistic flood hazards for current conditions and two future scenarios.
- Optimization Solutions: Develop innovative solutions to optimize baseflow and antecedent conditions for storm events.
- Execution of Synthetic Storms: Execute the optimized set of synthetic storms and use the probabilistic framework to generate graduated flood hazard data.

4. Exposure and Risk Assessments

- Flood Hazard Visualizations: Create visualizations of flood hazards at various Annual Exceedance Probabilities (AEPs) including 25, 50, 100, 200, and 500 years.
- Building Exposure Quantification: Leverage a buildings database to quantify exposure to flood hazards at different AEPs.
- Flood Loss Framework: Develop a framework to quantify flood loss to buildings exposed to flood hazards at various AEPs.
- Socioeconomic Impact Assessment: Assess the socioeconomic impacts of flood hazards on low-to-moderate income communities.

5. Model and Data Management Tools

- Web-Based Solution: Implement a web-based solution to facilitate model and data access for stakeholders, enhancing transparency and usability.

6. Documentation and Training

- Comprehensive Documentation: Provide detailed documentation, including model development processes, data types, and data dictionaries.
- Training Sessions: Offer training sessions for end-users to ensure effective utilization of the model and associated data.

7. Stakeholder Engagement

- Engagement and Feedback: Include provisions for stakeholder engagement and feedback throughout the project lifecycle to ensure the community's needs and concerns are addressed.

By following this detailed scope of work, the project aims to enhance flood risk assessment, improve infrastructure resilience, and engage the community in disaster mitigation efforts, ultimately contributing to long-term community resilience against future flood hazards.

Site: Project Site Title	Site: Street Address
Regional	2910 Leopard

Describe a plan for the long-term funding and management of the operations and maintenance of the project: Once the study is complete, the website with the data will be incorporated into the Coastal Bend Council of Governments website and maintained there.

Total proposed number of linear feet:

Total number of proposed public facilities: 0

Project Phase	Start Date	End Date	Length (in months)
Engineering Design	02-01-2025	02-01-2027	24
Start-Up Documentation	04-01-2023	07-01-2023	3
Contract Closeout	11-01-2026	02-01-2027	3
Submit As-Builts/COCC/FWCR	02-01-2025	02-01-2025	0
Construction	02-01-2025	02-01-2025	0
Construction NTP	02-01-2025	02-01-2025	0
Contract Award	02-01-2025	02-01-2025	0
Bid Advertisement	02-01-2025	02-01-2025	0
Acquisition	02-01-2025	02-01-2025	0
Environmental Review	02-01-2025	02-01-2025	0

National Objective

National Objective

Provide Total Number of Beneficiaries: 259,497

Provide number of LMI Beneficiaries 173,608

Percentage of LMI Beneficiaries: 66.9%

Is that applicant a HUD Exception Grantee? Yes

Census Tract	Block Group List (Text)
99,000	
9,800	Group 1
950,700	Group 1 ; Group 2
950,600	Group 1 ; Group 2 ; Group 3 ; Group 4
950,400	Group 1 ; Group 2 ; Group 3
950,300	Group 2 ; Group 3 ; Group 4 ; Group 5 ; Group 6
950,202	Group 2 ; Group 4
950,201	Group 1 ; Group 2
950,200	Group 1 ; Group 2 ; Group 3 ; Group 4
20,500	Group 1 ; Group 2 ; Group 3
20,400	Group 1 ; Group 2 ; Group 3 ; Group 5 ; Group 6
20,300	Group 1 ; Group 2 ; Group 3 ; Group 5
20,200	Group 1 ; Group 2 ; Group 3 ; Group 4 ; Group 5
20,100	Group 2
11,300	Group 1 ; Group 2 ; Group 3
1,110	Group 1 ; Group 3
11,000	Group 1 ; Group 2 ; Group 3 ; Group 4
10,900	Group 3
10,800	Group 1 ; Group 3 ; Group 4
10,601	Group 2
10,500	Group 1 ; Group 2
10,302	Group 3
10,202	Group 1 ; Group 3

Census Tract	Block Group List (Text)
10,201	Group 2 ; Group 3
6,400	Group 1 ; Group 2 ; Group 3
6,300	Group 2
6,100	Group 1 ; Group 2
6,000	Group 1
5,900	Group 1 ; Group 2
5,802	Group 1 ; Group 2 ; Group 3 ; Group 4
5,601	Group 3 ; Group 4 ; Group 5
5,408	Group 1
3,700	Group 2 ; Group 3
3,602	Group 1
3,500	Group 2
3,402	Group 2 ; Group 3
3,401	Group 1
3,306	Group 2
3,305	Group 1 ; Group 2
3,303	Group 1 ; Group 2
3,203	Group 2
2,302	Group 2
3,101	Group 3
3,002	Group 2 ; Group 3
3,001	Group 2 ; Group 3
2,706	Group 1
2,705	Group 4
2,704	Group 3 ; Group 4
2,703	Group 1 ; Group 2 ; Group 4
2,603	Group 1
2,602	Group 2
2,601	Group 2 ; Group 5
2,400	Group 1 ; Group 2 ; Group 3
2,304	Group 2 ; Group 3
2,301	Group 1 ; Group 2 ; Group 3
2,200	Group 2 ; Group 3 ; Group 4
2,101	Group 4
2,002	Group 1
2,001	Group 1 ; Group 2 ; Group 4
1,904	Group 1 ; Group 2 ; Group 3

Census Tract	Block Group List (Text)
1,903	Group 1 ; Group 3
1,802	Group 2
1,801	Group 1 ; Group 2 ; Group 3 ; Group 4 ; Group 5
1,702	Group 2
1,701	Group 1 ; Group 2 ; Group 3 ; Group 4 ; Group 5 ; Group 6
1,602	Group 1 ; Group 2 ; Group 3
1,601	Group 1 ; Group 2 ; Group 3 ; Group 4
1,500	Group 1 ; Group 2 ; Group 3
1,300	Group 1 ; Group 2 ; Group 3 ; Group 4
1,200	Group 1 ; Group 2
1,100	Group 1 ; Group 2
1,000	Group 1 ; Group 2 ; Group 3 ; Group 4
900	Group 1 ; Group 2 ; Group 3 ; Group 4
800	Group 1 ; Group 2
700	Group 1 ; Group 2 ; Group 3
600	Group 1 ; Group 2 ; Group 4 ; Group 5 ; Group 6
500	Group 1
950,500	Group 1 ; Group 2 ; Group 3 ; Group 4 ; Group 5 ; Group 6
950,100	Group 1 ; Group 2 ; Group 3 ; Group 4 ; Group 5

Male:

Female:

Total:

Race	Hispanic Population	Non-Hispanic Population	Total Population
White			
Some Other Race			
Other Multi-Racial			
Native Hawaiian / Other Pacific Islander			

Race	Hispanic Population	Non-Hispanic Population	Total Population
Black African American/White			
Black African American			
Asian/White			
Asian			
American Indian/Alaskan Native/White			
American Indian/Alaskan Native/Black African American			
American Indian/Alaskan Native			

Which HUD national objective does the project meet? LMI

Describe activities that benefit low- and moderate-income people: The Compound Flood Study aims to identify multiple flood risks in the areas of high LMI. This data will be used by planners and officials to mitigate future risk, as well as to identify additional funding opportunities for this area.

Method(s) used to determine the beneficiaries: LMI Area Benefit

What method was used for Beneficiary Identification? Census (HUD LMISD)

Provide a brief description of the beneficiary identification method used to determine this national objective and upload supporting beneficiary maps, census data, and/or survey documents: The project is focusing on the High LMI block groups in the 7 MIT Counties. We will start with the highest populated areas and expand as funding allows.

U.S. Congressional District #: 27

Texas Representative District #: 32;43

Texas Senate District #: 18;20;27

Environmental

What is the current status of the project? Not yet begun

Will the assistance requested have any negative impact(s) or effect(s) on the environment? No

Is the proposed project likely to require an archaeological assessment? No

Is the proposed site(s) listed on the National Register of Historic Places? No

Is the project in a designated floodway or coastal high hazard area? No

Is the project in a designated special flood hazard area or a designated wetland? No

For projects in the 500 or 100-year floodplain: Does your project involve a critical action as defined in 24CFR55.2(b)(3)?

Is any project site located in a known critical habitat for endangered species? No

Is any project site a known hazardous site? No

Is any project site located on federal lands or at a federal installation? No

Is any project site subject to or participating in Fixing America's Surface Transportation Act (FAST-41) (P.L. 114-94)? No

What level of environmental review is likely needed for this project? Exempt

Provide any additional detail or information relevant to Environmental Review: This is planning only. No construction or disturbance will take place.

Provide a brief narrative regarding how CDBG-MIT funding is to be used. Demonstrate that HUD CDBG environmental requirements have been met to date:

Permits

Does the project require any federal, state, or other permits, approvals, or waivers to complete the proposed work? No

If yes, describe the type and purpose of each permit and its association with the proposed project. Provide a copy of each permit already executed:

Does the project require any type of ratified, legally binding agreement between the applicant and any other entity to provide continual operation upon completion? No

If yes, describe the type and purpose of each agreement and its association with the proposed project. Provide a copy of each agreement already executed or drafted:

For sewer and/or water facilities projects, does the applicant currently hold the Certificate of Convenience and Necessity (CCN) for the target area proposed in the application? (If not a sewer and/or water facilities project, please choose N/A): N/A

Budget Activity Lines

Program Budget Code	Planned/Requested Amount	Planned Other Funds Amount	Total	Percent of Total
Grant Administration	$80,000.00	$0.00	$80,000.00	7.4%
Planning	$1,000,000.00	$0.00	$1,000,000.00	92.6%
Acquisition	$0.00	$0.00	$0.00	0%
Environmental	$0.00	$0.00	$0.00	0%
Engineering	$0.00	$0.00	$0.00	0%
Special Environmental	$0.00	$0.00	$0.00	0%
Construction	$0.00	$0.00	$0.00	0%

Mitigation

Identify the specific risk the proposed project will mitigate against: Severe Coastal Flooding;Riverine Flooding;Storms

Describe as to how the proposed project addresses/mitigates against the current and future risks identified: A compound flood plan mitigates against future disasters by addressing multiple flooding mechanisms simultaneously, such as storm surges, heavy rainfall, high tides, and river overflows. Here are some key strategies:

Integrated Modeling: By using advanced hydrologic and hydraulic models, planners can predict how different flooding mechanisms interact and identify high-risk areas.

Infrastructure Improvements: Enhancing stormwater management systems, building flood barriers, and improving drainage can reduce the impact of floods.

Community Planning: Updating building codes, zoning laws, and land use planning to avoid development in flood-prone areas helps minimize risk.

Emergency Preparedness: Developing comprehensive emergency response plans, including evacuation routes and communication strategies, ensures communities are ready to respond effectively.

Public Engagement: Educating the public about flood risks and involving them in planning processes increases community resilience.

By combining these approaches, a compound flood plan can significantly reduce the damage and disruption caused by future flooding events.

Provide information about how the proposed mitigation efforts integrate into the community's emergency and resiliency plans: Integrating this hyper-local compound flood model into an emergency and resiliency plan enhances our community's ability to prepare for, respond to, and recover from flood events.

Risk Assessment: Compound flood models simulate various flood scenarios, including storm surges, heavy rainfall, and river overflows. This helps identify high-risk areas and potential impacts.

Informed Decision-Making: Emergency managers can use these models to make data-driven decisions about resource allocation, evacuation routes, and emergency response strategie.

Real-Time Monitoring: By integrating real-time data from weather forecasts, river gauges, and tide stations, the models provide up-to-date information on flood conditions, enabling timely alerts and actions.

Community Engagement: The models can generate visualizations and simulations that help communicate risks to the public, increasing awareness and preparedness.

Resilience Planning: Long-term strategies, such as infrastructure improvements and land-use planning, can be developed based on insights from the models to reduce future flood risks.

By incorporating these elements, a compound flood model becomes a critical tool in enhancing both immediate emergency response and long-term community resilience.

In the space provided, list documentation provided to support the identification of the threat or hazard and how it relates to potential impact: In 2022 CBCOG contracted with the Harte Research Institute at Texas A&M University to create visual representation of the hazards of counties impacted by Harvey. The data focused on the vulnerable populations in the area. This is the primary source used to identify the project

Provide a brief description of how the proposed project addresses an integrated approach to mitigation: The project is a comprehensive approach to developing a compound flooding model that integrates various aspects of community resilience and mitigation through:

Needs Assessment and Data Collection: The project begins with a thorough needs assessment and data collection phase, ensuring that all relevant hydrological, meteorological, and topographical data are considered. This helps in identifying specific requirements and objectives for the community.

Flood Model Development: The development of a regional coastwide compound flood model integrates multiple flood sources (fluvial, coastal, and pluvial flooding). This model is calibrated and validated against historical events, ensuring its accuracy and reliability.

Probabilistic Model Development: A probabilistic framework is created to assess current and future flood conditions, including the impacts of precipitation and sea level rise. This framework helps in generating graduated flood hazard data for various scenarios.

Exposure and Risk Assessments: The project includes visualizations of flood hazards at different annual exceedance probabilities (AEPs) and quantifies exposure and potential flood loss to buildings. It also assesses the socioeconomic impacts on low-to-moderate income communities.

Model and Data Management Tools: A web-based solution is implemented to facilitate access to the model and data for stakeholders, enhancing transparency and usability.

Documentation and Training: Comprehensive documentation and training sessions are provided to ensure that end-users can effectively utilize the model and associated data.

Stakeholder Engagement: The project includes provisions for stakeholder engagement and feedback throughout its lifecycle, ensuring that the community's needs and concerns are addressed.

By considering housing, infrastructure, economic revitalization, and overall community resilience, the project takes an integrated approach to hazard mitigation. This holistic strategy not only addresses immediate flood risks but also promotes long-term planning and community resilience.

Considering the local evaluation of hazard risks, responsible floodplain management, future extreme weather/natural disaster events, and long-term risks, describe how the proposed project promotes sustainable community resilience: The proposed project promotes sustainable community resilience through a comprehensive and integrated approach that addresses local hazard risks, responsible floodplain management, future extreme weather events, and long-term risks. Here's how:

Local Evaluation of Hazard Risks:

Needs Assessment and Data Collection: The project begins with a thorough needs assessment and data collection phase, ensuring that all relevant hydrological, meteorological, and topographical data are considered. This helps in identifying specific requirements and objectives for the community.

Exposure and Risk Assessments: The project includes visualizations of flood hazards at different annual exceedance probabilities (AEPs) and quantifies exposure and potential flood loss to buildings. It also assesses the socioeconomic impacts on low-to-moderate income communities.

Responsible Floodplain Management:

Flood Model Development: The development of a regional coastwide compound flood model integrates multiple flood sources (fluvial, coastal, and pluvial flooding). This model is calibrated and validated against historical events, ensuring its accuracy and reliability.

