

Subapplicant information

Name of federal agency **FEMA**
 Type of submission **Application**

CITY OF MEBANE

106 E WASHINGTON ST
 MEBANE, NC 27302 United States

State	DUNS #	EIN #
NC	089910798	566001286

Subapplicant type **Local Government**
 Is the subapplicant subject to review by Executive Order 12372 Process? **No - Not selected**
 Is the subapplicant delinquent on any federal debt? **No**

Contact information

Subrecipient Authorized Representative (SAR)

Daphna Schwartz	Primary phone	Mailing address
dschwartz@cityofmebane.com	9193049223 Work	

Point(s) of contact

Kyle Smith	Primary phone	Additional phones	Mailing address
Public Utilities Director ksmith@cityofmebane.com	9195633401 Work	3362132746 Mobile	106 E Washnigton St. Mebane NC 27302
	Fax		

Community

Please provide the following information. If the Congressional district number for your community does not display correctly, please contact your State NFIP coordinator.

Add Communities

Please find the community(ies) that will benefit from this mitigation activity by clicking on the Find communities button. If needed, modify the Congressional District number for each community by entering the updated number under the U.S. Congressional District column for that community. When finished, click the Continue button. NOTE: You should also notify your State NFIP coordinator so that the updated U.S. Congressional District number can be updated in the Community Information System (CIS) database.

Community name	County code	CID number	CRS community	CRS rating	U.S. Congressional District
MEBANE, CITY OF	001,135	370390	N		1,2,6

Please provide any additional comments below (optional).

For more information, see attachments.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
BRIC_TechnicalCriteria_Rehab.pdf	11/18/2022	ksmith@cityofmebane.com	Community Attachments	Technical Scoring Support	
Project Area Combined.pdf	01/04/2023	ksmith@cityofmebane.com	Community Attachments	Project areas	

Mitigation plan

Please provide your plan information below.

Is the entity that will benefit from the proposed activity covered by the current FEMA approved multi-hazard mitigation plan in compliance with 44 CFR Part 201? **Yes**

Please provide plan detail

Plan name	Plan type	Plan approval date
Eno-Haw Regional Hazard Mitigation Plan	Local Multijurisdictional Multi-Hazard Mitigation Plan	09/22/2020
Proposed activity description		

Please provide any additional comments below (optional).

For more information, see the attached mitigation plan and approval letter.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
Eno-Haw NC (MJ) APP Letter 09-22-2020.pdf	11/08/2022	ksmith@cityofmebane.com	Mitigation Plan Attachments	FEMA Mitigation Plan Acceptance Letter	
Final Eno-Haw HMP.msg	11/09/2022	ksmith@cityofmebane.com	Mitigation Plan Attachments	Mitigation Plan	

Scope of work

The project Scope of Work (SOW) identifies the eligible activity, describes what will be accomplished and explains how the mitigation activity will be implemented. The mitigation activity must be described in sufficient detail to verify the cost estimate. All activities for which funding is requested must be identified in the SOW prior to the close of the application period. FEMA has different requirements for project, planning and management cost SOWs.

Subapplication title (include type of activity and location)

Mebane - Sewer Rehab Projects

Activities

Primary activity type

Utility and infrastructure protection

Primary sub-activity type

Wastewater and/or sanitary sewer system

Primary sub-activity type

Wastewater and/or sanitary sewer system

Secondary activity type (Optional)

Geographic areas description

The sewer rehab project is located in central Mebane, NC. This project is located in Census Tracts 212.05, 212.06, and 212.07 in Alamance County, North Carolina with a 2018 overall SVI scores of 0.5405, 0.6349 and 0.6364. Attached is a map showing the locations of the sewer rehab project.

Community lifelines

Primary community lifeline

Hazardous material

Primary sub-community lifeline

Facilities

Secondary community lifeline (optional)

Hazard sources

Primary hazard source

Infrastructure failure

Secondary hazard source (optional)

Tertiary hazard source (optional)

Is this a phased project?

Yes

Are you doing construction in this project?

Yes

Percentage of population impacted

43

Provide detailed description of population impacted

The total population of Mebane in the 2020 census was 17,797 people. The population of people impacted by this project would be 7,660 residents or 43% of the population of Mebane. The latest Census report indicates that 11.2% of the population lives in poverty and that the percentage of the minority population is as follows: Black or African American 24.7% American Indian and Alaska Native 0.2% Hispanic or Latino 6.9% Two or More Races 3.1% This project is located in Census Tracts 212.05, 212.06, and 212.07 in Alamance County, North Carolina with a 2018 overall SVI scores of 0.5405, 0.6349 and 0.6364.

