**Attachment B – Project Budget**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Subrecipient:  Date Prepared:  Activity: | | City of Lakeland  April 16, 2024  Lake Bonnet Drainage Flood Hazard and Debris Mitigation Project | | |  | |  | | Contract Number: | |  | | MT047 | | |  | Modification Number:  Project Budget: | | | | 1 (Transition to A1)  $42,986,390.00 | | |
|  | |  | | |  | |  | |  | |  | |  | | |  |  | | | |  | | |
| **Activity/Project** | | | **National Objective** | | | | | **Beneficiaries** | | | | | | | | | | **Budget** | | | | | | |
| **Activity** | **Description** | | **LMI** | **Slum & Blight** | | **Urgent Need** | | **VLI** | | **LI** | | **MI** | | **Non-LMI** | **Total** | | | **CDBG-DR Amount** | | **Other Funds** | | **Source\*** | **Total Funds** | |
| **1. Project Implementation** | | |  |  | |  | |  | |  | |  | |  |  | | |  | |  | |  |  | |
| 1a. | Financial records maintenance, preparation, and submittal of monthly and quarterly reports, HUD reports, SERA forms, and Audit Reports.  A-1 Deliverables: A.6. Project Implementation - Maintain financial records related to project activities on-site. A.14. Prepare financial activity reports for submission to Commerce. A.15. Prepare and submit detailed monthly and quarterly reports to Commerce. A.16. Prepare and submit Section 3 reports to Commerce. A.17 Respond to citizens’ complaints. | | X |  | |  | |  | | X | | X | |  |  | | | $1,593,290.96 | |  | |  |  | |
| 1b. | Conduct stakeholder meetings with property owners within the project area, community engagement and outreach, public meetings, and information sharing via social media and/or other methods as outlined in DOC Agreement No MT047 Project Implementation through Phase 1, Phase 2, and Phase 3.  A-1 Deliverables: A.5. Project Implementation - Prepare and submit public notices for publications. A.11. Conduct Community Engagement, Public Meetings, and Outreach requirements. | | X |  | |  | |  | | X | | X | |  |  | | | $347,163.12 | |  | |  |  | |
| 1c. | Preparation of procurement documents and specifications for environmental consulting and project oversight, bid notification, subcontractor site visit, bid review, selection & award of contracts. Responsive environmental consultant(s) will be selected to perform environmental consulting, including completion of environmental field investigations, project design and engineering, project management, and oversight as outlined in DOC Agreement No MT047 Project Implementation through Phase 1, Phase 2, and Phase 3  A-1 Deliverables: A.3. Project Implementation - Prepare procurement documents. A.8. Attend a pre-bid conference, bid opening, or preconstruction meeting. A.18. Prepare subgrant modification document for submission to Commerce for review and approval. | | X |  | |  | |  | | X | | X | |  |  | | | $50,000 | |  | |  |  | |
| 1d. | Monthly project planning meetings with City staff, vendors, subcontractors, and regulatory agencies; submittal of meeting minutes to DOC as outlined in DOC Agreement No MT047 Project Implementation through Phase 1, Phase 2, and Phase 3 (estimated 72 months).  A-1 Deliverables: A.12. Project Implementation - Conduct project planning meetings with the Subrecipient’s local governing body, vendors, subcontractors, and regulatory agencies to provide progress reports on subgrant activities; submit meeting attendance and minutes to Commerce. | | X |  | |  | |  | | X | | X | |  |  | | | $989,443.39 | |  | |  |  | |
| 1e. | Complete NEPA Review (field investigations, records review, and site surveys).  A-1 Deliverables: C.3. Engineering and Design – Conduct Environmental Review/Assessment in accordance with HUD and Commerce Policies and the National Environmental Policy Act referenced in Attachment D.4.b. of this A-1 and carry out any mitigation measures required as a result of the Environmental Review findings. | | X |  | |  | |  | | X | | X | |  |  | | | $174,942.41 | |  | |  |  | |