Probabilistic Model Development: A probabilistic framework is created to assess current and future flood conditions, including the impacts of precipitation and sea level rise. This framework helps in generating graduated flood hazard data for various scenarios.

Future Extreme Weather/Natural Disaster Events:

Real-Time Flood Forecasting: The project includes the development of a data assimilation pipeline of remote-sensed data within the compound flood model for use towards real-time flood forecasting. This allows for timely and accurate predictions of flood events.

Synthetic Storm Events: The project develops a set of synthetic events to quantify probabilistic flood hazards for current and future conditions, helping communities prepare for extreme weather events.

Long-Term Risks:

Infrastructure and Socioeconomic Assessments: The project evaluates the adequacy of existing infrastructure and assesses socioeconomic impacts from flood hazards exposure. This helps in identifying opportunities for modernization and improvement.

Stakeholder Engagement and Training: The project includes provisions for stakeholder engagement and feedback throughout its lifecycle, ensuring that the community's needs and concerns are addressed. Comprehensive documentation and training sessions are provided to ensure that end-users can effectively utilize the model and associated data.

By considering housing, infrastructure, economic revitalization, and overall community resilience, the project takes an integrated approach to hazard mitigation. This holistic strategy not only addresses immediate flood risks but also promotes long-term planning and community resilience.

Describe how the proposed project is consistent with local and regional planning efforts to effect disaster mitigation: The proposed compound flooding model project aligns with local and regional planning efforts to effect disaster mitigation in several key ways:

Integration with Existing Plans:

The project builds on existing flood models and data from sources such as the USACE Galveston District, FEMA studies, and the Texas General Land Office (GLO) Regional Baseline Flood Study (RBFS). This ensures consistency with current regional flood management strategies and leverages existing knowledge and resources.

Comprehensive Risk Assessment:

By conducting a thorough needs assessment and collecting extensive hydrological, meteorological, and topographical data, the project aligns with the risk assessment processes outlined in local and regional hazard mitigation plans. This comprehensive approach helps identify and prioritize high-risk areas, ensuring that mitigation efforts are targeted and effective.

Probabilistic Modeling and Future Conditions:

The development of a probabilistic framework to assess current and future flood conditions, including the impacts of precipitation and sea level rise, aligns with long-term planning efforts. This forward-looking approach helps communities prepare for future extreme weather events and climate change, which is a key component of regional resilience strategies.

Stakeholder Engagement and Community Involvement:

The project includes provisions for stakeholder engagement and feedback throughout its lifecycle. This aligns with the collaborative planning processes advocated by local and regional mitigation plans, ensuring that the needs and concerns of the community are addressed and that there is broad support for the mitigation measures.

Infrastructure and Socioeconomic Assessments:

By evaluating the adequacy of existing infrastructure and assessing the socioeconomic impacts of flood hazards, the project supports the goals of local and regional plans to enhance community resilience. This includes identifying opportunities for infrastructure improvements and ensuring that mitigation efforts benefit all community members, particularly vulnerable populations.

Real-Time Flood Forecasting and Data Management:

The implementation of a data assimilation pipeline for real-time flood forecasting and a web-based solution for model and data access aligns with the emphasis on using technology and data to improve disaster response and recovery. This enhances the ability of local and regional authorities to make informed decisions and respond quickly to flood events.

Training and Capacity Building:

Providing comprehensive documentation and training sessions for end-users ensures that local and regional stakeholders have the knowledge and skills to effectively utilize the model and associated data. This capacity-building effort supports the long-term sustainability of the project and aligns with the goals of local and regional mitigation plans to enhance community resilience through education and training.

By aligning with these key aspects of local and regional planning efforts, the proposed compound flooding model project promotes a coordinated and effective approach to disaster mitigation, enhancing the resilience of the community to future flood events.

Was a cost-benefit analysis used in the selection of the proposed project? No

Describe how the proposed project impacts vulnerable populations in the local community.:
The proposed compound flooding model project significantly impacts vulnerable populations in the local community by enhancing their resilience to flood hazards and addressing their specific needs. Here are some key ways the project achieves this:

Targeted Risk Assessments:

The project includes detailed exposure and risk assessments that quantify the potential flood loss to buildings and infrastructure at various annual exceedance probabilities (AEPs). This helps identify areas where vulnerable populations are most at risk, allowing for targeted mitigation efforts.

Socioeconomic Impact Analysis:

The project assesses the socioeconomic impacts of flood hazards on low-to-moderate income communities. By understanding how these populations are affected, the project can prioritize interventions that support those who are most vulnerable.

Improved Infrastructure:

By evaluating the adequacy of existing infrastructure and identifying opportunities for modernization, the project helps ensure that critical facilities and services are resilient to flood events. This is particularly important for vulnerable populations who may rely more heavily on public infrastructure.

Real-Time Flood Forecasting:

The development of a real-time flood forecasting system allows for timely warnings and responses to flood events. This can be crucial for vulnerable populations who may have less capacity to respond quickly to emergencies.

Community Engagement and Education:

The project includes provisions for stakeholder engagement and feedback throughout its lifecycle. This ensures that the voices of vulnerable populations are heard and that their needs are addressed in the planning and implementation of mitigation measures.

Comprehensive documentation and training sessions are provided to ensure that community members, including vulnerable populations, can effectively utilize the model and associated data. This empowers them with the knowledge and tools to better prepare for and respond to flood events.

Long-Term Resilience:

By integrating considerations of future conditions, such as sea level rise and increased precipitation, the project promotes long-term resilience. This helps protect vulnerable populations from the escalating impacts of climate change and extreme weather events.

Economic Revitalization:

The project supports economic revitalization by making the local economy more resistant to disasters. This can provide stability and opportunities for vulnerable populations, helping to reduce poverty and improve overall community well-being.

Overall, the proposed project takes a holistic approach to flood mitigation, ensuring that the needs of vulnerable populations are prioritized and that they are better protected from future flood hazards. This contributes to building a more resilient and equitable community.

Describe how the proposed project creates economic opportunities for the local community:
The proposed compound flooding model project creates economic opportunities for the local community in several significant ways:

1. Skill Development and Training:

- Capacity Building: The project includes comprehensive documentation and training sessions for end-users. This not only ensures effective utilization of the model but also enhances the skills and knowledge of local professionals, making them more competitive in the job market.
- Educational Opportunities: Collaboration with local educational institutions for internships and research projects can provide students with practical experience and enhance their employability.

2. Local Business Growth:

- Procurement of Services and Materials: The project will likely source various services and materials locally, benefiting local businesses and suppliers. This includes everything from office supplies to specialized equipment and software.
- Support for Local Contractors: Engaging local contractors for construction and infrastructure improvements related to flood mitigation can stimulate the local economy.

3. Infrastructure Improvements:

- Enhanced Infrastructure: By identifying and addressing inadequacies in existing infrastructure, the project can lead to improvements that benefit the entire community. Better infrastructure attracts new businesses and investments, fostering economic growth.
- Increased Property Values: Improved flood resilience can lead to higher property values, benefiting homeowners and encouraging further investment in the area.

4. Economic Revitalization:

- Resilient Economy: By making the local economy more resistant to disasters, the project supports long-term economic stability and growth. This can attract new businesses and investors who are confident in the community's resilience.
- Tourism and Recreation: Enhanced flood protection can make the area more attractive for tourism and recreational activities, boosting local businesses such as hotels, restaurants, and shops.

5. Community Engagement and Social Capital:

- Stakeholder Engagement: The project includes provisions for stakeholder engagement and feedback, fostering a sense of community ownership and collaboration. This can lead to stronger social networks and a more cohesive community, which are essential for economic resilience.
- Public Awareness and Preparedness: Educating the public about flood risks and mitigation strategies can lead to a more informed and proactive community, reducing the economic impact of future flood events.

By enhancing skills, supporting local businesses, improving infrastructure, and fostering a resilient economy, the proposed project significantly contributes to the economic opportunities and overall prosperity of the local community.

Does this project disproportionately impact vulnerable populations in the local community?
Yes

Does the proposed project align with investments from other state or local capital improvements and infrastructure development efforts? Yes

Does the proposed project employ adaptable and reliable technology to guard against premature obsolescence? Yes

Describe the applicant's overall mitigation plan and how the project addressed in this application furthers that plan: Our overall mitigation plan focuses on enhancing community resilience to flood hazards through comprehensive risk assessment, infrastructure improvements, and community engagement. Here's how the proposed compound flooding model project furthers this plan:

1. Comprehensive Risk Assessment:

- Needs Assessment and Data Collection: The project begins with a thorough needs assessment and data collection phase, ensuring that all relevant hydrological, meteorological, and topographical data are considered. This aligns with the overall mitigation plan's goal of identifying specific flood risks and vulnerabilities within the community.

- Exposure and Risk Assessments: By quantifying potential flood loss to buildings and infrastructure at various annual exceedance probabilities (AEPs), the project provides detailed insights into the community's flood risk profile. This supports the mitigation plan's objective of prioritizing high-risk areas for targeted interventions.

2. Infrastructure Improvements:

- Flood Model Development: The development of a regional coastwide compound flood model integrates multiple flood sources (fluvial, coastal, and pluvial flooding). This model is calibrated and validated against historical events, ensuring its accuracy and reliability. This supports the mitigation plan's goal of enhancing floodplain management and improving the resilience of critical infrastructure.

- Probabilistic Model Development: A probabilistic framework is created to assess current and future flood conditions, including the impacts of precipitation and sea level rise. This forward-looking approach helps the community prepare for future extreme weather events and climate change, aligning with the long-term goals of the mitigation plan.

3. Community Engagement and Education:

- Stakeholder Engagement: The project includes provisions for stakeholder engagement and feedback throughout its lifecycle. This ensures that the community's needs and concerns are addressed, fostering a sense of ownership and collaboration. This aligns with the mitigation plan's emphasis on community involvement and public awareness.

- Documentation and Training: Comprehensive documentation and training sessions are provided to ensure that end-users can effectively utilize the model and associated data. This empowers community members with the knowledge and tools to better prepare for and respond to flood events, supporting the mitigation plan's goal of building community resilience.

4. Real-Time Flood Forecasting and Data Management:

- Real-Time Data Integration: The project incorporates a data assimilation pipeline that ingests real-time remote-sensed data, such as satellite-derived precipitation products. This allows the model to update continuously with the latest information, enhancing its reliability and accuracy in real-time flood forecasting. This supports the mitigation plan's objective of using technology and data to improve disaster response and recovery.

- Web-Based Solution for Data Access: The implementation of a web-based solution facilitates easy access to the model and data for stakeholders. This platform can be updated

and expanded as new technologies and data become available, ensuring that the system remains current and useful for a wide range of users.

5. Economic Revitalization and Long-Term Resilience:

- Infrastructure and Socioeconomic Assessments: The project evaluates the adequacy of existing infrastructure and assesses socioeconomic impacts from flood hazards exposure. This helps in identifying opportunities for modernization and improvement, supporting the mitigation plan's goal of enhancing community resilience and economic stability.

- Future Conditions and Adaptability: By integrating considerations of future conditions, such as sea level rise and increased precipitation, the project promotes long-term resilience. This helps protect the community from the escalating impacts of climate change and extreme weather events, aligning with the mitigation plan's long-term goals.

Overall, the proposed compound flooding model project aligns with and furthers the applicant's overall mitigation plan by providing a comprehensive, data-driven approach to flood risk assessment, infrastructure improvement, community engagement, and long-term resilience planning. This holistic strategy not only addresses immediate flood risks but also promotes sustainable development and community resilience.

Describe how the proposed project will contribute to the community's resiliency against future disasters as a result of these projects: The proposed compound flooding model project will significantly contribute to the community's resiliency against future disasters through several key mechanisms:

1. Enhanced Risk Assessment and Planning:

- Comprehensive Data Collection: By collecting and analyzing extensive hydrological, meteorological, and topographical data, the project provides a detailed understanding of flood risks. This allows for more accurate and targeted planning and mitigation efforts.

- Probabilistic Modeling: The development of a probabilistic framework to assess current and future flood conditions, including the impacts of precipitation and sea level rise, ensures that the community is prepared for a range of scenarios. This forward-looking approach helps in planning for long-term resilience.

2. Improved Infrastructure and Flood Management:

- Flood Model Development: The creation of a regional coastwide compound flood model that integrates multiple flood sources (fluvial, coastal, and pluvial flooding) enhances the community's ability to manage and mitigate flood risks. This model is calibrated and validated against historical events, ensuring its reliability.

- Infrastructure Assessments: Evaluating the adequacy of existing infrastructure and identifying opportunities for modernization helps ensure that critical facilities and services are resilient to flood events. This reduces the risk of infrastructure failure during disasters.

3. Real-Time Flood Forecasting and Response:

- Data Assimilation Pipeline: The project includes the development of a data assimilation pipeline that ingests real-time remote-sensed data, such as satellite-derived precipitation products. This allows for timely and accurate flood forecasting, enabling quicker and more effective responses to flood events.

- Web-Based Access: Implementing a web-based solution for model and data access ensures that stakeholders can easily obtain and use the latest information. This enhances coordination and decision-making during emergencies.

4. Community Engagement and Education:

- Stakeholder Involvement: The project includes provisions for stakeholder engagement and feedback throughout its lifecycle. This ensures that the community's needs and concerns are addressed, fostering a sense of ownership and collaboration.
- Training and Documentation: Comprehensive documentation and training sessions are provided to ensure that community members and local officials can effectively utilize the model and associated data. This empowers them with the knowledge and tools to better prepare for and respond to flood events.

5. Economic and Social Resilience:

- Socioeconomic Impact Assessments: By assessing the socioeconomic impacts of flood hazards on low-to-moderate income communities, the project helps prioritize interventions that support the most vulnerable populations. This contributes to social equity and resilience.
- Economic Revitalization: The project supports economic revitalization by making the local economy more resistant to disasters. Improved flood resilience can attract new businesses and investments, fostering economic growth and stability.

6. Long-Term Sustainability:

- Future Conditions Consideration: By integrating considerations of future conditions, such as sea level rise and increased precipitation, the project promotes long-term sustainability. This helps protect the community from the escalating impacts of climate change and extreme weather events.
- Adaptable Technology: The use of advanced and adaptable modeling techniques, real-time data integration, and scalable design ensures that the project remains relevant and effective over time, guarding against premature obsolescence.

Overall, the proposed project enhances the community's resiliency against future disasters by providing a comprehensive, data-driven approach to flood risk assessment, infrastructure improvement, community engagement, and long-term resilience planning. This holistic strategy not only addresses immediate flood risks but also promotes sustainable development and community resilience for the future.