Provide a clear and detailed description of your proposed activity

The City of Mebane has several areas of town with aging infrastructure. Particularly, there are 4 areas with deteriorated sewer mains. These mains are either directly beside streams or in areas of high groundwater. These deteriorated lines allow water in the mains and manholes reducing the sewer capacity of the lines and increasing treatment plant operations. By reducing the amount of Inflow and Infiltration in the sewer lines it will increase sewer capacity within the mains and at the plant reducing the potential for sewer overflows. The City of Mebane has contracted with an engineering firm to perform a desktop analysis of the City's collection system and then perform smoke testing within a couple of drainage areas to assist in identifying areas of concern for inflow and infiltration. Four areas were identified as areas where sewer rehab was needed. These areas are the two 5th Street Outfalls, 3rd Street Outfall, and the WRRF Outfall. All these areas are located directly beside streams. Existing conditions of the sewer lines and manholes indicated water is making it into the sewer lines by both inflow through manholes and infiltration through cracks in the sewer lines. Both cases take away sewer capacity in the lines and at the treatment plant and can contribute to sewer backups and overflows. The city proposes a combination of CIPP lining and pipe bursting along with manhole rehab and replacement to provide water-tight sewer lines and reduce the overall Inflow and Infiltration within the City's sewer system.

How will the mitigation activity be implemented?

This mitigation activity will be implemented by first surveying the related sewer outfalls and identifying what manholes will need to be elevated. The 100-year floodplain will be identified and manholes will be designed to have a rim elevation at a minimum of 2 feet above the 100-year floodplain or be sealed to keep floodwater from infiltrating the manholes. The sewer lines will be slip lined by either CIPP or pipe bursting to provide water-tight sewer lines and reduce the overall Inflow and Infiltration within the City's sewer system.

Describe how the project is technically feasible and will be effective in reducing the risk by reducing or eliminating damage to property and/or loss of life in the project

Manholes identified within the 100-year floodplain will be either raised to a minimum of 2 feet above the 100-year floodplain or be sealed. Sewer lines will

area. Please include engineering design parameters and references to the following: preliminary schematic or engineering drawings/design; applicable building codes; engineering practices and/or best practices; level of protection (e.g., life safety, 100-yr flood protection with freeboard, 100-yr wind design, etc.):

Who will manage and complete the mitigation activity?

Will the project address the hazards identified and what risks will remain from all hazards after project implementation (residual risk)?

Does the mitigation activity incorporate nature-based solutions?

When will the mitigation activity take place?

Explain why this project is the best alternative. What alternatives were considered to address the risk and why was the proposed activity considered the best alternative?

Please identify the entity that will perform any long-term maintenance and provide a maintenance, schedule and cost information. The subapplicant or owner of the area to be mitigated is responsible for maintenance (including costs of long-term care) after the project is completed?

Additional comments (optional)

be CIPP lined or pipe bursted to allow for a new sewer line inside the existing sewer mains. This will reduce the overall potential of flooding and inflow and infiltration of water into the sewer system.

The City of Mebane's Public Utilities Department will manage the mitigation activity. The Public Utilities Department will contract with an engineering firm to perform survey, design, engineering, and construction administration work. The selected engineer will provide construction and bid documents to procure a contractor to complete the construction phase of the mitigation activity.

The risk of water entering the sewer line will be reduced by this project. The reduction of external water entering the sewer reduces the risks of overflows within the lines and at the treatment plant. There will still be the risk of sewer overflows but the risk will be greatly reduced especially during rain and flood events.

Yes

Upon completion of approval, final design, permitting, and bidding.

The alternative of a direct line replacement was evaluated when planning for this project. Due to environmental constraints such as streams, wetlands, and buffers and the length of time a direct replacement would take, the CIPP lining and pipe bursting was a more viable option. When utilizing trenchless technologies such as pipe bursting or CIPP lining, there are fewer impacts on the environment due to fewer excavations.

The City of Mebane will own, operate, and provide long-term maintenance for the sewer lines and manholes as required by our collections system permit. The City will perform annual inspections and mowing of the sewer outfalls. Sewer cleaning will also be performed on a minimum of a 10-year cycle. Costs vary depending upon the extent of maintenance to be performed.