| 1f. | Prepare and submit NEPA Findings and Recommendations Report (Draft and Final).  A-1 Deliverables: C.3. Engineering and Design – Conduct Environmental Review/Assessment in accordance with HUD and Commerce Policies and the National Environmental Policy Act referenced in Attachment D.4.b. of this A-1 and carry out any mitigation measures required as a result of the Environmental Review findings. | | X |  | |  | |  | | X | | X | |  |  | | | $112,116.40 | |  | |  |  | |
| 1g. | Project Oversight and Program Management, communications with regulatory agencies, QA/QC, oversight, compliance maintenance, etc., as outlined in DOC Agreement No MT047 Project Implementation through Phase 1, Phase 2, and Phase 3).  A-1 Deliverables: A.2. Project Implementation - Develop policies for the Recipient to adopt related to special conditions listed in the subgrant agreement. A.4.Prepare a list of minority and women business enterprise (MBE/WBE) firms that operate in the Recipient’s area. A.7. Conduct a Fair Housing activity. A.9. Review contractor payrolls and interview employees to determine compliance with the Davis-Bacon Act, the Contract Work Hours and Safety Standards Act, and the Copeland “Anti-Kickback” Act. A.10. Maintain Project Files. A.13. Prepare documentation for, or participate in monitoring visits in person or virtually during monitoring with Commerce. A.19. Prepare responses to monitoring findings and concerns for the recipient to submit to Commerce or HUD. | | X |  | |  | |  | | X | | X | |  |  | | | $2,092,098.11 | |  | |  |  | |
| **SUB-TOTAL:** | **Deliverable 1 – Project Implementation.** | |  |  | |  | |  | |  | |  | |  |  | | | **$5,432,226.00** | |  | |  |  | |
| **2. Phase 1 - Feasibility Study** | | |  |  | |  | |  | |  | |  | |  |  | | |  | |  | |  |  | |
| 2a. | Floodway Encroachment Analysis (field investigations, records review, site visits). Prepare and submit DRAFT and FINAL Floodway Encroachment Analysis Report with findings and recommendations.  A-1 Deliverables: B.1 Feasibility Study - Floodplain management and environmental review requirements. The sub-recipient will perform activities including the following:   1. A floodway encroachment and environmental analysis to evaluate the hydraulic impact of the proposed pump station in the regulatory floodway, per 44 CFR 60.3(d)(3). | | X |  | |  | |  | | X | | X | |  |  | | | $331,900.13 | |  | |  |  | |
| 2b. | FEMA review and coordination  A-1 Deliverables: B.1.(b) Feasibility Study - If the floodway encroachment analysis indicates an increase in base flood evaluation, the city must apply for a Conditional Letter of Map Revision (CLOMR) and receive FEMA approval prior to construction (44 CFR 60.3(d)(4)). This must be accounted for in the revised project budget and schedule. | | X |  | |  | |  | | X | | X | |  |  | | | $14,676.95 | |  | |  |  | |
| 2c. | Pre-application meetings with permitting agencies (SWFWMD, FDEP, USACoE)  A-1 Deliverables: B.1.(c) Feasibility Study - Define necessary state, federal, and local permitting requirements. Early coordination with permitting agencies to confirm the need and schedule for permits and obtain project feedback is required. | | X |  | |  | |  | | X | | X | |  |  | | | $19,937.37 | |  | |  |  | |
| 2d. | Stakeholder coordination with property owners within the Feasibility Study project area to obtain site access and review the scope of work  A-1 Deliverables: B.2. Feasibility Study - The sub-recipient will specify property required to obtain easements for project implementation and:   1. Coordinate with property owners in accordance with Uniform Relocation Act requirements, and   (c). Scope community engagement specifics during design and construction, including number of public meetings held. | | X |  | |  | |  | | X | | X | |  |  | | | $27,811.25 | |  | |  |  | |
| 2e. | Conduct surveys, site inspections, property appraisals, and land/easement acquisition study.  A-1 Deliverables: B.2.(b). Feasibility Study - Conduct necessary surveys, site inspections, and appraisals and calculate subcontractor fees, real estate fees, and all other materials necessary to complete the valuation and purchase of land required to access the site and complete construction. | | X |  | |  | |  | | X | | X | |  |  | | | $53,159.67 | |  | |  |  | |