Local Disaster Situational Awareness Tool

Project Info

Project Information

DRGR Activity: Planning

Project Type: Planning

Project Title: Local Disaster Situational Awareness Tool

Does this project include replacement or relocation of a facility (i.e., lift station, water treatment plant, etc.)? No

Provide a detailed description of the scope of work proposed. For proposed work involving a length of road, ditch, channel, etc., report the scope of the project in linear feet (lf): The proposed project, referred to as SAFE Roads (Situational Awareness of Flooding Events Resilience), involves developing a local disaster situational awareness tool. Here is a detailed description of the scope of work:

Scope of Work

1. User-Centered Design, Needs Assessment, and Prototype Development:

o Needs Assessment: Conduct a comprehensive needs assessment using a user-centered design process to identify stakeholder needs for a reliable flood situational awareness framework.

o Prototype Development: Develop a prototype flood situational awareness framework and an accompanying web tool to sense flooding and flood impacts on roads in real-time based on insights from the needs assessment.

2. System Design and Development:

o Advanced Technologies: Design and develop a system leveraging recent advances in physics-based models, urban data analytics, and artificial intelligence to provide real-time flood situational awareness.

o Data Sources: Utilize existing data sources available in the Coastal Bend region, including physical sensors, physics-based models, social sensors, remote sensing, and other sources.

o Network Analysis: Implement real-time network analysis to estimate the impacts of flooding on community access to critical facilities such as hospitals, evacuation routes, fire stations, and dialysis centers.

o Data Augmentation: Design, develop, and test data augmentation strategies to enhance data availability on flood impacts and address potential inequities in data availability.

3. Data Fusion and Real-Time Analysis:

o Real-Time Data Fusion: Develop capabilities for real-time fusion of diverse urban data sources to improve situational awareness.

o Critical Infrastructure Updates: Ensure the system can provide real-time updates on the status of critical infrastructure, such as road closures.

4. Responsible AI and Human-Centered Design:

o Responsible AI Practices: Adhere to responsible AI practices, ensuring the system is fair, equitable, human-centered, explainable, interpretable, robust, safe, continuously improving, and privacy-preserving.

o Human-Centered Design: Follow human-centered design principles to ensure the system is equitable, safe, user-friendly, and manageable under human control and supervision.

5. System Characteristics:

o Reliability and Efficiency: Ensure the system is reliable, robust, and computationally efficient.

o Modularity and Extensibility: Design the system to be modular and extensible for future enhancements.

o Interoperability: Ensure the system is interoperable with existing tools in the region.

6. Deployment and Accessibility:

o Web Platform Deployment: Deploy the prototype and ensure it is accessible via a web platform.

o Documentation and Training: Provide documentation and training for end-users to effectively use the system.

7. Testing and Validation:

o Thorough Testing: Conduct thorough testing and validation of the system to ensure accuracy and reliability.

o Reporting: Provide a detailed report on the testing outcomes and any necessary adjustments.

8. Support and Maintenance:

o Ongoing Support: Offer ongoing support, enhancement, and maintenance services to ensure the system remains operational and up to date.

This comprehensive scope of work ensures that the SAFE Roads tool will provide reliable, real-time situational awareness of flooding events, enhancing the community's ability to respond to and recover from natural disasters.

Site: Project Site Title	Site: Street Address
CBCOG	2910 Leopard

Describe a plan for the long-term funding and management of the operations and maintenance of the project: A comprehensive plan for the long-term funding and management of the operations and maintenance of the SAFE Roads (Situational Awareness of Flooding Events Resilience) project is essential to ensure its sustainability and effectiveness. Here's a detailed plan:

Long-Term Funding Plan

1. Government Grants and Funding:

o Federal and State Grants: Secure ongoing funding from federal and state programs such as the Federal Emergency Management Agency (FEMA), the Texas General Land Office (GLO), and other disaster mitigation and resilience grants.

o Local Government Support: Collaborate with local governments within the Coastal Bend region to allocate a portion of their budgets to support the project.

2. Public-Private Partnerships:

o Corporate Sponsorships: Engage with local businesses and corporations to sponsor the project. Highlight the benefits of enhanced community resilience and the positive impact on local economies.

o Infrastructure Investment Funds: Partner with private investors and infrastructure investment funds that focus on resilient infrastructure projects.

3. User Fees and Subscriptions (If permitted by GLO and the CBCOG Board of Directors):

o Subscription Model: Implement a subscription-based model for access to advanced features of the SAFE Roads tool. Offer tiered subscription plans for different user groups, such as municipalities, emergency services, and private companies.

o Service Fees: Charge fees for specialized services, such as customized reports and data analytics, provided to businesses and organizations.

4. Grants and Donations from Non-Profit Organizations:

o Non-Profit Partnerships: Partner with non-profit organizations focused on disaster resilience and community development to secure grants and donations.

o Philanthropic Contributions: Approach philanthropic foundations and donors who are interested in supporting community resilience and disaster preparedness.

Management and Operations Plan

1. Operational Management:

o Project Management Team: Appoint a dedicated project management team responsible for the day-to-day operations, including system maintenance, updates, and user support.

o Technical Support Team: Maintain a technical support team to handle system issues, perform regular maintenance, and implement updates and enhancements.

2. Maintenance and Updates:

o Regular Maintenance Schedule: Develop a regular maintenance schedule to ensure the system remains operational and up to date. This includes software updates, data integration, and system testing.

o Continuous Improvement: Implement a continuous improvement process to incorporate user feedback, technological advancements, and new data sources into the system.

3. Training and User Support:

o User Training Programs: Provide ongoing training programs for end-users to ensure they can effectively use the system. This includes workshops, webinars, and online tutorials.

o Help Desk Support: Establish a help desk support system to assist users with technical issues, provide guidance, and address any concerns.

4. Performance Monitoring and Evaluation:

o Key Performance Indicators (KPIs): Define and monitor KPIs to evaluate the system's performance, user satisfaction, and impact on community resilience.

o Annual Reviews: Conduct annual reviews of the project to assess its effectiveness, identify areas for improvement, and adjust strategies as needed.

5. Community Engagement:

o Public Awareness Campaigns: Run public awareness campaigns to keep the community informed about the project's benefits, updates, and how to use the system.

o Feedback Mechanisms: Implement mechanisms for community feedback to ensure the system meets the needs of its users and to foster a sense of ownership and support.

By implementing this comprehensive plan for long-term funding and management, the SAFE Roads project can ensure its sustainability, effectiveness, and continued contribution to community resilience against future disasters.

Total proposed number of linear feet:

Total number of proposed public facilities: 0

Project Phase	Start Date	End Date	Length (in months)
Contract Closeout	11-01-2026	02-01-2027	3
Submit As-Builts/COCC/FWCR	02-01-2025	02-01-2025	0
Construction	02-01-2025	02-01-2025	0
Construction NTP	02-01-2025	02-01-2025	0
Contract Award	02-01-2025	02-01-2025	0
Bid Advertisement	02-01-2025	02-01-2025	0
Acquisition	02-01-2025	02-01-2025	0
Environmental Review	02-01-2025	02-01-2025	0

Project Phase	Start Date	End Date	Length (in months)
Engineering Design	02-01-2025	02-01-2025	0
Start-Up Documentation	02-01-2024	02-01-2027	36

National Objective

National Objective

Provide Total Number of Beneficiaries: 259,497

Provide number of LMI Beneficiaries 173,608

Percentage of LMI Beneficiaries: 66.9%

Is that applicant a HUD Exception Grantee? Yes

Male:

Female:

Total:

Race	Hispanic Population	Non-Hispanic Population	Total Population
White			
Some Other Race			
Other Multi-Racial			
Native Hawaiian / Other Pacific Islander			
Black African American/White			
Black African American			
Asian/White			
Asian			
American Indian/Alaskan Native/White			
American Indian/Alaskan Native/Black African American			
American Indian/Alaskan Native			

Which HUD national objective does the project meet? LMI

Describe activities that benefit low- and moderate-income people: The proposed SAFE Roads (Situational Awareness of Flooding Events Resilience) project includes several activities that specifically benefit low- and moderate-income (LMI) people:

1. Enhanced Flood Awareness and Safety:

o Real-Time Flood Information: The project provides real-time updates on flooding events and road conditions, which is crucial for LMI communities that may lack access to timely and accurate information. This helps residents make informed decisions during emergencies, reducing the risk of harm and property damage.

o Critical Infrastructure Access: By monitoring the impact of flooding on critical infrastructure such as hospitals, evacuation routes, and emergency services, the project ensures that LMI individuals have reliable access to essential services during disasters.

2. Improved Community Resilience:

o Disaster Preparedness: The project includes community engagement and education components that raise awareness about disaster preparedness and response. This empowers LMI residents with the knowledge and resources needed to protect themselves and their properties.

o Equitable Data Availability: The project addresses potential inequities in data availability by implementing data augmentation strategies. This ensures that all communities, including those with fewer resources, benefit from comprehensive flood situational awareness.

3. Economic Stability and Protection:

o Reduced Economic Losses: By providing early warnings and real-time information about flooding, the project helps LMI individuals take preventive measures to protect their homes and belongings, reducing economic losses.

o Support for Local Businesses: The project supports local businesses, including those owned by LMI individuals, by ensuring that they have access to critical information that can help them prepare for and respond to flooding events, minimizing business disruptions.

4. Access to Resources and Support Services:

o Emergency Response Coordination: The project enhances coordination among emergency response services, ensuring that LMI communities receive timely assistance during flooding events. This includes access to shelters, medical care, and other support services.

o Community Support Networks: By fostering collaboration among local governments, non-profits, and community organizations, the project strengthens community support networks that provide assistance to LMI individuals during and after disasters.

5. Long-Term Resilience and Sustainability:

o Infrastructure Improvements: The project aligns with local and regional infrastructure improvements, ensuring that LMI communities benefit from enhanced flood protection measures such as improved drainage systems and resilient road networks.

o Sustainable Development: By promoting sustainable development practices, the project helps create a built environment that is more resilient to future flooding events, providing long-term benefits to LMI communities.

6. Inclusive Design and Implementation:

o Human-Centered Design: The project adheres to human-centered design principles, ensuring that the system is user-friendly and accessible to all community members, including those with limited technological skills or resources.

o Community Involvement: The project emphasizes public participation, ensuring that the voices of LMI residents are heard in the planning and implementation process. This helps create solutions that are tailored to the specific needs and preferences of the community.

By incorporating these activities, the SAFE Roads project ensures that LMI individuals and communities are better protected, informed, and resilient in the face of flooding events and other natural disasters.

Method(s) used to determine the beneficiaries: LMI Area Benefit

What method was used for Beneficiary Identification? Census (HUD LMISD)

Provide a brief description of the beneficiary identification method used to determine this national objective and upload supporting beneficiary maps, census data, and/or survey documents: The project is focusing on the High LMI block groups in the 7 MIT Counties. We will start with the LMI communities nearest the coast continue as funding allows. We believe the funding allocated is sufficient to cover the entire area.

U.S. Congressional District #: 27

Texas Representative District #: 32;43

Texas Senate District #: 18;20;27

Environmental

What is the current status of the project? Not yet begun

Will the assistance requested have any negative impact(s) or effect(s) on the environment? No

Is the proposed project likely to require an archaeological assessment? No

Is the proposed site(s) listed on the National Register of Historic Places? No

Is the project in a designated floodway or coastal high hazard area? No

Is the project in a designated special flood hazard area or a designated wetland? No

For projects in the 500 or 100-year floodplain: Does your project involve a critical action as defined in 24CFR55.2(b)(3)?

Is any project site located in a known critical habitat for endangered species? No

Is any project site a known hazardous site? No

Is any project site located on federal lands or at a federal installation? No

Is any project site subject to or participating in Fixing America's Surface Transportation Act (FAST-41) (P.L. 114-94)? No

What level of environmental review is likely needed for this project? Exempt

Provide any additional detail or information relevant to Environmental Review: There is no construction planned

Provide a brief narrative regarding how CDBG-MIT funding is to be used. Demonstrate that HUD CDBG environmental requirements have been met to date:

Permits

Does the project require any federal, state, or other permits, approvals, or waivers to complete the proposed work? No

If yes, describe the type and purpose of each permit and its association with the proposed project. Provide a copy of each permit already executed:

Does the project require any type of ratified, legally binding agreement between the applicant and any other entity to provide continual operation upon completion? No

If yes, describe the type and purpose of each agreement and its association with the proposed project. Provide a copy of each agreement already executed or drafted:

For sewer and/or water facilities projects, does the applicant currently hold the Certificate of Convenience and Necessity (CCN) for the target area proposed in the application? (If not a sewer and/or water facilities project, please choose N/A): N/A

Budget Activity Lines

Program Budget Code	Planned/Requested Amount	Planned Other Funds Amount	Total	Percent of Total
Planning	$1,200,000.00	$0.00	$1,200,000.00	92.6%
Acquisition	$0.00	$0.00	$0.00	0%
Environmental	$0.00	$0.00	$0.00	0%
Special Environmental	$0.00	$0.00	$0.00	0%
Grant Administration	$96,000.00	$0.00	$96,000.00	7.4%
Engineering	$0.00	$0.00	$0.00	0%
Construction	$0.00	$0.00	$0.00	0%

Mitigation

Identify the specific risk the proposed project will mitigate against: Severe Coastal Flooding;Riverine Flooding;Storms

Describe as to how the proposed project addresses/mitigates against the current and future risks identified: The proposed SAFE Roads (Situational Awareness of Flooding Events Resilience) project addresses and mitigates against the current and future risks of severe coastal flooding, riverine flooding, and storms through several key strategies:

Current Risks Mitigation

1. Real-Time Flood Monitoring and Alerts:

o Real-Time Data Fusion: The project leverages real-time data from various sources, including physical sensors, remote sensing, and social sensors, to monitor flooding events as they occur. This provides timely and accurate information on flood conditions.

o Immediate Alerts: By providing real-time updates on road conditions and flood impacts, the system ensures that residents and emergency services receive immediate alerts about hazardous conditions, enabling quick and informed decision-making.

2. Critical Infrastructure Protection:

o Network Analysis: The project includes real-time network analysis to assess the impact of flooding on critical infrastructure such as hospitals, evacuation routes, fire stations, and dialysis centers. This helps prioritize resources and response efforts to protect essential services.

o Road Closure Updates: The system provides real-time updates on road closures and other critical infrastructure status, ensuring that emergency responders and the public can navigate safely during flooding events.

3. Community Preparedness and Response:

o Public Awareness: The project includes community engagement and education components that raise awareness about flood risks and preparedness measures. This empowers residents with the knowledge and resources needed to respond effectively during emergencies.

o Equitable Data Access: By addressing potential inequities in data availability, the project ensures that all communities, including those with fewer resources, have access to critical flood information.

Future Risks Mitigation

1. Advanced Predictive Modeling:

o Physics-Based Models: The project utilizes advanced physics-based models to predict flood behavior and impacts under various scenarios. This helps anticipate future flood risks and plan accordingly.

o Climate Change Projections: By incorporating climate change projections, the system can predict how future weather patterns and sea-level rise may affect flood risks, allowing for proactive mitigation measures.

2. Sustainable Infrastructure Development:

o Resilient Construction Practices: The project promotes the use of resilient building materials and construction practices for new developments and infrastructure improvements. This includes elevating structures in flood-prone areas and using materials that are resistant to wind and water damage.

o Green Infrastructure: The project supports the implementation of green infrastructure solutions, such as permeable pavements, green roofs, and enhanced drainage systems, to manage stormwater and reduce flood risks.

