BA0000343

Budget Amendment Form

Department : Stormwater Capital	Date: 6/11/2024
Fund(s) to be changed: Stormwater Capital Fund	

GL Account	GL Line Item	Project #:	Transfer to:	Transfer from:
340.36.538.6307	HI Project Pkg 1 (PS & Outfall)	SW24-01	$ 466,115.86	
340.36.538.6307	TI Project Pkg 1 (PS & Outfall)	SW24-04	$ 133,302.04	
340.00.384.3841	Loan/Debt Proceeds (Line of Credit)			$ 599,417.90
			$ 599,417.90	**$ 599,417.90**

Description:

Increase Stormwater GOB Capital Project Budgets for SW24-01 & SW24-04 - using the SW GOB Line of Credit.

Stormwater GOB Capital Fund

	FY 24 Budget	Actual B&V	Actual B&V	Actual B&V	FY 24 Budget Balance	EXP/CHEN/ RIBBECK	FY 24 Budget Balance
24-01	$ 147,598.00	$ 6,527.99	$ 3,746.46	$ 5,221.41	$ 132,102.14	$ 598,218.00	$ (466,115.86)
24-02	$ 344,294.00	$ 15,240.31	$ 8,746.51	$ 12,189.95	$ 308,117.23		$ 308,117.23
24-03	$ 223,518.00	$ 9,898.09	$ 5,680.58	$ 7,916.97	$ 200,022.36		$ 200,022.36
24-04	$ 540,792.00	$ 23,940.14	$ 13,739.40	$ 19,148.50	$ 483,963.96	$ 617,266.00	$ (133,302.04)
24-05	$ 564,143.00	$ 24,963.65	$ 14,326.80	$ 19,967.15	$ 504,885.40	$ 416,164.00	$ 88,721.40
24-06	$ 407,301.00	$ 18,023.76	$ 10,343.95	$ 14,416.28	$ 364,517.01		$ 364,517.01
24-07	$ 542,500.00	$ 24,015.03	$ 13,782.38	$ 19,208.40	$ 485,494.19		$ 485,494.19
24-08	$ 50,000.00	$ 2,209.28	$ 1,267.92	$ 1,767.09	$ 44,755.71		$ 44,755.71
	$ 2,820,146.00	$ 124,818.25	$ 71,634.00	$ 99,835.75	$ 2,523,858.00	$ 1,631,648.00	$ 892,210.00
				$ 296,288.00			

RESOLUTION NO. 2024- 052

A RESOLUTION OF THE MAYOR AND COMMISSION OF NORTH BAY VILLAGE, FLORIDA, AUTHORIZING THE ISSUANCE OF WORK ORDERS TO EXP US SERVICES, INC., CHEN MOORE & ASSOCIATES, INC., AND RIBBECK ENGINEERING, INC. FOR DESIGN SERVICES RELATED TO THE VILLAGE'S STORMWATER IMPROVEMENT PROGRAM IN AN AMOUNT NOT TO EXCEED $598,218.00, $617,266.00, AND $416,164.00, RESPECTIVELY; AMENDING THE BUDGET FOR FISCAL YEAR 2023-2024; PROVIDING FOR IMPLEMENTATION; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, on December 12, 2023, the North Bay Village ("Village") Commission adopted Resolution No. 2023-155 selecting various consultants pursuant to Request for Qualifications No. 2023-005 (the "RFQ") for continuing professional general architectural and engineering services and authorizing the Village Manager to negotiate and execute agreements with the various consultants; and

WHEREAS, pursuant to the Resolution, the Village entered into agreements (each an "Agreement") with Exp US Services, Inc. ("EXP"), Chen Moore & Associates, Inc. ("Chen Moore"); and Ribbeck Engineering, Inc. ("Ribbeck"), among others (collectively, the "Consultants"); and

WHEREAS, the Village has begun implementing a Stormwater Improvement Program (the "Project") and desires to engage the Consultants to perform underground stormwater design services for Treasure Island and Harbor Island; and

WHEREAS, the Village requested and EXP submitted a proposal to provide Phase I Stormwater Design Improvements for Treasure Island ("Phase 1 Treasure Island Services"); and

WHEREAS, the Village requested and Chen Moore submitted a proposal to provide Phase 2 Stormwater Design Improvements for Treasure Island ("Phase 2 Treasure Island Services"); and

WHEREAS, the Village requested and Ribbeck submitted a proposal to provide Phase 1 Stormwater Design Improvements for Harbor Island ("Phase 1 Harbor Island Services"); and

WHEREAS, the Village Commission desires to authorize the Village Manager to issue a work order to (1) EXP for Phase 1 Treasure Island Services in an amount not to

exceed $598,218.00, (2) Chen Moore for Phase 2 Treasure Island Services in an amount not to exceed $617,266.00, and (3) Ribbeck for Phase 1 Harbor Island Services in an amount not to exceed $416,164.00, in substantially the form attached hereto as Exhibit "A," "B," and "C," respectively (each a "Work Order") consistent with the Agreements previously entered into between the Village and Consultants; and

WHEREAS, on September 28, 2023, the Village Commission adopted Resolution No. 2023-109 approving the budget for fiscal year 2023-2024 (the "Budget"); and

WHEREAS, pursuant to Section 166.241, Florida Statutes, the Village Commission may amend a budget at any time within a fiscal year; and

WHEREAS, in order to provide the necessary funding for the Work Orders and pursuant to Section 35.21 of the Village Code of Ordinances and Florida Law, the Village Commission desires to amend the Budget consistent with the staff memorandum accompanying this resolution by authorizing the line-item transfers as further provided in Exhibit "D" attached hereto and incorporated herein; and

WHEREAS, the Village Commission finds that this Resolution is in the best interest and welfare of the residents of the Village.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COMMISSION OF NORTH BAY VILLAGE, FLORIDA, AS FOLLOWS:

Section 1. Recitals. That each of the above-stated recitals are hereby adopted, confirmed, and incorporated herein.

Section 2. Authorization for EXP Work Order. That the Village Commission hereby authorizes the Village Manager to issue the Work Order to EXP to perform the Phase 1 Treasure Island Services for the Project, in substantially the form attached hereto as Exhibit "A."

Section 3. Authorization for Chen Moore Work Order. That the Village Commission hereby authorizes the Village Manager to issue the Work Order to Cheen Moore to perform the Phase 2 Treasure Island Services for the Project, in substantially the form attached hereto as Exhibit "B."

Section 4. Authorization for Ribbeck Work Order. That the Village Commission hereby authorizes the Village Manager to issue the Work Order to Ribbeck to perform the Phase 1 Harbor Island Services for the Project, in substantially the form attached hereto as Exhibit "C."

Section 5. **Amending Budget.** That the Village Commission hereby approves an amendment to the budget by authorizing the line-item transfers as further provided in Exhibit "D" attached hereto and incorporated herein.

Section 6. **Implementation.** That the Village Manager and Village Attorney are hereby authorized to take such further action as may be necessary to implement the purpose and provisions of this Resolution.

Section 7. **Effective Date.** That this Resolution shall be effective immediately upon adoption.

The foregoing Resolution was offered by Commissioner Streitfeld who moved its adoption. The motion was seconded by Mayor Latham and upon being put to a vote, the vote was as follows:

Mayor Brent Latham	Yes
Vice Mayor Richard Chervony	Yes
Commissioner Goran Cuk	Yes
Commissioner Andy Rotondaro	Yes
Commissioner Rachel Streitfeld	Yes

PASSED AND ADOPTED on this 11th day of June, 2024.

Brent Latham, Mayor

ATTEST:

Alba L. Chang, CMC
Village Clerk

APPROVED AS TO FORM AND LEGAL SUFFICIENCY:

Weiss Serota Helfman Cole & Bierman, PL
Village Attorney

EXHIBIT "A"

Work Order No.: EXP -2401
Project No.: XXXXX
Project Name: Treasure Island Drainage Improvements – Phase 1
Consultant: EXP US Services, Inc.
Contract No.: RFQ – 2023-005

WORK ORDER No. EXP- 2401

Dated this 11th day of June, 2024

NORTH BAY VILLAGE PUBLIC WORKS DEPARTMENT

TREASURE ISLAND DRAINAGE IMPROVEMENTS – PHASE 1

PROFESSIONAL SERVICES

This Work Order between North Bay Village, a Florida municipal corporation ("VILLAGE"), and EXP US Services, Inc. ("CONSULTANT"), is made pursuant to the Continuing General Professional Engineering and Architectural Services Agreement (the "Agreement") dated May 10th, 2024 and expiring on May 10th, 2029.

PROJECT DESCRIPTION

Drainage improvements on Treasure Island (TI) has been recommended on the North Bay Village Stormwater Master Plan (SWMP) dated in September 2022. The document indicates that to mitigate existing and projected future flooding conditions on Treasure Island, a new pressurized drainage system will be required with sufficient capacity to capture, convey, and discharge stormwater runoff in a timely manner. Based on initial analyses and multiple model iterations, it was determined that at least three (3) pump stations would be needed. Two (2) of these pump stations would each have a capacity of about 40,400 GPM, which is approximately equivalent to 90 CFS. The third pump would have a capacity of about 27,000 GPM, being equivalent to about 60 CFS.

As can be discerned from the typical detail, the new pump station systems will consist of an offline pollution control structure, trash rack/filter element, pump station wet well, valve box, energy dissipator structure, and various pipes and fittings that connect the multiple components. Of note is the pollution control structure, which will be comprised of a diversion weir and hydrodynamic separator (i.e., vortex generator). During smaller, low flow storm events (i.e., first-flush), runoff will be initially diverted via the weir to the hydrodynamic separator.

The separator captures and retains sediments, oil, trash, and floatables from the contributing runoff. This serves as an effective pollutant removal at a single point in the drainage system. During larger, high-flow storm events, runoff will overtop the diversion weir to maintain conveyance/discharge capacity within the system.

Next, the potential locations for the installation of the three (3) new pump station systems were determined. It should be mentioned that most of the pump station infrastructure will be situated within the R/W and under the roadway. However, the force main outfall culvert and energy dissipator structure will need to be positioned closer to the receiving water body (i.e., Biscayne Bay).

Unlike NBI, the Village does have existing utility/drainage easements on TI. The first is located at the NW corner of the N and W Treasure Drive intersection. At this location, a 10-foot-wide utility easement runs from east to west. As part of prior discussions with Village staff, the private

property through which the easement runs through was noted as being a possible acquisition by the Village for public use, including a potential recreational space. In turn, this was identified as a plausible location for one of the 40,400 GPM (90 CFS) pump station.

For the second larger pump station, two (2) potential locations were identified. The first includes a vacant parcel that is located directly S of the Cutlass Avenue and S Treasure Drive intersection. Like the first pump station location, this parcel could be acquired by the Village for public use, again including a potential recreational space.

The second location was identified at the SE corner of the Jewel Avenue and S Treasure Drive intersection. In this area, a 10-foot-wide drainage easement is observed running north to south from S Treasure Drive. For this analysis, the second 40,400 GPM pump station was tentatively situated near the vacant parcel.

The third smaller pump station, with a capacity of about 27,000 GPM (60 CFS), is proposed to be in the eastern part of TI to provide hydraulic balance in the new drainage system. The most feasible location for this system was identified to be at the SW corner of the E and S Treasure Drive intersection. At this location, an existing 10- foot-wide drainage easement runs north to south between S Treasure Drive and Biscayne Bay.

In addition to the new pump station, the existing drainage network within TI is to be replaced with an all-new stormwater conveyance system. The proposed conveyance system will consist of new grate inlets that are to be situated along the EOP to accommodate future roadway raising.

The stormwater improvements have been phased into six (6) Phases. The first three (3) phases focus on implementing the three (3) pump station systems, including pollution control structures, trash racks, filter elements, energy dissipator structures and so forth. The reason being is that downstream improvements need to be installed first to be able to support any upstream upgrades and expansion of the storm sewer system. In turn, the last three (3) phases consist of the remaining upstream improvements which will interconnect the remainder of the Island and added needed capture and conveyance capacity for the overall system.

EXP has been retained to provide complete design engineering services for the drainage improvements for TI phase 1, compromised by the area along South Treasure Drive between North Treasure Drive and Adventure Avenue. The anticipated scope of work consists of geotechnical services, drainage analysis and plans, including 40,400 GPM (90 CFS) pump station, outfall pollution control structure, trunk line, force main and injection wells design. The pump station will include electrical, mechanical, and structural components. As well as pavement and SPM restoration and drainage improvements due to the trunk main and pump station construction.

GENERAL REQUIREMENTS

Design Standards

The CONSULTANT shall be solely responsible for determining the standards the work shall meet and obtain all the requisite regulatory approvals. The design shall include, but is not limited to, the plans and specifications, which describe all systems, elements, details, components, materials, equipment, and any other information necessary for construction. The design shall be accurate, coordinated between disciplines, and in all respects, adequate for construction, and shall be in conformity, and compliance, with all applicable laws, codes, permits, and regulations.

Quality Control

The CONSULTANT is responsible for the quality control (QC) of their work and of its sub-consultants. The CONSULTANT shall provide to the VILLAGE the list of sub-consultants which shall be used for this project. This list shall not be changed without prior approval of the VILLAGE. All sub-consultant documents and submittals shall be submitted directly to the CONSULTANT for their independent QC review. The VILLAGE shall only accept submittals for review and action from the CONSULTANT.

The CONSULTANT shall be responsible for the professional quality, technical accuracy, and coordination of all pre-design services, designs, drawings, specifications, and other services furnished by the CONSULTANT and their sub-consultant(s). It is the CONSULTANT's responsibility to independently and continually QC their plans, specifications, reports, electronic files, progress payment applications, schedules, and all project deliverables required by this task order. The CONSULTANT shall provide the VILLAGE with a marked up set of plans and/or specifications showing the CONSULTANT's QC review. Such mark-ups shall accompany the CONSULTANT's scheduled deliverables. The submittal shall include the names of the CONSULTANT's staff that performed the QC review for each component (structures, roadway, drainage, etc.).

Project Schedule

The CONSULTANT shall submit a preliminary project schedule as an exhibit to this Work Order. The schedule shall be prepared in Microsoft Project and shall include the Consultant's best estimate as to the project start date.

Within 10 business days after receiving the Notice to Proceed and prior to beginning work, the CONSULTANT shall submit a final project schedule to the VILLAGE for approval. No work shall commence without an approved schedule. The final schedule shall include design, permitting activities, submittal review timeframes, and other project activities as required to complete the work. The CONSULTANT shall submit updated project schedules as required in the specific scope of services.

Permitting

The CONSULTANT shall coordinate with the VILLAGE, regulatory agencies, and any other government entity having an interest or jurisdiction, which may require permits for this project. The CONSULTANT shall provide an estimate of fees and duration associated with the permitting

process. Some of the regulatory or permitting agencies associated with this project include, but are not limited to:

- South Florida Water Management District (SFWMD)
- U.S. Army Corps of Engineers (USACE)
- U.S. Coast Guard (USCG)
- Miami Dade County Department of Regulatory & Economic Resources (RER)
- North Bay Village Building Permit
- Florida Department of Health Miami Dade County

SPECIFIC SCOPE OF SERVICES

The Scope of Services to be provided by CONSULTANT shall be as follows:

The CONSULTANT will provide engineering service to the VILLAGE for the drainage improvements on Treasure Island – Phase 1. After received the NTP, the CONSULTANT using the data and feedback provided by the VILLAGE, will prepare a basis of design (BODR) to the VILLAGE acceptance, then will proceed with the preparation of design and construction documents, permitting activities and bid support services.

The Scope of Services is comprised of the following tasks:

Task 1.1 – Project Coordination & Data Collection
Task 1.2 – 30% Design Submission
Task 1.3 – 60% Design Submission
Task 1.4 – 90% Design Submission
Task 1.5 – 100% Design Submission
Task 1.6 – Permitting
Task 1.7 – Bid Support Services

Task 1.1 – Project Coordination & Data Collection

As part of this task, the CONSULTANT will attend (9) monthly progress meetings to provide general project coordination and work planning. During the meetings will be discussed the status of all ongoing tasks. The CONSULTANT will prepare agendas and meeting minutes for each progress meeting. Meetings can be held in person or virtually.

As part of this task, the CONSULTANT will conduct a Hydrologic/Hydraulic (H&H) modeling in ICPR V4 to further refine the model developed under the SWMP planning phase. The refined model will address design phase items including utilities, constructability, permitting and field conditions that may have not been identified during the planning phase. Drainage design criteria and design parameters will be consistent with the SWMP. Drainage improvements will be designed for year 2060 future conditions.

As part of this task, the CONSULTANT will draft the basis of design report (BODR). Drainage improvements will be designed to meet the required Flood Protection Level of Service (FPLOS) which includes the 5-yr, 24-hr storm event for roadway design and 100-yr, 72-hr storm event for minimum building finished floor elevation. The BODR will be submitted to the VILLAGE for review and feedback. This feedback will be incorporated into the pump station design and revisions to the BODR will be made accordingly.

Deliverables: The following deliverables shall be provided under Task 1.1:

- One (1) hard copy and one (1) CD of each Monthly Project Status Report (agenda and minutes meetings) thru completion of the project.
- One (1) hard copy and one (1) CD of the draft BODR

Task 1.2 - 30% Design Submission

As part of this task, the CONSULTANT staff will review and utilize the data collected on Task 1.1, the feedback provided by the VILLAGE staff, and the findings and recommendations in the approved BODR to prepare the 30% Design Submission. The CONSULTANT will request design ticket (811 Sunshine Design Ticket) to utilities to assess conflict with the proposed design and identify any key constructability issues. The CONSULTANT will perform a site visit, utilities coordination and identification index and mapping of potential contaminated sites. In addition to coordinate with recent and future projects to avoid conflicts and repetitious construction.

- The CONSULTANT shall identify key constructability issues.
- The CONSULTANT shall request a design ticket to assess potential utility conflicts associated with the proposed design.
- The VILLAGE staff shall provide to CONSULTANT a topographic survey by a Florida Registered Surveyor to locate all above ground and underground features, and any additional data required for the completion of the design, permitting, and construction of the project.
- The CONSULTANT shall submit the plans, and specifications, for VILLAGE review. The design drawings shall be submitted in 11" x 17" plan sheets. The VILLAGE shall provide comments to the CONSULTANT within 14 days of receiving the submittal.
- The CONSULTANT shall attend one (1) coordination meeting with the VILLAGE to address review comments. CONSULTANT shall prepare the agenda, record, and submit meeting minutes to the VILLAGE.
- The CONSULTANT shall prepare a construction cost estimate and make changes to the design if needed to have it within the proposed budget.
- The CONSULTANT shall submit an updated project schedule in Microsoft Project as part of this submittal package.

Deliverables: The following deliverables shall be provided under Task 1.2:

- Three (3) original sets of the 30% design package (11" x 17" plan sheets), together with one (1) electronic copy.
- One (1) copy of the meeting minutes.
- One (1) copy of the construction cost estimate.
- One (1) copy of updated project schedule.
- One (1) copy of the technical specifications' table of content.
- One (1) copy of the Design Ticket Documentation.

Task 1.3 - 60% Design Submission

As part of this task, the CONSULTANT shall incorporate the review comments from the 30% design submission to prepare the 60% plans submission. The CONSULTANT will request and conduct a geotechnical investigation and provide findings and recommendations.

- The CONSULTANT shall incorporate the review comments from the 30% design submission in the 60% plans submission. The 60% design submission shall include, at a minimum, the following:
  - Cover page.
  - Key Sheet.
  - General Notes.
  - Plan Sheets (for pipes and outfall/Injection wells) including utilities, conflicts, and relocations.
  - Plan Sheets (Pump Station and Valve Vault) plan view, cross section, and details.
  - Drainage Profiles.
  - Civil Detail Sheets.
  - Mechanical Details Sheets.
  - Electrical Detail Sheets.
  - Structural Detail Sheets.

- The CONSULTANT shall conduct a geotechnical investigation at the location of the proposed observation deck. The CONSULTANT shall provide one (1) hard copy and one (1) CD of the report to the VILLAGE's Project Manager. This report shall be signed and sealed by a Professional Engineer registered in the State of Florida and shall contain, at a minimum, project vicinity map, plan view showing the location of borings, basis and results of tests performed, detailed description of findings, recommendations, and an executive summary.
- The CONSULTANT shall submit plans, and specifications for VILLAGE review. The design drawings shall be submitted in 11" x 17" plan sheets. The VILLAGE shall provide comments to the CONSULTANT within 14 days of receiving the submittal.
- The CONSULTANT shall attend one (1) coordination meeting with the VILLAGE to address review comments. CONSULTANT shall prepare the agenda, record and submit meeting minutes.
- The CONSULTANT shall provide an updated schedule in Microsoft Project as part of this submittal package for VILLAGE review and approval.
- The CONSULTANT shall prepare a construction cost estimate and make the changes to the design if needed to have it within the proposed budget.