Inclusion of sub-recipient management costs are included in the project budget related to the management of grant awards. Please see the implementation measures attachment for additional information and supporting documents. The outreach strategy for the project includes City Council meetings to inform the council and the public that the City is actively pursuing upgrades to the sewer system as well as future public meetings as required by award.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
Technical Feasibility Support Rehab- Combined with Exhibits.pdf	11/18/2022	ksmith@cityofmebane.com	Scope of Work Attachments	Technical Feasibility Support	
CIPP Areas.pdf	11/18/2022	ksmith@cityofmebane.com	Scope of Work Attachments	Map of work areas	
4.Rehab BRIC2022-Mebane-Population Impacted.docx	01/06/2023	ksmith@cityofmebane.com	Scope of Work Attachments	Mebane Sewer Rehabilitation by CIPP population impacted based on 2022 population estimates	
3-BRIC2022-Template-Implementation Measures.pdf	01/06/2023	ksmith@cityofmebane.com	Scope of Work Attachments	Implementation Measures	
5.Rehab BRIC2022 Mebane Outreach Activities.docx	01/06/2023	ksmith@cityofmebane.com	Scope of Work Attachments	Mebane Outreach and Engagement activities for the Sewer Rehabilitation project	
1-BRIC2022-Template-Risk Reduction & Resilience Effectiveness.pdf	01/06/2023	ksmith@cityofmebane.com	Scope of Work Attachments	Risk Reduction & Resilience Effectiveness	

Schedule

Specify the work schedule for the mitigation activities.

Add tasks to the schedule

Please include all tasks necessary to implement this mitigation activity; include descriptions and estimated time frames.

Task Name State Grant Contracting	Start Month 1	Task Duration (in Months) 2 months	Task Description Provides a timeframe from letter of intent to fund to final executed grant acceptance.
Task Name Request of Qualifications	Start Month 3	Task Duration (in Months) 1 months	Task Description The City will issue Request for Qualifications (RFQs) from consultants.
Task Name Constultant Selection	Start Month 4	Task Duration (in Months) 1 months	Task Description The City will review submissions from consultants and choose the best canidate based on criteria provided within RFQ.
Task Name Contract Execution and Approval by City Council	Start Month 5	Task Duration (in Months) 1 months	Task Description City Council will approve a contract with the selected consultant at the next regularly scheduled meeting date once a contract has been completed.
Task Name Preliminary Meetings	Start Month 6	Task Duration (in Months) 1 months	Task Description The consultant will schedule meetings with City Staff and Funding authroities to review the scope and make sure the project is completed to the standards of the funding agency.
Task Name Surveying	Start Month 7	Task Duration (in Months) 3 months	Task Description Field data collection and creation of base files in digital autocad format for use during design phase.
Task Name Engineering Report	Start Month 8	Task Duration (in Months) 3 months	Task Description The consultant will complete an engineering report (if required) for funding agency. Schedule assumes a 30 day review period by authority having jurisdiction, as well as time to address comments and resubmit engineering report for approval.
Task Name Environmental Report	Start Month 9	Task Duration (in Months) 3 months	Task Description

The consultant will complete an environmental report (if required) for funding agency. Schedule assumes a 30 day review period by authority having jurisdiction, as well as time to address comments and resubmit environmental report for approval.

Task Name Project Design	Start Month 11	Task Duration (in Months) 4 months Task Description The consultant will prepare construction/bid documents for the project scope using survey data that was collected.
Task Name Submission of Plans to Regulatory Agencies	Start Month 15	Task Duration (in Months) 2 months Task Description The consultant will submit construction/bid documents to regulatory/funding agencies for review to ensure they are compliant with NC Sewer Design Standards and previously approved Engineering Report.
Task Name Finalization of Plans and Bid Documents	Start Month 17	Task Duration (in Months) 1 months Task Description The consultant will address all comments from the reviewing agencies and make a complete set of drawings that are for construction.
Task Name Advertisement of Bids	Start Month 19	Task Duration (in Months) 1 months Task Description The consultant will advertise the project for bid and hold all pre-bid meetings and bid opening(s).
Task Name Selection of low bidder, recommendation of Award and Award of Contract	Start Month 20	Task Duration (in Months) 1 months Task Description The consultant will present the low bidder to City Council, recommend award to low bidder, and obtain the Council award of the contract at the next available, regularly scheduled Council Meeting. THIS WILL BE A GO/NO-GO MILESTONE FOR THIS PROJECT. IF BIDS COME IN TOO HIGH THIS PROJECT WILL NOT BE CONSTRUCTED AT THIS TIME.
Task Name Construction Contract Execution	Start Month 21	Task Duration (in Months) 1 months Task Description Execute copies of construction contracts between low bidder and City.
Task Name Preconstruction requirements	Start Month 22	Task Duration (in Months) 1 months Task Description The consultant will host preconstruction meetings with the contractor and possible subcontractors to ensure everyone has proper contact information and understands the roles of all parties involved in the project.
Task Name Procurement	Start Month 23	Task Duration (in Months) 2 months Task Description

Finalize product submittals, contractor to execute contracts with vendors and obtain materials for the project.

Task Name Construction	Start Month 25	Task Duration (in Months) 6 months
Task Description The contractor will be issued a notice to proceed and given a time that the project should finish. When the notice to proceed is issued, the contractor may begin work.		