3. Long-Term Planning and Adaptation:

o Integrated Planning: The project aligns with local and regional planning efforts, ensuring that flood mitigation strategies are integrated into broader community development and resilience plans. This includes coordination with capital improvement projects and disaster mitigation initiatives.

o Continuous Improvement: The system is designed to be modular and extensible, allowing for future enhancements and updates based on new data, technological advancements, and changing risk profiles.

4. Economic and Social Resilience:

o Support for Vulnerable Populations: The project specifically addresses the needs of low- and moderate-income (LMI) individuals and other vulnerable populations, ensuring that they are not disproportionately affected by flooding events. This includes providing access to safe and affordable housing and support services.

o Economic Stability: By reducing the economic impact of flooding through early warnings and real-time information, the project helps protect local businesses and residents from financial losses, contributing to overall economic stability and resilience.

Comprehensive Approach

1. Responsible AI and Human-Centered Design:

o Equitable and Safe System: The project adheres to responsible AI practices and human-centered design principles, ensuring that the system is fair, equitable, user-friendly, and safe. This includes making the system explainable, interpretable, and privacy-preserving.

o Community Involvement: The project emphasizes public participation, ensuring that the voices of residents are heard in the planning and implementation process. This helps create solutions that are tailored to the specific needs and preferences of the community.

By incorporating these strategies, the SAFE Roads project effectively addresses and mitigates the current and future risks of severe coastal flooding, riverine flooding, and storms, enhancing the overall resilience of the community.

Provide information about how the proposed mitigation efforts integrate into the community's emergency and resiliency plans: The proposed SAFE Roads (Situational Awareness of Flooding Events Resilience) project integrates into the community's emergency and resiliency plans through several key strategies:

Integration with Emergency Management Plans

1. Real-Time Flood Monitoring and Alerts:

o The SAFE Roads tool provides real-time updates on flooding events and road conditions, which are crucial for emergency management. This information helps emergency responders make informed decisions about evacuations, road closures, and resource allocation during flooding events.

2. Critical Infrastructure Protection:

o By monitoring the impact of flooding on critical infrastructure such as hospitals, evacuation routes, fire stations, and dialysis centers, the project ensures that these essential services remain accessible during disasters. This integration supports the continuity of operations and enhances the community's ability to respond to emergencies.

3. Community Preparedness and Response:

o The project includes community engagement and education components that raise awareness about flood risks and preparedness measures. This aligns with emergency management plans that emphasize public education and community involvement in disaster preparedness.

Integration with Resiliency Plans

1. Sustainable Infrastructure Development:

o The project promotes the use of resilient building materials and construction practices, as well as green infrastructure solutions, to manage stormwater and reduce flood risks. These measures are consistent with resiliency plans that aim to create a built environment capable of withstanding and recovering from natural disasters.

2. Long-Term Planning and Adaptation:

o By incorporating climate change projections and future risk scenarios, the SAFE Roads project ensures that flood mitigation strategies are sustainable and adaptable to changing conditions. This long-term planning approach is essential for enhancing community resilience.

3. Economic and Social Resilience:

o The project supports economic stability by providing early warnings and real-time information that help protect local businesses and residents from financial losses. Additionally, by addressing the needs of vulnerable populations, the project ensures that all community members benefit from enhanced resilience measures.

Coordination with Local and Regional Initiatives

1. Alignment with Local Capital Improvement Plans:

o The project aligns with local capital improvement plans, such as those of the City of Corpus Christi, which include significant investments in infrastructure modernization and expansion. By ensuring that housing developments and infrastructure improvements are integrated, the project enhances overall community resilience.

2. Collaboration with Regional Planning Efforts:

o The project coordinates with regional planning initiatives led by organizations like the Coastal Bend Council of Governments (CBCOG) and the Texas General Land Office (GLO). This ensures a cohesive approach to disaster mitigation and resilience across multiple jurisdictions.

3. Leveraging Additional Funding Sources:

o The project leverages funding from federal, state, and local programs, as well as private investments, to support its implementation and sustainability. This includes grants from FEMA, the GLO, and other disaster mitigation and resilience programs.

Community Involvement and Public Participation

1. Public Awareness Campaigns:

o The project includes public awareness campaigns to keep the community informed about flood risks, preparedness measures, and how to use the SAFE Roads tool. This fosters a culture of resilience and ensures that residents are actively involved in disaster preparedness efforts.

2. Feedback Mechanisms:

o The project implements mechanisms for community feedback, ensuring that the system meets the needs of its users and fosters a sense of ownership and support. This aligns with resiliency plans that emphasize the importance of community input in planning and decision-making processes.

By integrating these strategies, the SAFE Roads project ensures that its mitigation efforts are seamlessly incorporated into the community's emergency and resiliency plans. This comprehensive approach enhances the community's ability to withstand and recover from natural disasters, improving overall quality of life for its residents.

In the space provided, list documentation provided to support the identification of the threat or hazard and how it relates to potential impact: In 2022 CBCOG contracted with the Harte Research Institute at Texas A&M University to create a visual representation of the hazards of counties impacted by Harvey. The data focused on the vulnerable populations in the area. This is the primary source used to identify the project.

Provide a brief description of how the proposed project addresses an integrated approach to mitigation: The proposed SAFE Roads (Situational Awareness of Flooding Events Resilience) project addresses an integrated approach to mitigation by considering multiple aspects of community development and resilience. Here’s a brief description of how it achieves this:

Housing Quality and Availability

- Flood Risk Information: By providing real-time flood information, the project helps protect housing in flood-prone areas, ensuring that residents can take timely action to safeguard their homes.

- Resilient Housing Development: The project supports the development of resilient housing by informing planning and construction practices that mitigate flood risks.

Fair Housing Obligations

- Equitable Access to Information: The project ensures that all community members, including low- and moderate-income (LMI) individuals, have access to critical flood information, promoting fair housing practices.

- Inclusive Design: The system is designed to be user-friendly and accessible to all, ensuring that vulnerable populations are not left out.

Infrastructure

- Critical Infrastructure Monitoring: The project includes real-time monitoring of critical infrastructure such as roads, hospitals, and evacuation routes, ensuring that these remain functional during flooding events.

- Infrastructure Planning: By identifying flood-prone areas, the project informs infrastructure improvements and investments, enhancing overall community resilience.

Economic Revitalization

- Business Continuity: By providing early warnings and real-time updates, the project helps local businesses prepare for and respond to flooding events, minimizing economic disruptions.

- Job Creation: The development and maintenance of the SAFE Roads system create job opportunities in technology, data analysis, and emergency management.

Overall Community Resilience

- Disaster Preparedness: The project enhances community preparedness by providing residents with the information they need to respond effectively to flooding events.

- Long-Term Planning: By incorporating climate change projections and future risk scenarios, the project supports long-term resilience planning.

Long-Term Planning Processes

- Sustainable Development: The project promotes sustainable development practices, such as green infrastructure and resilient construction, that reduce long-term flood risks.

- Continuous Improvement: The system is designed to be modular and extensible, allowing for future enhancements based on new data and technological advancements.

Examination of Key Issues

1. Housing Quality and Availability:

o The project helps protect housing from flood damage, ensuring that homes remain safe and habitable.

2. Road and Rail Networks:

o Real-time monitoring of road conditions ensures that transportation networks remain functional during flooding events, facilitating safe travel and evacuation.

3. Environmental Issues:

o The project supports green infrastructure solutions that manage stormwater and reduce environmental impacts.4. Adequacy of Existing Infrastructure:

o By identifying vulnerabilities in existing infrastructure, the project informs necessary upgrades and improvements.

5. Modernization of Public Facilities and Built Environment:

o The project supports the modernization of public facilities to ensure they are resilient to flooding and other natural disasters.

6. Development of Regional and Integrated Systems:

o The project promotes the development of integrated systems that enhance regional coordination and resource sharing.

7. Stimulation of Local Economy:

o By making the local economy more resistant to disasters, the project supports economic stability and growth.

Overall, the SAFE Roads project takes a holistic approach to mitigation, addressing housing, infrastructure, economic development, and community resilience in an integrated manner. This ensures that the community is better prepared for current and future risks, enhancing overall quality of life for its residents.

Considering the local evaluation of hazard risks, responsible floodplain management, future extreme weather/natural disaster events, and long-term risks, describe how the proposed project promotes sustainable community resilience: The proposed SAFE Roads (Situational Awareness of Flooding Events Resilience) project promotes sustainable community resilience by addressing several key factors:

Local Evaluation of Hazard Risks

- Comprehensive Risk Assessment: The project includes a thorough assessment of local hazard risks, such as coastal and riverine flooding, and storms. By identifying specific vulnerabilities, the project ensures that mitigation efforts are targeted and effective.

- Real-Time Monitoring: The system provides real-time updates on flooding events and road conditions, enabling timely responses to emerging hazards. This helps mitigate immediate risks and protect lives and property.

Responsible Floodplain Management

- Data-Driven Decision Making: The project leverages advanced data analytics and physics-based models to inform floodplain management decisions. This ensures that development and infrastructure improvements are based on accurate and up-to-date information.

- Flood Risk Mapping: By integrating various data sources, the project enhances flood risk mapping, helping planners and policymakers identify high-risk areas and implement appropriate zoning and land-use regulations.

Future Extreme Weather/Natural Disaster Events

- Predictive Modeling: The project uses predictive modeling to anticipate the impacts of future extreme weather events and natural disasters. This allows for proactive planning and the implementation of mitigation measures before disasters occur.

- Climate Change Adaptation: By incorporating climate change projections, the project ensures that mitigation strategies are adaptable to future conditions, such as increased frequency and intensity of storms and rising sea levels.

Long-Term Risks

- Sustainable Infrastructure Development: The project promotes the use of resilient building materials and construction practices, as well as green infrastructure solutions, to manage stormwater and reduce flood risks. These measures contribute to long-term sustainability and resilience.

- Continuous Improvement: The system is designed to be modular and extensible, allowing for future enhancements based on new data, technological advancements, and changing risk profiles. This ensures that the community remains resilient to evolving threats.

Promoting Sustainable Community Resilience

1. Housing Quality and Availability:

o The project helps protect housing from flood damage, ensuring that homes remain safe and habitable. This is particularly important for low- and moderate-income (LMI) individuals who may lack the resources to recover from flood damage.

2. Infrastructure:

o By monitoring and protecting critical infrastructure such as roads, hospitals, and evacuation routes, the project ensures that these essential services remain functional during and after disasters. This enhances the community's ability to respond to and recover from emergencies.

3. Economic Stability:

o The project supports local businesses by providing early warnings and real-time updates, helping them prepare for and respond to flooding events. This minimizes economic disruptions and supports long-term economic stability and growth.

4. Community Engagement and Education:

o The project includes community engagement and education components that raise awareness about flood risks and preparedness measures. This empowers residents with the knowledge and resources needed to protect themselves and their properties, fostering a culture of resilience.

5. Environmental Sustainability:

o The project supports green infrastructure solutions that manage stormwater and reduce environmental impacts. This contributes to the overall sustainability of the community and enhances its ability to withstand and recover from natural disasters.

6. Integration with Local and Regional Plans:

o The project aligns with local and regional planning efforts, ensuring a coordinated approach to disaster mitigation and resilience. This includes collaboration with local governments, regional planning organizations, and state agencies to leverage additional funding and resources.

By addressing these factors, the SAFE Roads project promotes sustainable community resilience, ensuring that the community is better prepared to withstand and recover from current and future hazards.

Describe how the proposed project is consistent with local and regional planning efforts to effect disaster mitigation: The proposed SAFE Roads (Situational Awareness of Flooding Events Resilience) project is consistent with local and regional planning efforts to effect disaster mitigation in several key ways:

Alignment with Local Planning Efforts

1. City of Corpus Christi Capital Improvement Plan (CIP):

o The City of Corpus Christi's CIP includes significant investments in modernizing and expanding the city's infrastructure, such as transportation systems, water and wastewater systems, and public facilities. The SAFE Roads project supports these efforts by ensuring that housing developments and infrastructure improvements are integrated with enhanced flood protection measures, such as improved drainage systems and resilient road networks.

2. Local Hazard Mitigation Plans:

o The project builds on existing local hazard mitigation plans by identifying specific vulnerabilities related to flooding and proposing targeted interventions. This ensures that housing and infrastructure strategies are aligned with broader efforts to reduce disaster risks and enhance community resilience.

3. Emergency Management Plans:

o The SAFE Roads tool provides real-time updates on flooding events and road conditions, which are crucial for emergency management. This information helps emergency responders make informed decisions about evacuations, road closures, and resource allocation during flooding events, aligning with local emergency management plans.

Coordination with Regional Planning Efforts

1. Coastal Bend Council of Governments (CBCOG):

o The project coordinates with regional planning initiatives led by the CBCOG, which focuses on disaster mitigation and resilience. By aligning with these initiatives, the SAFE Roads project ensures a cohesive approach to disaster mitigation across multiple jurisdictions in the Coastal Bend region.

2. Texas General Land Office (GLO):

o The project aligns with state-level initiatives, such as those led by the GLO, which focus on disaster mitigation and resilience. By addressing housing vulnerabilities and proposing mitigation measures, the SAFE Roads project complements state efforts to reduce disaster risks and enhance community preparedness.

3. Regional Transportation Planning:

o The Corpus Christi Metropolitan Planning Organization (MPO) has active transportation plans that include improvements to pedestrian and bicycle infrastructure. The SAFE Roads project ensures that new housing developments are accessible and well-connected to these transportation networks, promoting sustainable and inclusive mobility options for residents.

Integration with Broader Community Goals

1. Sustainable Development:

o The project promotes sustainable development practices, such as green infrastructure and resilient construction, that reduce long-term flood risks. This aligns with local and regional goals to create a built environment capable of withstanding and recovering from natural disasters.

2. Economic Revitalization:

o By improving housing stability and quality, the project indirectly supports economic revitalization. Stable housing allows residents to focus on employment and education, contributing to the local economy. Additionally, the project may identify opportunities for economic development projects that enhance community resilience.

3. Public Participation and Community Involvement:

o The project emphasizes public participation, ensuring that the voices of residents are heard in the planning and implementation process. This aligns with local and regional efforts to involve the community in disaster mitigation planning and decision-making.

Leveraging Additional Funding Sources

1. Federal and State Grants:

o The project leverages funding from federal and state programs, such as FEMA and the GLO, to support its implementation and sustainability. This includes grants for disaster mitigation and resilience projects.

2. Local Government Support:

o Collaborating with local governments within the Coastal Bend region to allocate a portion of their budgets to support the project ensures that it is well-integrated with local planning efforts.

3. Private Investments:

o Engaging with private investors and infrastructure investment funds that focus on resilient infrastructure projects helps secure additional funding and resources for the project.

By aligning with these local and regional planning efforts, the SAFE Roads project ensures a coordinated and effective approach to disaster mitigation, enhancing the overall resilience of the community.