Deliverables: The following deliverables shall be provided under Task 1.3:

- Three (3) original sets of the 60% design package (11" x 17" plan sheets), together with one (1) electronic copy.
- One (1) copy of the meeting minutes.
- One (1) copy of updated project schedule.
- One (1) copy of the construction cost estimate.
- One (1) hard copy and one (1) CD of the Geotechnical Report.

Task 1.4 - 90% Design Submission

As part of this task, the CONSULTANT shall incorporate the review comments from the 60% design submission to prepare the 90% design submission.

- The CONSULTANT shall incorporate the review comments from the 60% design submission in the 90% design submission. The 90% design submission shall include, at a minimum, the following:
  - Cover page.
  - Key Sheet.
  - General Notes.
  - Plan Sheets (for pipes and outfall/ Injection well) including utilities, conflicts, and relocations.
  - Plan Sheets (Pump Station and Valve Vault) plan view, cross section, and details.
  - Drainage profiles.
  - Civil Detail Sheets.
  - Mechanical Details Sheets.
  - Electrical Detail Sheets.
  - Structural Detail Sheets.
  - Standard Details.
  - SWPPP.

- The CONSULTANT shall submit the plans, and specifications for VILLAGE review. The design drawings shall be submitted in 11" x 17" plan sheets. The VILLAGE shall provide comments to the CONSULTANT within twenty (20) business days of receiving the submittal.
- The CONSULTANT shall attend one (1) coordination meeting with the VILLAGE to address review comments. CONSULTANT shall prepare the agenda, record and submit meeting minutes.
- The CONSULTANT shall provide an updated schedule in Microsoft Project as part of this submittal package for VILLAGE review and approval.
- The CONSULTANT shall prepare a construction cost estimate and make the changes to the design if needed to have it within the proposed budget.

Deliverables: The following deliverables shall be provided under Task 4:

- Three (3) original sets of the 90% design package (11" x 17" plan sheets), one (1) electronic copy.
- One (1) copy of the meeting minutes.
- One (1) copy of updated project schedule.
- One (1) copy of the construction cost estimate.

Task 1.5 – 100% Design Submission

- The CONSULTANT shall incorporate the review comments from 90% design submission in the 100% design submission. The 100% design submission shall be complete.

- The CONSULTANT shall submit the 100% design submission for VILLAGE review. The design drawings shall be submitted in 11" x 17" plan sheets. The VILLAGE shall provide comments to the CONSULTANT within 10 business days of receiving the submittal.
- The CONSULTANT shall attend one (1) coordination meeting with the VILLAGE to address review comments. CONSULTANT shall prepare the agenda, record and submit meeting minutes.
- The CONSULTANT shall provide an updated schedule in Microsoft Project as part of this submittal package for VILLAGE review and approval.
- The CONSULTANT shall prepare a construction cost estimate, and make the changes to the design if needed to have it within the proposed budget.
- Once all comments are addressed, or if no comments or corrections are necessary, the CONSULTANT shall submit the Final Plans and Specifications, and any other document required for a complete design by the VILLAGE. CONSULTANT shall provide three (3) original signed and sealed sets of the Final Design Package (24" x 36" plan sheets), together with an electronic copy.

Deliverables: The following deliverables shall be provided under Task 1.5:

- Three (3) original sets of the 100% design package (11" x 17" plan sheets), together with an electronic copy.
- Three (3) original sets, signed and sealed of the Final Plans and Specifications 100% design package (24" x 36" plan sheets), together with an one (1) electronic copy.
- One (1) copy of the meeting minutes.
- One (1) copy of updated project schedule.
- One (1) copy of the construction cost estimate.

Task 1.6 - Permitting

As part of this task, the CONSULTANT will assist the VILLAGE to obtain all of the required construction permits for this project. The CONSULTANT will provide a permit matrix, attend meetings, complete application forms, and respond RFIs to secure permits.

- The CONSULTANT shall obtain all required permits from the VILLAGE, regulatory agencies, and authorities having jurisdiction, for this project.
- The CONSULTANT shall respond to all permit comments from the VILLAGE, regulatory agencies, or authorities having jurisdiction.
- The CONSULTANT shall attend permit meetings with VILLAGE, regulatory agencies, and authorities having jurisdiction, record and prepare meeting minutes, and provide documentation to the VILLAGE.
- The CONSULTANT is responsible for determining which permits are required and which agencies are applicable to the project.

Deliverables: The following deliverables shall be provided under Task 1.6:

- One (1) copy of the Pemit Matrix.
- One (1) copy of the meeting minutes.
- One (1) copy of issued permits.

Task 1.7 - Bidding Services

The CONSULTANT staff will assist the VILLAGE in the preparation of the bid documents, attend pre-bid meetings, respond to questions from prospective bidders, and review bid documents to determine with a recommendation for award of the construction contract.

- The CONSULTANT shall assist the VILLAGE in preparing the bid documents, including incorporating the VILLAGE's front-end documents.
- The CONSULTANT shall attend the pre-bid meeting. The CONSULTANT shall respond to questions from prospective bidders.
- The CONSULTANT shall provide supplemental information to prospective bidders as required during the bidding process through the issuance of addenda
- The CONSULTANT shall review all bids to determine the most responsible and responsive bidder and provide the VILLAGE with a recommendation for award of the construction contract.

PROJECT ASSUMPTIONS

- VILLAGE shall provide access to site.
- VILLAGE shall provide existing electronic CAD files, if available. It is the CONSULTANT'S responsibility to verity accuracy.
- It is the CONSULTANT's responsibility to verity existing geometry is acceptable to all permitting agencies.
- VILLAGE shall provide all available data applicable to this project including topographic survey and Hydrologic/Hydraulic modeling for current conditions.
- The CONSULTANT will not perform a topographic survey.
- The VILLAGE shall Pay regulatory fees related to plans review, permit issuance, printing, and time extensions beyond the Consultant's control.
- The CONSULTANT will not obtain Site Plan approval and platting are not included in this proposal.
- The Consultant will not perform the following services which are not included in this proposal.
    - Environmental Site Assessment
    - Water Quality Modeling
    - Landscaping Design Services
    - Lighting Design services
    - Material Testing
    - Traffic Studies, Signalization, MOT, and Zoning Assistance
    - Community Outreach, Public Meetings
    - Inspection Services During Construction
    - Post Design Services, Pre-Construction Meetings, Shop Drawings reviews

- The Consultant will not perform any work related to utility relocation, and utility relocation design is not included in this proposal.
- The Consultant will not attend or prepare for public hearings, commission meetings, or regulatory meetings other than those listed in the scope of work.

ADDITIONAL SERVICES

If authorized in writing by the VILLAGE, as an amendment to this Work Order, the CONSULTANT shall furnish, or obtain, Additional Services of the types listed in the AGREEMENT. The VILLAGE, as indicated in the AGREEMENT, will pay for these services.

PERFORMANCE SCHEDULE

The CONSULTANT shall perform the services identified in Tasks 1.1 – 1.6 within 300 days of the written Notice to Proceed. Task 1.7 schedules shall be determined based on the bid dates and construction award period.

PROJECT FUNDING

Performance of this project is at the VILLAGE's discretion and may be contingent upon the VILLAGE receiving funding and work shall not begin until the VILLAGE provides a Notice to Proceed to CONSULTANT.

METHOD OF COMPENSATION

The services performed will be accomplished using the Not-to-Exceed method of compensation. The total hourly rates payable by the VILLAGE for each of CONSULTANT's employee categories, reimbursable expenses, if any, and sub-consultant fees, if any, are shown on **Exhibit A** attached hereto and made a part hereof. Pay application requests shall be prepared on the VILLAGE's approved pay application request form. The CONSULTANT shall submit the pay application request to the VILLAGE's Project Manager for review and approval. Pay application requests shall be submitted monthly.

TERMS OF COMPENSATION

Services will be provided for the following amounts:

Task 1.1-Project Coordination & Data Collection	Lump Sum	$ 72,820.00
Task 1.2 - 30% Design	Lump Sum	$ 120,035.00
Task 1.3 - 60% Design	Lump Sum	$ 129,590.00
Task 1.4 - 90% Design	Lump Sum	$ 119,780.00
Task 1.5 – 100% Design	Lump Sum	$ 76,330.00
Task 1.6 – Permitting	T&M	$ 47,240.00
Task 1.7 – Bid Support	T&M	$ 17,240.00
Geotechnical Field Investigation	Lump Sum	$15,183.72
Grand Total		**$ 598,218.72**

VILLAGE CONTACTS

Requests for payments should be directed to North Bay Village Accounts Payable via e-mail to Pwdocuments@nbvillage.com after getting approval from the VILLAGE's Project Manager. All other correspondence and submittals should be directed to the attention of Name of *PM*, Project Manager, at the address shown below. **Please be sure that all correspondence refers to the VILLAGE project number and title as stated above.**

Delroy Peters
Project Manager
Public Works
North Bay Village
Village Hall, 3rd Floor Public Works
1666 Kennedy Causeway
North Bay Village, FL 33141
(305) 756-7171 Ext. 29
Dpeters@nbvillage.com

Marlon Lobban, PE
Director of Public Works
North Bay Village
Village Hall, 3rd Floor Public Works
1666 Kennedy Causeway
North Bay Village, FL 33141
(305) 756-7171 ext. 66
Mlobban@nbvillage.com

CONSULTANT CONTACTS

Consultant POC

Carmen Olazabal, P.E.
Director, Sustainability & Resilience
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Kyle Henry
Vice President – Business Development
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Coral Gables, FL 33134

SIGNATURE PAGE
NORTH BAY VILLAGE

IN WITNESS OF THE FOREGOING, the parties have set their hands and seals the day and year first written above.

By: Marlon Lobban
Marlon Lobban
Village Public Works Director
This Work Order approved pursuant to [check one and initial]:
☐ ___Manager Purchasing Authority (§36.25 Village Code)
☐ ___Resolution No. _____

By: _____
Dr. Ralph Rosado, Ph.D., AICP
Village Manager

Attest:

By: _____
Alba L. Chang, CMC
Village Clerk

Approved as to form and legal sufficiency:

By: _____
Weiss Serota Helfman Cole & Bierman, P.L.
Village Attorney

SIGNATURE PAGE
CONSULTANT/CONTRACTOR

WITNESSES:

_____

_____
[Witness print/type name]

_____

_____
[Witness print/type name]

(CORPORATE SEAL)

EXP US SERVICES, INC

_____

_____
[Print Name, check title]

☐ President ☐ Vice President
☐ Authorized Signatory (Please provide corporate authorization)

ATTEST:

_____
Secretary

_____
[Print Name]

ACKNOWLEDGMENT

State of Florida
County of _____

The foregoing instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization, this _ day of _____, 20__, by_____(name of person) as _____ (type of authority) for _____ (name of party on behalf of whom instrument is executed).

_____
Notary Public
(Print, Stamp, or Type as Commissioned)

___Personally known to me; or
___Produced identification (Type of Identification:_____)
___Did take an oath; or
___Did not take an oath

Exhibit A – Work Break Down Fee Schedule

EXP – Work Break Down Fee Schedule

Exhibit A – Work Break Down Fee Schedule EXP US Services, Inc

Position	Name & (Company)	Labor Multiplier [1]	Hourly Rate [2]	Loaded Hourly Rate [1x2]	Contract Max. Rate	Task 1.1 - Project Coordinatoin & Data Collection (Lump Sum)		Task 1.2 - 30% Design (Lump Sum)		Task 1.3 - 60% Design (Lump Sum)		Task 1.4 - 90% Design (Lump Sum)		Task 1.5 - 100% Design (Lump Sum)		Task 1.6 - Permitting (T & M)		Task 1.7 - Bid Support (T & M)		Costs	
Consultant			$	$	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$
Principal Engineer	Carmen Olazabal PE				295.00	6	$ 1,770.00	9	$ 2,655.00	6	$ 1,770.00	6	$ 1,770.00	6	$ 1,770.00	4	$ 1,180.00	4	$ 1,180.00	41	$ 12,095.00
Project Manager	Reynaldo Abreu				235.00	24	$ 5,640.00	30	$ 7,050.00	30	$ 7,050.00	36	$ 8,460.00	16	$ 3,760.00	30	$ 7,050.00	20	$ 4,700.00	186	$ 43,710.00
Senior Project Engineer	Jorge Acevedo,PE				230.00	96	$ 22,080.00	32	$ 7,360.00	42	$ 9,660.00	24	$ 5,520.00	24	$ 5,520.00	90	$ 20,700.00	20	$ 4,600.00	328	$ 75,440.00
Senior Designer	Adriana Ferrera, PE				135.00	144	$ 19,440.00	90	$ 12,150.00	90	$ 12,150.00	70	$ 9,450.00	40	$ 5,400.00	50	$ 6,750.00	8	$ 1,080.00	492	$ 66,420.00
CADD	Yanet Aguila				115.00	130	$ 14,950.00	120	$ 13,800.00	120	$ 13,800.00	80	$ 9,200.00	100	$ 11,500.00	60	$ 6,900.00	8	$ 920.00	618	$ 71,070.00
Project Engineer	Fabrizio Rossi				190.00	30	$ 5,700.00	30	$ 5,700.00	24	$ 4,560.00	24	$ 4,560.00	16	$ 3,040.00	16	$ 3,040.00	8	$ 1,520.00	148	$ 28,120.00
Senior Designer	Alexander Klonaris				135.00	24	$ 3,240.00	80	$ 10,800.00	60	$ 8,100.00	80	$ 10,800.00	80	$ 10,800.00	12	$ 1,620.00	24	$ 3,240.00	360	$ 48,600.00
		Task Sub-totals				**454**	**$72,820.00**	**391**	**$59,515.00**	**372**	**$57,090.00**	**320**	**$49,760.00**	**282**	**$41,790.00**	**262**	**$47,240.00**	**92**	**$17,240.00**	**2173**	**$345,455.00**

Summary of Reimbursable Expenses

Units	No. of		$/Unit		Total
Reimbursables Allowance					
Permit					
				Reimbursable Expense	

Proposal Summary

Geotechnical			**$15,183.72**
Design EXP			**$345,455.00**
Design GF			**$237,580.00**
		Task Sub-totals	**$598,218.72**
		10 % Allowance / Contingencies	**$0.00**
		Grand Total	**$598,218.72**

Exhibit A2 – Work Break Down Fee Schedule

Gannett Fleming – Work Break Down Fee Schedule

Exhibit A2 – Work Break Down Fee Schedule - Gannett Fleming

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Position	Name & (Company)	Labor Multiplier [1]	Hourly Rate [2]	Loaded Hourly Rate [1x2]	Contract Max. Rate	Task 1.2 - 30% Design (Lump Sum)		Task 1.3 - 60% Design (Lump Sum)		Task 1.4 - 90% Design (Lump Sum)		Task 1.5 - 100% Design (Lump Sum)		Task 1.8 - Engineering Service During Construction		Costs	
Consultant			$	$	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$
Project Engine	Lilian Marrero				190.00	120	$ 16,720.00	46	$ 8,740.00	64	$ 12,160.00	24	$ 4,560.00	0	$ -	254	$ 42,180.00
Senior Project	Eliezer Livay				230.00	8	$ 1,840.00	10	$ 2,300.00	10	$ 2,300.00	6	$ 1,380.00	0	$ -	34	$ 7,820.00
Senior Project	Brian Seip				230.00	16	$ 3,680.00	32	$ 7,360.00	32	$ 7,360.00	16	$ 3,680.00	0	$ -	96	$ 22,080.00
Senior Project	Bryant Facey				230.00	20	$ 4,600.00	12	$ 2,760.00	28	$ 6,440.00	20	$ 4,600.00	0	$ -	80	$ 18,400.00
Senior Project	Wesley Hill				230.00	8	$ 1,840.00	32	$ 7,360.00	20	$ 4,600.00	12	$ 2,760.00	0	$ -	72	$ 16,560.00
Project Engine	Robert Pryor				190.00	48	$ 9,120.00	80	$ 15,200.00	52	$ 9,880.00	40	$ 7,600.00	0	$ -	220	$ 41,800.00
Project Engine	Kevin Smith				190.00	40	$ 7,600.00	52	$ 9,880.00	64	$ 12,160.00	24	$ 4,560.00	0	$ -	180	$ 34,200.00
Designer	Geraud Ngolo				135.00	112	$ 15,120.00	140	$ 18,900.00	112	$ 15,120.00	40	$ 5,400.00	0	$ -	404	$ 54,540.00
			Task Sub-totals			**372**	**$60,520.00**	**404**	**$72,500.00**	**382**	**$70,020.00**	**182**	**$34,540.00**	**0**	**$0.00**	**1340**	**$237,580.00**

Summary of Reimbursable Expenses

Units	No. of	$/Unit		Total
Reimbursables Allowance		miles estimate		$0.00
			Reimbursable Expense	

Proposal Summary

Design GF			**$237,580.00**
			$0.00
		Grand Total	**$237,580.00**

GANNETT FLEMING

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Miami, FL 33126
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gannettfleming.com

May 13, 2024

Reynaldo Abreu

EXP, Inc.

Subject: North Bay Village - Treasure Island 90 CFS Stormwater PS – Gannett Fleming Scope of Work for Engineering Services
Continuing Consulting Engineering Services Agreement – Subconsultant to EXP, Inc.

Dear Mr. Abreu,

Gannett Fleming, Inc. (Subconsultant) is pleased to submit this draft proposal for Professional Engineering Design Services related to North Bay Village's (NBV) proposed Treasure Island 90 CFS Stormwater PS.

PROJECT BACKGROUND

The City of North Bay Village has requested the design of a stormwater PS as part of the improvement identified in the NBV master plan. The stormwater pump station is in the vicinity of Treasure Island and will consists of 40,400 gpm (equivalent to 90 cfs). The new stormwater duplex pump station systems will consist of an offline pollution control structure, trash rack/filter element, pump station wet well, valve box, energy dissipator structure, and
pipes and fittings that connect the to the new Pump Station features. A pretreatment system for pollution control comprises of a diversion weir and hydrodynamic separator (i.e., vortex generator). During smaller, low-flow storm events (i.e., first-flush), runoff will be initially diverted via the weir to the hydrodynamic separator. The separator captures and retains sediments, oil, trash, and floatables from the contributing runoff. During larger, high-flow storm events, runoff will overtop the diversion weir to maintain conveyance/discharge capacity within the system.

Gannett Fleming, Inc. subconsultant to EXP, Inc. will take the lead on the design of disciplines for process mechanical, electrical and instrumentations and controls (I&C).

SCOPE OF SERVICES

SUBCONSULTANT will be responsible for internal management, administration, and coordination throughout the assigned tasks. The Project Discipline Lead will manage the agreed upon budget and schedule for the various work activities identified herein for the period indicated in the attached Project Schedule. Other activities include:

- The SUBCONSULTANT will prepare for attendance of (1) work order kick-off meeting to discuss the scope of work, deliverables, and project schedule. This meeting will encompass all tasks in a single meeting.
- The SUBCONSULTANT shall prepare brief monthly progress summary in support of invoices to describe the work completed during the previous reporting period, anticipated work for the following period, current budget and schedule status, and any project issues requiring discussion or resolution.

Task 1.0 – Stormwater Pump Station Design

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CONSULTANT will provide the following services for Task 2.0 under this agreement:

Task 1.2 30% Design Submission

- SUBCONSULTANT will perform a site visit of the area to become familiar with the project area.
- Prepare preliminary design for process mechanical, electrical, and I&C. Pump station design includes mechanical PS plan and section, mechanical details, preliminary pump sizing calculations, outfall hydraulic calculations, equipment sizing; electrical general, electrical site plan, lightning and grounding, one-line diagram, equipment elevation and panel schedules, electrical service detail; instrumentation P&IDs, misc. details. Level of detail is to a 30% preliminary design.
- Participate with meeting with FPL to support power feed coordination
- Participate in meeting to determine I&C requirements.
- Participate in design coordination.
- Assist EXP during preparation of OPCC, limited to clarification related to equipment and qualities related to responsible discipline.
- Prepare preliminary list of standard specifications
- Conduct internal QA/QC of the preliminary design package.
- Participate in preliminary design review.

