

Project Description

History

In 2006, the City of Marianna became aware of issues related to stormwater in the Kelson Avenue area. To address these issues the City applied for and was awarded legislative appropriation funding of approximately \$200,000 to improve sidewalks, provide handrails and address erosion control through landscaping. While the funding helped address the existing problems at that time, the benefits acted as a small bandage for an even bigger problem.

In 2013, the City of Marianna began seeking funding in a larger project, the Kelson Avenue Stormwater Mitigation project. This two fold project addresses both health and safety concerns. The project begins on the northern side of Kelson Avenue at the Jefferson Street/Kelson Avenue intersection and continues 1550 linear feet concluding with a stormwater detention pond just west of the Chipola River. FDOT TAP provided \$145,792 which paid for 60% of the design plans of 526 linear feet of stormwater and box culvert construction, drainage analysis, and survey and geotechnical tests addressed in Phase A. The City of Marianna hired David H. Melvin, Incorporated to act as Engineering Design and Inspector for the project.

Project Need

The stormwater drainage basin that covers the northwest portion of town empties into a ditch that is approximately 30 feet wide by 16 feet deep, and that is located in the western right-of-way adjacent to Jefferson Street. This particular section begins on the north side of Kelson Avenue at the Jefferson Street/Kelson Avenue intersection. At the point of exit from the box culvert, the ditch expands to approximately 16 feet wide and continues expanding in depth to approximately 30 feet in some areas. Visible erosion is evident along the banks where tree roots and washed away ditch shoulders are exposed. Approximately 575 feet from the intersection another drainage ditch in a State owned right-of-way empties into the ditch bringing with it even

more water during rain events. Additional erosion is visible in this area. The drainage ditch continues along the north side of Kelson Avenue to the Chipola River. In one area the erosion is within a couple of feet of a sidewalk and within ten feet of a house.

The project has a critical environmental impact on improving water quality on an Outstanding Florida Water body, the Chipola River. Over the last twelve months with the numerous 50-100 year rain events, the drainage basin had to endure rainfalls in excess of 5-8 inches of rain. This includes numerous times the Chipola River was at flood stage. It is common to see the ditch overflowing with stormwater during rain events. The amount of water passing through the Kelson Drainage system causes great issues to the Chipola River. Sediment and soil erosion, and increased turbidity of the water results in most of this runoff eventually ending directly in the Chipola River.

The construction of this project will not only help protect the health of the Chipola River, but also protect the current health of the community, poverty levels and neighborhood sustainability. From the pictures included in this submission it is clearly evident the danger to the residences, pedestrians, bicyclist, and almost anyone traveling this route. There is even danger of a child falling into the ravine, or playing in the attractive nuisance of a ravine when a flash flood occurs. Currently there are areas as deep as 30 feet. This is a route heavily used by pedestrians to gain access to local businesses, schools, offices and hospitals from the adjoining neighborhood. The loss of safe pedestrian or bicycle passage would greatly inhibit those that are transportation disadvantaged. The project would enclose the drainage in stormwater piping and provide landscaping along the roadway, which would significantly enhance the safety of the neighborhood.

Project Details

The project is composed of five phases. The remainder of Phase A includes complete design of all plans (remaining 40%), all permitting and enclosing the stormwater system for the first phase of construction as noted on the attached map. This would immediately reduce safety and environmental impacts. The next phase is extremely critical since the construction involves some of the most seriously impacted areas of the drainage basin. Subsequent phases include construction of the retention pond (Phase B), and enclosing additional sections of the stormwater system in piping along with landscaping in Phases C, D, and E until the entire system is enclosed. The City has expended time and construction costs to attempt to bring a temporary hazard mitigation repair in anticipation of the project moving forward.

Construction of each phase of the project shall be completed by formal request for proposal by qualified contractors. The City shall follow all City, State and Federal requirements as it pertains to qualifications and advertising. Once each phase is bid, the City shall review the bids for the lowest and most responsible bidder. Construction Engineering Inspection shall be chosen by the RFP/RFQ process. The City shall follow City, State and Federal requirements regarding CEI consulting services section. City staff will handle project and financial oversight.