Was a cost-benefit analysis used in the selection of the proposed project? No

Describe how the proposed project impacts vulnerable populations in the local community.:

The proposed SAFE Roads (Situational Awareness of Flooding Events Resilience) project significantly impacts vulnerable populations in the local community through several key initiatives:

Enhanced Safety and Protection

1. Real-Time Flood Information:

o The project provides real-time updates on flooding events and road conditions, which is crucial for vulnerable populations, including low- and moderate-income (LMI) individuals, seniors, and people with disabilities. This timely information helps residents make informed decisions during emergencies, reducing the risk of harm and property damage.

2. Critical Infrastructure Access:

o By monitoring the impact of flooding on critical infrastructure such as hospitals, evacuation routes, fire stations, and dialysis centers, the project ensures that vulnerable populations have reliable access to essential services during disasters. This is particularly important for individuals who rely on these services for their health and well-being.

Improved Community Resilience

1. Disaster Preparedness:

o The project includes community engagement and education components that raise awareness about flood risks and preparedness measures. This empowers vulnerable populations with the knowledge and resources needed to protect themselves and their properties, enhancing their overall resilience.

2. Equitable Data Availability:

o The project addresses potential inequities in data availability by implementing data augmentation strategies. This ensures that all communities, including those with fewer resources, benefit from comprehensive flood situational awareness.

Economic Stability and Protection

1. Reduced Economic Losses:

o By providing early warnings and real-time information about flooding, the project helps vulnerable populations take preventive measures to protect their homes and belongings, reducing economic losses. This is particularly important for LMI individuals who may lack the financial resources to recover from flood damage.

2. Support for Local Businesses:

o The project supports local businesses, including those owned by LMI individuals, by ensuring that they have access to critical information that can help them prepare for and respond to flooding events, minimizing business disruptions.

Access to Resources and Support Services

1. Emergency Response Coordination:

o The project enhances coordination among emergency response services, ensuring that vulnerable populations receive timely assistance during flooding events. This includes access to shelters, medical care, and other support services.

2. Community Support Networks:

o By fostering collaboration among local governments, non-profits, and community organizations, the project strengthens community support networks that provide assistance to vulnerable populations during and after disasters.

Long-Term Resilience and Sustainability

1. Infrastructure Improvements:

o The project aligns with local and regional infrastructure improvements, ensuring that vulnerable communities benefit from enhanced flood protection measures such as improved drainage systems and resilient road networks.

2. Sustainable Development:

o By promoting sustainable development practices, the project helps create a built environment that is more resilient to future flooding events, providing long-term benefits to vulnerable populations.

Inclusive Design and Implementation

1. Human-Centered Design:

o The project adheres to human-centered design principles, ensuring that the system is user-friendly and accessible to all community members, including those with limited technological skills or resources.

2. Community Involvement:

o The project emphasizes public participation, ensuring that the voices of vulnerable residents are heard in the planning and implementation process. This helps create solutions that are tailored to the specific needs and preferences of the community.

By incorporating these initiatives, the SAFE Roads project ensures that vulnerable populations are better protected, informed, and resilient in the face of flooding events and other natural disasters.

Describe how the proposed project creates economic opportunities for the local community:
The proposed SAFE Roads (Situational Awareness of Flooding Events Resilience) project creates economic opportunities for the local community in several significant ways:

Job Creation

1. Development and Implementation:

o Technology and Data Analysis: The development and implementation of the SAFE Roads system require skilled professionals in technology, data analysis, and software development. This creates job opportunities for local tech experts and data scientists.

o Construction and Maintenance: The project involves infrastructure improvements, such as installing sensors and upgrading drainage systems, which generate jobs in construction, engineering, and maintenance.

2. Ongoing Operations and Support:

o System Maintenance: The ongoing maintenance and support of the SAFE Roads system create long-term employment opportunities for IT professionals, system administrators, and technical support staff.

o Training and Education: Providing training programs for end-users and community members requires educators and trainers, creating additional job opportunities.

Support for Local Businesses

1. Business Continuity:

o Early Warnings and Real-Time Information: By providing early warnings and real-time updates on flooding events, the project helps local businesses prepare for and respond to disasters, minimizing disruptions and economic losses. This ensures that businesses can continue to operate and recover quickly after flooding events.

o Supply Chain Stability: The project helps maintain stable supply chains by ensuring that transportation networks remain functional during flooding events, supporting local businesses that rely on timely deliveries and shipments.

2. Increased Demand for Services:

o Local Contractors and Suppliers: The project's infrastructure improvements and system installations create demand for local contractors, suppliers, and service providers, stimulating economic activity in the community.

o Consulting and Advisory Services: The need for expertise in disaster resilience and flood management creates opportunities for local consulting firms and advisory services.

Economic Revitalization

1. Attracting Investment:

o Enhanced Resilience: By improving community resilience to flooding and other natural disasters, the project makes the area more attractive to investors and businesses looking for stable and secure locations. This can lead to increased investment in local real estate, commercial developments, and infrastructure projects.

o Public-Private Partnerships: The project encourages public-private partnerships, attracting private investment in resilient infrastructure and community development initiatives.

2. Property Value Stabilization:

o Reduced Flood Risk: By mitigating flood risks, the project helps stabilize and potentially increase property values in flood-prone areas. This benefits homeowners and the local tax base, providing additional revenue for community services and infrastructure improvements.

Community Development

1. Improved Quality of Life:

o Safe and Resilient Housing: By protecting housing from flood damage and ensuring safe living conditions, the project enhances the quality of life for residents, making the community a more desirable place to live and work.

o Public Health and Safety: Ensuring access to critical infrastructure and services during disasters improves public health and safety, contributing to a healthier and more productive workforce.

2. Educational Opportunities:

o Disaster Preparedness Education: The project includes community engagement and education components that raise awareness about flood risks and preparedness measures. This empowers residents with the knowledge and skills needed to protect themselves and their properties, enhancing overall community resilience.

Long-Term Economic Resilience

1. Sustainable Development:

o Green Infrastructure: The project promotes sustainable development practices, such as green infrastructure and resilient construction, that reduce long-term flood risks and environmental impacts. This supports the local economy by creating jobs in sustainable construction and environmental management.

o Climate Change Adaptation: By incorporating climate change projections and future risk scenarios, the project ensures that the community is prepared for long-term environmental changes, supporting economic stability and growth.

2. Enhanced Public Services:

o Infrastructure Improvements: The project aligns with local and regional infrastructure improvements, ensuring that public services such as transportation, water, and wastewater systems are resilient to flooding events. This enhances the overall functionality and attractiveness of the community, supporting economic development.

Overall, the SAFE Roads project creates a range of economic opportunities that benefit the local community, from job creation and business support to economic revitalization and long-term resilience.

Does this project disproportionately impact vulnerable populations in the local community? Yes

Does the proposed project align with investments from other state or local capital improvements and infrastructure development efforts? Yes

Does the proposed project employ adaptable and reliable technology to guard against premature obsolescence? Yes

Describe the applicant's overall mitigation plan and how the project addressed in this application furthers that plan: The SAFE Roads (Strategic Awareness Flooding Events Resilience) project is a critical component of CBCOG's overall mitigation plan. It addresses several key aspects of the plan:

1. Enhanced Situational Awareness:

o The project aims to develop a flood situational awareness tool that provides real-time updates on flooding and its impacts on roads. This enhances the region's ability to monitor and respond to flooding events effectively.

o By leveraging advanced technologies such as AI, physics-based models, and data fusion, the project ensures accurate and timely information is available to decision-makers and the public.

2. Infrastructure Protection:

o The project focuses on assessing the impact of flooding on critical infrastructure, including roads, hospitals, and evacuation routes. This helps prioritize infrastructure improvements and ensure that essential services remain accessible during floods.

o Real-time network analysis allows for better planning and management of infrastructure during emergencies, reducing the risk of damage and disruption.

3. Community Safety and Preparedness:

o By providing real-time updates on road conditions and flood impacts, the project enhances public safety and helps residents make informed decisions during flooding events.

o The tool's user-centered design ensures it is accessible and easy to use, promoting widespread adoption and effective use by the community.

4. Sustainability and Resilience:

o The project incorporates responsible AI practices and human-centered design principles, ensuring that the system is fair, equitable, and sustainable.

o The modular and extensible design of the system allows for future enhancements, ensuring that it remains relevant and effective in the long term.

5. Collaboration and Integration:

o The project is designed to be interoperable with existing tools and data sources in the region, facilitating seamless integration and collaboration with other ongoing mitigation efforts.

o By leveraging existing data and infrastructure, the project maximizes the use of available resources and enhances the overall effectiveness of the mitigation plan.

In summary, the SAFE Roads project directly supports and enhances CBCOG's overall mitigation plan by improving situational awareness, protecting critical infrastructure, enhancing community safety, promoting sustainability, and facilitating collaboration. This comprehensive approach ensures that the region is better prepared for and more resilient to flooding events.

Describe how the proposed project will contribute to the community's resiliency against future disasters as a result of these projects: The SAFE Roads (Strategic Awareness Flooding Events Resilience) project is designed to significantly enhance the community's resilience against future disasters. Here's how it contributes to this goal:

1. Real-Time Situational Awareness

• Flood Monitoring: The project provides real-time updates on flooding and its impacts on roads and critical infrastructure. This allows for timely and informed decision-making during disaster events, helping to mitigate immediate risks.

• Data Integration: By integrating data from various sources, including physical sensors, remote sensing, and social sensors, the system offers a comprehensive view of the flood situation. This holistic approach ensures that all relevant information is available to responders and the community.

2. Infrastructure Protection and Management

• Critical Infrastructure: The project focuses on assessing and protecting critical infrastructure such as hospitals, evacuation routes, and emergency services. By ensuring these facilities remain accessible during floods, the project helps maintain essential services and reduce the impact of disasters on the community.

• Network Analysis: Real-time network analysis helps estimate the impact of flooding on community access to critical facilities. This allows for better planning and management of

infrastructure, ensuring that resources are allocated effectively to maintain accessibility and functionality during disasters.

3. Community Safety and Preparedness

- Public Alerts and Updates: The system provides real-time updates on road conditions and flood impacts, helping residents avoid dangerous areas and make informed decisions. This enhances public safety and reduces the risk of accidents and injuries during flooding events.
- User-Friendly Design: The project's emphasis on human-centered design ensures that the system is easy to use and accessible to all community members. This promotes widespread adoption and effective use of the tool, enhancing overall community preparedness.

4. Sustainability and Long-Term Resilience

- Responsible AI Practices: The project adheres to responsible AI practices, ensuring that the system is fair, equitable, and privacy-preserving. This builds trust within the community and ensures that the system remains relevant and effective over time.
- Modular and Extensible System: The system's modular and extensible design allows for future enhancements and updates. This ensures that the technology remains up-to-date and can adapt to new challenges and advancements, providing long-term resilience.

5. Enhanced Coordination and Response

- Interoperability: The system is designed to be interoperable with existing tools and data sources, facilitating seamless integration and coordination with other ongoing mitigation efforts. This enhances the overall effectiveness of disaster response and recovery efforts.
- Collaboration: By working closely with local, state, and federal agencies, the project ensures a coordinated approach to disaster mitigation and response. This collaboration enhances the community's ability to prepare for, respond to, and recover from disasters.

6. Economic Stability

- Protecting Businesses: By ensuring that roads and critical facilities remain accessible during floods, the project helps protect local businesses and maintain economic stability. This reduces the economic impact of disasters and supports quicker recovery.
- Job Creation: The development and maintenance of the system can create jobs and stimulate economic activity, further contributing to the community's resilience.

In summary, the SAFE Roads project enhances the community's resilience against future disasters by providing real-time situational awareness, protecting critical infrastructure, improving public safety and preparedness, promoting sustainability, enhancing coordination and response, and supporting economic stability. These comprehensive measures ensure that the community is better prepared for and more capable of recovering from future flooding events and other disasters.

Fair Housing Study

Project Info

Project Information

DRGR Activity: Planning

Project Type: Planning

Project Title: Fair Housing Study

Does this project include replacement or relocation of a facility (i.e., lift station, water treatment plant, etc.)? No

Provide a detailed description of the scope of work proposed. For proposed work involving a length of road, ditch, channel, etc., report the scope of the project in linear feet (lf): The scope of work proposed in the Comprehensive Housing Study includes several key components aimed at addressing housing needs in the Coastal Bend region. Here is a detailed description:

1. Housing Analysis:

o Data Sources and Limitations: Specify the data sources to be used and any limitations associated with them.

o Special Needs Populations: Identify and describe populations with special housing needs.

o Housing Assessment: Provide a framework for assessing current housing conditions.

o Local Assessment of Need: Outline the methodology for assessing local housing needs.

2. Statement of Activities:

o Detail the activities to be reported, including by region.

3. Geographic Distribution of Housing Tax Credits:

o Include an analysis of the distribution of housing tax credits.

4. Vulnerability to Natural Disasters:

o Detail the communities most at risk of dislocation due to flooding, wind damage, chemical exposure, or other disasters.

5. Action Plan Programs and Initiatives:

o Describe the programs and policy initiatives to be included in the action plan.

6. Housing Support Continuum:

o Outline the continuum of housing support services available.

7. Allocation Plans:

o Detail the plans for allocating resources to address housing needs.

8. Special Needs Populations:

o Reiterate the focus on special needs populations throughout the study.

9. Disaster Preparedness:

o Outline the steps that should be taken to mitigate displacement due to disasters.

10. Public Participation:

o Community Involvement: Specify how community involvement will be facilitated.

o Participation in Programs: Describe how public participation in programs will be encouraged.

o Program Planning: Outline the process for public participation in planning.

o Preparation of Reports: Detail the preparation process for public reports.

11. Colonia Action Plan:

o Policy Goals: State the policy goals for the Colonia Action Plan.

o Population and Poverty Analysis: Include requirements for analyzing population and poverty.

o Housing and Beneficiaries: Describe the housing conditions and beneficiaries to be studied.

o Self-Help Centers and Initiatives: Outline the role of self-help centers and related initiatives.

12. Additional Requirements:

o Regional Tables and Analysis: Include detailed regional analysis tables.

o Racial and Ethnic Composition: Analyze the racial and ethnic composition of households.

o Bibliography and Acronyms: Provide a bibliography and list of acronyms used.

This comprehensive scope of work ensures that the study will address a wide range of housing issues, from assessing current conditions and needs to planning for future vulnerabilities and involving the community in the process.

Site: Project Site Title	Site: Street Address
CBCOG	2910 Leopard

Describe a plan for the long-term funding and management of the operations and maintenance of the project: The deliverable will be maintained on the CBCOG website for use of any community at no charge.