Task 1.3 60% Design Submission

Further develop Intermediate Design Development for process mechanical, electrical, and I&C. from preliminary design.

- Prepare intermediate technical specifications to design development level of detail.
- Assist EXP during preparation of OPCC, limited to clarification related to equipment and qualities related to responsible discipline.
- Participate in constructability review with EXP.
- Conduct internal QA/QC of the preliminary design package.
- Participate in design development review.

Task 1.4 90% Design Submission

- Prepare 90% Plans and Construction Specifications based on comments received during the design development review.
- Participate in design coordination
- Conduct internal QA/QC of the final design package.
- Submit to EXP the 90% package for review, permitting and client comment.
- Participate in design review meeting to answer questions and provide clarification to review comments.
- Assist EXP with permitting RFIs related to Process Mechanical, Electrical, and I&C. Permitting task to be led by others. Anticipate comments from Building Department and DERM for Class II.

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Task 1.5 100% Design Submission

- Prepare 100% Plans and Specifications based on comments received during the final design review and permit agencies (permit process by others).
- Conduct internal QA/QC of the Bid Documents.
- Assist with responses to bidder's written inquiries (RFI) on process mechanical, electrical, and I&C disciplines design related questions.
- Addendum to be prepared by others.

Project Deliverables:

Task 1.0:

- Electronic deliverable of the 30% Preliminary Design Package to EXP
- Electronic deliverable of the 60% Design Submittal to EXP
- One Electronic deliverable of the 90% Design Submittal, signed and sealed documents for permitting purposes.
- One Electronic copy of the 100% Design Submittal signed and sealed for responsible discipline.

Project Assumptions:

- EXP to provide native AutoCad files with standard borders and project site for design collaboration.
- Survey, geotechnical, and proposed linework to be provided by the EXP in CADD format for use in completing the plans.
- Site Civil by others (including pollution prevention plans, site clearing and grubbing; grading and drainage; site plans, generals sheets, demolition plans)
- Pump Station features will follow Typical detail as per Appendix Y of NBV's Master Plan. Assumes duplex, constant speed configuration for the pumping system.
- Assumes evaluation different pre-treatment and pump technologies is not required.
- The City design review period for each submittal will be 2-weeks, with the review meeting conducted mid-review period.
- The review meetings are anticipated to be virtual and facilitated by the CONSULTANT; it is assumed that meeting attendees will attend and provide feedback for deliverables to be completed within the timeframes of the attached schedule.
- It is assumed, for purposes of this proposal, that there are no environmentally sensitive areas within or adjacent to the task locations. Environmental services and permitting are not included in the scope of work.
- Design does not include an emergency generator
- Design does not include SCADA.
- Real Estate coordination by Others

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- All permit fees will be paid by the Others.
- Permitting process and coordination to be led by Others
- Geotechnical Engineering and Topographical Survey Services by Others
- Traffic Control Plan will be provided by others

Schedule

CONSULTANT will endeavor to complete the work activities in coordination with EXP's schedule anticipated to be done in sequential approach without extended period of interruptions other than required for deliverable reviews.

Compensation

CONSULTANT agrees to provide the scope of services above for a not to exceed compensation of $237,580.00 to be invoiced monthly in accordance with CONSULTANT's estimated percent complete. Progress reports and invoices will be prepared and itemized based on task items as listed below. CONSULTANT will manage work hours between tasks and employee classifications, and/or utilize other appropriate employee classifications, provided that the work assignment total fee is not exceeded.

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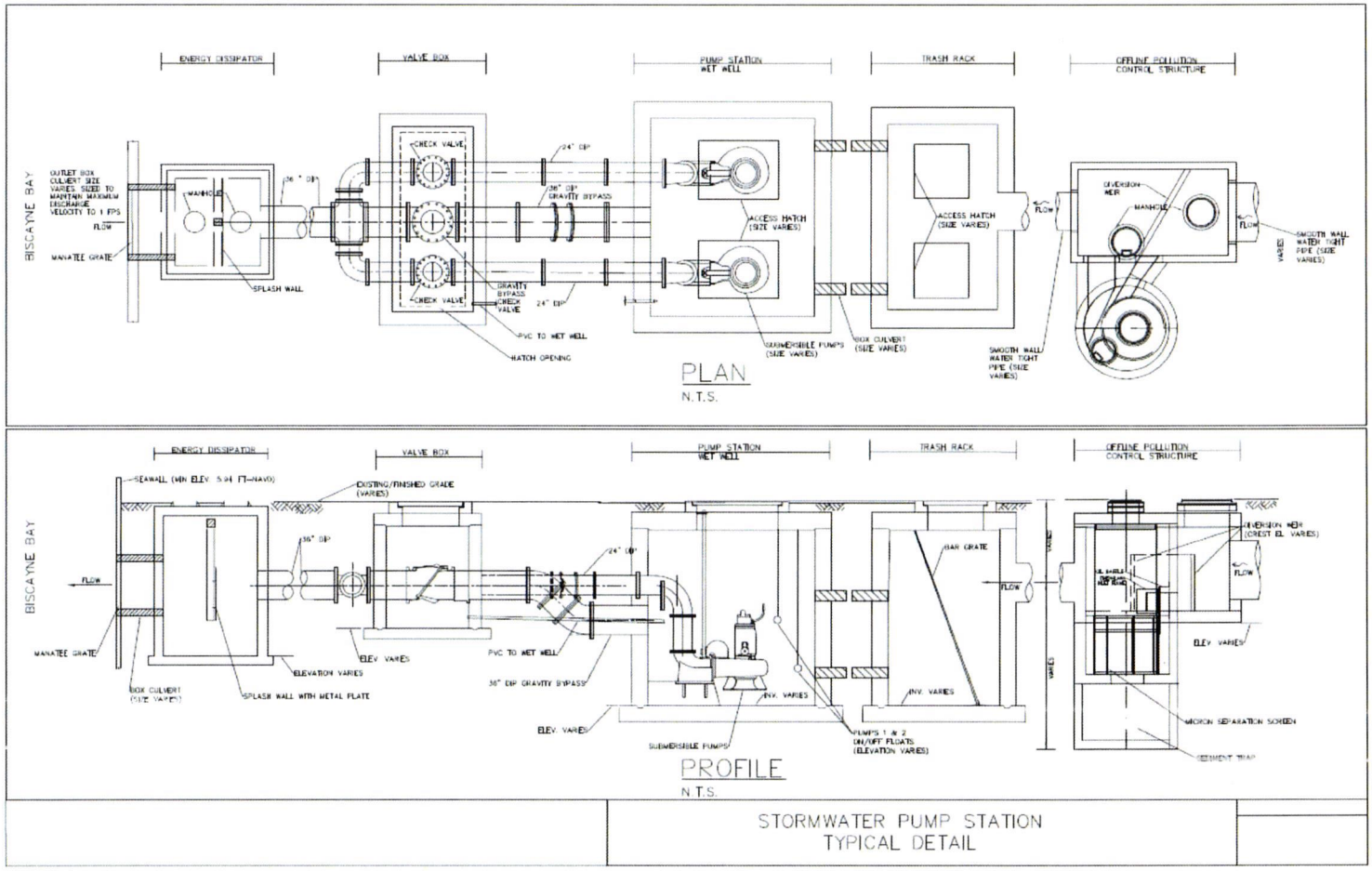
P: 786.845.9540
gannettfleming.com



STORMWATER PUMP STATION
TYPICAL DETAIL

Scope of Work

Exhibit B – Location Map

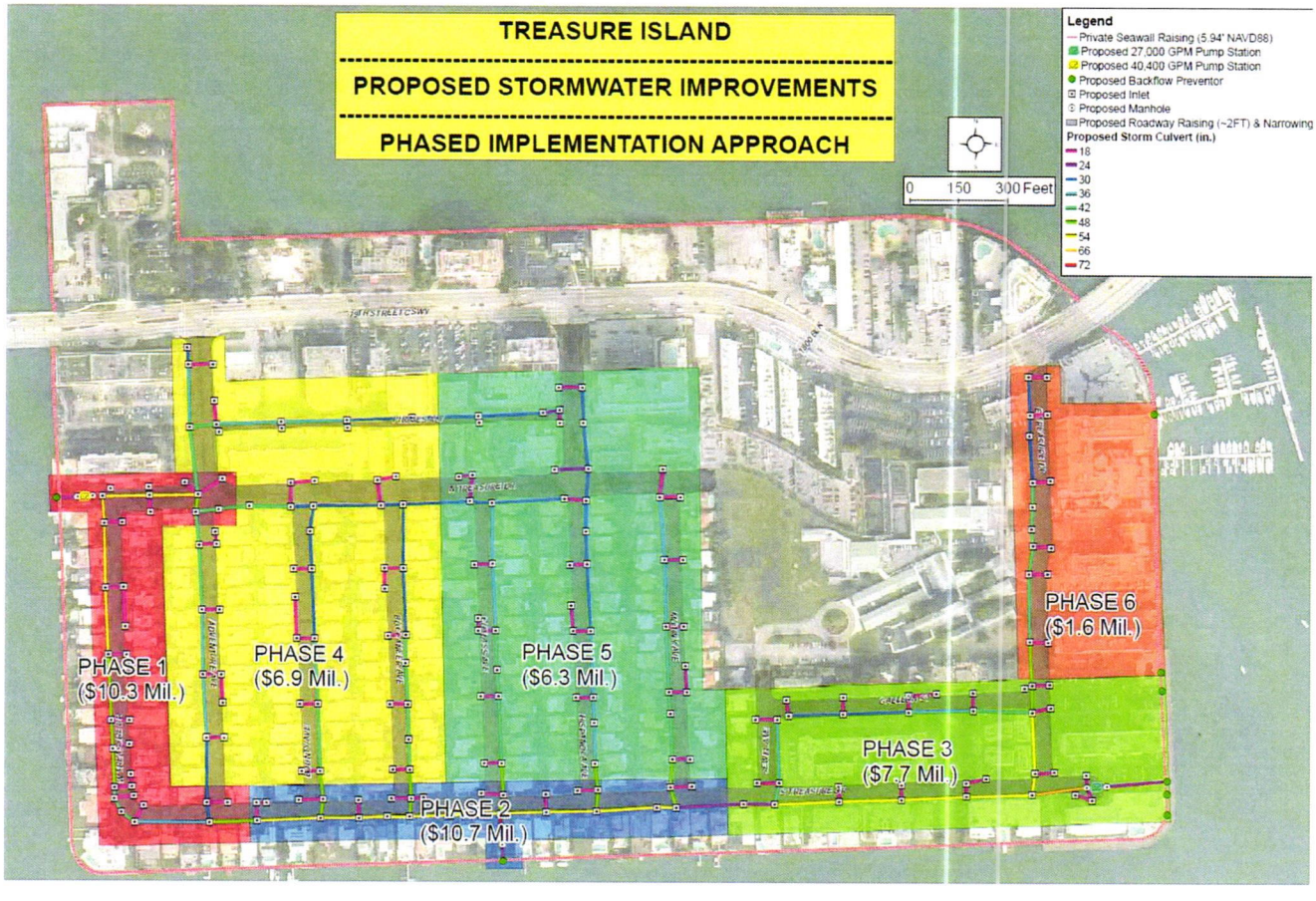


Exhibit C – Project Tentative Schedule

SCHEDULE OF DELIVERABLES		
TASK	**Project Activity**	**Days from NTP**
1.1	Project Coordination & Data Collection	300
1.2	30% Design Submission	90
1.3	60% Design Submission	150
1.4	90% Design Submission	180
1.5	100% Design Submission	210
1.6	Permitting	300
1.7	Bid Support Services	*

* Task 1.7 schedule shall be determined based on the bid dates and construction award period.

EXHIBIT "B"

Work Order No.: CMA2401
Project No.: _____
Project Name: Treasure Island Drainage Improvements – Phase II
Consultant: Chen Moore and Associates,. Inc.
Contract No.: _____

WORK ORDER No. CMA2401

Dated this 30th day of May, 2024

NORTH BAY VILLAGE PUBLIC WORKS DEPARTMENT

TREASURE ISLAND DRAINAGE IMPROVEMENTS – PHASE II

PROFESSIONAL SERVICES

This Task Order between North Bay Village, a Florida municipal corporation ("VILLAGE"), and Name of Firm, LLC (or applicable entity designation), a limited liability company (or applicable entity designation) authorized to transact business in Florida ("CONSULTANT"), is pursuant to the Continuing General Professional Engineering and Architectural Services Agreement dated _____ ("MASTER AGREEMENT").

PROJECT DESCRIPTION

To mitigate existing and projected future flooding conditions on Treasure Island, a new pressurized drainage system will be required with sufficient capacity to capture, convey, and discharge stormwater runoff in a timely manner. The Storm Water Master Plan (SWMP) splits Treasure Island into six (6) improvement basins. CMA has been asked to provide a scope/fee proposal for the aforementioned improvements to Phase II. Phase II is comprised of the S Treasure Drive right of way, from approximately 120' east of Adventure Ave. to approximately 100' east of Hispaniola Ave. (roughly 1,1470LF total).

Based on initial analyses and multiple model iterations performed in the Storm Water Master Plan, it was determined that at least three (3) pump stations would be needed. Two (2) of these pump stations would each have a capacity of about 40,400 GPM, which is approximately equivalent to 90 CFS. The third pump would have a capacity of about 27,000 GPM, being equivalent to about 60 CFS. Phase II includes one of these pump stations. The Phase II pump station will feature two (2) pumps.

The following proposal shall include the design, permitting and bid support services for a new storm water conveyance system, pump station (including deep injection well(s)), and associated pavement restoration and potable water main relocation (associated with the pump station siting near Cutlass Ave.) for the Phase II basin as outlined in the SWMP.

SPECIFIC SCOPE OF SERVICES

The Scope of Services to be provided by CONSULTANT shall be as follows:

Task 1 – Project Coordination & Data Collection

- CONSULTANT shall provide general project and contract oversight during all phases of this project scope.
- Task shall include sub-consultant coordination and communication. The CONSULTANT shall serve as the sole point of contact with the client.
- Activities to include:
    a. Site visits, as required to accompany sub-consultant.
    b. Meetings facilitation.
    c. Contract administration on behalf of the CONSULTANT.
    d. Planning and execution of the overall project.
    e. Client communications and coordination.
- Site reconnaissance
- Data gathering as required for design of proposed improvements.
- Consultant shall visit the site as necessary to become familiar with and/or document current site conditions.
- Conduct existing utilities information coordination, via Sunshine 811 Design Ticket and as-built requests.
- Consultant shall prepare packages with GIS based maps to acquire available information from the utility providers for water, sewer, drainage, power, gas, etc. as appropriate to acquire existing information.
- Review the Village-provided topographic survey.
- The CONSULTANT shall provide geotechnical exploration of the site, including two (2) Standard Penetration Tests (SPTs) to a depth of 40' near the proposed location of the stormwater pump station, and 4 SPTs to a depth of 15' along the project limits as required for the completion of the design, permitting, and construction of the project. The CONSULTANT shall provide one (1) hard copy and one (1) CD of the report to the VILLAGE's Project Manager. This report shall be signed and sealed by a Professional Engineer registered in the State of Florida and shall contain, at a minimum, project vicinity map, plan view showing the location of borings, basis and results of tests performed, detailed description of findings, recommendations, and an executive summary.

Deliverables: The following deliverables shall be provided under Task 1:

- One (1) hard copy and one (1) CD of the Geotechnical Report.
- Monthly progress updates, as applicable.
- Meeting minutes (as applicable)

Task 2 - 30% Design Submission

- The CONSULTANT shall identify key constructability issues.
- The CONSULTANT shall perform a limited hydraulic model refinement (overall Island storm water model is to be provided by the VILLAGE) using ICPR V4 as necessary to design the pump station to provide the established Flood Protection Level of Service (FPLOS).

- The CONSULTANT shall submit conceptual engineering plans to a 30% level of completion, for VILLAGE review. The design drawings shall be submitted in 11" x 17" plan sheets. The VILLAGE shall provide comments to the CONSULTANT within five (5) business days of receiving the submittal.
- Draft Table of Contents (TOC) for preliminary technical specifications
- The CONSULTANT shall attend one (1) coordination meeting with the VILLAGE to address review comments. CONSULTANT shall prepare the agenda, record, and submit meeting minutes to the VILLAGE.
- The CONSULTANT shall prepare a construction cost estimate.
- The CONSULTANT shall submit an updated project schedule in Microsoft Project as part of this submittal package.

Deliverables: The following deliverables shall be provided under Task 2:

- Three (3) original sets of the 30% design package (11" x 17" plan sheets), together with one (1) electronic copy.
- One (1) copy of any applicable meeting minutes.
- One (1) copy of the preliminary engineer's opinion of probable cost
- One (1) copy of the Draft Table of Contents (TOC) for preliminary technical specifications
- One (1) copy of the updated project schedule.

Task 3 - 60% Design Submission

- The CONSULTANT shall incorporate the review comments from the 30% design submission in the 60% plans submission.
- 60% design submission shall include, at a minimum, the following:
    - Cover page
    - Key Sheet
    - General Notes
    - Plan Sheets (for pipes and outfall/Injection wells) including utilities, conflicts, and relocations.
    - Plan Sheets (Pump Station and Valve Vault) plan view, cross section, and details.
    - Drainage Profiles
    - Civil Detail Sheets
    - Mechanical Details Sheets
    - Electrical Detail Sheets
    - Structural Detail Sheets
- The CONSULTANT shall submit plans, and preliminary specifications for VILLAGE review. The design drawings shall be submitted in 11" x 17" plan sheets. The VILLAGE shall provide comments to the CONSULTANT within five (5) business days of receiving the submittal.
- The CONSULTANT shall attend one (1) coordination meeting with the VILLAGE to address review comments. CONSULTANT shall prepare the agenda, record and submit meeting minutes.
- The CONSULTANT shall provide an updated schedule in Microsoft Project as part of this submittal package for VILLAGE review and approval.
- The CONSULTANT shall update the engineer's opinion of probable cost.

Deliverables: The following deliverables shall be provided under Task 3:

- Three (3) original sets of the 60% design package (11" x 17" plan sheets), together with one (1) electronic copy.
- One (1) copy of the preliminary technical specifications.
- One (1) copy of any applicable meeting minutes.
- One (1) copy of updated project schedule.
- One (1) copy of the updated engineer's opinion of probable cost

Task 4 - 90% Design Submission

- The CONSULTANT shall incorporate the review comments from the 60% design submission in the 90% design submission.
- The 90% design submission shall include, at a minimum, the following:
  - Cover page
  - Key Sheet
  - General Notes
  - Plan Sheets (for pipes and outfall/ Injection well) including utilities, conflicts, and relocations.
  - Plan Sheets (Pump Station and Valve Vault) plan view, cross section, and details.
  - Drainage profiles
  - Civil Detail Sheets
  - Mechanical Details Sheets
  - Electrical Detail Sheets
  - Structural Detail Sheets
  - Standard Details
  - SWPPP
- The CONSULTANT shall submit the plans, and specifications for VILLAGE review. The design drawings shall be submitted in 11" x 17" plan sheets. The VILLAGE shall provide comments to the CONSULTANT within five (5) business days of receiving the submittal.
- The CONSULTANT shall attend one (1) coordination meeting with the VILLAGE to address review comments. CONSULTANT shall prepare the agenda, record and submit meeting minutes.
- The CONSULTANT shall provide an updated schedule in Microsoft Project as part of this submittal package for VILLAGE review and approval.
- The CONSULTANT shall update the engineer's opinion of probable cost.

