

CITY OF SMITHVILLE

2020 GLO CDBG-MIT PROJECT

Hazard, Risk Description - Describe how the risk(s) selected (Flooding, Hurricanes/Tropical Storms) are impacting the proposed project area. Reference where adopted local mitigation efforts are planned or underway where appropriate.

Historically, during heavy rainfall events, the City of Smithville has experienced flooding in various parts of the City. Generally, existing terrain within the City is extremely flat with elevations typically varying between 0.2% to 1.0%. Primary means of storm water collection is through a combination of open ditches, curb and gutter, and an existing storm sewer system with sizes typically ranging between 12-30 inches in diameter. Runoff that is collected either drains to Willow Creek which is located on the south and east sides of the City, Gazley Creek which is located on the west side of the City, or the Colorado River which is located on the north side. During such storm events, the existing storm sewer system, ditches, and streets are overwhelmed and unable to quickly convey storm water runoff away resulting in flooding of businesses, residential neighborhoods, and over existing City streets.

For the 2020 GLO CDBG-MIT, the City is applying for drainage improvements that would provide flood relief to various parts of the City. Over the last several years, the City has strived to construct improvements City-wide to better facilitate drainage and provide relief to its citizens. The projects that were completed were funded through a combination of City allocated funds and various grant programs and were chosen by the City Council based on available funding for that particular fiscal year, staff recommendations, public hearings conducted through the City's budgeting process, and through City-wide regional planning. Attached is an exhibit depicting the projects that were completed by the City over the last several years as well as projects that are currently funded to move forward. Also shown on the exhibit are the improvements the City would like to construct using 2020 GLO CDBG-MIT funds. As the exhibit illustrates, the proposed improvements would be a continuation of what the City has already started and would vastly improve conditions over a significant portion of the City.

Hazard Mitigation Actions - Describe how the proposed project will mitigate against the identified lists. Reference where adopted local mitigation efforts are being enhanced where appropriate.

The proposed project includes several facets that will help mitigate against flooding. First, the project includes the construction of two regional detention ponds that would allow a place for stormwater runoff to be stored when the existing drainage system is overwhelmed. Second, the project includes installing new storm sewer systems to connect to the regional ponds. Utilizing the depth of the proposed ponds, the City would be able to install deeper, larger diameter storm sewer systems from the surrounding low-lying areas into the pond(s) which would move runoff underground, increase stormwater conveyance, and help protect the adjoining streets and neighborhoods from dangerous floodwaters. Finally, the project includes upgrading / enlarging and extending the City's existing storm sewer system which would allow greater conveyance of storm water flows.

This project will build upon the drainage improvement mitigation projects the City has constructed over the last several years as well as the ones that are currently planned and funded. The attached exhibit illustrates how these improvements tie into the planned and previously completed mitigation projects.

Provide a Project Summary - Summary must identify each Activity and Site required for successful mitigation, and identify the risk being mitigated.

The overall project can be divided into four (4) parts as shown on the attached exhibit. The following is a summary of each part and the risk being mitigated:

Part 1: The scope of work includes upgrading the existing storm sewer system along NE / NW 2nd Street from Gresham Street to Ramona as well as the adjoining streets in this area. The scope of work also includes re-constructing the existing streets to properly drain to the improved system. As illustrated on the exhibit, this part would tie into and be a continuation of two projects that are currently planned, funded, and expected to go to construction in the summer / fall of 2021. These improvements will help mitigate the risk of stormwater flooding existing businesses, residences, and streets in the downtown area.

Part 2: The scope of work includes constructing a regional detention pond at the east end of Martin Luther King Drive and SE 4th Street and building a new storm sewer system to the proposed pond along SE 4th Street, Martin Luther King Drive, Bunte Street, SE 2nd Street, and Gentry Street. These improvements will help mitigate the risk of stormwater flooding the adjoining neighborhood and existing city streets.

Part 3: The scope of work includes extending the existing storm sewer system from Short and NE 5th Streets east to Garwood Street. From Garwood and NE 5th Streets, the storm sewer would then be extended north along Garwood to NE 6th Street and then east to Bishop Street. From Garwood and NE 5th Streets, the storm sewer would also be extended south along Garwood to NE 4th Street and then east to Turney Street. Finally, this part would include enlarging the existing storm sewer line along Byrne Street from NE 5th to NE 6th Street. These improvements will help mitigate the risk of stormwater flooding the existing residential neighborhoods within and near this area.

Part 4: The scope of work includes constructing a regional detention pond adjacent and to the north of railroad right-of-way south of Loop 230 and approximately 2,000 linear feet southeast of the intersection of McSweeney Street and NE 1st Street. It also includes constructing a new storm sewer system from the proposed pond north to Loop 230, east to Faulkner Road, north to Oak Meadows Drive, and east to Lueders Lane. These improvements will help mitigate the risk of stormwater flooding the adjoining neighborhoods north and west of the proposed pond.

The combination of these parts into one project would expand upon planned or previously completed mitigation projects and greatly reduce the risk associated with flooding for a significant portion of the City.