Total proposed number of linear feet:

Total number of proposed public facilities: 0

Project Phase	Start Date	End Date	Length (in months)
Contract Closeout	11-01-2026	02-01-2027	3
Submit As-Builts/COCC/FWCR	02-01-2025	02-01-2025	0
Construction	02-01-2025	02-01-2025	0
Construction NTP	02-01-2025	02-01-2025	0
Contract Award	02-01-2025	02-01-2025	0
Bid Advertisement	02-01-2025	02-01-2025	0
Acquisition	02-01-2025	02-01-2025	0
Environmental Review	02-01-2025	02-01-2025	0
Engineering Design	02-01-2025	02-01-2025	0
Start-Up Documentation	02-01-2024	02-01-2027	36

National Objective

National Objective

Provide Total Number of Beneficiaries: 259,497

Provide number of LMI Beneficiaries 173,608

Percentage of LMI Beneficiaries: 66.9%

Is that applicant a HUD Exception Grantee? Yes

Male:

Female:

Total:

Race	Hispanic Population	Non-Hispanic Population	Total Population
White			
Some Other Race			
Other Multi-Racial			
Native Hawaiian / Other Pacific Islander			
Black African American/White			
Black African American			
Asian/White			
Asian			
American Indian/Alaskan Native/White			
American Indian/Alaskan Native/Black African American			
American Indian/Alaskan Native			

Which HUD national objective does the project meet? LMI

Describe activities that benefit low- and moderate-income people: The Comprehensive Housing Study benefits low- and moderate-income (LMI) people in several significant ways:

1. Identification of Housing Needs:

o The study assesses current housing conditions and identifies specific needs within LMI communities. This helps to pinpoint areas where housing is inadequate or unaffordable, ensuring that resources are directed where they are most needed.

2. Improvement of Housing Conditions:

o By analyzing and addressing the quality of existing housing, the study aims to improve living conditions for LMI individuals. This includes identifying and prioritizing repairs, renovations, and upgrades to ensure safe and healthy housing.

3. Affordable Housing Development:

o The study supports the development of new affordable housing units. By identifying gaps in the housing market and areas with high demand, it helps to guide the construction of housing that LMI families can afford.

4. Disaster Preparedness and Resilience:

o The study includes a focus on vulnerability to natural disasters, such as flooding. By identifying at-risk areas and proposing mitigation measures, it helps to protect LMI communities from displacement and property loss due to disasters.

5. Access to Housing Support Services:

o The study outlines a continuum of housing support services, including rental assistance, homeownership programs, and emergency housing. These services are crucial for helping LMI individuals maintain stable housing and avoid homelessness.

6. Economic Opportunities:

o By improving housing stability, the study indirectly supports economic opportunities for LMI individuals. Stable housing allows people to focus on employment, education, and other activities that can improve their economic situation.

7. Community Involvement:

o The study emphasizes public participation, ensuring that the voices of LMI residents are heard in the planning process. This helps to create housing solutions that are tailored to the specific needs and preferences of the community.

8. Policy and Program Development:

o The study informs the development of policies and programs aimed at improving housing affordability and accessibility. This includes recommendations for local governments and organizations on how to best support LMI communities.

9. Resource Allocation:

o By providing detailed data and analysis, the study helps to ensure that resources are allocated efficiently and effectively. This means that funding and support are directed to the areas and projects that will have the greatest impact on LMI individuals.

Overall, the Comprehensive Housing Study plays a crucial role in enhancing the quality of life for LMI people by addressing their housing needs, improving living conditions, and supporting community resilience and economic stability.

Method(s) used to determine the beneficiaries: LMI Area Benefit

What method was used for Beneficiary Identification? Census (HUD LMISD)

Provide a brief description of the beneficiary identification method used to determine this national objective and upload supporting beneficiary maps, census data, and/or survey documents: The project is focusing on the High LMI block groups in the 7 MIT Counties. We will start with the highest populated areas and expand as funding allows.

U.S. Congressional District #: 27

Texas Representative District #: 32;43

Texas Senate District #: 18;20;27

Environmental

What is the current status of the project? Not yet begun

Will the assistance requested have any negative impact(s) or effect(s) on the environment? No

Is the proposed project likely to require an archaeological assessment? No

Is the proposed site(s) listed on the National Register of Historic Places? No

Is the project in a designated floodway or coastal high hazard area? No

Is the project in a designated special flood hazard area or a designated wetland? No

For projects in the 500 or 100-year floodplain: Does your project involve a critical action as defined in 24CFR55.2(b)(3)?

Is any project site located in a known critical habitat for endangered species? No

Is any project site a known hazardous site? No

Is any project site located on federal lands or at a federal installation? No

Is any project site subject to or participating in Fixing America's Surface Transportation Act (FAST-41) (P.L. 114-94)? No

What level of environmental review is likely needed for this project? Exempt

Provide any additional detail or information relevant to Environmental Review: There is no construction involved in this project.

Provide a brief narrative regarding how CDBG-MIT funding is to be used. Demonstrate that HUD CDBG environmental requirements have been met to date:

Permits

Does the project require any federal, state, or other permits, approvals, or waivers to complete the proposed work? No

If yes, describe the type and purpose of each permit and its association with the proposed project. Provide a copy of each permit already executed:

Does the project require any type of ratified, legally binding agreement between the applicant and any other entity to provide continual operation upon completion? No

If yes, describe the type and purpose of each agreement and its association with the proposed project. Provide a copy of each agreement already executed or drafted:

For sewer and/or water facilities projects, does the applicant currently hold the Certificate of Convenience and Necessity (CCN) for the target area proposed in the application? (If not a sewer and/or water facilities project, please choose N/A): N/A

Budget Activity Lines

Program Budget Code	Planned/Requested Amount	Planned Other Funds Amount	Total	Percent of Total
Grant Administration	$112,345.00	$0.00	$112,345.00	10.1%
Planning	$1,000,000.00	$0.00	$1,000,000.00	89.9%
Acquisition	$0.00	$0.00	$0.00	0%
Environmental	$0.00	$0.00	$0.00	0%
Special Environmental	$0.00	$0.00	$0.00	0%
Engineering	$0.00	$0.00	$0.00	0%
Construction	$0.00	$0.00	$0.00	0%

Mitigation

Identify the specific risk the proposed project will mitigate against: Severe Coastal Flooding;Riverine Flooding;Storms

Describe as to how the proposed project addresses/mitigates against the current and future risks identified: The proposed Comprehensive Housing Study addresses and mitigates against the current and future risks of severe coastal flooding and storms through several key strategies:

1. Vulnerability Assessment:

o The study includes a detailed analysis of communities most at risk of dislocation due to flooding, wind damage, chemical exposure, or other disasters. This helps identify areas that are particularly vulnerable to severe coastal flooding and storms, allowing for targeted interventions.

2. Disaster Preparedness:

o The study outlines steps to mitigate displacement due to disasters. This includes planning and preparedness measures such as evacuation plans, emergency shelters, and communication strategies to ensure residents are informed and can respond effectively during emergencies.

3. Housing Assessment and Local Needs:

o By assessing current housing conditions and local needs, the study helps to identify and address weaknesses in housing infrastructure that could be exacerbated by natural disasters. This integration ensures that housing improvements are aligned with the community's overall resiliency goals.

4. Action Plan Programs and Initiatives:

o The study describes various programs and policy initiatives designed to enhance housing stability and safety. These initiatives are integrated with community resiliency plans to ensure a coordinated approach to disaster risk reduction, including flood-proofing techniques and improved building codes.

5. Public Participation:

o The study emphasizes community involvement in disaster preparedness and mitigation planning. Engaging the public ensures that the measures taken are well-informed and widely supported, enhancing their effectiveness and integration into community plans.

6. Special Needs Populations:

o The study identifies and describes populations with special housing needs, ensuring that emergency and resiliency plans are inclusive and address the needs of all community members, particularly those who are most vulnerable.

By incorporating these elements, the proposed project aims to reduce the risks and impacts of severe coastal flooding and storms on housing in the Coastal Bend region.

Provide information about how the proposed mitigation efforts integrate into the community's emergency and resiliency plans: The proposed mitigation efforts in the Comprehensive Housing Study integrate into the community's emergency and resiliency plans through several key strategies:

1. Vulnerability Assessment:

o The study identifies communities most at risk of dislocation due to flooding, wind damage, chemical exposure, or other disasters. This information is crucial for integrating housing strategies with broader emergency management plans, ensuring that the most vulnerable areas receive targeted support.

2. Disaster Preparedness:

o The study outlines steps to mitigate displacement due to disasters, which aligns with community emergency plans. This includes preparedness measures such as evacuation plans, emergency shelters, and communication strategies to ensure residents are informed and can respond effectively during emergencies.

3. Housing Assessment and Local Needs:

o By assessing current housing conditions and local needs, the study helps to identify and address weaknesses in housing infrastructure that could be exacerbated by natural disasters. This integration ensures that housing improvements are aligned with the community's overall resiliency goals.

4. Action Plan Programs and Initiatives:

o The study describes various programs and policy initiatives designed to enhance housing stability and safety. These initiatives are integrated with community resiliency plans to ensure a coordinated approach to disaster risk reduction, including flood-proofing techniques and improved building codes.

5. Public Participation:

o The study emphasizes community involvement in disaster preparedness and mitigation planning. Engaging the public ensures that the measures taken are well-informed and widely supported, enhancing their effectiveness and integration into community plans.

6. Special Needs Populations:

o The study identifies and describes populations with special housing needs, ensuring that emergency and resiliency plans are inclusive and address the needs of all community members, particularly those who are most vulnerable.

By incorporating these elements, the proposed mitigation efforts are designed to work seamlessly with existing emergency and resiliency plans, enhancing the community's overall ability to withstand and recover from severe coastal flooding and other natural disasters.

In the space provided, list documentation provided to support the identification of the threat or hazard and how it relates to potential impact: In 2022 CBCOG contracted with the Harte Research Institute at Texas A&M University to create a visual representation of the hazards of

counties impacted by Harvey. The data focused on the vulnerable populations in the area. This is the primary source used to identify the project.

Provide a brief description of how the proposed project addresses an integrated approach to mitigation: The proposed Comprehensive Housing Study addresses an integrated approach to mitigation by considering multiple aspects of community development and resilience. Here's a brief description of how it achieves this:

1. Housing Quality and Availability:

o The study assesses current housing conditions and identifies needs within the community, focusing on improving the quality and availability of housing for low- and moderate-income (LMI) individuals. This ensures that housing is safe, affordable, and resilient to natural disasters.

2. Fair Housing Obligations:

o The study includes an analysis of housing needs and conditions, ensuring that fair housing obligations are met. This involves identifying and addressing any disparities in housing access and quality, promoting equitable housing opportunities for all community members.

3. Infrastructure:

o The study evaluates the adequacy of existing infrastructure, such as water and sewer systems, roads, and public transportation. By identifying areas for improvement, the study supports the development of resilient infrastructure that can withstand natural disasters and support community growth.

4. Economic Revitalization:

o By improving housing stability and quality, the study indirectly supports economic revitalization. Stable housing allows residents to focus on employment and education, contributing to the local economy. Additionally, the study may identify opportunities for economic development projects that enhance community resilience.

5. Overall Community Resilience:

o The study integrates disaster preparedness and mitigation strategies, such as flood-proofing techniques and improved building codes, into housing plans. This enhances the community's ability to withstand and recover from natural disasters, contributing to overall resilience.

6. Long-Term Planning Processes:

o The study emphasizes the importance of long-term planning, ensuring that housing and infrastructure improvements are sustainable and aligned with future community needs. This includes considering the impacts of climate change and other long-term risks.

7. Environmental Issues:

o The study addresses environmental issues by identifying areas at risk of flooding and other natural disasters. Mitigation measures, such as improved drainage systems and green infrastructure, are proposed to reduce environmental risks and enhance sustainability.

8. Modernization of Public Facilities and Built Environment:

o The study identifies opportunities for modernizing public facilities and the built environment to improve resilience and support community needs. This includes upgrading schools, healthcare facilities, and other critical infrastructure.

9. Development of Regional and Integrated Systems:

o The study promotes the development of regional and integrated systems that enhance coordination and resource sharing among neighboring communities. This approach ensures a more comprehensive and effective response to natural disasters.

10. Stimulation of the Local Economy:

o By making the local economy more resistant to disasters, the study supports economic stability and growth. This includes identifying and supporting industries that can thrive in a resilient community, creating jobs, and fostering economic development.

Overall, the proposed project takes a holistic approach to mitigation, addressing housing, infrastructure, economic development, and community resilience in an integrated manner. This ensures that the community is better prepared for current and future risks, enhancing overall quality of life for its residents.

Considering the local evaluation of hazard risks, responsible floodplain management, future extreme weather/natural disaster events, and long-term risks, describe how the proposed project promotes sustainable community resilience: The proposed Comprehensive Housing Study promotes sustainable community resilience by addressing several key factors:

1. Local Evaluation of Hazard Risks:

o The study includes a detailed assessment of local hazard risks, such as flooding, wind damage, and chemical exposure. By identifying the specific risks faced by the community, the study ensures that mitigation efforts are tailored to address these hazards effectively.

2. Responsible Floodplain Management:

o The study emphasizes responsible floodplain management by identifying areas prone to flooding and proposing measures to mitigate these risks. This includes improving drainage systems, implementing flood-proofing techniques, and enforcing building codes that require elevated structures in flood-prone areas.

3. Future Extreme Weather/Natural Disaster Events:

o The study considers the potential impacts of future extreme weather and natural disaster events. By incorporating climate change projections and other long-term risk factors, the study ensures that the community is prepared for a range of possible scenarios. This proactive approach helps to minimize damage and disruption from future events.

4. Long-Term Risks:

o The study addresses long-term risks by promoting sustainable development practices. This includes encouraging the use of resilient building materials, supporting green infrastructure

projects, and integrating disaster risk reduction into urban planning. These measures help to create a built environment that can withstand and recover from natural disasters.

5. Community Involvement and Education:

o The study emphasizes the importance of community involvement and education in building resilience. By engaging residents in the planning process and providing information on disaster preparedness, the study helps to foster a culture of resilience. This ensures that community members are informed, prepared, and able to respond effectively in the event of a disaster.

6. Economic and Social Resilience:

o The study supports economic and social resilience by improving housing stability and quality. Stable housing allows residents to focus on employment, education, and other activities that contribute to economic growth. Additionally, the study identifies and addresses the needs of vulnerable populations, ensuring that all community members have access to safe and affordable housing.

7. Integration with Existing Plans:

o The study integrates with existing emergency and resiliency plans, ensuring a coordinated approach to disaster risk reduction. This includes aligning housing strategies with broader community goals, such as infrastructure improvements, economic development, and environmental sustainability.

8. Sustainable Resource Allocation:

o By providing detailed data and analysis, the study helps to ensure that resources are allocated efficiently and effectively. This means that funding and support are directed to the areas and projects that will have the greatest impact on community resilience.

Overall, the proposed project promotes sustainable community resilience by addressing both immediate and long-term risks, engaging the community, and integrating with broader planning efforts. This comprehensive approach ensures that the community is better prepared to withstand and recover from natural disasters, enhancing overall quality of life for its residents.