Deliverables: The following deliverables shall be provided under Task 4:

- Three (3) original sets of the 90% design package (11" x 17" plan sheets), one (1) electronic copy.
- One (1) copy of the technical specifications
- One (1) copy of any applicable meeting minutes.
- One (1) copy of updated project schedule.
- One (1) copy of the engineer's opinion of probable cost

Task 5 – 100% Design Submission

- The CONSULTANT shall incorporate the review comments from 90% design submission in the 100% design submission.
- The 100% design submission shall include, at a minimum, the following:
  - Cover page
  - Key Sheet
  - General Notes
  - Plan Sheets (for pipes and outfall/ Injection well) including utilities, conflicts, and relocations.
  - Plan Sheets (Pump Station and Valve Vault) plan view, cross section, and details.
  - Drainage profiles
  - Civil Detail Sheets
  - Mechanical Details Sheets
  - Electrical Detail Sheets
  - Structural Detail Sheets
  - Standard Details
  - SWPPP
- The CONSULTANT shall submit the 100% design submission for VILLAGE review. The design drawings shall be submitted in 11" x 17" plan sheets. The VILLAGE shall provide comments to the CONSULTANT within five (5) business days of receiving the submittal.
- The CONSULTANT shall attend one (1) coordination meeting with the VILLAGE to address review comments. CONSULTANT shall prepare the agenda, record and submit meeting minutes.
- The CONSULTANT shall provide an updated schedule in Microsoft Project as part of this submittal package for VILLAGE review and approval.
- The CONSULTANT shall prepare a final engineer's opinion of probable cost.
- Once all comments are addressed, or if no comments or corrections are necessary, the CONSULTANT shall submit the Final Plans and Specifications, and other documents to the VILLAGE.

Deliverables: The following deliverables shall be provided under Task 5:

- Three (3) original sets of the 100% design package (11" x 17" plan sheets), together with an electronic copy.
- Three (3) original sets, signed and sealed of the Final Plans and Specifications 100% design package (24" x 36" plan sheets), together with one (1) electronic copy.
- One (1) copy of the meeting minutes.
- One (1) copy of updated project schedule.
- One (1) copy of the final engineer's opinion of probable cost.

Task 6 - Permitting

- The CONSULTANT shall obtain all required permits from the VILLAGE, regulatory agencies, and authorities having jurisdiction, for this project.
- The CONSULTANT shall respond to all permit comments from the VILLAGE, regulatory agencies, or authorities having jurisdiction.

- The CONSULTANT shall attend permit meetings with VILLAGE, regulatory agencies, and authorities having jurisdiction, as necessary, record and prepare meeting minutes, and provide said documentation to the VILLAGE.
- The CONSULTANT is responsible for determining which permits are required and which agencies are applicable to the project.

Deliverables: The following deliverables shall be provided under Task 6:

- One (1) copy of the Pemit Matrix.
- One (1) copy of the meeting minutes.
- One (1) copy of issued permits.

Task 7 – Bid Support Services

- The CONSULTANT shall assist the VILLAGE in preparing the bid documents, including incorporating the VILLAGE's front-end documents.
- The CONSULTANT shall attend the pre-bid meeting. The CONSULTANT shall respond to questions from prospective bidders.
- The CONSULTANT shall provide supplemental information to prospective bidders, via the Village, as required during the bidding process.
- The CONSULTANT shall review all bids to determine the most responsible and responsive bidder and provide the VILLAGE with a recommendation for award of the construction contract.

Deliverables: The following deliverables shall be provided under Task 7:

- One (1) copy of meeting minutes.
- One (1) copy of response questions
- One (1) copy of review documents and recommendations

END OF SCOPE OF WORK

PROPOSAL ASSUMPTIONS

- VILLAGE shall provide the CONUSULTANT with access to site as required.
- VILLAGE shall provide existing/as-built electronic CAD files, if available.
- VILLAGE shall provide a current topographic survey of the project site, suitable for use are the basis of the requisite engineering design and permitting of the project in electronic (CAD) format. A signed a sealed (by a Florida licensed Surveyor) shall be provided to the CONSULTANT. Signed and sealed surveys shall be provided, as required for permit submittals. The CONSULTANT shall verify existing geometry is acceptable to all permitting agencies. Any required revisions shall be the responsibility of the VILLAGE.
- This proposal assumes a single-phase design/construction approach.
- This proposal assumes that existing roadway elevations are to remain (no regrading or roadway raising). Existing slopes, high points, low points, curb elevations, etc. are to

remain. Roadway milling and resurfacing may be included as part of the engineering design as part of the CONSULTANTS scope of work.

- Since this drainage collection system is to be interconnected to other, adjacent phases (not a part of this scope of work/proposal), the CONSULTANT shall assume design up to the last storm water structure within the project limits with provision for a 'knock out' at the required invert elevation for future connection.
- The storm water pump station shall be located completely within the existing public Right of Way. No private property improvements are included whatsoever.
- The specified pump station access hatches shall be water-tight and traffic rated.
- Any services beyond the bid support phase (during construction, certification, etc.) are specifically excluded from this proposal.
- Any work associated with existing or proposed sea walls is specifically excluded from this proposal.
- The proposed pump station discharge shall be via deep injection well(s).
- It is understood that a Reasonable Assurance Report (RAR) and associated test well will be required for the design and permitting of the injection wells. The RAR and test well are specifically excluded form this proposal and are to be provided by the owner.
- This proposal assumes that potable water main relocations shall be required at the intersection of S Treasure Dr. and Cutlass Ave. Said WM relocation design is included in this proposal. No relocation or modification to the existing sanitary sewer system is anticipated.
- Landscaping/Arborist services are specifically excluded from this proposal.
- Construction phasing, specific MOT design (outside of standard FDOT index callouts), dewatering design or bypass design of any kind are specifically excluded from this proposal.
- The island-wide (Treasure Island) hydraulic modeling has previously been performed via the Village Storm Water Master Plan. The 2D ICPR hydraulic model shall be provided to the CONSULTANT for use during their model 'refinement' for the subject project limits to meet the established Flood Protection level of Service (FPLOS). Drainage improvements shall be designed for year 2060 future conditions, as applicable. The BODR will be submitted to the VILLAGE for review and feedback prior to the 30% design deliverable for incorporation into the design.
- Drainage improvements will be designed to meet the required Flood Protection Level of Service (FPLOS) which includes the 5-yr, 24-hr storm event for roadway design and 100-yr, 72-hr storm event for minimum building finished floor elevation.
- MOT is limited to standard FDOT indexes. Should specific MOT plans be required, CMA shall provide an additional services proposal accordingly.
- The VILLAGE shall be responsible for all permit fees.

ADDITIONAL SERVICES

If authorized in writing by the VILLAGE, as an amendment to this Task Order, the CONSULTANT shall furnish, or obtain, Additional Services of the types listed in the MASTER AGREEMENT. The VILLAGE, as indicated in the MASTER AGREEMENT, will pay for these services.

PERFORMANCE SCHEDULE

The CONSULTANT shall perform the services identified in Tasks 1 - 7 in accordance with Exhibit C – Project Tentative Schedule, contained herein.

PROJECT FUNDING

Performance of this project is at the VILLAGE's discretion and may be contingent upon the VILLAGE receiving funding and work shall not begin until the VILLAGE provides a Notice to Proceed to CONSULTANT.

METHOD OF COMPENSATION

The services performed will be accomplished using a combination of Lump Sum tasks and Maximum, Not-to-Exceed tasks. The total hourly rates payable by the VILLAGE for each of CONSULTANT's employee categories, reimbursable expenses, if any, and sub-consultant fees, if any, are shown on **Exhibit A** attached hereto and made a part hereof. Pay application requests shall be prepared on the VILLAGE's approved pay application request form. The CONSULTANT shall submit the pay application request to the VILLAGE's Project Manager for review and approval. Once the VILLAGE's Project Manager approves the CONSULTANT's pay application request, the CONSULTANT may submit it to the VILLAGE's accounts payable department via email (Pwdocuments@nbvillage.com) with a copy to the Project Manager. Pay application requests shall be submitted monthly.

TERMS OF COMPENSATION

Compensation shall be divided as follows:

Task / Description	Lump Sum Fees	Not to Exceed Fees
Task 1-Project Coordination & Data Collection		$ 29,335.91
Task 2 - 30% Design	$ 162,019.20	
Task 3 - 60% Design	$ 137,153.35	
Task 4 - 90% Design	$ 98,796.75	
Task 5 – 100% Design	$ 68,500.14	
Task 6 – Permitting		$ 34,818.22
Task 7 – Bid Support		$ 14,051.66
Subtotal	**$ 466,469.43**	**$ 78,205.79**
Structural Engineering (MUEngineers, Inc.)	$31,520.00	
Electrical Engineering (SEC Consultants, Inc.)	$29,500.00	
Geotechnical Field Investigation (PanGeo Consultants, Inc.)	$ 6,710.00	
Reimbursable Expenses	$ 5,000.00	
Grand Total	**$ 617,266.30**	

VILLAGE CONTACTS

Requests for payments should be directed to North Bay Village Accounts Payable via e-mail to Pwdocuments@nbvillage.com after getting approval from the VILLAGE's Project Manager. All other correspondence and submittals should be directed to the attention of Name of *PM*, Project Manager, at the address shown below. **Please be sure that all correspondence refers to the VILLAGE project number and title as stated above.**

Delroy Peters
Project Manager
Public Works
North Bay Village
Village Hall, 3rd Floor Public Works
1666 Kennedy Causeway
North Bay Village, FL 33141
(305) 756-7171 Ext. 29
Dpeters@nbvillage.com

Marlon Lobban, PE
Director of Public Works
North Bay Village
Village Hall, 3rd Floor Public Works
1666 Kennedy Causeway
North Bay Village, FL 33141
(305) 756-7171 ext. 66
Mlobban@nbvillage.com

CONSULTANT CONTACTS

Peter Moore, PE, President and CEO
Chen Moore and Associates, Inc.
500 W Cypress Creek Rd., Suite 600, Fort Lauderdale, FL 33309
Email: pmoore@chenmoore.com
Phone: 954-730-0707

Gregory Mendez, PE, Principal Engineer / Office Leader Miami
Chen Moore and Associates, Inc.
3150 SW 38th Ave, Suite 950, Miami, FL 33146
Email: gmendez@chenmoore.com
Phone: 786-497-1500

SIGNATURE PAGE
NORTH BAY VILLAGE

IN WITNESS OF THE FOREGOING, the parties have set their hands and seals the day and year first written above.

By: _____
Marlon Lobban
Village Public Works Director
This Work Order approved pursuant to [check one and initial]:
☐ ___Manager Purchasing Authority (§36.25 Village Code)
☐ ___Resolution No. _____

By: _____
Dr. Ralph Rosado, Ph.D, AICP
Village Manager

Attest:

By: _____
Alba L. Chang, CMC
Village Clerk

Approved as to form and legal sufficiency:

By: _____
Weiss Serota Helfman Cole & Bierman, P.L.
Village Attorney

SIGNATURE PAGE
CONSULTANT/CONTRACTOR

WITNESSES:

_____

_____
[Witness print/type name]

_____

_____
[Witness print/type name]

(CORPORATE SEAL)

Chen Moore and Associates, Inc.

_____

_____
[Print Name, check title]

☐ President ☐ Vice President
☐ Authorized Signatory (Please provide corporate authorization)

ATTEST:

_____
Secretary

_____
[Print Name]

ACKNOWLEDGMENT

State of Florida
County of _____

The foregoing instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization, this _ day of _____, 20___, by_____(name of person) as _____ (type of authority) for _____ (name of party on behalf of whom instrument is executed).

_____
Notary Public
(Print, Stamp, or Type as Commissioned)

___Personally known to me; or
___Produced identification (Type of Identification:_____)
___Did take an oath; or
___Did not take an oath

Exhibit A – Work Break Down Fee Schedule

Treasure Island Drainage Improvements - Phase II

Position	Name & (Company)	Labor Multiplier [1]	Hourly Rate [2]	Loaded Hourly Rate [1x2]	Contract Max. Rate	Task 1 - Project Coordination & Data Collection		Task 2 - 30% Design		Task 3 - 60% design		Task 4 - 90% design		Task 5 - 100% design		Task 6 - Permitting		Task 7 - Bid Support		Total Labor	Costs
Consultant			$	$	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hours	$
Principal Engineer	Gregory Mendez, PE (CMA)	2.90	90.40	262.16	333.00	24	$ 6,291.84	56	$ 14,680.96	48	$ 12,583.68	48	$ 12,583.68	32	$ 8,389.12	40	$ 10,486.40	24	$ 6,291.84	272	$71,307.52
Project Manager		2.90		0.00	236.00		$ -		$ -		$ -		$ -		$ -		$ -		$ -	0	$0.00
Senior Project Engineer	Michael Bulick, PE (CMA)	2.90	60.65	175.89	257.00	16	$ 2,814.16	72	$ 12,663.72	80	$ 14,070.80	72	$ 12,663.72	40	$ 7,035.40	16	$ 2,814.16	4	$ 703.54	300	$52,765.50
Project Engineer	Sathvika Ramaji, PE (CMA)	2.90	52.05	150.95	190.00	54	$ 8,151.03	104	$ 15,698.28	120	$ 18,113.40	88	$ 13,283.16	56	$ 8,452.92	32	$ 4,830.24	24	$ 3,622.68	478	$72,151.71
Project Engineer	Amalde Roman, EI (CMA)	2.90	34.79	100.89	135.00	80	$ 8,071.28	226	$ 23,003.15	160	$ 16,160.38	108	$ 10,989.10	72	$ 7,264.15	40	$ 4,035.64	16	$ 1,614.26	716	$72,237.96
Designer	Andres Aristazabal (CMA	2.90	40.95	118.76	115.00	2	$ 230.00	280	$ 32,200.00	220	$ 25,300.00	140	$ 16,100.00	98	$ 11,040.00	8	$ 920.00		$ -	746	$85,790.00
CADD Technician	Joseph Hall, EI (CMA)	2.90	34.00	98.60	115.00	16	$ 1,577.60	340	$ 33,524.00	260	$ 25,636.00	180	$ 17,748.00	140	$ 13,804.00	56	$ 5,521.60	8	$ 788.80	1000	$98,600.00
CADD Technician	Alexis Valenzuela (CMA)	2.90	30.00	87.00	115.00	16	$ 1,392.00	340	$ 29,580.00	260	$ 22,620.00	180	$ 15,660.00	140	$ 12,180.00	56	$ 4,872.00	8	$ 696.00	1000	$87,000.00
Clerical / Admin	Alicia Quero (CMA)	2.90	28.84	83.64	101.00	8	$ 808.00	8	$ 669.09	8	$ 669.09	8	$ 669.09	4	$ 334.54	16	$ 1,338.18	4	$ 334.54	56	$4,683.62
			Sub-totals			216	**$29,335.91**	1428	**$162,019.20**	1176	**$137,153.35**	816	**$98,796.75**	580	**$68,500.14**	264	**$34,818.22**	88	**$14,051.66**	4568	**$544,536.30**
			Task Sub-totals				**$29,335.91**		**$162,019.20**		**$137,153.35**		**$98,796.75**		**$68,500.14**		**$34,818.22**		**$14,051.66**		**$544,536.30**

Summary of Reimbursable Expenses

Units	No. of		$/Unit					Total
Reimbursables Allowance								$5,000.00
PanGeo Consultants, Inc. (Geotechnical Engineering)								$6,710.00
Smith Engineering Consultants, Inc. (Electrical Engineering)								$29,500.00
MUEngineers, Inc. (Structural Engineering)								$31,520.00
							Reimbursable Expense	**$72,730.00**

Total **$617,266.30**

Exhibit B – Location Map

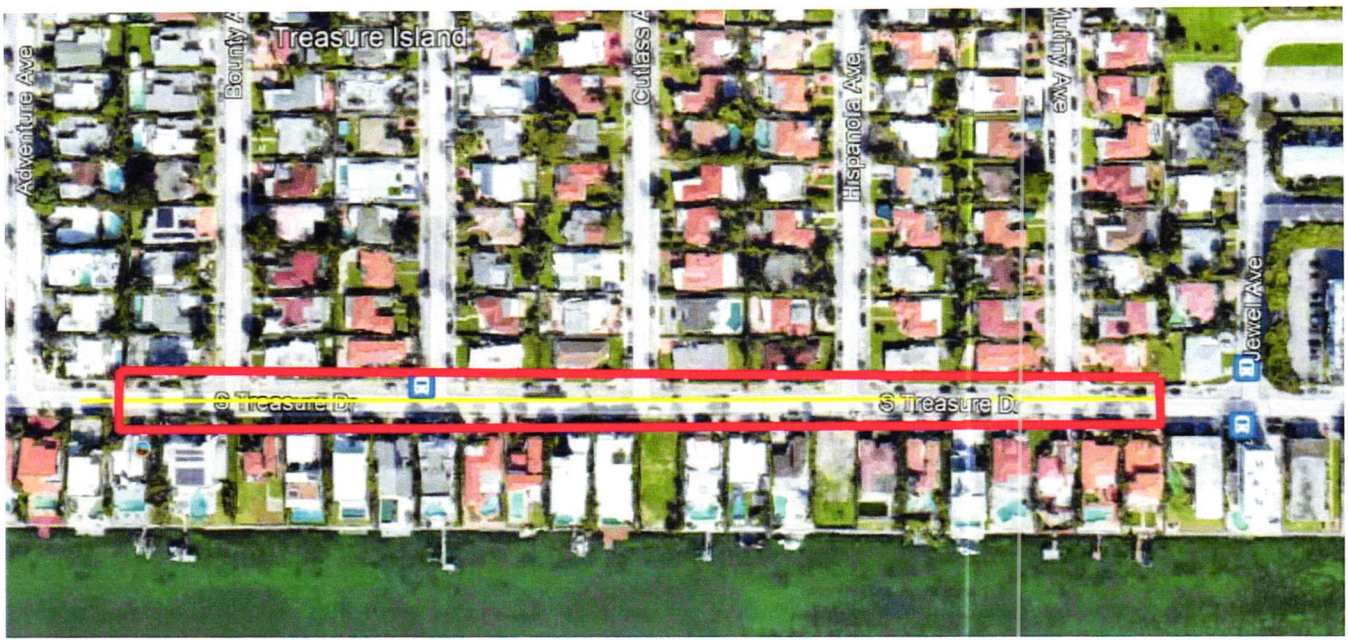
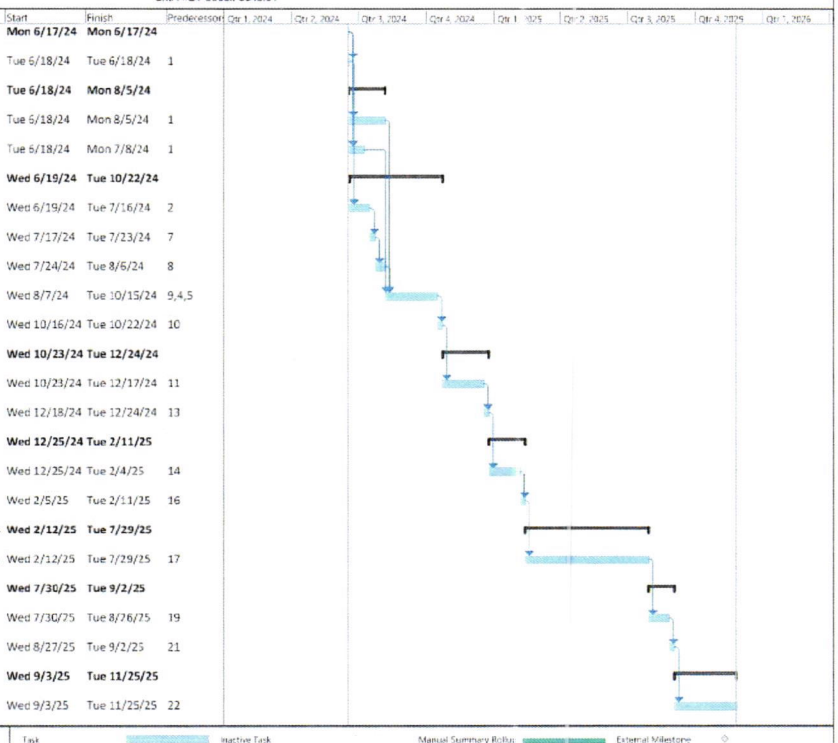


Exhibit C – Project Tentative Schedule

Preliminary Project Schedule
North Bay Village
Treasure Island Drainage Improvements - Phase II
CMA #24-0000.P0045.01

ID	Task Name	Duration	Start	Finish	Predecessors
1	**NTP**	**1 day**	**Mon 6/17/24**	**Mon 6/17/24**	
2	Kick-Off Meeting	1 day	Tue 6/18/24	Tue 6/18/24	1
3	**Task 1**	**35 days**	**Tue 6/18/24**	**Mon 8/5/24**	
4	Data Gathering, Utility coord. Site Recon.	35 days	Tue 6/18/24	Mon 8/5/24	1
5	Geotechnical Exploration	15 days	Tue 6/18/24	Mon 7/8/24	1
6	**Task 2**	**90 days**	**Wed 6/19/24**	**Tue 10/22/24**	
7	ICPR Modeling	20 days	Wed 6/19/24	Tue 7/16/24	2
8	BODR Client Review	5 days	Wed 7/17/24	Tue 7/23/24	7
9	Address Client comments & Finalize BODR	10 days	Wed 7/24/24	Tue 8/6/24	8
10	30% Construction Documents	50 days	Wed 8/7/24	Tue 10/15/24	9,4,5
11	Client Review	5 days	Wed 10/16/24	Tue 10/22/24	10
12	**Task 3**	**45 days**	**Wed 10/23/24**	**Tue 12/24/24**	
13	60% Construction Documents	40 days	Wed 10/23/24	Tue 12/17/24	11
14	Client Review	5 days	Wed 12/18/24	Tue 12/24/24	13
15	**Task 4**	**35 days**	**Wed 12/25/24**	**Tue 2/11/25**	
16	90% Construction Documents	30 days	Wed 12/25/24	Tue 2/4/25	14
17	Client Review	5 days	Wed 2/5/25	Tue 2/11/25	16
18	**Task 5**	**120 days**	**Wed 2/12/25**	**Tue 7/29/25**	
19	Permitting & Approvals*	120 days	Wed 2/12/25	Tue 7/29/25	17
20	**Task 6**	**25 days**	**Wed 7/30/25**	**Tue 9/2/25**	
21	100% Construction Documents (Issued for Bid)	20 days	Wed 7/30/25	Tue 8/26/25	19
22	Client Review	5 days	Wed 8/27/25	Tue 9/2/25	21
23	**Task 7**	**60 days**	**Wed 9/3/25**	**Tue 11/25/25**	
24	Bid & Award Support Services*	60 days	Wed 9/3/25	Tue 11/25/25	22



*Durations are approximate and may vary due to circumstances beyond CMA's control.