Task Name As-Builts and Closeout	Start Month 31	Task Duration (in Months) 2 months
Task Description The consultant will provide the City with a final set of plans identifying the final project scope, including any adjustments made throughout the construction phase. The consultant will be responsible for notifying funding agency upon completion of work. Final walkthroughs will be completed, punchlist items addressed and final payments made to contractor.		

Estimate the total duration of your proposed activities (in months). **33**

Proposed project start and end dates

Start Date **2023-07-01**
End Date **2026-03-01**

Introduction

Project location

Provide a detailed description of the proposed project's location.

The sewer rehab project is located in central Mebane, NC. This project is located in Census Tracts 212.05, 212.06, and 212.07 in Alamance County, North Carolina with a 2018 overall SVI scores of 0.5405, 0.6349 and 0.6364. Attached is a map showing the locations of the sewer rehab project.

Latitude **36.095833**
Longitude **-079.270833**

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
Project Area Combined.pdf	01/04/2023	ksmith@cityofmebane.com	Project Location Attachments	Project location maps	

Project benefiting area

Provide a detailed description of the proposed project's benefiting area.

This project will directly benefit homes located adjacent to the sewer lines to be rehabilitated. Please see the attached maps of the benefiting areas for additional information.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
Benefitting Areas Combined.pdf	01/04/2023	ksmith@cityofmebane.com	Location project benefiting area Attachments	Direct benefit project areas.	

Project impact area

Provide a detailed description of the proposed project's impact area.

The population of people impacted by this project would be 7,660 residents or 43% of the population of Mebane. The latest Census report indicates that 11.2% of the population lives in poverty and that the percentage of the minority population is as follows: Black or African American 24.7% American Indian and Alaska Native 0.2% Hispanic or Latino 6.9% Two or More Races 3.1% Please see the attachments for additional information.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
CT 212.05.pdf	11/18/2022	ksmith@cityofmebane.com	Location project impact area Attachments	Census tract 212.05 SVI Score	
CT 212.06.pdf	11/18/2022	ksmith@cityofmebane.com	Location project impact area Attachments	Census tract 212.06 SVI Score	
CT 212.07.pdf	11/18/2022	ksmith@cityofmebane.com	Location project impact area Attachments	Census tract 212.07 SVI Score	

Project site inventory

Does this project subapplication propose to mitigate a property/structure(s)? (**No**
 Examples: residential home, commercial building, bridge, fire station, levee, pumping station, wastewater treatment plant, telephone pole, electric line, etc.)

Please [download the excel template](#), and then fill out the template with building or infrastructure data.

Budget

Budget cost estimate should directly link to your scope of work and work schedule. You must add at least one item(s) greater than 0 for your cost estimate. As necessary, please adjust your federal/non-federal cost shares, and add the non-federal funding source(s) you are planning to use this project. Once you have completed this section, please click the Continue button at the bottom of this page to navigate to the next section.

Add budget cost types and item(s)

First, click the Add cost type button below to add cost type cost estimate and then click the Add item(s) button to add the item(s) for the cost estimate.

Grand total: \$3,150,000.00

Budget type: Construction

▶	Cost type: Cost estimate	\$3,000,000.00
▶	Cost type: Management cost	\$150,000.00

Program income (optional)

Cost share

Cost share or matching means the portion of project costs not paid by federal funds.

Proposed federal vs. non-federal funding shares

Hazard mitigation assistance (HMA) funds may be used to pay up to 75% federal share of the eligible activity costs. Building Resilient Infrastructure and Communities (BRIC) and small impoverished communities may be eligible for up to 90% federal share. Flood Mitigation Assistance (FMA) and severe repetitive loss (SRL) properties may be eligible for up to 100% federal share. Repetitive loss (RL) properties may be eligible for up to 90% federal share.

Is this an Economically Disadvantaged Rural Community? This determines your federal/non-federal share ratio. No	Proposed federal share	71.43	2250000.00
	Proposed non-federal share	28.57	900000.00
	Based on total project cost: \$3,150,000.00		

Non-federal funding sources here

That portion of the total costs of the program provided by the non-federal entity in the form of in-kind donations or cash match received from third parties or contributed by the agency. In-kind contributions must be provided and cash expended during the project period along with federal funds to satisfy the matching requirements.

Funding source	Funding amount	% Non-federal share by source
▶ Funding source: Local Match	100.00%	\$900,000.00

Please provide any additional comments below (optional).

Funding is to be allocated within the approved 10-year CIP. For more info, please see the attachments.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
10 Year CIP.pdf	11/18/2022	ksmith@cityofmebane.com	BudgetAttachments	10 Year CIP	
Resolution- 10 Year Utility CIP 4.4.2022.pdf	11/18/2022	ksmith@cityofmebane.com	BudgetAttachments	Adopted 10-Year CIP Resolution	
Cost Estimate-1-17-23.pdf	01/18/2023	ksmith@cityofmebane.com	BudgetAttachments	Engineering cost estimate	
Rehab Matching Funds Commitment Letter Rev 1-19-23.pdf	01/19/2023	ksmith@cityofmebane.com	BudgetAttachments	Local Match Fund Commitment Letter	

Cost-effectiveness

How was cost-effectiveness determined for this project?