| 2f. | Prepare and submit project technical scope, schedule, budget review, and refinement to DOC for approval  A-1 Deliverables: B.3. Feasibility Study - **Floodway Encroachment Analysis.** The sub-recipient will perform limited engineering and design activities, as reasonable and necessary, to complete the required flood plain management analysis component of the feasibility study. These engineering and design elements will include and be limited to the following required surveys listed in B.3. a – d below ( or 2g -2j). | | X |  | |  | |  | | X | | X | |  |  | | | $60,354.83 | |  | |  |  | |
| 2g. | Topographic & Boundary Survey  A-1 Deliverables: B.3. (a) Feasibility Study - Topographic Survey. | | X |  | |  | |  | | X | | X | |  |  | | | $71,559.06 | |  | |  |  | |
| 2h. | Wetlands Delineation  A-1 Deliverables: B.3. (b) Feasibility Study - Wetlands Delineation. | | X. |  | |  | |  | | X. | | X | |  |  | | | $87,153.44 | |  | |  |  | |
| 2i. | Bathymetric Mapping and Sediment Thickness Survey  A-1 Deliverables: B.3. (c) Feasibility Study - Bathymetric and sediment thickness survey. | | X. |  | |  | |  | | X. | | X | |  |  | | | $181,751.77 | |  | |  |  | |
| 2j. | LiDAR Survey  A-1 Deliverables: B.3. (d) Feasibility Study - LiDAR Survey. | | X. |  | |  | |  | | X. | | X | |  |  | | | $55,938.31 | |  | |  |  | |
| 2k. | Project Feasibility & Implementation Plan (DRAFT and FINAL Reports)  A-1 Deliverables: B.4. Feasibility Study - Copy of the Feasibility Study and proposed updated Scope of Work. The sub-recipient **will provide the above-mentioned documentation outlining the project for Commerce’s review and approval prior to moving forward with the project.**  The Feasibility Study should confirm the final scope of work, properties needed for acquisition, project schedule, project budget and leveraged funds, and maintenance procedures and funding sources. The sub-recipient will confirm that any changes proposed to the initial project will still meet a National Objective and that the low-to-moderate income analysis for the project is revised, if necessary. | | X |  | |  | |  | | X | | X | |  |  | | | $240,761.04 | |  | |  |  | |
| 2l. | 30% Preliminary Design Report (Dredge Operations, Wetland Rehabilitation and Littoral Zone Restoration)  A-1 Deliverables: B.3. Feasibility Study - Floodway Encroachment Analysis. Limited Engineering and Design Activities. | | X |  | |  | |  | | X | | X | |  |  | | | $201,772.45 | |  | |  |  | |
| 2m. | 30% Preliminary Design Report (Flood Protection Mitigation)  A-1 Deliverables: B.3. Feasibility Study - Floodway Encroachment Analysis. Limited Engineering and Design Activities. | | X |  | |  | |  | | X | | X | |  |  | | | $193,920.66 | |  | |  |  | |
| **SUB-TOTAL:** | **Deliverable 2 - Phase 1 - Feasibility Study** | |  |  | |  | |  | |  | |  | |  |  | | | **$1,321,000.00** | |  | |  |  | |
| **3. Phase 2 – Design and Engineering** | | |  |  | |  | |  | |  | |  | |  |  | | |  | |  | |  |  | |
| 3a. | Complete easement & property acquisition (budget includes sub-consultant time and $$ to purchase property)  A-1 Deliverables: D.1. Construction. Acquire property necessary for project construction (including wetland dredging and flood relief infrastructure), including permanent easements, in accordance with the HUD Handbook for Tennant Assistance, Relocation, and Real Property Acquisition Handbook (Handbook 1378). Provide copies of acquisition and closing paperwork to Commerce. | | X |  | |  | |  | | X | | X | |  |  | | | $153,237.73 | |  | |  |  | |
| 3b. | Work Plans (Health & Safety, Emergency Response, Sampling & Analysis, and Quality Assurance/Quality Control)  A-1 Deliverables: C.1. Engineering and Design. Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports, documents, or information relevant to this project that meet all local current hurricane code ratings, local codes, and building codes. | | X |  | |  | |  | | X | | X | |  |  | | | 108,160.72 | |  | |  |  | |