Task
Split
Milestone
Summary
Project Summary
Inactive Task
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
External Tasks
External Milestone
Deadline
Progress
Manual Progress

Author: GM
Schedule Update: REV 02 05/30/24

Page 1

WORK ORDER No. RIB2401

Dated this 24th day of May, 2024

NORTH BAY VILLAGE PUBLIC WORKS DEPARTMENT

NAME OF PROJECT

PROFESSIONAL SERVICES

This Work Order between North Bay Village, a Florida municipal corporation ("VILLAGE"), and [insert name of consultant] ("CONSULTANT"), is made pursuant to the Continuing General Professional Engineering and Architectural Services Agreement (the "Agreement") dated April 4th, 2024.

PROJECT DESCRIPTION

The project consists of implementing the construction of a new stormwater pump station system to provide an upgraded flood protection level of service to Harbor Island (HI). HI drainage conditions were evaluated as part of the North Bay Village Stormwater Master Plan (SWMP). The SWMP indicates that the HI existing roadway profile is high enough and does not require raising the roadway. However, the existing drainage system composed of 9 positive gravity storm sewer systems of relatively small size do not have the conveyance capacity to handle anticipated year 2060 future Sea Level Rise (SLR) tailwater and precipitation conditions. The SWMP concludes that implementing a pressurized stormwater system is required and essential to address future sea level rise challenges including higher tailwater and rainfall events of greater magnitude and higher intensity conditions. The SWMP includes a hydrologic and hydraulic H&H ICPR V4 model developed to provide a preliminary design of the stormwater pump station system at a planning level. The H&H ICPR model results indicates a pump station with a capacity of 18,000 GPM and a stormwater trunk-line sized to be from 18" to 60" in diameter required for a pressurized system to address year 2060 SLR conditions. The pump station system components include a new stormwater trunk-line including inlets and manholes, pollution control structure (PCS) units, the trash-rake unit, the pump station wet-pit, gravity emergency bypass, energy dissipator, outfall structure, forcemain, in-line injection wells, electrical control panel, transformer and bi-fueled emergency generator. The trunk-line requires water-tight joints to minimize groundwater infiltration and optimize pump station system performance. This work order task mainly consists of further developing this SWMP concept into final design plans, drainage design documentation report and specifications for permitting and construction purposes.

GENERAL REQUIREMENTS

Design Standards

The CONSULTANT shall be solely responsible for determining the standards the work shall meet and obtain all the requisite regulatory approvals. The design shall include, but is not limited to, the plans and specifications, which describe all systems, elements, details, components, materials, equipment, and any other information necessary for construction. The design shall be accurate, coordinated between disciplines, and in all respects, adequate for construction, and shall be in conformity, and compliance, with all applicable laws, codes, permits, and regulations.

Quality Control

The CONSULTANT is responsible for the quality control (QC) of their work and of its sub-consultants. The CONSULTANT shall provide to the VILLAGE the list of sub-consultants which shall be used for this project. This list shall not be changed without prior approval of the VILLAGE. All sub-consultant documents and submittals shall be submitted directly to the CONSULTANT for their independent QC review. The VILLAGE shall only accept submittals for review and action from the CONSULTANT.

The CONSULTANT shall be responsible for the professional quality, technical accuracy, and coordination of all pre-design services, designs, drawings, specifications, and other services furnished by the CONSULTANT and their sub-consultant(s). It is the CONSULTANT's responsibility to independently and continually QC their plans, specifications, reports, electronic files, progress payment applications, schedules, and all project deliverables required by this task order. The CONSULTANT shall provide the VILLAGE with a marked up set of plans and/or specifications showing the CONSULTANT's QC review. Such mark-ups shall accompany the CONSULTANT's scheduled deliverables. The submittal shall include the names of the CONSULTANT's staff that performed the QC review for each component (structures, roadway, drainage, etc.).

Project Schedule

The CONSULTANT shall submit a preliminary project schedule as an exhibit to this Work Order. The schedule shall be prepared in Microsoft Project and shall include the Consultant's best estimate as to the project start date.

Within 10 business days after receiving the Notice to Proceed and prior to beginning work, the CONSULTANT shall submit a final project schedule to the VILLAGE for approval. No work shall commence without an approved schedule. The final schedule shall include design, permitting activities, submittal review timeframes, and other project activities as required to complete the work. The CONSULTANT shall submit updated project schedules as required in the specific scope of services.

Permitting

The CONSULTANT shall coordinate with the VILLAGE, regulatory agencies, and any other government entity having an interest or jurisdiction, which may require permits for this project. The CONSULTANT shall provide an estimate of fees and duration associated with the permitting process. Some of the regulatory or permitting agencies associated with this project include, but are not limited to:

- South Florida Water Management District (SFWMD)
- U.S. Army Corps of Engineers (USACE)
- Miami Dade County Department of Regulatory & Economic Resources (RER)
- Florida Department of Environmental Protection (FDEP)
- North Bay Village Building Permit

SPECIFIC SCOPE OF SERVICES

The Scope of Services to be provided by CONSULTANT shall be as follows:

CONSULTANT will provide engineering services to the VILLAGE to conduct analysis, design and plans for a stormwater pump station system within Harbor Island. Engineering services will include:

- Contract management (Ribbeck Engineering)
- Drainage Design (Ribbeck Engineering)
- Environmental & Permitting (Ribbeck Engineering and WGI)
- Incidental roadway including Maintenance of Traffic (MOT) and Signing and Pavement Markings (S&PM) (Ribbeck Engineering)
- Utility Coordination (Ribbeck Engineering)
- Geotechnical Design (HRES)
- Structural Design (CHA)
- Electrical Design (CHA)

The engineering services include the design of a pump station system components including a new stormwater trunk-line including inlets and manholes, pollution control structure (PCS) units, the trash-rake unit, the pump station wet-pit, gravity emergency bypass, energy dissipator, outfall structure, forcemain, in-line injection wells, electrical control panel, transformer and bi-fueled emergency generator. The trunk-line requires water-tight joints to minimize groundwater infiltration and optimize pump station system performance. The scope mainly consists of further developing this SWMP concept into final design plans, drainage design documentation report and specifications for permitting and construction purposes. Incidental work includes geotechnical exploration, utility coordination, roadway restoration, S&PM and MOT, electrical design for the pump station panel control and generator, structural design for the pump station housing and seawall retrofit in order to accommodate the new pump station outfall structure and other pump station components.

The Scope of Work is comprised of the following essential tasks:

Task 1 – Project Coordination & Data Collection (Time & Materials)
Task 2 – 30% Design Submission (Lump Sum)
Task 3 – 60% Design Submission (Lump Sum)
Task 4 – 90% Design Submission (Lump Sum)
Task 5 – 100% Design Submission (Lump Sum)
Task 6 – Permitting (Time & Materials)
Task 7 – Bid Support Services (Time & Materials)

Task 1 – Project Coordination & Data Collection (Time & Materials)

As part of this task, the CONSULTANT will attend six (6) monthly progress meetings to provide general project coordination and work planning. During these meetings, the status of all ongoing tasks and VILLAGE reviews will be discussed. The CONSULTANT will prepare and distribute meeting minutes for each progress meeting.

The CONSULTANT will conduct an in-depth review of the SWMP including design criteria, ICPR model input and output, GIS data and recommended phasing of the drainage improvements. In addition, the CONSULTANT will review available as-built and permit documentation information

pertaining existing storm sewer system outfall connections, existing seawall, existing sanitary pump station and any other relevant information related to the design of the project.

This task includes geotechnical exploration services to obtain geotechnical data to provide evaluations and recommendations intended for structural design, site preparation and construction. This task allocated $17,959.77 to conduct geotechnical services which includes soil borings, standard penetration tests (SPT) and sieve analysis. Additionally, geotechnical services include conducting a Reasonable Assurance Report (RAR) as optional services with a fee of $10,371.20, in case is required by the Florida Department of Environmental Protection (FDEP) during the injection well Class V permitting process; and an allowance of $500.00 for estimated permit fees to perform the soil exploration drilling. A detailed scope of work and cost from (HRES) for geotechnical services is provided in **Exhibit D**.

This task includes structural data collection for the seawall retrofit in order to accommodate the new pump station outfall structure and other pump station components; which includes gathering existing site information and design standards. The CONSULTANT will retain **CHA** to perform the structural and electrical design services associated with the pump station design. **CHA** scope and fee are included in **Exhibit E**.

This task includes environmental services including conducting a benthic resource survey of the area of seawall to be replaced and submerged bottom area immediately waterward of the seawall/rip-rap at the proposed outfall location. Document findings in a report/memorandum to be included with regulatory applications. The CONSULTANT will retain **WGI** to perform the environmental data collection and to handle the following environmental permits:

- Miami Dade County DERM Class I Permit
- South Florida Water Management District Individual Permit
    - Florida Department of Environmental Protection – Sovereign Submerged Lands Easement
- U.S. Army Corps of Engineers - Section 10 Permit

design services associated with the pump station design. **WGI** scope and fee are included in **Exhibit F**.

Survey will be provided by the VILLAGE as directed during the scope clarification meeting. This proposal does not include any hours for SUE (subsurface utility exploration) and assumes that permitting fees will be handled by the VILLAGE.

Deliverables:

- Monthly Project Status Reports thru completion of the project (electronic)
- Geotechnical Scope and associated work products (electronic)

Task 2 - 30% Design Submission (Lump Sum)

As part of this design phase the CONSULTANT will conduct a H&H modeling in ICPR V4 to further refine the model developed under the SWMP planning phase. The refined model will address design phase items including utilities, constructability, permitting and field conditions that may have not been identified during the planning phase. Drainage design criteria and design parameters will be consistent with the SWMP. Drainage improvements will be designed for year 2060 future conditions.

Drainage improvements will be designed to meet the required Flood Protection Level of Service (FPLOS) which includes the 5-yr, 24-hr storm event for roadway design and 100-yr, 72-hr storm event for minimum building finished floor elevation. Additionally, the 25-yr, 72-hr storm event will be also simulated to establish pre- versus post-development peak discharges and stages lately required for ERP permitting purposes by the SFWMD. The BODR will be submitted to the VILLAGE for review and feedback. This feedback will be incorporated into the pump station design and revisions to the BODR will be made accordingly.

The CONSULTANT will develop 30% preliminary plans including a site plan of the pump station system and the stormwater trunk-line based on revised BODR findings and recommendations.

Following completion of the modeling effort, the CONSULTANT staff will open a design ticket to assess the potential utility conflicts associated with the proposed design.

- The CONSULTANT shall identify key constructability issues.
- The VILLAGE will provide a topographic survey by a Florida Registered Surveyor to locate all above ground and underground features, and any additional data required for the completion of the design, permitting, and construction of the project.
- The CONSULTANT shall submit the plans, and specifications, for VILLAGE review. The design drawings shall be submitted in 11" x 17" plan sheets. The VILLAGE shall provide comments to the CONSULTANT within 14 days of receiving the submittal.
- The CONSULTANT shall attend one (1) coordination meeting with the VILLAGE to address review comments. CONSULTANT shall prepare the agenda, record, and submit meeting minutes to the VILLAGE.
- The CONSULTANT shall prepare a construction cost estimate and make the changes to the design if needed to have it within the proposed budget.
- The CONSULTANT shall submit an updated project schedule in Microsoft Project as part of this submittal package.

Deliverables: The following deliverables shall be provided under Task 2:

- Three (3) original sets of the 30% design package (11" x 17" plan sheets), together with one (1) electronic copy.
- One (1) copy of the meeting minutes.
- One (1) copy of the construction cost estimate.
- One (1) copy of updated project schedule.

Task 3 - 60% Design Submission (Lump Sum)

- The CONSULTANT shall incorporate the review comments from the 30% design submission in the 60% plans submission. The 60% design submission shall include, at a minimum, the following:
  - Cover Page
  - General Notes
  - Tabulation of quantities
  - Drainage Plans
  - Drainage Structure Data Tabulation
  - Pump Station Drainage Details
    - Pollution Control Structure Details

    - Pump Station Trash-Rake Unit Details
    - Pump Station Wet-Pit Details
    - Pump Station Hatch Details
    - Pump Station Energy Dissipator Details
    - Pump Station Forcemain Details
    - Pump Station Outfall Structure Details
    - Pump Station Emergency Gravity Bypass/Sluice Gate Details
    - Pump Station General Notes and Specifications
    - Injection Well Drainage Details
  - Erosion Control & SWPPP
  - Traffic Control Plans
  - Structural Plans
  - Electrical Plans
- The CONSULTANT shall provide one (1) hard copy and one (1) CD of the report to the VILLAGE's Project Manager. This report shall be signed and sealed by a Professional Engineer registered in the State of Florida and shall contain, at a minimum, project vicinity map, plan view showing the location of borings, basis and results of tests performed, detailed description of findings, recommendations, and an executive summary.
- The CONSULTANT shall submit plans, and specifications for VILLAGE review. The design drawings shall be submitted in 11" x 17" plan sheets. The VILLAGE shall provide comments to the CONSULTANT within 14 days of receiving the submittal.
- The CONSULTANT shall attend one (1) coordination meeting with the VILLAGE to address review comments. CONSULTANT shall prepare the agenda, record and submit meeting minutes.
- The CONSULTANT shall provide an updated schedule in Microsoft Project as part of this submittal package for VILLAGE review and approval.
- The CONSULTANT shall prepare a construction cost estimate and make the changes to the design if needed to have it within the proposed budget.

Deliverables: The following deliverables shall be provided under Task 3:

- Three (3) original sets of the 60% design package (11" x 17" plan sheets), together with one (1) electronic copy.
- One (1) copy of the meeting minutes.
- One (1) copy of updated project schedule.
- One (1) copy of the construction cost estimate.
- One (1) hard copy and one (1) CD of the Geotechnical Report.

Task 4 - 90% Design Submission (Lump Sum)

- The CONSULTANT shall incorporate the review comments from the 60% design submission in the 90% design submission. The 90% design submission shall include, at a minimum, the following updated plans:
  - Cover Page
  - General Notes
  - Tabulation of quantities
  - Drainage Plans

- Drainage Structure Data Tabulation
- Pump Station Drainage Details
    - Pollution Control Structure Details
    - Pump Station Trash-Rake Unit Details
    - Pump Station Wet-Pit Details
    - Pump Station Hatch Details
    - Pump Station Energy Dissipator Details
    - Pump Station Forcemain Details
    - Pump Station Outfall Structure Details
    - Pump Station Emergency Gravity Bypass/Sluice Gate Details
    - Pump Station General Notes and Specifications
    - Injection Well Drainage Details
- Erosion Control & SWPPP
- Traffic Control Plans
- Structural Plans
- Electrical Plans

- The CONSULTANT shall submit the plans, and specifications for VILLAGE review. The design drawings shall be submitted in 11" x 17" plan sheets. The VILLAGE shall provide comments to the CONSULTANT within twenty (20) business days of receiving the submittal.
- The CONSULTANT shall attend one (1) coordination meeting with the VILLAGE to address review comments. CONSULTANT shall prepare the agenda, record and submit meeting minutes.
- The CONSULTANT shall provide an updated schedule in Microsoft Project as part of this submittal package for VILLAGE review and approval.
- The CONSULTANT shall prepare a construction cost estimate and make the changes to the design if needed to have it within the proposed budget.

Deliverables: The following deliverables shall be provided under Task 4:

- Three (3) original sets of the 90% design package (11" x 17" plan sheets), one (1) electronic copy.
- One (1) copy of the meeting minutes.
- One (1) copy of updated project schedule.
- One (1) copy of the construction cost estimate.

Task 5 – 100% Design Submission (Lump Sum)

- The CONSULTANT shall incorporate the review comments from 90% design submission in the 100% design submission. The 100% design submission shall be complete.
- The CONSULTANT shall submit the 100% design submission for VILLAGE review. The design drawings shall be submitted in 11" x 17" plan sheets. The VILLAGE shall provide comments to the CONSULTANT within 10 business days of receiving the submittal.
- The CONSULTANT shall attend one (1) coordination meeting with the VILLAGE to address review comments. CONSULTANT shall prepare the agenda, record and submit meeting minutes.
- The CONSULTANT shall provide an updated schedule in Microsoft Project as part of this submittal package for VILLAGE review and approval.

- The CONSULTANT shall prepare a construction cost estimate, and make the changes to the design if needed to have it within the proposed budget.
- Once all comments are addressed, or if no comments or corrections are necessary, the CONSULTANT shall submit the Final Plans and Specifications, and any other document required for a complete design.by the VILLAGE. CONSULTANT shall provide three (3) original signed and sealed sets of the Final Design Package (24" x 36" plan sheets), together with an electronic copy.

Deliverables: The following deliverables shall be provided under Task 5:

- Three (3) original sets of the 100% design package (11" x 17" plan sheets), together with an electronic copy.
- Three (3) original sets, signed and sealed of the Final Plans and Specifications 100% design package (24" x 36" plan sheets), together with an one (1) electronic copy.
- One (1) copy of the meeting minutes.
- One (1) copy of updated project schedule.
- One (1) copy of the construction cost estimate.

Task 6- Permitting (Time & Materials)

- The CONSULTANT shall obtain all required permits from the VILLAGE, regulatory agencies, and authorities having jurisdiction, for this project.
- The CONSULTANT shall respond to all permit comments from the VILLAGE, regulatory agencies, or authorities having jurisdiction.
- The CONSULTANT shall attend permit meetings with VILLAGE, regulatory agencies, and authorities having jurisdiction, record and prepare meeting minutes, and provide documentation to the VILLAGE.
- The CONSULTANT is responsible for determining which permits are required and which agencies are applicable to the project.

Task 7 - Bidding Service (Time & Materials)

- The CONSULTANT shall assist the VILLAGE in preparing the bid documents, including incorporating the VILLAGE's front-end documents.
- The CONSULTANT shall attend the pre-bid meeting. The CONSULTANT shall respond to questions from prospective bidders.
- The CONSULTANT shall provide supplemental information to prospective bidders as required during the bidding process through the issuance of addenda

Task 8 - Post Design Services (Time & Materials)

- Post Design services will be negotiated at a later time.

PROJECT ASSUMPTIONS

- VILLAGE shall provide access to site.
- VILLAGE shall provide existing electronic CAD files, if available. It is the CONSULTANTS responsibility to verity accuracy.
- VILLAGE shall handle any Public Information task.
- It is the CONSULTANT's responsibility to verity existing geometry is acceptable to all permitting agencies.
- Survey will be provided by the VILLAGE as directed during the scope clarification meeting.
- Scope does not include SUE (subsurface utility exploration) efforts.
- Payment of application and permit fees will be made by the VILLAGE. The CONSULTANT staff will request checks from the VILLAGE prior to the submittal of permit applications to cover any associated fees.