- BCA completed in FEMA's BCA toolkit
Subapplicant must attach supporting documentation.
- Pre-calculated benefits
- Substantial damage in special flood hazard area
- Other BCA methodology approved by FEMA in writing
- Not applicable
- Not applicable

What are the total project benefits? (\$)

9460320

What are the total project cost? (\$)	3340795
What is the benefit-cost ratio (BCR) for the entire project?	2.83
Was sea level rise incorporated into the flood elevations in the BCA?	Yes
Were environmental benefits added to the project benefits?	Yes
Were social benefits added to the project benefits?	Yes

Please provide any additional comments below (optional).

The proposed Sanitary Sewer Rehabilitation project addresses four primary vulnerabilities: Additional details and results are noted in the attached BCA technical report 1) Sewer line rehabilitation will reduce potential for overflow due to I&I. 2) Raising and rehabilitating manholes will prevent floodwater from entering collection system 3) Increase capacity within collections system and WRRF 4) Incorporate trenchless technologies (CIPP and pipe bursting, etc.) to rehab sewer mains For additional information, see the attached documents.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
Revised-Export BCATemplate 1 19 2023.xlsx	01/19/2023	ksmith@cityofmebane.com	Cost Effectiveness Attachments	City of Mebane BCA excel for Sewer Rehabilitation proposal	
Revised-Version 6.0.0. Build 20230103.1822.pdf	01/19/2023	ksmith@cityofmebane.com	Cost Effectiveness Attachments	City of Mebane BCA calculator results for sewer rehabilitation proposal	
Revised-Mebane sewer line BCA tech memo.pdf	01/19/2023	ksmith@cityofmebane.com	Cost Effectiveness Attachments	City of Mebane BCA Technical Memo for Sewer Rehabilitation proposal	

Environmental/Historic Preservation (EHP) Review Information

Introduction

An environmental/historic preservation review is required for all activities for which FEMA funds are being requested. FEMA will complete this review with the assistance of both the state or tribal government and the local applicant. It is important that you provide accurate information. If you are having problems completing this section, please contact your application point of contact.

A. National Historic Preservation Act - Historic Buildings and Structures

1. Does your project affect or is it in close proximity to any buildings or structures 50 years or more in age? **No**

Please confirm that you have provided the information listed below by selecting each check box. (If you have not provided these documents in any other section of the application, please attach the required documents below.)

- The property address and original date of construction for each property affected (unless this information is already noted in the Properties section).
- A minimum of two color photographs showing at least three sides of each structure (Please label the photos accordingly).
- A diagram or USGS 1:24,000 scale quadrangle map displaying the relationship of the property (s) to the project area.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

- Information gathered about potential historic properties in the project area, including any evidence indicating the age of the building or structure and presence of buildings or structures that are listed or eligible for listing on the National Register of Historic Places or within or near a National Register listed or eligible historic district. Sources for this information may include the State Historic Preservation Officer, and/or the Tribal Historic Preservation Officer (SHPO/THPO), your local planning office, historic preservation organization, or historical society.
- Consideration of how the project design will minimize adverse effects on known or potential historic buildings or structures, and any alternatives considered or implemented to avoid or minimize effects on historic buildings or structures. Please address and note associated costs in your project budget.
- For acquisition/demolition projects affecting historic buildings or structures, any data regarding the consideration and feasibility of elevation, relocation, or flood proofing as alternatives to demolition.
- Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

Please provide an explanation and any information about this project that could assist FEMA in its review.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
CIPP Historical Properties.pdf	11/18/2022	ksmith@cityofmebane.com	closeProximityTo50YearOldBuilding.attachmentlds	An exhibit showing historical structures and historical districts in the general region of the project.	

B. National Historic Preservation Act - Archeological Resources

Does your project involve disturbance of ground? **No**

Please confirm that you have provided the information listed below by selecting each check box. (If you have not provided these documents in any other section of the application, please attach the required documents below.)

- A description of the ground disturbance by giving the dimensions (area, volume, depth, etc.) and location.
- The past use of the area to be disturbed, noting the extent of previously disturbed ground.
- A USGS 1:24,000 scale or other site map showing the location and extent of ground disturbance.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

- Any information about potential historic properties, including archeological sites, in the project area. Sources of this information may include SHPO/THPO, and/or the Tribe's cultural resources contact if no THPO is designated. Include, if possible, a map showing the relation of any identified historic properties to the project area.
- Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

Please provide an explanation and any information about this project that could assist FEMA in its review.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
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C. Endangered Species Act and Fish and Wildlife Coordination Act

1. Are federally listed threatened or endangered species or their critical habitat present in the area affected by the project? **No**

Please confirm that you have provided the information listed below by selecting each check box. (If you have not provided these documents in any other section of the application, please provide the required documents either through attachment and/or comment box below.)