| 3c. | Sediment sampling field investigation, laboratory analysis, and report  A-1 Deliverables: C.3. Engineering and Design – Conduct Environmental Review/Assessment in accordance with HUD and Commerce Policies and the National Environmental Policy Act referenced in Attachment D.4.b. of this A-1 and carry out any mitigation measures required as a result of the Environmental Review findings. | | X |  | |  | |  | | X | | X | |  |  | | | 324,075.00 | |  | |  |  | |
| 3d. | Geotechnical field investigation, laboratory analysis, and report  A-1 Deliverables: C.3. Engineering and Design – Conduct Environmental Review/Assessment in accordance with HUD and Commerce Policies and the National Environmental Policy Act referenced in Attachment D.4.b. of this A-1 and carry out any mitigation measures required as a result of the Environmental Review findings. | | X |  | |  | |  | | X | | X | |  |  | | | 193,606.33 | |  | |  |  | |
| 3e. | Groundwater Impact Field Investigation (monitoring well and seepage meter install, sampling, and analysis) and Report  A-1 Deliverables: C.3. Engineering and Design – Conduct Environmental Review/Assessment in accordance with HUD and Commerce Policies and the National Environmental Policy Act referenced in Attachment D.4.b. of this A-1 and carry out any mitigation measures required as a result of the Environmental Review findings. | | X |  | |  | |  | | X | | X | |  |  | | | 146,746.95 | |  | |  |  | |
| 3f. | Treatability Testing & Evaluation and Report  A-1 Deliverables: C.3. Engineering and Design – Conduct Environmental Review/Assessment in accordance with HUD and Commerce Policies and the National Environmental Policy Act referenced in Attachment D.4.b. of this A-1 and carry out any mitigation measures required as a result of the Environmental Review findings. | | X |  | |  | |  | | X | | X | |  |  | | | 96,495.98 | |  | |  |  | |
| 3g. | Construction Design 60% Plans (Dredge Operations, Wetland Restoration, and Littoral Zone Rehabilitation)  A-1 Deliverables: C.1. Engineering and Design. Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports, documents, or information relevant to this project that meet all local current hurricane code ratings, local codes, and building codes. | | X |  | |  | |  | | X | | X | |  |  | | | 219,138.74 | |  | |  |  | |
| 3h. | Construction Design 90% Plans (Dredge Operations, Wetland Restoration, and Littoral Zone Rehabilitation)  A-1 Deliverables: C.1. Engineering and Design. Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports, documents, or information relevant to this project that meet all local current hurricane code ratings, local codes, and building codes. | | X |  | |  | |  | | X | | X | |  |  | | | 137,290.86 | |  | |  |  | |
| 3i. | Construction Design 100% Plans (Dredge Operations, Wetland Restoration, and Littoral Zone Rehabilitation)  A-1 Deliverables: C.1. Engineering and Design. Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports, documents, or information relevant to this project that meet all local current hurricane code ratings, local codes, and building codes. | | X |  | |  | |  | | X | | X | |  |  | | | 84,961.60 | |  | |  |  | |
| 3j. | Value Engineering & Constructability Review and Report  A-1 Deliverables: C.1. Engineering and Design. Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports, documents, or information relevant to this project that meet all local current hurricane code ratings, local codes, and building codes. | | X |  | |  | |  | | X | | X | |  |  | | | 60,023.80 | |  | |  |  | |
| 3k. | State, Local, and Federal Permit Application and Submittal (SWFWMD, USACoE, FDEP, and Building) A-1 Deliverables: C.2. Engineering and Design. Obtain copies of all permit applications, correspondence with permitting agencies, final permits, and any other permit-related documentation for the project. | | X |  | |  | |  | | X | | X | |  |  | | | 93,611.07 | |  | |  |  | |
| 3l. | Construction Design 60% Plans (Flood Protection Mitigation)  A-1 Deliverables: C.1. Engineering and Design. Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports, documents, or information relevant to this project that meet all local current hurricane code ratings, local codes, and building codes. | | X |  | |  | |  | | X | | X | |  |  | | | 209,871.10 | |  | |  |  | |