ADDITIONAL SERVICES

If authorized in writing by the VILLAGE, as an amendment to this Work Order, the CONSULTANT shall furnish, or obtain, Additional Services of the types listed in the AGREEMENT. The VILLAGE, as indicated in the AGREEMENT, will pay for these services.

PERFORMANCE SCHEDULE

The CONSULTANT shall perform the services identified in Tasks 1 - 6 within 450 days of the written Notice to Proceed. Task 7 schedule shall be determined based on the bid dates and construction award period.

PROJECT FUNDING

Performance of this project is at the VILLAGE's discretion and may be contingent upon the VILLAGE receiving funding and work shall not begin until the VILLAGE provides a Notice to Proceed to CONSULTANT.

METHOD OF COMPENSATION

The services performed will be accomplished using the Not-to-Exceed method of compensation. The total hourly rates payable by the VILLAGE for each of CONSULTANT's employee categories, reimbursable expenses, if any, and sub-consultant fees, if any, are shown on **Exhibit A** attached hereto and made a part hereof. Pay application requests shall be prepared on the VILLAGE's approved pay application request form. The CONSULTANT shall submit the pay application request to the VILLAGE's Project Manager for review and approval. Pay application requests shall be submitted monthly.

TERMS OF COMPENSATION

Services will be provided for the following Not-to-Exceed amounts:

Lump Sum (LS) Activities		
Task 2 - 30% Design *(Ribbeck Engineering - Management, Drainage, MOT and Utility Coordination)*	$58,710.00	$78,489.75
Task 2 - 30% Design *(CHA - Electrical and Structural)*	$19,779.75	
Task 3 - 60% Design *(Ribbeck Engineering - Management, Drainage, MOT and Utility Coordination)*	$78,510.00	$109,843.50
Task 3 - 60% Design *(CHA - Electrical and Structural)*	$31,333.50	
Task 4 - 90% Design *(Ribbeck Engineering - Management, Drainage, MOT and Utility Coordination)*	$44,750.00	$63,883.50
Task 4 - 90% Design *(CHA - Electrical and Structural)*	$19,133.50	
Task 5 - 100% Design *(Ribbeck Engineering - Management, Drainage, MOT and Utility Coordination)*	$25,710.00	$39,901.00
Task 5 - 100% Design *(CHA - Electrical and Structural)*	$14,191.00	
	Sub Total (LS)	**$292,117.75**
Time & Materials (T&M) Activities		
Task 1 - Project Coordination & Data Collection *(Ribbeck Engineering - Management, Drainage and Utility Coordination (UC))*	$10,810.00	$20,831.06
Task 1 - Project Coordination & Data Collection *(WGI - Environmental)*	$2,550.56	
Task 1 - Project Coordination & Data Collection *(CHA - Electrical and Structural)*	$7,470.50	
Task 6 - Permitting *(Ribbeck Engineering - DERM Class II, SFWMD ERP and FDEP Class V permits)*	$31,260.00	$63,994.68
Task 6 - Permitting *(WGI - DERM Class I, FDEP Sovereign Submerged Lands Easement and USACE Section 10 permits)*	$27,955.68	
Task 6 - Permitting *(CHA - Electrical and Structural)*	$4,779.00	
Task 7 - Bid Support/Post Design Services *(Ribbeck Engineering - Management, Drainage andUC)*	$7,580.00	$10,390.00
Task 7 - Bid Support/Post Design Services *(CHA - Electrical and Structural)*	$2,810.00	
Geotechnical Field Investigation	$17,953.15	$17,959.77
Reimbursable Expenses *(geotechnical optional services)*	$10,871.20	$10,871.20
	Sub Total (T&M)	**$124,046.71**
	Grand Total	**$416,164.46**

VILLAGE CONTACTS

Requests for payments should be directed to North Bay Village Accounts Payable via e-mail to Pwdocuments@nbvillage.com after getting approval from the VILLAGE's Project Manager. All other correspondence and submittals should be directed to the attention of Name of *PM*, Project Manager, at the address shown below. **Please be sure that all correspondence refers to the VILLAGE project number and title as stated above.**

Delroy Peters
Project Manager
Public Works
North Bay Village
Village Hall, 3rd Floor Public Works
1666 Kennedy Causeway
North Bay Village, FL 33141
(305) 756-7171 Ext. 29
Dpeters@nbvillage.com

Marlon Lobban, PE
Director of Public Works
North Bay Village
Village Hall, 3rd Floor Public Works
1666 Kennedy Causeway
North Bay Village, FL 33141
(305) 756-7171 ext. 66
Mlobban@nbvillage.com

CONSULTANT CONTACTS

Consultant POC
Hans Ribbeck, MSEM, PE (Project Manager)
Carlos Ribbeck, PE (President)
Ribbeck Engineering, Inc.
14335 SW 120 Street, Suite 205
Email: hr@ribbeck.co
Phone: 954 918-6769
Fax: 305 383-5979

SIGNATURE PAGE
NORTH BAY VILLAGE

IN WITNESS OF THE FOREGOING, the parties have set their hands and seals the day and year first written above.

By: Marlon Lobban
Marlon Lobban
Village Public Works Director
This Work Order approved pursuant to [check one and initial]:
☐ ___Manager Purchasing Authority (§36.25 Village Code)
☐ ___Resolution No. _____

By: _____
Dr. Ralph Rosado, Ph.D, AICP
Village Manager

Attest:

By: _____
Alba L. Chang, CMC
Village Clerk

Approved as to form and legal sufficiency:

By: _____
Weiss Serota Helfman Cole & Bierman, P.L.
Village Attorney

SIGNATURE PAGE
CONSULTANT/CONTRACTOR

WITNESSES:

_____

_____
[Witness print/type name]

_____

_____
[Witness print/type name]

(CORPORATE SEAL)

Ribbeck Engineering, Inc.

_____

_____
[Print Name, check title]

☐ President ☐ Vice President
☐ Authorized Signatory (Please provide corporate authorization)

ATTEST:

_____
Secretary

_____
[Print Name]

ACKNOWLEDGMENT

State of Florida
County of _____

The foregoing instrument was acknowledged before me by means of ☐ physical presence or ☐ online notarization, this _ day of _____, 20___, by_____(name of person) as _____ (type of authority) for _____ (name of party on behalf of whom instrument is executed).

_____
Notary Public
(Print, Stamp, or Type as Commissioned)

___Personally known to me; or
___Produced identification (Type of Identification:_____)
___Did take an oath; or
___Did not take an oath

Exhibit A – Work Break Down Fee Schedule

Harbor Island Phase 1	Lump Sum																				
Position	Name & (Company)	Labor Multiplier [1]	Hourly Rate [2]	Loaded Hourly Rate [1x2]	Contract Max. Rate	Task 1 - Project Coordinatoin & Data Collection		Task 2 - 30% Design		Task 3 - 60% design		Task 4 - 90% design		Task 5 - 100% design		Task 6 - Permitting		Task 7 - Bid Support/Post Design		Total Labor	Costs
Ribbeck Engineering, Inc.			$	$	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hours	$
Principal In Charge	Hans Ribbeck, PE (Ribbeck Engineering)	2.90		0.00	295.00		$ -	18	$ 5,310.00	18	$ 5,310.00	10	$ 2,950.00	8	$ 2,360.00					54	$15,930.00
Project Manager	Carlos Ribbeck, PE (Ribbeck Engineering)	2.90		0.00	235.00			30	$ 7,050.00	40	$ 9,400.00	20	$ 4,700.00	10	$ 2,350.00					100	$23,500.00
Senior Project Engineer	Francis Mitchell, PE (Ribbeck Engineering)	2.90		0.00	230.00			30	$ 6,900.00	40	$ 9,200.00	20	$ 4,600.00	10	$ 2,300.00					100	$23,000.00
Project Engineer	Johanna Ribbeck, PE (Ribbeck Engineering)	2.90		0.00	190.00			70	$ 13,300.00	90	$ 17,100.00	80	$ 15,200.00	30	$ 5,700.00					270	$51,300.00
Designer	Javier Veliz, EI (Ribbeck Engineering)	2.90		0.00	135.00			100	$ 13,500.00	150	$ 20,250.00	60	$ 8,100.00	52	$ 7,020.00					362	$48,870.00
CADD Technician	Horacio Lopez (Ribbeck Engineering)	2.90		0.00	115.00			110	$ 12,650.00	150	$ 17,250.00	80	$ 9,200.00	52	$ 5,980.00					392	$45,080.00
	Sub-totals					**0**	**$0.00**	**358**	**$58,710.00**	**488**	**$78,510.00**	**270**	**$44,750.00**	**162**	**$25,710.00**	**0**	**$0.00**	**0**	**$0.00**	1278	**$207,680.00**
Subconsultants																					
CHA - Electrical Analysis and Plans - Lumps Sum - Refer to Exhibit E Fee Estimate and Scope for detailed fee and scope information.																				223	$34,097.75
CHA - Structural Analysis and Plans - Lumps Sum - Refer to attached Exhibit E for Fee Estimate and Scope for detailed fee and scope information.																				328	$50,340.00
Task Sub-totals (Lump Sum)																				**1829**	**$292,117.75**

Harbor Island Phase 1	Time & Materials																				
Position	Name & (Company)	Labor Multiplier [1]	Hourly Rate [2]	Loaded Hourly Rate [1x2]	Contract Max. Rate	Task 1 - Project Coordinatoin & Data Collection		Task 2 - 30% Design		Task 3 - 60% design		Task 4 - 90% design		Task 5 - 100% design		Task 6 - Permitting		Task 7 - Bid Support/Post Design		Total Labor	Costs
Ribbeck Engineering, Inc.			$	$	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hours	$
Principal In Charge	Hans Ribbeck, PE (Ribbeck Engineering)	2.90		0.00	295.00		$ -									4	$ 1,180.00	4	$ 1,180.00	8	$2,360.00
Project Manager	Carlos Ribbeck, PE (Ribbeck Engineering)	2.90		0.00	235.00	10	$ 2,350.00									12	$ 2,820.00	8	$ 1,880.00	30	$7,050.00
Senior Project Engineer	Francis Mitchell, PE (Ribbeck Engineering)	2.90		0.00	230.00	10	$ 2,300.00									40	$ 9,200.00	6	$ 1,380.00	56	$12,880.00
Project Engineer	Johanna Ribbeck, PE (Ribbeck Engineering)	2.90		0.00	190.00	14	$ 2,660.00									40	$ 7,600.00	6	$ 1,140.00	60	$11,400.00
Designer	Javier Veliz, EI (Ribbeck Engineering)	2.90		0.00	135.00	14	$ 1,890.00									40	$ 5,400.00	8	$ 1,080.00	62	$8,370.00
CADD Technician	Horacio Lopez (Ribbeck Engineering)	2.90		0.00	115.00	14	$ 1,610.00									44	$ 5,060.00	8	$ 920.00	66	$7,590.00
	Sub-totals					**62**	**$10,810.00**	**0**	**$0.00**	**0**	**$0.00**	**0**	**$0.00**	**0**	**$0.00**	**180**	**$31,260.00**	**36**	**$7,580.00**	278	**$49,650.00**
Subconsultants																					
WGI - Permits (Time & Materials) (Derm Class I, FDEP Soverign Submerged Lands Easement, USACE Section 10) - Refer to Exhibit F for Fee Estimate and Scope for detailed fee and scope information.																				268	$30,506.24
CHA - Electrical Analysis and Plans - Time & Materials - Refer to Exhibit E Fee Estimate and Scope for detailed fee and scope information.																				48	$7,804.50
CHA - Structural Analysis and Plans - Time & Materials - Refer to attached Exhibit E for Fee Estimate and Scope for detailed fee and scope information.																				38	$7,255.00
HRES - Geotechnical Services - Time & Materials - Refer to attached Exhibit D for Fee Estimate and Scope for detailed fee and scope information.																				67	$8,629.60
Task Sub-totals (Time & Materials)																				**699**	**$103,845.34**

Summary of Reimbursable Expenses	
Description	Total
Reimbursable Allowance for anticipated permit fee to gather geotechnical data	$500.00
Reimbursable Allowance for Deep Well Boring Drilled to 100' and RAR (see attached breakdown for detail)	$10,371.20
Reimbursable Expense	**$10,871.20**

Summary of Drilling and Laboratory Testing Expenses	Cost
Drilling and Laboratory Expenses for 1 SPT @ 70' for pump station, 1 SPT @ 50' for generator foundation support, 5 SPT for pipe (see attached brewakdown detail)	**$9,330.17**

Total (Time & Materials) **$124,046.71**

Exhibit B – Location Map

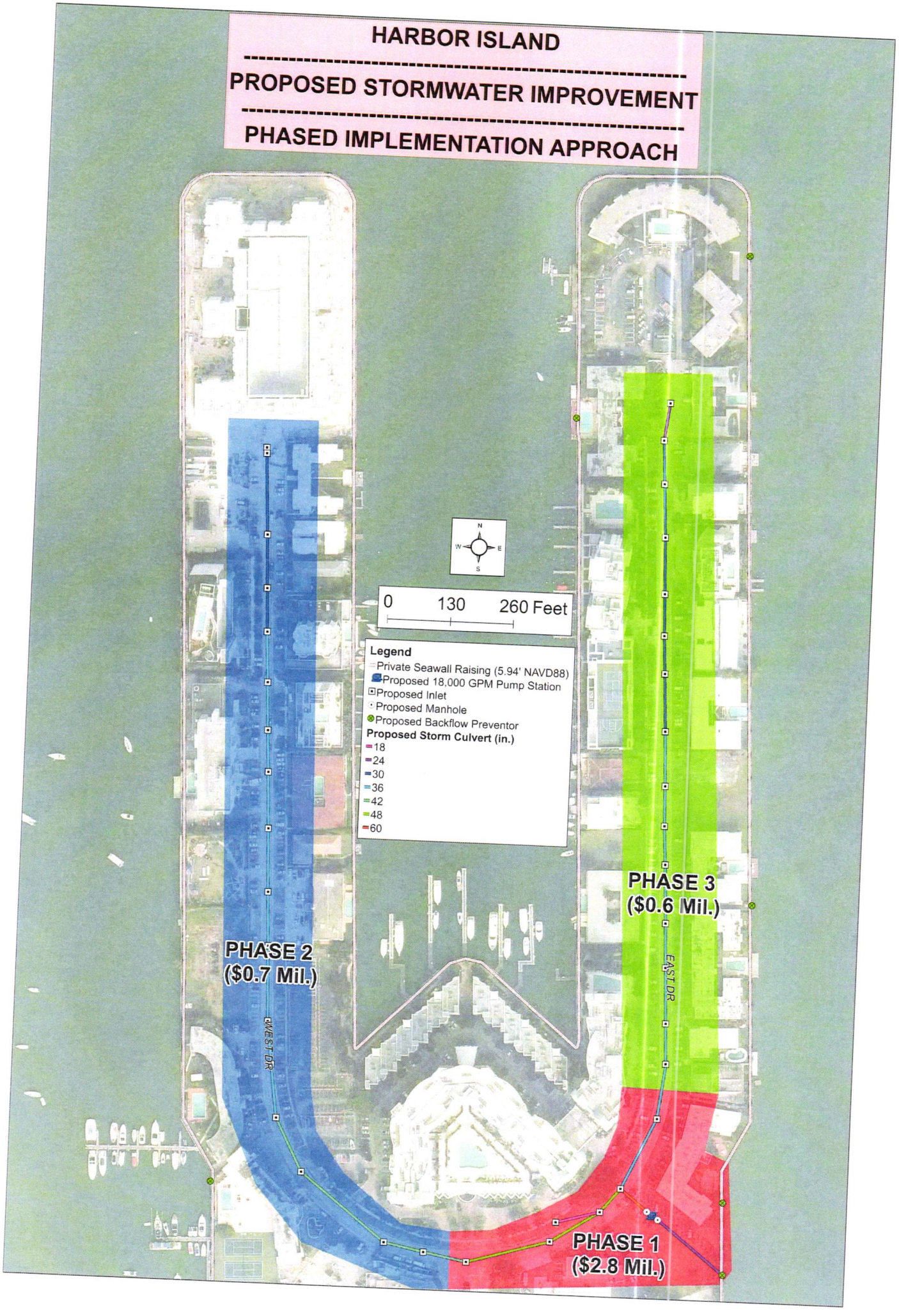
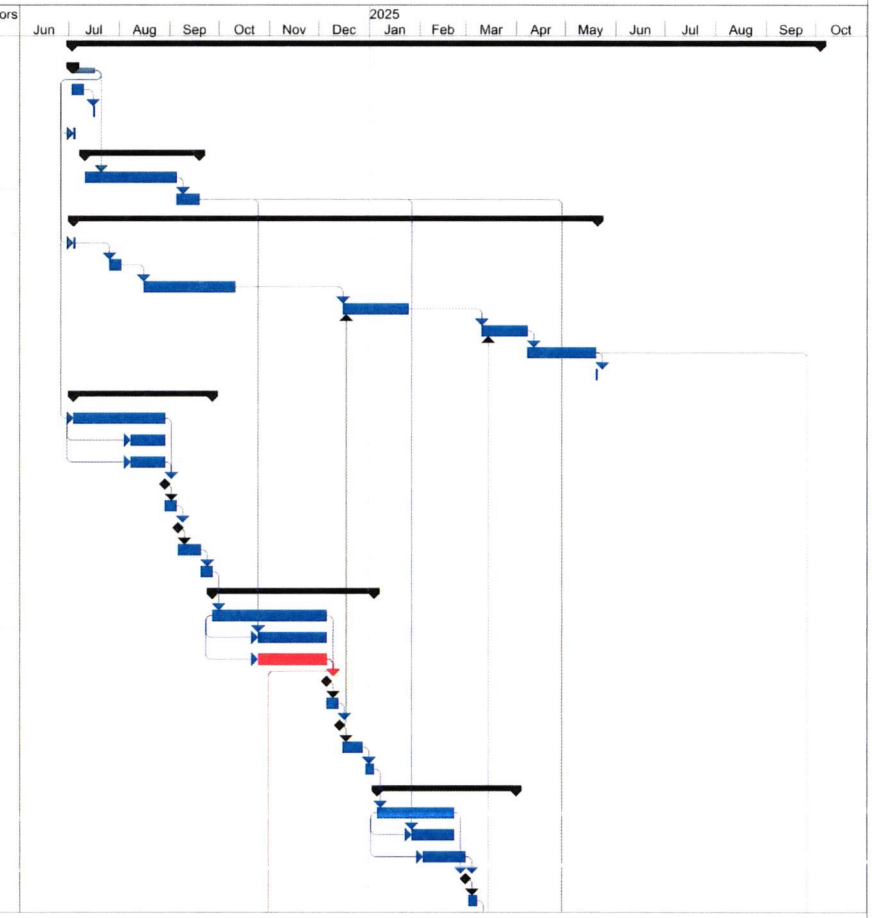

HARBOR ISLAND
PROPOSED STORMWATER IMPROVEMENT
PHASED IMPLEMENTATION APPROACH
N
W
E
S
0
130
260 Feet
Legend
Private Seawall Raising (5.94' NAVD88)
Proposed 18,000 GPM Pump Station
Proposed Inlet
Proposed Manhole
Proposed Backflow Preventor
Proposed Storm Culvert (in.)
18
24
30
36
42
48
60
PHASE 3
($0.6 Mil.)
PHASE 2
($0.7 Mil.)
WEST DR
EAST DR
PHASE 1
($2.8 Mil.)