- Information you obtained to identify species in or near the project area. Provide the source and date of the information cited.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

- Any request for information and associated response from the USFWS, the National Marine Fisheries Service (NMFS) (for affected ocean-going fish), or your State Wildlife Agency, regarding potential listed species present and potential of the project to impact those species.
- Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

Please provide an explanation and any information about this project that could assist FEMA in its review.

2. Does your project remove or affect vegetation? **Yes**

Please confirm that you have provided the information listed below by selecting each check box. (If you have not provided these documents in any other section of the application, please provide the required documents either through attachment and/or comment box below.)

- Description of the amount (area) and type of vegetation to be removed or affected.
- A site map showing the project area and the extent of vegetation affected.
- Photographs or digital images that show both the vegetation affected and the vegetation in context of its surroundings.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

The work areas are located in the existing sewer line right of way which has a grass ground cover. This type of project does not typically require any excavation and any vegetation damaged by construction traffic will be revegetated.

Please provide an explanation and any information about this project that could assist FEMA in its review.

3. Is your project in, near (within 200 feet), or likely to affect any type of waterway or body of water? **Yes**

If Yes, and project is not within an existing building, you must confirm that you have provided the following: (If you have not provided these documents in any other section of the application, please attach the required documents below.)

- A USGS 1:24,000 scale quadrangle map showing the project activities in relation to all nearby water bodies (within 200 feet).
- Any information about the type of water body nearby including: its dimensions, the proximity of the project activity to the water body, and the expected and possible changes to the water body, if any. Identify all water bodies regardless whether you think there may be an effect.
- A photograph or digital image of the site showing both the body of water and the project area.

To help FEMA evaluate the impact of the project, please indicate below any other information you are providing. (optional)

Evidence of any discussions with the US Fish and Wildlife Service (USFWS), and/or your State Wildlife Agency concerning any potential impacts if there is the potential for the project to affect any water body.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

The project will not involve new sewer line construction or clearing. The sewer lines will be relined in place by placing a liner into the existing sewer line through a manhole, expanding the liner, and letting it cure in place. There is a existing buffer between the existing manholes and the streams within the project area. There should not be any impacts to streams. For more information, see attachments.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
CIPP Work Area Picture.pdf	11/18/2022	ksmith@cityofmebane.com	endangeredSpecies.attachmentIds	A picture of a typical sewer line right of way and description of the work area and activities	
IPAC CIPP North of Center Street.pdf	11/18/2022	ksmith@cityofmebane.com	endangeredSpecies.attachmentIds	US Fish and Wildlife Report of Endangered Species in the Project Area north of Center Street	
IPAC CIPP South of Center Street.pdf	11/18/2022	ksmith@cityofmebane.com	endangeredSpecies.attachmentIds	US Fish and Wildlife Report of Endangered Species in the Project Area south of Center Street	
Project Area Combined.pdf	01/04/2023	ksmith@cityofmebane.com	endangeredSpecies.attachmentIds	Project area maps	

Filename	Date uploaded	Uploaded by	Label	Description	Action
Historical Properties Combined.pdf	01/04/2023	ksmith@cityofmebane.com	endangeredSpecies.attachmentIds	Map of Historical properties for project.	
Disturbed Vegetation Combined.pdf	01/04/2023	ksmith@cityofmebane.com	endangeredSpecies.attachmentIds	Disturbed vegetation maps	

D. Clean Water Act, Rivers and Harbors Act, and Executive Order 11990 (Protection of Wetlands)

1. Will the project involve dredging or disposal of dredged material, excavation, adding fill material or result in any modification to water bodies or wetlands designated as 'waters of the U.S.' as identified by the US Army Corps of Engineers or on the National Wetland Inventory? **No**

E. Executive Order 11988 (Floodplain Management)

1. Does a Flood Insurance Rate Map (FIRM), Flood Hazard Boundary Map (FHBM), hydrologic study, or some other source indicate that the project is located in or will affect a 1% annual chance floodplain, a 0.2% annual chance floodplain, a regulatory floodway, or an area prone to flooding? **Yes**

Please explain in the text box below and/or provide any documentation to identify the means or the alternatives considered to eliminate or minimize impacts to floodplains (See the 8 step process found in 44 CFR Part 9.6.) to help FEMA evaluate the impact of the project:

The project will reduce leakage of existing sewer lines. The proposed relining of the pipes has less impact on the site and environment than the other options available, which is to build another sewer line, or dig up the existing lines and replace them with new pipes. The project will not involve any new construction or grading. The manholes and sewer lines are existing in place structures and the project will involve relining the existing sewer lines without excavation and will not have an impact on the floodplain or floodway.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional)

For more information, see attachments.