| 3m. | Construction Design 90% Plans (Flood Protection Mitigation)  A-1 Deliverables: C.1. Engineering and Design. Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports, documents, or information relevant to this project that meet all local current hurricane code ratings, local codes, and building codes. | | X |  | |  | |  | | X | | X | |  |  | | | 154,485.12 | |  | |  |  | |
| 3n. | Construction Design 100% Plans (Flood Protection Mitigation)  A-1 Deliverables: C.1. Engineering and Design. Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports, documents, or information relevant to this project that meet all local current hurricane code ratings, local codes, and building codes. | | X |  | |  | |  | | X | | X | |  |  | | | 77,490.69 | |  | |  |  | |
| 3o. | Complete Construction Design and Bid Specification Package (Dredge Operations, Wetland Restoration, and Littoral Zone Rehabilitation)  A-1 Deliverables: C.1. Engineering and Design. Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports, documents, or information relevant to this project that meet all local current hurricane code ratings, local codes, and building codes. | | X |  | |  | |  | | X | | X | |  |  | | | 112,707.74 | |  | |  |  | |
| 3p. | Complete Construction Design and Bid Specification Package (Flood Protection Mitigation)  A-1 Deliverables: C.1. Engineering and Design. Create a full design package(s), signed and sealed by a Professional Engineer (PE) licensed in the State of Florida, including engineering drawings, specifications, construction cost estimates, surveys, and any other reports, documents, or information relevant to this project that meet all local current hurricane code ratings, local codes, and building codes. | | X |  | |  | |  | | X | | X | |  |  | | | 124,306.82 | |  | |  |  | |
| **TOTAL:** | **Deliverable 3 - Phase 2 – Engineering Services** | |  |  | |  | |  | |  | |  | |  |  | | | **2,560,000.00** | |  | |  |  | |
| **4. Phase 3 - Construction** | | |  |  | |  | |  | |  | |  | |  |  | | |  | |  | |  |  | |
| 4a. | Construction Bid Notification,  subcontractor site visit, bid review, bid award & notification to most responsive bidder(s), procurement for dredging operations and sediment management  A-1 Deliverables: A.3. Project Implementation – Prepare procurement documents. | | X |  | |  | |  | | X | | X | |  |  | | | 45,000 | |  | |  |  | |
| 4b. | Construction Management & Vendor/Subcontractor Oversight as outlined in DOC Agreement No MT047 throughout Phase 3  A-1 Deliverables: D.2. Construction - Conduct, coordinate, manage, monitor and review construction project to provide contractor oversight, project management, planning, design, and construction of project via monthly meetings. | | X |  | |  | |  | | X | | X | |  |  | | | 1,834,500.87 | |  | |  |  | |
| 4c. | Construction oversight, work plans, including Health & Safety Plan and Emergency Response & Preparedness Plan  A-1 Deliverables: D.2. Construction - Conduct, coordinate, manage, monitor and review construction project to provide contractor oversight, project management, planning, design, and construction of project via monthly meetings. | | X |  | |  | |  | | X | | X | |  |  | | | 51,786.10 | |  | |  |  | |
| 4d. | Lake Bonnet sediment removal mobilization  A-1 Deliverables: D.3. Construction - Complete the **mobilization and demobilization** of dredging equipment to the project location to begin and complete Lake Bonnet bottom dredging operations to remove an estimated 425,000 cubic yards (cy) of sediment. | | X |  | |  | |  | | X | | X | |  |  | | | 418,000 | |  | |  |  | |
| 4e. | Construct dredge materials management area(s) (DMMA) and dewatering operations for contaminated sediments  A-1 Deliverables: D.4. Construction – Conduct separation of contaminated sediment, placement of contaminated dredged sediment at separate dredge material management area, and completion of ex-situ dewatering activities. Includes sediment management unit preparation and restoration, tubes, polymer, equipment, piping, valves, polyethylene liner and equipment. | | X |  | |  | |  | | X | | X | |  |  | | | 540,830 | |  | |  |  | |