Describe how the proposed project is consistent with local and regional planning efforts to effect disaster mitigation: The proposed Comprehensive Housing Study is consistent with local and regional planning efforts to effect disaster mitigation in several ways:

1. Alignment with Local Hazard Mitigation Plans:

o The study builds on existing local hazard mitigation plans by identifying specific housing vulnerabilities and proposing targeted interventions. This ensures that housing strategies are integrated with broader efforts to reduce disaster risks and enhance community resilience.

2. Coordination with Regional Planning Initiatives:

o The study coordinates with regional planning initiatives, such as those led by the Coastal Bend Council of Governments (CBCOG) and the Texas General Land Office (GLO). By aligning with these initiatives, the study ensures a cohesive approach to disaster mitigation across multiple jurisdictions.

3. Integration with Emergency Management Plans:

o The study integrates with local and regional emergency management plans, ensuring that housing strategies support broader disaster preparedness and response efforts. This includes aligning housing improvements with evacuation routes, emergency shelters, and communication systems.

4. Support for Sustainable Development Goals:

o The study promotes sustainable development by encouraging the use of resilient building materials, green infrastructure, and other sustainable practices. This aligns with local and regional goals to create a built environment that can withstand and recover from natural disasters.

5. Community Engagement and Public Participation:

o The study emphasizes community engagement and public participation, ensuring that the voices of residents are heard in the planning process. This aligns with local and regional efforts to involve the community in disaster mitigation planning and decision-making.

6. Focus on Vulnerable Populations:

o The study identifies and addresses the needs of vulnerable populations, such as low- and moderate-income (LMI) individuals, ensuring that disaster mitigation efforts are inclusive and equitable. This supports local and regional goals to protect the most at-risk community members.

7. Data-Driven Decision Making:

o The study provides detailed data and analysis to inform decision-making, ensuring that resources are allocated efficiently and effectively. This aligns with local and regional efforts to use data-driven approaches to disaster mitigation.

8. Long-Term Resilience Planning:

o The study considers long-term risks and incorporates climate change projections, ensuring that housing strategies are sustainable and resilient to future disasters. This supports local and regional goals to enhance long-term community resilience.

9. Collaboration with Stakeholders:

o The study involves collaboration with various stakeholders, including local governments, non-profit organizations, and community groups. This ensures a coordinated and comprehensive approach to disaster mitigation.

By aligning with these local and regional planning efforts, the proposed project ensures a cohesive and effective approach to disaster mitigation, enhancing the overall resilience of the community.

Was a cost-benefit analysis used in the selection of the proposed project? No

Describe how the proposed project impacts vulnerable populations in the local community.: The proposed Comprehensive Housing Study significantly impacts vulnerable populations in the local community through several key initiatives:

1. Identification of Housing Needs:

o The study assesses the specific housing needs of vulnerable populations, including low- and moderate-income (LMI) individuals, seniors, people with disabilities, and other at-risk groups. By identifying these needs, the study ensures that resources are directed to where they are most needed.

2. Improvement of Housing Conditions:

o By analyzing and addressing the quality of existing housing, the study aims to improve living conditions for vulnerable populations. This includes identifying and prioritizing repairs, renovations, and upgrades to ensure safe and healthy housing.

3. Affordable Housing Development:

o The study supports the development of new affordable housing units. By identifying gaps in the housing market and areas with high demand, it helps to guide the construction of housing that vulnerable populations can afford.

4. Disaster Preparedness and Resilience:

o The study includes a focus on vulnerability to natural disasters, such as flooding. By identifying at-risk areas and proposing mitigation measures, it helps to protect vulnerable populations from displacement and property loss due to disasters.

5. Access to Housing Support Services:

o The study outlines a continuum of housing support services, including rental assistance, homeownership programs, and emergency housing. These services are crucial for helping vulnerable individuals maintain stable housing and avoid homelessness.

6. Economic Opportunities:

o By improving housing stability, the study indirectly supports economic opportunities for vulnerable individuals. Stable housing allows people to focus on employment, education, and other activities that can improve their economic situation.

7. Community Involvement:

o The study emphasizes public participation, ensuring that the voices of vulnerable residents are heard in the planning process. This helps to create housing solutions that are tailored to the specific needs and preferences of the community.

8. Policy and Program Development:

o The study informs the development of policies and programs aimed at improving housing affordability and accessibility. This includes recommendations for local governments and organizations on how to best support vulnerable populations.

9. Resource Allocation:

o By providing detailed data and analysis, the study helps to ensure that resources are allocated efficiently and effectively. This means that funding and support are directed to the areas and projects that will have the greatest impact on vulnerable individuals.

Overall, the proposed project plays a crucial role in enhancing the quality of life for vulnerable populations by addressing their housing needs, improving living conditions, and supporting community resilience and economic stability.

Describe how the proposed project creates economic opportunities for the local community:
The proposed Comprehensive Housing Study creates economic opportunities for the local community in several significant ways:

1. Job Creation:

o Construction and Rehabilitation: The development of new affordable housing units and the rehabilitation of existing ones generate jobs in construction, renovation, and related industries. This includes opportunities for local contractors, laborers, and suppliers.

o Ongoing Maintenance: Improved housing conditions require ongoing maintenance and management, creating long-term employment opportunities in property management and maintenance services.

2. Support for Local Businesses:

o Increased Demand: As housing conditions improve and new residents move into the area, there is increased demand for local goods and services. This benefits local businesses, from retail stores to service providers, stimulating economic activity.

o Small Business Development: The study may identify opportunities for supporting small businesses and entrepreneurs, particularly those that can provide services related to housing and community development.

3. Enhanced Workforce Stability:

o Stable Housing: By providing stable and affordable housing, the study helps residents maintain steady employment. Stable housing reduces the stress and instability that can affect job performance and retention, leading to a more reliable and productive workforce.

o Proximity to Employment: Improved housing conditions and strategic location planning can reduce commute times and transportation costs for workers, making it easier for them to access employment opportunities.

4. Economic Revitalization:

o Neighborhood Improvement: The study supports the revitalization of neighborhoods, making them more attractive for investment. Improved infrastructure, better housing, and enhanced public spaces can attract new businesses and investors to the area.

o Property Values: As housing conditions improve, property values may increase, benefiting homeowners and the local tax base. Higher property values can lead to increased revenue for local governments, which can be reinvested in community services and infrastructure.

5. Training and Education:

o Job Training Programs: The study may include recommendations for job training and workforce development programs, particularly in construction, maintenance, and other housing-related fields. These programs can equip residents with the skills needed to secure employment and advance their careers.

o Educational Opportunities: Improved housing stability allows residents to focus on education and skill development, leading to better job prospects and higher earning potential.

6. Support for Vulnerable Populations:

o Economic Inclusion: By addressing the housing needs of low- and moderate-income individuals, the study promotes economic inclusion. Ensuring that vulnerable populations have access to affordable housing helps them participate more fully in the local economy.

o Social Services: The study may identify and support social services that help residents overcome barriers to employment, such as childcare, transportation, and healthcare services.

7. Long-Term Economic Resilience:

o Disaster Preparedness: By improving housing resilience to natural disasters, the study helps protect the local economy from the disruptive impacts of such events. This ensures that businesses can continue to operate and recover quickly after disasters.

o Sustainable Development: The study promotes sustainable development practices that enhance long-term economic stability. This includes energy-efficient housing, green infrastructure, and other measures that reduce costs and environmental impact.

Overall, the proposed project creates a range of economic opportunities that benefit the local community, from job creation and business support to workforce stability and long-term economic resilience.

Does this project disproportionately impact vulnerable populations in the local community? Yes

Does the proposed project align with investments from other state or local capital improvements and infrastructure development efforts? Yes

Does the proposed project employ adaptable and reliable technology to guard against premature obsolescence? No

Describe the applicant's overall mitigation plan and how the project addressed in this application furthers that plan: The applicant's overall mitigation plan focuses on enhancing community resilience to natural disasters, particularly severe coastal flooding and storms, through a comprehensive and integrated approach. Here’s a detailed description of the plan and how the proposed Comprehensive Housing Study furthers it:

Overall Mitigation Plan

1. Risk Assessment and Vulnerability Analysis:

o Conduct thorough assessments to identify areas and populations most vulnerable to natural disasters.

o Use data-driven approaches to map flood-prone areas and other hazard zones.

2. Infrastructure Improvements:

o Upgrade and maintain critical infrastructure, including water and sewer systems, roads, and public facilities, to withstand natural disasters.

o Implement green infrastructure projects to manage stormwater and reduce flood risks.

3. Housing Resilience:

o Develop and rehabilitate housing to ensure it is safe, affordable, and resilient to natural disasters.

o Promote the use of resilient building materials and construction practices.

4. Community Engagement and Education:

o Involve community members in planning and decision-making processes to ensure that mitigation efforts meet local needs.

o Provide education and resources on disaster preparedness and response.

5. Economic and Social Resilience:

o Support economic development initiatives that enhance community resilience, such as job training programs and small business support.

o Address the needs of vulnerable populations to ensure equitable access to resources and opportunities.

6. Integration with Regional and State Plans:

o Align local mitigation efforts with regional and state initiatives to ensure a coordinated and comprehensive approach.

o Leverage funding and resources from state and federal programs to support local projects.

How the Proposed Project Furthers the Mitigation Plan

1. Detailed Risk Assessment:

o The Comprehensive Housing Study includes a detailed analysis of housing vulnerabilities, particularly in flood-prone areas. This aligns with the overall plan's focus on risk assessment and helps identify specific areas for intervention.

2. Housing Improvements:

o By assessing current housing conditions and identifying needs, the study supports the development and rehabilitation of resilient housing. This directly contributes to the plan's goal of enhancing housing resilience.

3. Infrastructure Coordination:

o The study ensures that housing developments are integrated with local and regional infrastructure improvements. This includes aligning with projects in the City of Corpus Christi's Capital Improvement Plan and other state initiatives, enhancing overall community resilience.

4. Community Involvement:

o The study emphasizes public participation, ensuring that community members are involved in the planning process. This supports the plan's goal of engaging the community and ensuring that mitigation efforts are locally relevant and supported.

5. Support for Vulnerable Populations:

o The study identifies and addresses the housing needs of vulnerable populations, ensuring that mitigation efforts are inclusive and equitable. This aligns with the plan's focus on economic and social resilience.

6. Long-Term Planning:

o By considering long-term risks and incorporating climate change projections, the study ensures that housing strategies are sustainable and resilient to future disasters. This supports the plan's emphasis on long-term resilience planning.

7. Leveraging Additional Funding:

o The study aligns with state and local capital improvement projects, leveraging additional funding sources to support mitigation efforts. This includes funding from the Texas General Land Office and other state programs, ensuring that resources are used efficiently and effectively.

Overall, the proposed Comprehensive Housing Study is a critical component of the applicant's overall mitigation plan, addressing key areas such as risk assessment, housing resilience, community engagement, and long-term planning. By aligning with local and regional initiatives

and leveraging additional funding, the study ensures a coordinated and effective approach to disaster mitigation, enhancing the overall resilience of the community.

Describe how the proposed project will contribute to the community's resiliency against future disasters as a result of these projects: The proposed Comprehensive Housing Study will significantly contribute to the community's resiliency against future disasters through several key initiatives:

1. Risk Identification and Mitigation:

o The study includes a detailed assessment of housing vulnerabilities, particularly in areas prone to flooding and other natural disasters. By identifying these risks, the study enables targeted mitigation efforts, such as flood-proofing homes and improving drainage systems, which reduce the impact of future disasters.

2. Improved Housing Resilience:

o By promoting the use of resilient building materials and construction practices, the study ensures that new and rehabilitated housing can withstand extreme weather events. This includes elevating structures in flood-prone areas and using materials that are resistant to wind and water damage.

3. Infrastructure Integration:

o The study aligns housing developments with local and regional infrastructure improvements, such as upgraded water and sewer systems, roads, and public facilities. This integration ensures that critical infrastructure supports housing resilience, enhancing the community's overall ability to recover from disasters.

4. Community Preparedness and Education:

o The study emphasizes community involvement and education, ensuring that residents are informed about disaster risks and prepared to respond effectively. This includes public participation in planning processes and the dissemination of information on emergency preparedness and response strategies.

5. Support for Vulnerable Populations:

o By addressing the housing needs of low- and moderate-income individuals and other vulnerable populations, the study ensures that these groups are not disproportionately affected by disasters. This includes providing access to safe and affordable housing, as well as support services that enhance their resilience.

6. Economic Stability and Growth:

o Stable and resilient housing contributes to economic stability by allowing residents to maintain employment and participate in the local economy. Additionally, the study supports economic development initiatives that create jobs and stimulate growth, further enhancing community resilience.

7. Long-Term Planning and Sustainability:

o The study incorporates long-term planning and sustainability considerations, such as climate change projections and future risk scenarios. This ensures that housing and infrastructure improvements are designed to be resilient to future conditions, reducing the long-term impact of disasters.

8. Coordination with Regional and State Efforts:

o By aligning with regional and state disaster mitigation and resilience initiatives, the study ensures a coordinated approach to disaster risk reduction. This includes leveraging additional funding and resources from state programs, such as those provided by the Texas General Land Office (GLO), to support local projects.

9. Enhanced Public Facilities and Services:

o The study identifies opportunities for modernizing public facilities and services, such as schools, healthcare facilities, and emergency shelters. These improvements enhance the community's capacity to respond to and recover from disasters, providing critical support during emergencies.

Overall, the proposed Comprehensive Housing Study contributes to the community's resiliency against future disasters by addressing housing vulnerabilities, improving infrastructure, engaging the community, and supporting long-term planning and sustainability. These efforts ensure that the community is better prepared to withstand and recover from natural disasters, enhancing overall quality of life for its residents.

MIT Cost Overrun Assistance

Project Info

Project Information

DRGR Activity: Planning

Project Type: Planning

Project Title: MIT Cost Overrun Assistance

Does this project include replacement or relocation of a facility (i.e., lift station, water treatment plant, etc.)? No

Provide a detailed description of the scope of work proposed. For proposed work involving a length of road, ditch, channel, etc., report the scope of the project in linear feet (lf): The re-allocation of funding to communities qualified under the MIT-MOD (Method of Distribution) involves several key steps to ensure that the funds are distributed effectively and in alignment with the established criteria. Here is a detailed scope of work:

1. Identification of Eligible Projects

- Criteria Compliance: Ensure that all projects seeking re-allocated funds meet the following criteria:

o Must be a construction project.

o Must be physically located in one of the qualifying census blocks.

o Must be a project approved by the Texas General Land Office (GLO) and principally funded with Harvey MIT funds.

- Project Documentation: Collect and review documentation for each project to verify compliance with the criteria.

2. Assessment of Funding Needs

- Cost Overruns: Identify projects that have experienced cost overruns and require additional funding.

- Funding Requests: Require formal requests from entities seeking additional funds, including detailed justifications and proof of payment for incurred costs.

3. Prioritization of Projects

- Flood Zone Priority: Give priority to projects located in flood zones if there are not enough funds to cover all requests.