2. Does the project alter a watercourse, water flow patterns, or a drainage way, regardless of its floodplain designation? **No**

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
Waterway Map Pg 3.pdf	11/18/2022	ksmith@cityofmebane.com	affectToPercentAnnualChanceFloodplain.attachmentIds	Southern waterway map	
Waterway Map Pg 1.pdf	11/18/2022	ksmith@cityofmebane.com	affectToPercentAnnualChanceFloodplain.attachmentIds	Northern waterway map	
Waterway Map Pg 2.pdf	11/18/2022	ksmith@cityofmebane.com	affectToPercentAnnualChanceFloodplain.attachmentIds	WRRF outfall waterway map	
Floodplain Map Combined.pdf	01/04/2023	ksmith@cityofmebane.com	affectToPercentAnnualChanceFloodplain.attachmentIds	Project floodplain maps	

F. Coastal Zone Management Act

1. Is the project located in the state's designated coastal zone? **No**

G. Farmland Protection Policy Act

1. Will the project convert more than 5 acres of prime or unique farmland outside city limits to a non-agricultural use? **No**

H. Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (Hazardous and Toxic Materials)

1. Is there a reason to suspect there are contaminants from a current or past use on the property associated with the proposed project? **No**

2. Are there any studies, investigations, or enforcement actions related to the property associated with the proposed project? **Not known**

Please provide an explanation and any information about this project that could assist FEMA in its review. **A review of NCDEQ's Community Mapping System does not show any know sites within the project area.**

3. Does any project construction or operation activities involve the use of hazardous or toxic materials? **Yes**

If Yes, please indicate below any other information you are providing to help FEMA evaluate the impact of the project: (If you have not provided these documents in any other section of the application, please attach the required documents below.)

- Comments and any relevant documentation.
- Results of any consultations with state or local agency to obtain permit with requirements for handling, disposing of or addressing the effects of hazardous or toxic materials related to project implementation.
- Attached materials or additional comments.

Please provide an explanation and any information about this project that could assist FEMA in its review. (optional) **The construction of liner includes the use of a polyester resin that is considered a hazardous material until cured for the construction of the liner. There are no special permits associated with the storage or use of the resin. The resin will be stored, handled, and disposed of according to the manufacturer's specifications. For more information, see attachments.**

4. Do you know if any of the current or past land-uses of the property affected by the proposed project or of the adjacent properties are associated with hazardous or toxic materials? **No**

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
7.) LINER TECHNICAL INFORMATION.pdf	11/18/2022	ksmith@cityofmebane.com	resourceConservationRecovery.attachmentlds	Liner technical info example	
8.) RESIN.pdf	11/18/2022	ksmith@cityofmebane.com	resourceConservationRecovery.attachmentlds	Resin technical info example	

I. Executive Order 12898, Environmental Justice for Low Income and Minority Populations

1. Are there low income or minority populations in the project's area of effect or adjacent to the project area? **No**

J. Other Environmental/Historic Preservation Laws or Issues

1. Are there other environmental/historic preservation requirements associated with this project that you are aware of? **No**

2. Are there controversial issues associated with this project? **No**

3. Have you conducted any public meeting or solicited public input or comments on your specific proposed mitigation project? **Yes**

If Yes, please indicate in the text box below a description of the requirements, issues or public involvement effort.

The City of Mebane has passed resolutions at City Council meetings to inform council and the public that the City is actively pursuing upgrades to the sewer system. These resolutions have been approved and Council has thanked the Utilities Department for the work they do and research they conduct trying to find grants and loans to help the City improve its infrastructure. Public meetings will also be held to inform the public of this project if awarded as required.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
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K. Summary and Cost of Potential Impacts

Having answered the questions in parts A. through J., have you identified any aspects of your proposed project that have the potential to impact environmental resources or historic properties? **No**

Evaluation

Is the applicant participating in the [Community Rating System \(CRS\)](#)? **No**

Is the applicant a [Cooperating Technical Partner \(CTP\)](#)? **No**

Was this application generated from a previous FEMA HMA Advance Assistance or Project Scoping award or any other federal grant award, or the subapplicant is a past recipient of Building Resilient Infrastructure and Communities (BRIC) non-financial Direct Technical Assistance? **No**

Has the applicant adopted building codes consistent with the [international codes](#)? **Yes**

Year of building code **2018**

Please provide the building code. **NC State Building Code**

Have the applicant's building codes been assessed on the [Building Code Effectiveness Grading Schedule \(BCEGS\)](#)? **Yes**