Exhibit C – Project Tentative Schedule

Drainage and Pump Station Improvements for Harbor Island Phase 1

ID	Task Name	Duration	Start	Finish	Predecessors
1	**TOTAL PROJECT DURATION**	**328 days**	**Wed 7/3/24**	**Fri 10/3/25**	
2	**NOTICE TO PROCEED**	**1 day**	**Wed 7/3/24**	**Wed 7/3/24**	
3	Prepare and Submit QA/QC Plan	5 days	Wed 7/3/24	Tue 7/9/24	
4	Kick-off Meeting	1 day	Tue 7/16/24	Tue 7/16/24	3FS+4 days
5	**SURVEY (TO BE PROVIDED BY THE VILLAGE)**	1 day	Thu 7/4/24	Thu 7/4/24	2
6	**GEOTECHNICAL EXPLORATION**	**50 days**	**Thu 7/11/24**	**Wed 9/18/24**	
7	Perform field exploration	40 days	Thu 7/11/24	Wed 9/4/24	2FS+5 days
8	Submit getoechnical report	10 days	Thu 9/5/24	Wed 9/18/24	7
9	**UTILITY COORDINATION**	**229 days**	**Thu 7/4/24**	**Tue 5/20/25**	
10	Gather Utility Agency Owners	1 day	Thu 7/4/24	Thu 7/4/24	2
11	Submit Initial Utility Contact Plan Set to UAOs	5 days	Fri 7/26/24	Thu 8/1/24	10FS+15 days
12	Receive and Review UAO's Mark-ups and As-builts	40 days	Fri 8/16/24	Thu 10/10/24	11FS+10 days
13	Submit 60% Engineering Plans, Matrix to UAOs & Receive Responses	30 days	Mon 12/16/24	Fri 1/24/25	12,32
14	Submit 90% Plans and Matrix to UAOs & Receive Responses	20 days	Tue 3/11/25	Mon 4/7/25	13,41
15	Secure Utility Work Schedules and Agreements with UAOs	30 days	Tue 4/8/25	Mon 5/19/25	14
16	Complete Utility Certification Package	1 day	Tue 5/20/25	Tue 5/20/25	15
17	**30% DESIGN AND PLANS**	**61 days**	**Thu 7/4/24**	**Thu 9/26/24**	
18	Prepare 30% Analysis	40 days	Thu 7/4/24	Wed 8/28/24	2
19	Prepare Drainage Reports	15 days	Thu 8/8/24	Wed 8/28/24	18SS+25 days
20	Prepare 30% plans	15 days	Thu 8/8/24	Wed 8/28/24	18SS+25 days
21	Prepare Cost Estimate	2 days	Tue 8/27/24	Wed 8/28/24	18FS-2 days,20FS-2 days
22	**QA/QC of 30% documents and Implementation**	**5 days**	**Thu 8/29/24**	**Wed 9/4/24**	21
23	**30% Submittal**	**1 day**	**Thu 9/5/24**	**Thu 9/5/24**	22
24	**Village Review of 30% Submittal**	**10 days**	**Fri 9/6/24**	**Thu 9/19/24**	23
25	Respond to 30% Review Comments	5 days	Fri 9/20/24	Thu 9/26/24	24
26	**60% DESIGN AND PLANS**	**71 days**	**Fri 9/27/24**	**Fri 1/3/25**	
27	Prepare 60% Analysis and Plans	50 days	Fri 9/27/24	Thu 12/5/24	25
28	Update Drainage Report and prepare structures and electrical Reports	30 days	Fri 10/25/24	Thu 12/5/24	27SS+20 days,8
29	Prepare 60% Plans	30 days	Fri 10/25/24	Thu 12/5/24	27SS+20 days
30	Update Cost Estimate	2 days	Wed 12/4/24	Thu 12/5/24	27FS-2 days,29FS-2 days
31	**QA/QC of 60% documents and Implementation**	**5 days**	**Fri 12/6/24**	**Thu 12/12/24**	30
32	**60% Submittal**	**1 day**	**Fri 12/13/24**	**Fri 12/13/24**	31
33	**Village Review of 60% Plans**	**10 days**	**Mon 12/16/24**	**Fri 12/27/24**	32
34	Respond to 60% Review Comments	5 days	Mon 12/30/24	Fri 1/3/25	33
35	**90% DESIGN AND PLANS**	**61 days**	**Mon 1/6/25**	**Mon 3/31/25**	
36	Prepare 90% Analysis and Plans	35 days	Mon 1/6/25	Fri 2/21/25	34
37	Update Drainage, Structures and Electrical Reports	20 days	Mon 1/27/25	Fri 2/21/25	36SS+15 days,8
38	Prepare 90% Plans	20 days	Mon 2/3/25	Fri 2/28/25	36SS+20 days
39	Update Cost Estimate	2 days	Thu 2/27/25	Fri 2/28/25	36FS-2 days,38FS-2 days
40	**QA/QC of 90% Plans and Implementation**	**5 days**	**Mon 3/3/25**	**Fri 3/7/25**	39

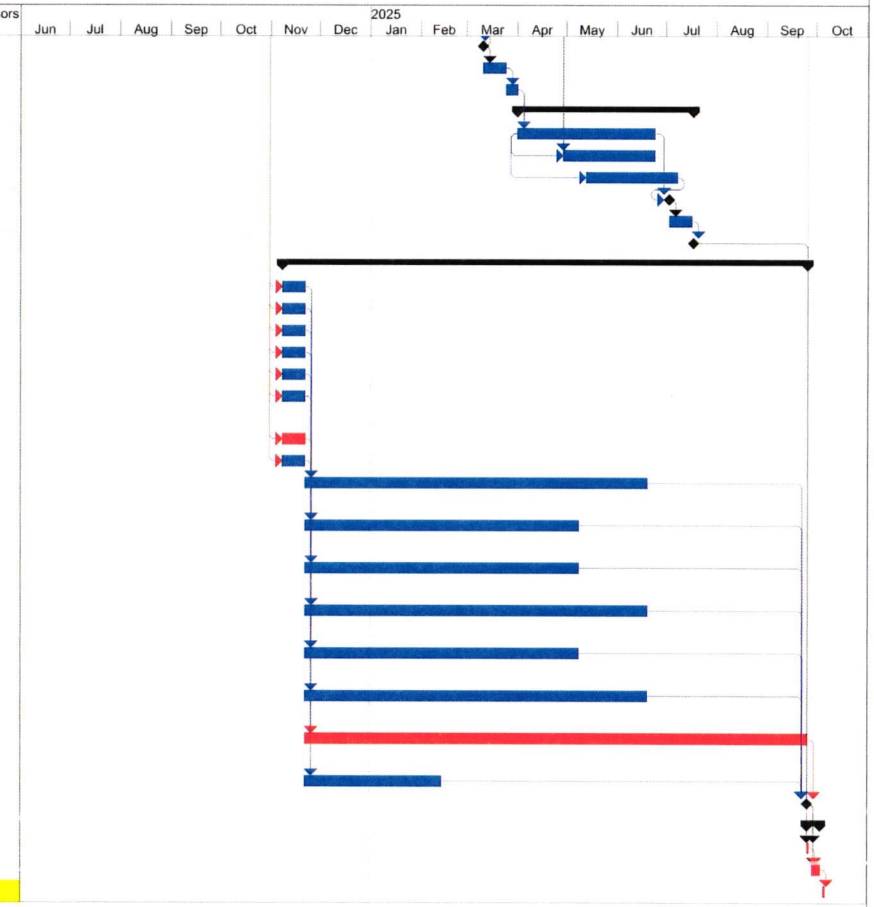


Project: MDX 83618-009.013
Date: Wed 5/1/24

Task	Rolled Up Critical Task	Project Summary	Duration-only	External Tasks			
Critical Task	Rolled Up Milestone	Group By Summary	Manual Summary Rollup	External Milestone			
Milestone	Rolled Up Progress	Inactive Milestone	Manual Summary	Progress			
Summary	Split	Inactive Summary	Start-only	Deadline			
Rolled Up Task	External Tasks	Manual Task	Finish-only				

Drainage and Pump Station Improvements for Harbor Island Phase 1

ID	Task Name	Duration	Start	Finish	Predecessors
41	90% Plans Submittal	1 day	Mon 3/10/25	Mon 3/10/25	40
42	Village Review of 60% Plans	10 days	Tue 3/11/25	Mon 3/24/25	41
43	Respond to 90% Review Comments	5 days	Tue 3/25/25	Mon 3/31/25	42
44	100% DESIGN AND PLANS	78 days	Tue 4/1/25	Thu 7/17/25	
45	Prepare 100% Roadway Plans	60 days	Tue 4/1/25	Mon 6/23/25	43
46	Final Drainage, Electrical and Structure Reports	40 days	Tue 4/29/25	Mon 6/23/25	45SS+20 days,8
47	Prepare 100% plans	40 days	Tue 5/13/25	Mon 7/7/25	45SS+30 days
48	Update Cost Estimate	2 days	Tue 7/1/25	Wed 7/2/25	45FS-5 days,47FS-5 days
49	QA/QC of 100% Plans and Implementation	10 days	Thu 7/3/25	Wed 7/16/25	48
50	100% plans and documents, and Final Plans Submittal	1 day	Thu 7/17/25	Thu 7/17/25	49
51	PERMITTING	230 days	Fri 11/8/24	Thu 9/25/25	
52	Prepare and Submit Miami Dade County DERM Class II Permit	10 days	Fri 11/8/24	Thu 11/21/24	29FS-20 days
53	Prepare and submit South Florida Water Management District ERP Permit	10 days	Fri 11/8/24	Thu 11/21/24	29FS-20 days
54	Prepare and submit Florida Department of Environmental Protection (FDEP) Class V Permit	10 days	Fri 11/8/24	Thu 11/21/24	29FS-20 days
55	Prepare and submit Miami Dade County DERM Class I Permit	10 days	Fri 11/8/24	Thu 11/21/24	29FS-20 days
56	Prepare and submit South Florida Water Management District Individual Permit	10 days	Fri 11/8/24	Thu 11/21/24	29FS-20 days
57	Prepare and submit Florida Department of Environmental Protection – Sovereign Submerged Lands Easement	10 days	Fri 11/8/24	Thu 11/21/24	29FS-20 days
58	Prepare and submit U.S. Army Corps of Engineers - Section 10 Permit	10 days	Fri 11/8/24	Thu 11/21/24	29FS-20 days
59	Prepare and submit Village Buidling Permit	10 days	Fri 11/8/24	Thu 11/21/24	29FS-20 days
60	Receive, implement comments, resubmit and get approval for Miami Dade County DERM Class II Permit	150 days	Fri 11/22/24	Thu 6/19/25	52
61	Receive, implement comments, resubmit and get approval for South Florida Water Management District ERP Permit	120 days	Fri 11/22/24	Thu 5/8/25	53
62	Receive, implement comments, resubmit and get approval for Florida Department of Environmental Protection (FDEP) Class V Permit	120 days	Fri 11/22/24	Thu 5/8/25	54
63	Receive, implement comments, resubmit and get approval for Miami Dade County DERM Class I Permit	150 days	Fri 11/22/24	Thu 6/19/25	55
64	Receive, implement comments, resubmit and get approval for South Florida Water Management District Individual Permit	120 days	Fri 11/22/24	Thu 5/8/25	56
65	Receive, implement comments, resubmit and get approval for Florida Department of Environmental Protection – Sovereign Submerged Lands Easement	150 days	Fri 11/22/24	Thu 6/19/25	57
66	Receive, implement comments, resubmit and get approval for U.S. Army Corps of Engineers - Section 10 Permit	220 days	Fri 11/22/24	Thu 9/25/25	58
67	Receive, implement comments, resubmit and get approval for Village Buidling Permit	60 days	Fri 11/22/24	Thu 2/13/25	59
68	All Permits Cleared and Certified	0 days	Thu 9/25/25	Thu 9/25/25	60,61,62,63,64,65,66,67
69	PRODUCTION PACKAGE	6 days	Fri 9/26/25	Fri 10/3/25	
70	Signed and Sealed Plans and Reports	1 day	Fri 9/26/25	Fri 9/26/25	50,15,68
71	Prepare Contract Package	5 days	Mon 9/29/25	Fri 10/3/25	70,68
72	Submit Contract Package & Specs Package	1 day	Mon 10/6/25	Mon 10/6/25	71



Project: MDX 83618-009.013
Date: Wed 5/1/24

Task	Rolled Up Critical Task	Project Summary	Duration-only	External Tasks			
Critical Task	Rolled Up Milestone	Group By Summary	Manual Summary Rollup	External Milestone			
Milestone	Rolled Up Progress	Inactive Milestone	Manual Summary	Progress			
Summary	Split	Inactive Summary	Start-only	Deadline			
Rolled Up Task	External Tasks	Manual Task	Finish-only				

Exhibit D – Subconsultant HRES (Geotechnical)

PRICE PROPOSAL FOR GEOTECHNICAL SERVICES: 2 SPT BORINGS, FROM 50 TO 70 FEET FOR THE PROPOSED PUMP STATION, EMERGENCY GENERATOR PAD AND SEAWALL IMPROVEMENTS AND 4 SPT BORING, FROM 15 TO 20 FEET FOR THE DRAINAGE PIPES

NORTH BAY VILLAGE - DRAINAGE DESIGN FOR HARBOR ISLAND - PHASE 1

NORTH BAY VILLAGE, FLORIDA, RFQ 2023-005

HR ENGINEERING SERVICES, INC. (HRES)

HRES PROJECT No.: HR23-1848R

MAY 3, 2024

We propose the following field exploration for the project:

Proposed Pump Station, Emergency Generator Pad, Drainage Pipe, and Existing Seawall Improvements - Basic Services

1. Pump Station and Generator Pad - Proposing 1 SPT boring to 70 feet for the pump station (requires this depth to help provide anchors to control buoyancy) and for the seawall improvements. Panels of the existing seawall will be removed to make passage to the new drainage pipe. The reconstruction of the seawall may include new piles. Provide pile capacity: axial and lateral. In addition, a rip-rap protection is proposed along this location. Drainage Pipe Along E. Drive - Proposing 4 SPT borings: 2 to 20 feet and 2 to 15 feet along the proposed drainage pipes. The borings will be used to provide soil parameters for temporary retaining walls, particularly for the 84" diameter truckline. Generator Pad - Proposing 1 SPT boring to 50 feet for the generator foundation support. We are assuming that there is access to our truck-mounted drilling drill rig at each boring location.

2. We are assuming that a permit from North Bay Village may be required. We are assuming a permit fee of $500 to be included in this proposal - HRES will spend what is requested by the Village if required. There may be other fees charged for permit review not included in this proposal and have to be paid (unless waived) before obtaining the final permit to start working. Lane closures are required for the work performed along E. Drive. Since the roadway only has two lanes, the services of two flagmen are required to provide vehicular mobility while performing the borings. HRES will contact One Call Sunshine. There may be other underground utilities not located by Sunshine. These underground utilities to be located by North Bay Village before starting drilling.

Reporting

Pump Station, Generator Pad, Seawall Improvements, and Drainage Pipes - Provide a geotechnical report that includes foundation recommendations for the support of the pump station, elevated pump station generator, seawall reconstruction, and drainage pipes.

Deep Well SPT Boring to 100 feet - Optional Services -This proposal also provides the cost of performing 1 SPT boring to 100 feet for the proposed deep wells. The cost of this effort is separated from the basic services. In addition, we will provide a statement to be used for the Reasonable Assurance Report (RAR) in conjunction with the environmental laboratory testing and the performance of one deep well SPT boring to 100 feet in case the optional services are approved.

	UNITS	# OF UNITS	UNIT RATE	TOTAL $
1. TRAFFIC CONTROL AND FIELD EXPLORATION: 2 SPT BORINGS TO 15 FEET AND 2 SPT BORINGS TO 20 FEET (DRAINAGE PIPES), 1 SPT BORING TO 70 FEET (PUMP STATION AND SEAWALL), 1 SPT BORING TO 50 FEET (GENERATOR PAD)				
1.1a) Cones, Arrow Boards, Barricades: FDOT Index 612, 613: to conduct borings along E. and W. Drive - Need lane closures. Drilling a total of 70 feet, 1.5 days of barricades.	day	1.5	$300.00	$450.00

NORTH BAY VILLAGE - DRAINAGE DESIGN FOR HARBOR ISLAND - PHASE 1

NORTH BAY VILLAGE, FLORIDA, RFQ 2023-005

HR ENGINEERING SERVICES, INC. (HRES)

HRES PROJECT No.: HR23-1848R

MAY 3, 2024

1.1b) Require flagmen to provide lane closure support since the roadway has two lanes. The work may take 1.5 days. Need two flagmen: 8 hours each/day=16 hours. 1.5 days, 16x1.5=24 hours. $24x2.85=$68.40/hour.	hour	24	$68.40	$1,641.60
1.2) SPT Borings 0-50 feet: 2 SPT borings to 15 feet (30 feet), 2 SPT borings to 20 feet (40 feet), 1 SPT boring to 50 feet, 1 SPT boring to 70 feet. A total of 30'+40'+50'+50'= 170 feet.	feet	170	$15.00	$2,550.00
1.3) SPT Borings 50-100 feet: second 20 feet of the 70 ft. boring: 1x20'=20 feet	feet	20	$17.00	$340.00
1.4) Temporary Casing 0'-50'= 170 feet	feet	170	$7.00	$1,190.00
1.5) Temporary Casing 50'-100'= 20 feet	feet	20	$7.50	$150.00
1.6) Borehole Closing after boring performance: 190 feet	feet	190	$6.50	$1,235.00
1.7) Rig Mobilizations	each	2	$450.00	$900.00
1.8) Organic Content Tests: 6 boreholes: 6 tests	each	6	$57.32	$343.92
1.9) Fines Content Tests: 6 boreholes: 6 tests	each	6	$51.59	$309.54
1.10) Sieve analyses: 3 tests	each	3	$73.37	$220.11
TOTAL FOR FIELD INVESTIGATION				***$9,330.17***

2. TECHNICIAN SERVICES AND ENGINEERING FOR REPORTING: BASED ON APPROVED LOADED RATES

2.1) Staff Engineer to obtain working permits and utility coordination. Estimating 10 hours. Juan Valencia	hour	10	$120.98	$1,209.80
2.2) Staff Engineer for boring layout, underground utilities. Juan Valencia	hour	4	$120.98	$483.92
2.3) Staff Geotechnical Engineer for project support. Chollada Soonyakanit, EI	hour	20	$101.40	$2,028.00
2.4) Staff Geotechnical Engineer for drafting borings. Abraham Oliveira, EI	hour	10	$87.84	$878.40
2.5) Geotechnical Engineer for report preparation. Chatuphat Savigamin, PE	hour	15	$123.32	$1,849.80
2.6) Principal Geotechnical Engineer for report review, QA/QC. Hernando R. Ramos, PE	each	8	$272.46	$2,179.68
TOTAL TECHNICIAN SERVICES AND ENGINEERING				***$8,629.60***

TOTAL FOR FIELD INVESTIGATION - BASIC SERVICES				***$17,959.77***

Permit Fees - Estimated amount - Optional. We will charge for the actual amount after obtaining the permits. This fee doesn't include other charges or final permit fees after document review by the North Bay Village.	*each*	*1*	*$500.00*	*$500.00*

NORTH BAY VILLAGE - DRAINAGE DESIGN FOR HARBOR ISLAND - PHASE 1

NORTH BAY VILLAGE, FLORIDA, RFQ 2023-005

HR ENGINEERING SERVICES, INC. (HRES)

HRES PROJECT No.: HR23-1848R

MAY 3, 2024

3. FIELD EXPLORATION FOR DEEP WELL BORING DRILLED TO 100 FEET - SALINITY TESTING NOT INCLUDED OPTIONAL SERVICES

3.1) SPT Borings 0-50 feet: 1 SPT boring to 100 feet, drilling the first 50 feet	feet	50	$15.00	$750.00
3.2) SPT Borings 5-100 feet: 1 SPT boring to 100 feet, drilling the second 50 feet	feet	50	$17.00	$850.00
3.3) Temporary Casing 0'-50'= 50 feet	feet	50	$7.00	$350.00
3.4) Temporary Casing 50'-100'= 50 feet	feet	50	$7.50	$375.00
3.5) Borehole Closing after boring performance: 100 feet	feet	100	$6.50	$650.00
3.6) Rig Mobilization: if not conducted with the other boreholes	each	1	$450.00	$450.00
3.7) Drafting: 5 hours	hour	5	$87.84	$439.20
3.8) Boring Report	hour	5	$101.40	$507.00
4.9) Estimate budget for environmental laboratory testing, including salinity and Total Dissolved Solids and Chloride testing	each	1	$6,000.00	$6,000.00
TOTAL FOR FIELD INVESTIGATION - OPTIONAL SERVICES				***$10,371.20***

HR ENGINEERING SERVICES, INC. 7815 NW 72 Ave. - Medley, FL 33166

Hernando R. Ramos

Hernando R. Ramos, PE
Principal Geotechnical Engineer/President

Exhibit E – Subconsultant CHA (Electrical and Structural)

Exhibit E – CHA Scope of Services and Fee Estimate

CHA has been retained by Ribbeck Engineering, Inc. to provide structural and electrical engineering services. The scope of work includes the structural engineering analysis and plans for the seawall retrofit in order to accommodate the new pump station outfall structure and other pump station components. The scope also includes the electrical engineering analysis and design for the pump station.