- First Come, First Served: Allocate funds on a first come, first served basis, ensuring timely and fair distribution.

4. Allocation of Funds

- Funding Limits: Allocate up to 15% of the total project costs, depending on the availability of funds and the number of requests.
- Approval Process: Review and approve funding requests based on the established criteria and prioritization guidelines.

5. Monitoring and Reporting

- Progress Tracking: Monitor the progress of funded projects to ensure that the additional funds are used effectively.
- Reporting Requirements: Require regular progress reports from funded entities, detailing the use of funds and project milestones.

6. Community Engagement and Transparency

- Public Announcements: Communicate the re-allocation process and funding decisions to the public to ensure transparency.

7. Documentation and Record-Keeping

- Maintain Records: Keep thorough documentation of all funding requests, approvals, and disbursements.
- Compliance: Ensure that all documentation complies with federal and state requirements, including record maintenance and access to contractor records.

Implementation Steps

1. Initial Review:

o Conduct an initial review of all submitted funding requests to ensure they meet the basic eligibility criteria.

2. Detailed Evaluation:

o Perform a detailed evaluation of each request, including a review of project documentation, cost overruns, and proof of payment.

3. Prioritization:

o Prioritize projects based on their location in flood zones and the order in which requests were received.

4. Approval and Disbursement:

o Approve funding requests and disburse funds to the selected projects, ensuring that the total allocation does not exceed 15% of the project costs.

5. Monitoring and Reporting:

o Monitor the progress of funded projects and require regular reports to ensure that funds are used appropriately and effectively.

By following this scope of work, the re-allocation of funding to communities qualified under the MIT-MOD will be conducted in a fair, transparent, and effective manner, ensuring that the

additional funds are used to enhance community resilience and address critical infrastructure needs.

Site: Project Site Title	Site: Street Address
CBCOG	2910 Leopard

Describe a plan for the long-term funding and management of the operations and maintenance of the project: There is no long-term funding plan. Once the funding is reallocated, the project is complete.

Total proposed number of linear feet:

Total number of proposed public facilities: 0

Project Phase	Start Date	End Date	Length (in months)
Contract Closeout	11-01-2026	02-01-2027	3
Submit As-Builts/COCC/FWCR	02-01-2025	02-01-2025	0
Construction	02-01-2025	02-01-2025	0
Construction NTP	02-01-2025	02-01-2025	0
Contract Award	02-01-2025	02-01-2025	0
Bid Advertisement	02-01-2025	02-01-2025	0
Acquisition	02-01-2025	02-01-2025	0
Environmental Review	02-01-2025	02-01-2025	0
Engineering Design	02-01-2025	02-01-2025	0
Start-Up Documentation	02-01-2025	02-01-2028	36

National Objective

National Objective

Provide Total Number of Beneficiaries: 259,497

Provide number of LMI Beneficiaries 173,608

Percentage of LMI Beneficiaries: 66.9%

Is that applicant a HUD Exception Grantee? Yes

Male:

Female:

Total:

Race	Hispanic Population	Non-Hispanic Population	Total Population
White			
Some Other Race			
Other Multi-Racial			
Native Hawaiian / Other Pacific Islander			
Black African American/White			
Black African American			
Asian/White			
Asian			
American Indian/Alaskan Native/White			
American Indian/Alaskan Native/Black African American			
American Indian/Alaskan Native			

Which HUD national objective does the project meet? LMI

Describe activities that benefit low- and moderate-income people: The reallocation of funds under the MIT-MOD (Method of Distribution) includes several activities specifically designed to benefit low- and moderate-income (LMI) people. The actual benefit depends on the project being reimbursed. Here are some key activities and how they contribute to the well-being of LMI communities:

1. Flood Control and Drainage Improvement

- Construction or Rehabilitation of Stormwater Management Systems: These projects help reduce flooding in LMI areas, protecting homes and businesses from water damage. Improved drainage systems ensure that floodwaters are efficiently managed, reducing the risk of property loss and health hazards associated with standing water.

2. Water and Sewer Facilities

- Upgrading Infrastructure: Enhancing water and sewer facilities in LMI communities ensures access to clean water and proper sanitation. This is crucial for public health, reducing the incidence of waterborne diseases and improving overall quality of life.

3. Communications Infrastructure

- Emergency Communication Systems: Developing robust communication networks ensures that LMI residents receive timely information during disasters. This includes alerts about evacuation routes, shelter locations, and safety measures, which are vital for protecting lives during emergencies.

4. Provision of Generators

- Backup Power for Critical Facilities: Providing generators to critical facilities such as hospitals, shelters, and emergency response centers in LMI areas ensures that these services remain operational during power outages. This is essential for maintaining healthcare services and other critical operations during disasters.

5. Natural or Green Infrastructure

- Sustainable Solutions: Implementing green infrastructure projects, such as the creation of wetlands or green spaces, helps manage stormwater naturally. These projects not only reduce flood risks but also enhance the environment and provide recreational spaces for LMI communities.

6. Public Facilities

- Shelters and Community Centers: Building or upgrading public facilities such as shelters, libraries, and community centers provides safe havens during disasters and supports community activities. These facilities can also serve as distribution points for aid and resources during emergencies.

By focusing on these activities, the reallocation of funds under the MIT-MOD ensures that low- and moderate-income people receive the necessary support to enhance their resilience against future disasters. These efforts contribute to safer, healthier, and more stable communities.

Method(s) used to determine the beneficiaries: LMI Area Benefit

What method was used for Beneficiary Identification? Census (HUD LMISD)

Provide a brief description of the beneficiary identification method used to determine this national objective and upload supporting beneficiary maps, census data, and/or survey documents: Only projects approved by GLO for the Harvey MIT funds will be considered. Communities that have expressed a need for assistance with cost overrun include Portland, Premont, Rockport, Refugio, Kleberg County, Jim Wells County, and Aransas County

U.S. Congressional District #: 15;27;34

Texas Representative District #: 31;32;34;43

Texas Senate District #: 18;20;27

Environmental

What is the current status of the project? Not yet begun

Will the assistance requested have any negative impact(s) or effect(s) on the environment? No

Is the proposed project likely to require an archaeological assessment? No

Is the proposed site(s) listed on the National Register of Historic Places? No

Is the project in a designated floodway or coastal high hazard area? No

Is the project in a designated special flood hazard area or a designated wetland? No

For projects in the 500 or 100-year floodplain: Does your project involve a critical action as defined in 24CFR55.2(b)(3)?

Is any project site located in a known critical habitat for endangered species? No

Is any project site a known hazardous site? No

Is any project site located on federal lands or at a federal installation? No

Is any project site subject to or participating in Fixing America's Surface Transportation Act (FAST-41) (P.L. 114-94)? No

What level of environmental review is likely needed for this project? Exempt

Provide any additional detail or information relevant to Environmental Review: We are reallocating funding only to previously approved GLO Harvey MIT projects

Provide a brief narrative regarding how CDBG-MIT funding is to be used. Demonstrate that HUD CDBG environmental requirements have been met to date:

Permits

Does the project require any federal, state, or other permits, approvals, or waivers to complete the proposed work? No

If yes, describe the type and purpose of each permit and its association with the proposed project. Provide a copy of each permit already executed:

Does the project require any type of ratified, legally binding agreement between the applicant and any other entity to provide continual operation upon completion? No

If yes, describe the type and purpose of each agreement and its association with the proposed project. Provide a copy of each agreement already executed or drafted:

For sewer and/or water facilities projects, does the applicant currently hold the Certificate of Convenience and Necessity (CCN) for the target area proposed in the application? (If not a sewer and/or water facilities project, please choose N/A): N/A

Budget Activity Lines

Program Budget Code	Planned/Requested Amount	Planned Other Funds Amount	Total	Percent of Total
Acquisition	$0.00	$0.00	$0.00	0%
Environmental	$0.00	$0.00	$0.00	0%
Special Environmental	$0.00	$0.00	$0.00	0%
Grant Administration	$0.00	$0.00	$0.00	0%
Engineering	$0.00	$0.00	$0.00	0%
Construction	$0.00	$0.00	$0.00	0%
Planning	$1,000,355.00	$0.00	$1,000,355.00	100%

Mitigation

Identify the specific risk the proposed project will mitigate against: Severe Coastal Flooding;Riverine Flooding;Storms

Describe as to how the proposed project addresses/mitigates against the current and future risks identified: The reallocation is only for previously approved GLO Harvey MIT projects in high LMI areas. The GLO has already determined that the project is eligible for funding.

Provide information about how the proposed mitigation efforts integrate into the community's emergency and resiliency plans: The reallocation is only for previously approved GLO Harvey MIT projects in high LMI areas. The GLO has already determined that the project is eligible for funding.

In the space provided, list documentation provided to support the identification of the threat or hazard and how it relates to potential impact: The reallocation is only for previously approved GLO Harvey MIT projects in high LMI areas. The GLO has already determined that the project is eligible for funding.

Provide a brief description of how the proposed project addresses an integrated approach to mitigation: The reallocation is only for previously approved GLO Harvey MIT projects in high LMI areas. The GLO has already determined that the project is eligible for funding.

Considering the local evaluation of hazard risks, responsible floodplain management, future extreme weather/natural disaster events, and long-term risks, describe how the proposed project promotes sustainable community resilience: The reallocation is only for previously approved GLO Harvey MIT projects in high LMI areas. The GLO has already determined that the project is eligible for funding.

Describe how the proposed project is consistent with local and regional planning efforts to effect disaster mitigation: The reallocation is only for previously approved GLO Harvey MIT projects in high LMI areas. The GLO has already determined that the project is eligible for funding.

Was a cost-benefit analysis used in the selection of the proposed project? No

Describe how the proposed project impacts vulnerable populations in the local community.: The reallocation is only for previously approved GLO Harvey MIT projects in high LMI areas. The GLO has already determined that the project is eligible for funding.

Describe how the proposed project creates economic opportunities for the local community: The reallocation is only for previously approved GLO Harvey MIT projects in high LMI areas. The GLO has already determined that the project is eligible for funding.

Does this project disproportionately impact vulnerable populations in the local community? Yes

Does the proposed project align with investments from other state or local capital improvements and infrastructure development efforts? Yes

Does the proposed project employ adaptable and reliable technology to guard against premature obsolescence? No

Describe the applicant's overall mitigation plan and how the project addressed in this application furthers that plan: The reallocation is only for previously approved GLO Harvey MIT projects in high LMI areas. The GLO has already determined that the project is eligible for funding.

Describe how the proposed project will contribute to the community's resiliency against future disasters as a result of these projects: The reallocation is only for previously approved GLO Harvey MIT projects in high LMI areas. The GLO has already determined that the project is eligible for funding.

Compund Flood Study - Regional

Project Site

Project Site

Project Site Title: Regional

Street Address: 2910 Leopard

Street Limits on Street: 2910 Leopard Street

From Street: 2910 Leopard St

To Street: 2910 Leopard St

Zip Code: 78408

City: Corpus Christi

County: TEXAS

State: Texas

Latitude:

Longitude:

Performance Measures: Public Facilities

Provide the proposed number of linear feet:

Acquisition/Uniform Relocation Assistance

Does the project require acquisition of property, purchase of easements, relocation, or any other activity requiring compliance with URA outside the listed waived activities? No

Has acquisition of the project site(s) been completed, in progress, or will need to be acquired?

Describe the type and purpose of all acquisitions (easements, real property, etc.) associated with the proposed project. For acquisitions "Previously Acquired" or "Acquisition in Progress," include the date of acquisition, detailed information and supporting documentation to ensure compliance with all URA, 42 U.S.C. 4601 et seq., and environmental review processes:

What is the planned number of parcels to be acquired?

What is the associated cost amount for this acquisition?

Fair Housing Study - CBCOG

Project Site

Project Site

Project Site Title: CBCOG

Street Address: 2910 Leopard

Street Limits on Street: 2910 Leopard Street

From Street: 2910 Leopard St

To Street: 2910 Leopard St

Zip Code: 78408

City: Corpus Christi

County: TEXAS

State: Texas

Latitude: 27.800583

Longitude: -97.396378

Performance Measures: Public Facilities

Provide the proposed number of linear feet:

Acquisition/Uniform Relocation Assistance

Does the project require acquisition of property, purchase of easements, relocation, or any other activity requiring compliance with URA outside the listed waived activities? No

Has acquisition of the project site(s) been completed, in progress, or will need to be acquired?

Describe the type and purpose of all acquisitions (easements, real property, etc.) associated with the proposed project. For acquisitions "Previously Acquired" or "Acquisition in Progress," include the date of acquisition, detailed information and supporting documentation to ensure compliance with all URA, 42 U.S.C. 4601 et seq., and environmental review processes:

What is the planned number of parcels to be acquired?

What is the associated cost amount for this acquisition?

Local Disaster Situational Awareness Tool - CBCOG

Project Site

Project Site

Project Site Title: CBCOG

Street Address: 2910 Leopard

Street Limits on Street: 2910 Leopard Street

From Street: 2910 Leopard St

To Street: 2910 Leopard St

Zip Code: 78408

City: Corpus Christi

County: TEXAS

State: Texas

Latitude: 27.800583

Longitude: -97.396378

Performance Measures: Public Facilities

Provide the proposed number of linear feet:

Acquisition/Uniform Relocation Assistance

Does the project require acquisition of property, purchase of easements, relocation, or any other activity requiring compliance with URA outside the listed waived activities? No

Has acquisition of the project site(s) been completed, in progress, or will need to be acquired?

Describe the type and purpose of all acquisitions (easements, real property, etc.) associated with the proposed project. For acquisitions "Previously Acquired" or "Acquisition in Progress," include the date of acquisition, detailed information and supporting documentation to ensure compliance with all URA, 42 U.S.C. 4601 et seq., and environmental review processes:

What is the planned number of parcels to be acquired?

What is the associated cost amount for this acquisition?

MIT Cost Overrun Assistance - CBCOG

Project Site

Project Site

Project Site Title: CBCOG

Street Address: 2910 Leopard

Street Limits on Street: 2910 Leopard Street

From Street: 2910 Leopard St

To Street: 2910 Leopard St

Zip Code: 78408

City: Corpus Christi

County: TEXAS

State: Texas

Latitude: 27.800583

Longitude: -97.396378

Performance Measures: Public Facilities

Provide the proposed number of linear feet:

Acquisition/Uniform Relocation Assistance

Does the project require acquisition of property, purchase of easements, relocation, or any other activity requiring compliance with URA outside the listed waived activities? No

Has acquisition of the project site(s) been completed, in progress, or will need to be acquired?

Describe the type and purpose of all acquisitions (easements, real property, etc.) associated with the proposed project. For acquisitions "Previously Acquired" or "Acquisition in Progress," include the date of acquisition, detailed information and supporting documentation to ensure compliance with all URA, 42 U.S.C. 4601 et seq., and environmental review processes:

What is the planned number of parcels to be acquired?

What is the associated cost amount for this acquisition?