| 4f. | Construct geocells and aqua dams on 40 acres of wetland rehabilitation zone for non-contaminated dredge spoils.  A-1 Deliverables: D.7. Construction – Construct geocells and aqua dams to provide for placement of degraded wetland on the east side of Lake Bonnet. Anticipating 74,000 cy of dredge material emplacement annually. | | X |  | |  | |  | | X | | X | |  |  | | | 600,000 | |  | |  |  | |
| 4g. | Lake Bonnet sediment dredging operations (up to 425,000 cy sediment), separation of contaminated and non-contaminated sediment, placement in DMMA  A-1 Deliverables: D.4. Construction -  Conduct separation of contaminated sediment, placement of contaminated dredged sediment at separate dredge material management area, and completion of ex-situ dewatering activities. Includes sediment management unit preparation and restoration, tubes, polymer, equipment, piping, valves, polyethylene liner and equipment. | | X |  | |  | |  | | X | | X | |  |  | | | 2,790,179 | |  | |  |  | |
| 4h. | Emplace non-contaminated dredge sediment in wetland rehabilitation zone  A-1 Deliverables: D.4. Construction - Conduct separation of contaminated sediment, placement of contaminated dredged sediment at separate dredge material management area, and completion of ex-situ dewatering activities. Includes sediment management unit preparation and restoration, tubes, polymer, equipment, piping, valves, polyethylene liner and equipment. | | X |  | |  | |  | | X | | X | |  |  | | | 6,696,429 | |  | |  |  | |
| 4i. | Emplace and dewater contaminated sediment in DMMA  A-1 Deliverables: D.4. Construction - Conduct separation of contaminated sediment, placement of contaminated dredged sediment at separate dredge material management area, and completion of ex-situ dewatering activities. Includes sediment management unit preparation and restoration, tubes, polymer, equipment, piping, valves, polyethylene liner and equipment. | | X |  | |  | |  | | X | | X | |  |  | | | 230,000 | |  | |  |  | |
| 4j. | Loading/transport/disposal of approximately 58,000 cubic yards of contaminated sediments (including sample collection, laboratory analysis, and manifest preparation)  A-1 Deliverables: D.5. Construction – Loading, transportation, and disposal of contaminated sediment and dredge material; this includes sample collection (sampling) and laboratory analysis. | | X |  | |  | |  | | X | | X | |  |  | | | 2,232,140 | |  | |  |  | |
| 4k. | Littoral zone rehabilitation & enhancement (10 acres)  A-1 Deliverables: D.6. Construction -Emplace the sand cap over approximately 10 acres of littoral zone around the shoreline of Lake Bonnet with clean sand, native vegetation supplies, and any other necessary media for rehabilitation. | | X |  | |  | |  | | X | | X | |  |  | | | 1,116,071 | |  | |  |  | |
| 4l. | Lake Bonnet sediment removal demobilization  A-1 Deliverables: D.3. Construction - Complete the **mobilization and demobilization** of dredging equipment to the project location to begin and complete Lake Bonnet bottom dredging operations to remove an estimated 425,000 cubic yards (cy) of sediment. | | X |  | |  | |  | | X | | X | |  |  | | | 418,000 | |  | |  |  | |
| 4m. | Construction Bid Notification,  subcontractor site visit, bid review, bid award & notification to the most responsive bidder(s), procurement for flood hazard mitigation activities (weir removal, embankment stabilization, pump station & ancillary equipment installation, culvert retrofits, canal modifications, and flood relief diversion infrastructure)  A-1 Deliverables: A.3. Project Implementation – Prepare procurement documents. | | X |  | |  | |  | | X | | X | |  |  | | | 53,007.18 | |  | |  |  | |
| 4n. | Demolition & removal of dilapidated weir structure  A-1 Deliverables: D.8. Construction – Demolish and remove dilapidated weir structure; reconstruct and restore the canal at this location. | | X |  | |  | |  | | X | | X | |  |  | | | 198,329 | |  | |  |  | |