The Scope of Work is comprised of the following essential tasks:

Task 1 – Project Coordination & Data Collection
Task 2 – 30% Design Submission
Task 3 – 60% Design Submission
Task 4 – 90% Design Submission
Task 5 – 100% Design Submission
Task 6 – Permitting

Task 1 – Project Coordination & Data Collection (Time & Material)

- Electrical power coordination with FPL
- Coordination with North Bay Village for Seawall requirements.
- Attendance at kick-off meeting Field visit to project site.
- Evaluation of electrical equipment layout configuration to minimize pump station footprint.
- Gather existing site information and design standards.

Task 2 - 30% Design Submission (Lump Sum)

- Electrical service for this pump station with be coordinate with FPL based on the calculated load and location. Also, to withstand utility available fault current and design the service according to the utility standards. Tentatively we are evaluating a 480V, three phase, 4 wire system. Final voltage will be stated once coordination takes place.
- Install main disconnect safety switch with fuses sized as per previous mentioned load calculation.
- Stand-by generator set will be provided if the owner requires it. Also, an Automatic Transfer Switch (ATS) will be provided allowing the power transfer between normal power and emergency.
    - Our design includes a "Pump Motor Control Panel" with normal power and emergency circuit breakers which will be mechanically interlocked. For a back-up electrical system, the above-mentioned emergency circuit breaker will be connected to a special receptacle which will be available for a portable generator.
    - Pump motor connection boxes will be provided to make the transition from the wet well which is a classified area to a non-classified area.
    - Wiring, raceway and grounding system.
    - Terminal blocks in control panel to be interconnected with terminal cable from RTU and terminal cable in control panel if this type of monitoring and control of the pump station is required will be provided.
    - Dry type transformer 480/240-120 VAC to be installed outside the control panel to feed low voltage miscellaneous loads.

- Control Panel suitable to be serviced entrance rated.
- Size of conduit and grounding conductor shall be upgraded as required by NEC code.
- Appropriate working and maintenance clearances shall be observed for all new electrical equipment as required by NEC code.
- The multi-conductor cables from the submersible pumps shall be cable cord fitting with gland nut and neoprene bushing at the pump motor connection box.
- Wet well is a Class I Division I Group D Hazardous Location. Seal off shall comply with NEC.
- The motor rated Horsepower shall be adequate such that the pump is not overloading at any point in the performance curve from shut-off through run-out.

- Structural services for this pump station include structural general notes, structural design, and detailing of wet well and valve vault. Structural design will be performed and in compliance with the latest design guidelines from the Florida Building Code.
- Buoyancy calculations for the wet well structure and requirements for the bottom slab design.
- Structural Pad design for electrical equipment and miscellaneous structural slab detailing and design.
- Design and detailing for Pump Station enclosure as required.
- Structural design and detailing for the outfall installation and retrofit of an existing seawall. Structural notes and retrofit design of the seawall and seawall cap details using existing as-built plans.

Deliverables: The following deliverables shall be provided under Task 2:

- Three (3) original sets of the 30% design package (11" x 17" plan sheets), together with one (1) electronic copy.

Task 3 - 60% Design Submission (Lump Sum)

- The CONSULTANT shall incorporate the review comments from the 30% design submission in the 60% plans submission. The 60% design submission shall include, at a minimum, the following:
  - Responses to draft 30% submittal
  - Plan sheets, including but not limited to the following sheets (the following plan listing is anticipated based on the Scope of Work:
    - E-1 Electrical General Notes
    - E-2 Electrical Site Plan and Notes
    - E-3 Power/Control and Wiring Schedule
    - E-4 Electrical Control Panel and Details
    - E-5 RTU Installation Wiring Diagrams
    - S-1 Structural General Notes
    - S-2 Pump Station Wet Well and Valve Vault Structural Details
    - S-3 Structural Concrete Pad Details for Electrical Equipment
    - S-4 Structural Details for Pump Station enclosure
    - S-5 Sea Wall General Notes
    - S-6 Sea Wall Site Plan
    - S-7 Sea Wall – Wall Control Drawings
    - S-8 Sea Wall – Structural Details

        - S-9 Sea Wall – Reinforcing Bar Schedule
    - Attendance to submittal review meeting

Deliverables: The following deliverables shall be provided under Task 3:

- Three (3) original sets of the 60% design package (11" x 17" plan sheets), together with one (1) electronic copy.
- Structural and electrical report calculations.

Task 4 - 90% Design Submission (Lump Sum)

- The CONSULTANT shall incorporate the review comments from the 60% design submission in the 90% design submission. The 90% design submission shall include, at a minimum, the following:
    - Responses to 60% submittal
    - Plan sheets, including but not limited to the following sheets (the following plan listing is anticipated based on the Scope of Work:
        - E-1 Electrical General Notes
        - E-2 Electrical Site Plan and Notes
        - E-3 Power/Control and Wiring Schedule
        - E-4 Electrical Control Panel and Details
        - E-5 RTU Installation Wiring Diagrams
        - S-1 Structural General Notes
        - S-2 Pump Station Wet Well and Valve Vault Structural Details
        - S-3 Structural Concrete Pad Details for Electrical Equipment
        - S-4 Structural Details for Pump Station enclosure
        - S-5 Sea Wall General Notes
        - S-6 Sea Wall Site Plan
        - S-7 Sea Wall – Wall Control Drawings
        - S-8 Sea Wall – Structural Details
        - S-9 Sea Wall – Reinforcing Bar Schedule
- Attendance to submittal review meeting. The CONSULTANT shall submit the plans, and specifications for VILLAGE review. The design drawings shall be submitted in 11" x 17" plan sheets. The VILLAGE shall provide comments to the CONSULTANT within twenty (20) business days of receiving the submittal.
- The CONSULTANT shall attend one (1) coordination meeting with the VILLAGE to address review comments. CONSULTANT shall prepare the agenda, record and submit meeting minutes.
- The CONSULTANT shall provide an updated schedule in Microsoft Project as part of this submittal package for VILLAGE review and approval.
- The CONSULTANT shall prepare a construction cost estimate and make the changes to the design if needed to have it within the proposed budget.

Deliverables: The following deliverables shall be provided under Task 4:

- Three (3) original sets of the 90% design package (11" x 17" plan sheets), one (1) electronic copy.
- One (1) copy of the meeting minutes.

- One (1) copy of updated project schedule.
- One (1) copy of the construction cost estimate.

Task 5 – 100% Design Submission (Lump Sum)

- The CONSULTANT shall incorporate the review comments from 90% design submission in the 100% design submission. The 100% design submission shall be complete.
- The CONSULTANT shall submit the 100% design submission for VILLAGE review. The design drawings shall be submitted in 11" x 17" plan sheets. The VILLAGE shall provide comments to the CONSULTANT within 10 business days of receiving the submittal.
- The CONSULTANT shall attend one (1) coordination meeting with the VILLAGE to address review comments. CONSULTANT shall prepare the agenda, record and submit meeting minutes.
- The CONSULTANT shall provide an updated schedule in Microsoft Project as part of this submittal package for VILLAGE review and approval.
- The CONSULTANT shall prepare a construction cost estimate, and make the changes to the design if needed to have it within the proposed budget.
- Once all comments are addressed, or if no comments or corrections are necessary, the CONSULTANT shall submit the Final Plans and Specifications, and any other document required for a complete design.by the VILLAGE. CONSULTANT shall provide three (3) original signed and sealed sets of the Final Design Package (24" x 36" plan sheets), together with an electronic copy.

Deliverables: The following deliverables shall be provided under Task 5:

- Three (3) original sets of the 100% design package (11" x 17" plan sheets), together with an electronic copy.
- Three (3) original sets, signed and sealed of the Final Plans and Specifications 100% design package (24" x 36" plan sheets), together with one (1) electronic copy.

Task 6 - Permitting (Time & Materials)

- Electrical and structural permit to from the VILLAGE to construct the pump station structure and panel.

Task 7 - Bidding Services (Time & Materials)

- The CONSULTANT shall assist the VILLAGE in preparing the bid documents, including incorporating the VILLAGE's front-end documents.
- The CONSULTANT shall attend the pre-bid meeting. The CONSULTANT shall respond to questions from prospective bidders.
- The CONSULTANT shall provide supplemental information to prospective bidders as required during the bidding process through the issuance of addenda
-

The fee estimate can be found in the following page.

Harbor Island Phase 1	Structural and Electrical Services - Subconsultant CHA - Lumps Sum																				
Position	Name & (Company)	Labor Multiplier [1]	Hourly Rate [2]	Loaded Hourly Rate [1x2]	Contract Max. Rate	Task 1 - Project Coordinatoin & Data Collection		Task 2 - 30% Design		Task 3 - 60% design		Task 4 - 90% design		Task 5 - 100% design		Task 6 - Permitting		Task 7 - Bid Support		Total Labor	Costs
Consultant			$	$	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hours	$
	Electrical																				
SENIOR PROJECT ENGINEER	Eduardo Martinez (CHA)	2.90		0.00	230.00			3	$ 575.00	3	$ 575.00	3	$ 575.00	3	$ 575.00					10	$2,300.00
SENIOR PROJECT ENGINEER	Mony Manoyrine (CHA)	2.90		0.00	230.00			8	$ 1,886.00	8	$ 1,886.00	8	$ 1,886.00	8	$ 1,886.00					33	$7,544.00
PROJECT ENGINEER	David Sigler (CHA)	2.90		0.00	190.00			9	$ 1,662.50	7	$ 1,330.00	7	$ 1,330.00	7	$ 1,330.00					30	$5,652.50
DESIGNER	Leonardo Sempe (CHA)	2.90		0.00	135.00			19	$ 2,598.75	17	$ 2,227.50	17	$ 2,227.50	11	$ 1,485.00					63	$8,538.75
CADD	Evelin Ramos (CHA)	2.90		0.00	115.00			25	$ 2,817.50	21	$ 2,415.00	21	$ 2,415.00	21	$ 2,415.00					87.5	$10,062.50
	Sub-totals							**63**	**$9,539.75**	**55**	**$8,433.50**	**55**	**$8,433.50**	**50**	**$7,691.00**					223	**$34,097.75**
	Structural																				
SENIOR PROJECT ENGINEER	Jim Aitken (CHA)	2.90		0.00	230.00			0	$ -	2	$ 460.00	2	$ 460.00	2	$ 460.00					6	$1,380.00
SENIOR PROJECT ENGINEER	Adrian Alfonso (CHA)	2.90		0.00	230.00			8	$ 1,840.00	8	$ 1,840.00	8	$ 1,840.00	8	$ 1,840.00					32	$7,360.00
PROJECT ENGINEER	Nicolas Fernandez (CHA)	2.90		0.00	190.00			20	$ 3,800.00	60	$ 11,400.00	20	$ 3,800.00	10	$ 1,900.00					110	$20,900.00
CADD	Pablo Artega (CHA)	2.90		0.00	115.00			40	$ 4,600.00	80	$ 9,200.00	40	$ 4,600.00	20	$ 2,300.00					180	$20,700.00
	Sub-totals							**68**	**$10,240.00**	**150**	**$22,900.00**	**70**	**$10,700.00**	**40**	**$6,500.00**					328	**$50,340.00**
	Task Sub-totals					**0**	**$0.00**	**131**	**$19,779.75**	**205**	**$31,333.50**	**125**	**$19,133.50**	**90**	**$14,191.00**	**0**	**$0.00**	**0**	**$0.00**		**$84,437.75**

Summary of Reimbursable Expenses							
Units	No. of		$/Unit				Total
Reimbursables Allowance							$0.00
							$0.00
							$0.00
						Reimbursable Expense	**$0.00**

Total **$84,437.75**

Harbor Island Phase 1	Structural and Electrical Services - Subconsultant CHA - Time & Materials																				
Position	Name & (Company)	Labor Multiplier [1]	Hourly Rate [2]	Loaded Hourly Rate [1x2]	Contract Max. Rate	Task 1 - Project Coordinatoin & Data Collection		Task 2 - 30% Design		Task 3 - 60% design		Task 4 - 90% design		Task 5 - 100% design		Task 6 - Permitting		Task 7 - Bid Support		Total Labor	Costs
Consultant			$	$	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hours	$
	Electrical																				
SENIOR PROJECT ENGINEER	Eduardo Martinez (CHA)	2.90		0.00	230.00	3	$ 575.00									1	$ 287.50	2	$ 460.00	6	$1,322.50
SENIOR PROJECT ENGINEER	Mony Manoyrine (CHA)	2.90		0.00	230.00	4	$ 943.00									2	$ 471.50	0	$ -	6	$1,414.50
PROJECT ENGINEER	David Sigler (CHA)	2.90		0.00	190.00	4	$ 665.00									2	$ 332.50	3	$ 570.00	8	$1,567.50
DESIGNER	Leonardo Sempe (CHA)	2.90		0.00	135.00	6	$ 742.50									6	$ 742.50	3	$ 405.00	14	$1,890.00
CADD	Evelin Ramos (CHA)	2.90		0.00	115.00	7	$ 805.00									7	$ 805.00	0	$ -	14	$1,610.00
			Sub-totals			**23**	**$3,730.50**									**18**	**$2,639.00**	**8**	**$1,435.00**	48	**$7,804.50**
	Structural																				
SENIOR PROJECT ENGINEER	Jim Aitken (CHA)	2.90		0.00	230.00		$ -										$ -		$ -	0	$0.00
SENIOR PROJECT ENGINEER	Adrian Alfonso (CHA)	2.90		0.00	230.00	8	$ 1,840.00									4	$ 920.00	2	$ 460.00	14	$3,220.00
PROJECT ENGINEER	Nicolas Fernandez (CHA)	2.90		0.00	190.00	10	$ 1,900.00									4	$ 760.00	3	$ 570.00	17	$3,230.00
CADD	Pablo Artega (CHA)	2.90		0.00	115.00		$ -									4	$ 460.00	3	$ 345.00	7	$805.00
			Sub-totals			**18**	**$3,740.00**									**12**	**$2,140.00**	**8**	**$1,375.00**	38	**$7,255.00**
			Task Sub-totals			**41**	**$7,470.50**	**0**	**$0.00**	**0**	**$0.00**	**0**	**$0.00**	**0**	**$0.00**	**30**	**$4,779.00**	**16**	**$2,810.00**		**$15,059.50**

Summary of Reimbursable Expenses							
Units	No. of		$/Unit				Total
Reimbursables Allowance							$0.00
							$0.00
							$0.00
						Reimbursable Expense	**$0.00**

Total **$15,059.50**

Exhibit F – Subconsultant WGI (Environmental Permitting)

Exhibit F – WGI Scope of Services and Fee Estimate

WGI has been retained by Ribbeck Engineering, Inc. to perform the environmental data collection and to handle the following environmental permits:

- Miami Dade County DERM Class I Permit
- South Florida Water Management District Individual Permit
- Florida Department of Environmental Protection – Sovereign Submerged Lands Easement
- U.S. Army Corps of Engineers - Section 10 Permit

The Scope of Work is comprised of the following essential tasks:

Task 1 – Project Coordination & Data Collection

Task 6 – Permitting

Task 1 – Project Coordination & Data Collection (Time & Materials)

- Conduct a benthic resource survey of the area of seawall to be replaced and submerged bottom area immediately waterward of the seawall/rip-rap at the proposed outfall location. Document findings in a report/memorandum to be included with regulatory applications.
-

Deliverables: The following deliverables shall be provided under Task 1:

- Benthic Resources Survey & Memorandum of Findings

Task 6 - Permitting (Time & Materials)

- The CONSULTANT shall apply for all required permits from the VILLAGE, regulatory agencies, and authorities having jurisdiction, for this project. Environmental/regulatory permits required include:
    - Miami Dade County DERM Class I Permit
    - South Florida Water Management District Individual Permit
        - Florida Department of Environmental Protection – Sovereign Submerged Lands Easement
    - U.S. Army Corps of Engineers - Section 10 Permit
- The CONSULTANT shall respond to all permit comments from the VILLAGE, regulatory agencies, or authorities having jurisdiction.
- The CONSULTANT shall attend permit meetings with VILLAGE, regulatory agencies, and authorities having jurisdiction, record and prepare meeting minutes, and provide documentation to the VILLAGE.
- The CONSULTANT is responsible for determining which permits are required and which agencies are applicable to the project.
- Payment of application and permit will be handled by the VILLAGE. The CONSULTANT staff will request checks from the VILLAGE prior to the submittal of permit applications to cover any associated fees.

The fee estimate can be found in the following page.

Harbor Island Phase 1	Environmental Services - Subconsultant WGI - (T&M)																				
Position	Name & (Company)	Labor Multiplier [1]	Hourly Rate [2]	Loaded Hourly Rate [1x2]	Contract Max. Rate	Task 1 - Project Coordinatoin & Data Collection		Task 2 - 30% Design		Task 3 - 60% design		Task 4 - 90% design		Task 5 - 100% design		Task 6 - Permitting		Task 7 - Bid Support		Total Labor	Costs
Consultant			$	$	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hrs	$	Hours	$
Senior Environmental Specialist	Greg Griffith - WGI	2.90	70.91	205.64	205.64	4	$ 822.56		$ -		$ -		$ -		$ -	12	$ 2,467.68		$ -	16	$3,290.24
Environmental Specialist	Amanda Montgomery - WGI	2.90		0.00	108.00	16	$ 1,728.00		$ -		$ -		$ -		$ -	236	$ 25,488.00		$ -	252	$27,216.00
			Sub-totals			**20**	**$2,550.56**	**0**	**$0.00**	**0**	**$0.00**	**0**	**$0.00**	**0**	**$0.00**	**248**	**$27,955.68**	**0**	**$0.00**	268	**$30,506.24**
			Task Sub-totals				**$2,550.56**		**$0.00**		**$0.00**		**$0.00**		**$0.00**		**$27,955.68**		**$0.00**		**$30,506.24**

Summary of Reimbursable Expenses				
Units	No. of		$/Unit	Total
Reimbursables Allowance				$0.00
			Reimbursable Expense	**$0.00**

Total **$30,506.24**

EXHIBIT "D"

Budget Amendment Form

Department : Stormwater Capital	Date: 6/11/2024
Fund(s) to be changed: Stormwater Capital Fund	

GL Account	GL Line Item	Project #:	Transfer to:	Transfer from:
340.36.538.6307	HI Project Pkg 1 (PS & Outfall)	SW24-01	$ 466,115.86	
340.36.538.6307	TI Project Pkg 1 (PS & Outfall)	SW24-04	$ 133,302.04	
340.00.384.3841	Loan/Debt Proceeds (Line of Credit)			$ 599,417.90
			$ 599,417.90	**$ 599,417.90**

Description:

Increase Stormwater GOB Capital Project Budgets for SW24-01 & SW24-04 - using the SW GOB Line of Credit.

Stormwater GOB Capital Fund

	FY 24 Budget	Actual B&V	Actual B&V	Actual B&V	FY 24 Budget Balance	EXP/CHEN/ RIBBECK	FY 24 Budget Balance
24-01	$ 147,598.00	$ 6,527.99	$ 3,746.46	$ 5,221.41	$ 132,102.14	$ 598,218.00	$ (466,115.86)
24-02	$ 344,294.00	$ 15,240.31	$ 8,746.51	$ 12,189.95	$ 308,117.23		$ 308,117.23
24-03	$ 223,518.00	$ 9,898.09	$ 5,680.58	$ 7,916.97	$ 200,022.36		$ 200,022.36
24-04	$ 540,792.00	$ 23,940.14	$ 13,739.40	$ 19,148.50	$ 483,963.96	$ 617,266.00	$ (133,302.04)
24-05	$ 564,143.00	$ 24,963.65	$ 14,326.80	$ 19,967.15	$ 504,885.40	$ 416,164.00	$ 88,721.40
24-06	$ 407,301.00	$ 18,023.76	$ 10,343.95	$ 14,416.28	$ 364,517.01		$ 364,517.01
24-07	$ 542,500.00	$ 24,015.03	$ 13,782.38	$ 19,208.40	$ 485,494.19		$ 485,494.19
24-08	$ 50,000.00	$ 2,209.28	$ 1,267.92	$ 1,767.09	$ 44,755.71		$ 44,755.71
	$ 2,820,146.00	$ 124,818.25	$ 71,634.00	$ 99,835.75	$ 2,523,858.00	$ 1,631,648.00	$ 892,210.00
				$ 296,288.00			