Select rating. **4**

Describe involvement of partners to enhance the mitigation activity outcome. **The City of Mebane has partnered with the Alamance County Chamber of Commerce, Orange County, and the Piedmont Triad Regional Council for work on the sewer rehab project and attached letters of support for each partner. Additional partners include the Upper Cape Fear River Basin Association, a group of municipalities that discharge into the Cape Fear River Basin with a robust monitoring network encompassing 41 stations that are sampled monthly and bi-monthly throughout the year. The City of Mebane works with this group to monitor both upstream and downstream of the Water Resource Recovery Facility. Through these partnerships and partnerships with other municipalities, citizens are educated about stormwater pollution.**

For a more detailed description of the project's partnerships, see the **Mebane Leveraging Partners** attachment below.

Discuss how anticipated future conditions are addressed by this project.

During wet weather or storm events, the Mebane Water Resource Recovery Facility (WRRF) experiences surges in flow at the plant's headworks. These surges in flow are due to deteriorating sewer infrastructure upstream that allows stormwater into the sanitary sewer system. If the inflow into the sanitary sewer system is large enough, the headworks can surcharge, creating overflows of the sanitary sewer within the WRRF. Looking at climate change data, there are expected to be more rainfall events with more intensity. The historical average for 24-hour rain events in the City of Mebane is six days a year. By 2090, the city is projected to have up to 18 days of over one inch of rainfall. This is a significant increase from the current climate pattern and one that the City of Mebane must prepare for. This project will help reduce impacts from climate change on the sewer system and the WRRF by decreasing the amount of inflow and infiltration in the sewer system. For a more detailed description of the project's future conditions and climate change considerations, see the **Future Conditions** attachment below.

Additional comments (optional)

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
BCEGS Letter.pdf	11/18/2022	ksmith@cityofmebane.com	Evaluation Attachments	BCEGS Letter	
BRIC_TechnicalCriteria_Rehab.pdf	11/18/2022	ksmith@cityofmebane.com	Evaluation Attachments	Technical Scoring Support	
2-BRIC2022-Template-Future_Conditions.pdf	01/06/2023	ksmith@cityofmebane.com	Evaluation Attachments	Future Conditions	
Rehab_Support_Letters.pdf	01/04/2023	ksmith@cityofmebane.com	Evaluation Attachments	Support Letters	
6.RehabBRIC2022_Mebane_LeveragingPartners.docx	01/06/2023	ksmith@cityofmebane.com	Evaluation Attachments	Mebane Sewer Rehabilitation Leveraging Partners	

Comments & attachments

- ▶ **Community** **1 comment, 2 attachments**
- ▶ **Mitigation plan** **1 comment, 2 attachments**
- ▶ **Scope of work** **1 comment, 6 attachments**
- ▶ **Budget** **1 comment, 4 attachments**
- ▶ **Cost-effectiveness** **1 comment, 3 attachments**
- ▶ **Evaluation** **0 comment, 5 attachments**
- ▶ **Environmental/Historic Preservation (EHP)** **0 comment, 13 attachments**
- ▶ **Location** **0 comment, 5 attachments**

Assurances and certifications

[View burden statement](#)

SF-424D: Assurances - Construction Programs

Content:

OMB Number: 4040-0009
 Expiration Date: 02/28/2025

Certain of these assurances may not be applicable to your project or program. If you have any questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project costs) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, the right to examine all records, books, papers, or documents related to the assistance; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will not dispose of, modify the use of, or change the terms of the real property title or other interest in the site and facilities without permission and instructions from the awarding agency. Will record the Federal awarding agency directives and will include a covenant in the title of real property acquired in whole or in part with Federal assistance funds to assure nondiscrimination during the useful life of the project.
4. Will comply with the requirements of the assistance awarding agency with regard to the drafting, review and approval of construction plans and specifications.
5. Will provide and maintain competent and adequate engineering supervision at the construction site to ensure that the complete work conforms with the approved plans and specifications and will furnish progressive reports and such other information as may be required by the assistance awarding agency or State.
6. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
7. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
8. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
9. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
10. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee- 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
11. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
12. Will comply with the provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
13. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.
14. Will comply with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
15. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (F.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
16. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
17. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a--1 et seq.).
18. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
19. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.
20. Will comply with the requirements of Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. 7104) which prohibits grant award recipients or a sub-recipient from (1) Engaging in severe forms of trafficking in persons during the period of time that the award is in effect (2) Procuring a commercial sex act during the period of time that the award is in effect or (3) Using forced labor in the performance of the award or subawards under the award.

Certifications regarding lobbying

OMB Number: 4040-0013

Expiration Date: 02/28/2025

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Statement for Loan Guarantees and Loan Insurance

The undersigned states, to the best of his or her knowledge and belief, that:

If any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions. Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.