| 4o. | Regrading/Stabilization of west Lake Bonnet embankment  A-1 Deliverables: D.9. Construction – Complete regrading and stabilization of the western side of Lake Bonnet, to include constructing and installing structural reinforcement of the embankment. | | X |  | |  | |  | | X | | X | |  |  | | | 2,016,000 | |  | |  |  | |
| 4p. | Construct and install pump station, 42’ force main, and Ancillary Equipment for pumping from Lake Bonnet Canal to Lake Bonnet  A-1 Deliverables: D.10. Construction – Construct a pump station and installation of 100 cubic foot per second (cfs) pump, instrumentation, 43” force main, power drop/wire and any additional ancillary equipment necessary to achieve pumping from the Lake Bonnet Canal into Lake Bonnet during storm events. | | X |  | |  | |  | | X | | X | |  |  | | | 2,135,196 | |  | |  |  | |
| 4q. | Pump station power drop  A-1 Deliverables: D.10. Construction - Construct a pump station and installation of 100 cubic foot per second (cfs) pump, instrumentation, 43” force main, power drop/wire, and any additional ancillary equipment necessary to achieve pumping from the Lake Bonnet Canal into Lake Bonnet during storm events. | | X |  | |  | |  | | X | | X | |  |  | | | 40,000 | |  | |  |  | |
| 4r. | Retrofit/Construct culverts at May Manor Crossing  A-1 Deliverables: D.11. Construction – Retrofit and reconstruct existing concrete culverts at May Manor Crossing and placement of bank stabilization structures within the Lake Bonnet drainage canal. | | X |  | |  | |  | | X | | X | |  |  | | | 457,380 | |  | |  |  | |
| 4s. | Retrofit/Construct culverts at Bridge Boulevard  A-1 Deliverables: D.12. Construction – Retrofit and reconstruct existing concrete culverts at Bridge Boulevard and placement of bank stabilization structures within the Lake Bonnet drainage canal. | | X |  | |  | |  | | X | | X | |  |  | | | 457,380 | |  | |  |  | |
| 4t. | Lake Bonnet Canal Modifications (excavation, bank stabilization, dewatering, transport of materials)  A-1 Deliverables: D.9. Construction – D.9. Construction – Complete regrading and stabilization of the western side of Lake Bonnet, to include constructing and installing structural reinforcement of the embankment. | | X |  | |  | |  | | X | | X | |  |  | | | 2,215,080 | |  | |  |  | |
| 4u. | Construction of flood relief diversion barriers, conveyance infrastructure, and retention/detention facilities  A-1 Deliverables: D.13. Construction – Perform construction of flood relief diversion barriers (flood walls), drainage conveyances and infrastructure retention/detention facilities, electrical instrumentation, sump pumps, and other ancillary equipment as needed to alleviate flooding along the Lake Bonnet canal. | | X |  | |  | |  | | X | | X | |  |  | | | 8,926,255 | |  | |  |  | |
| 4v. | Final Report delivery (As-Builts, Photo Documentation)  A-1 Deliverables: A.20. Project Implementation – Project Closeout, Engineer’s Certification of Completion, Grant Closeout Package completed and submitted to Commerce and D.14. Construction – Complete final deliverables including copies of final as-built drawings; photographs of the completed project; all inspection reports; project manager certification that the project was completed in accordance with all applicable codes and standards and in addition, all documentation related to required environmental conditions must be submitted in final project deliverables. | | X |  | |  | |  | | X | | X | |  |  | | | 193,865.28 | |  | |  |  | |
| **TOTAL:** | **Deliverable 4 – Phase 3 - Construction** | |  |  | |  | |  | |  | |  | |  |  | | | **33,673,164.00** | |  | |  |  | |
|  | **Totals:** | | | | | | | | | | | | | | | | | | **42,986,390.00** | |  |  |  | |

**\*Show the sources and amounts of Other Funds needed to complete the project below, including local funds, grants from other agencies, and program income.**

|  |  |
| --- | --- |
| **Source of Other Funds** | **Amount** |
| 1. |  |
| 2. |  |
| 3. |  |
| 4. |  |