



EXHIBIT A

Amendment #1 to the Agreement for Professional Services RFQ 2017-030

Engineering Services for Marine Way Seawall and Dock Consulting Services

For

Phase 2 – Design, Engineering, Permitting, Public Outreach, Bid Assistance, and Post Design Services

WGI is pleased to present to the City of Delray Beach (City) our scope of services as outlined in the City of Delray Beach executed agreement Request for Qualifications (RFQ) No. 2017-030. WGI has completed the first scope of services (Phase 1 – Alternative Development Phase). The scope of services and fee schedule contained herein represents the second phase (Phase 2 - Engineering Design and Post Design Services) for the Marine Way Seawall and Dock Project, as approved by the City Commission on October 3rd, 2017.

Description of Improvements

Based on the findings of Phase 1 – Alternative Development of the Marine Way Corridor, WGI will provide the services for the design, permitting, bidding and post design phases for the following improvements: stormwater pump station and collection system, roadway to access the residential lots, seawall, sidewalks, public linear dock, underground utilities, signage, lighting, landscaping and connectivity from Veteran's Park to the City Marina. These services, which are detailed below, include:

Description of Services

A. Project Management and Coordination

1. Coordination of services to be provided to the City during the design, permitting, bidding, and construction phases;
2. Coordinate meetings with City staff, CRA, stakeholders, business owners, and local residential neighborhoods associations and organizations;
3. Present the project to the City Commission. This will assume a total of five public meetings before the City Commission to give updates on the progress of the project and to address questions;
4. Attend meetings with the City staff and WGI's sub-consultants;
5. Quality control for all deliverables to the City;
6. Attend five public outreach meetings; and
7. Prepare monthly progress summary.

B. Structural Engineering Design Services – Seawall and Marginal Dock

1. WGI will provide construction drawings for a concrete seawall and marginal dock along Marine Way, south of Atlantic Avenue in the City of Delray Beach Florida: The seawall will be approximately 600 feet long extending north from the north terminus of the Delray Marina to the southern extent of the Atlantic Avenue Bridge. The seawall will consist of concrete king and batter piles, concrete sheet panels, and a concrete cap. The seawall (which incorporate a cap elevation consistent with that of Veteran's Park and the City Marina seawall) will also include a marginal dock that will consist of concrete piles, wood bent boards, wood stringers, and wood decking boards. The marginal dock will run the entire length of the concrete seawall;
2. WGI will attend up to four progress meetings with the City of Delray Beach;
3. WGI will provide four submittals, 60%, 90%, 100%, and final;
4. WGI will provide an Engineer's Opinion of Probable Construction Cost (EOPCC) with each submittal milestone; and
5. WGI will review the seawall's construction materials for any cost saving measures as needed.

C. Environmental Permitting Review and Analysis

WGI will provide environmental permitting assistance and coordination for the design and construction of the Marine Way Seawall and Dock as well as the Stormwater Pump stations. WGI will also assist the City with the permitting to dredge the City Marina. Additionally, WGI is including permitting assistance for the private dock owners on an as needed basis.

1. Marine Way Seawall and Dock:
 - a. Prepare a Florida Department of Environmental Protection (FDEP) Environmental Resource Permit (ERP) application for the seawall and marginal dock;
 - b. Prepare a U.S. Army Corps of Engineers (USACE) Section 10 Permit application for the seawall and marginal dock;
 - c. Coordinate with USACE on Consent to Easement;
 - d. Respond to requests for additional information; and
 - e. Conduct submerged aquatic resource survey for the proposed dredging footprint and produce required exhibits.
2. City Marina Dredging:
 - a. Prepare FDEP ERP application for the proposed City Marina project's dredging;
 - b. Prepare USACE Section 10 Permit application for the City Marina project's dredging;
 - c. Respond to requests for additional information for environmental permits; and
 - d. Conduct a submerged aquatic resource survey for the proposed dredging footprint and produce the required exhibits;

3. Permitting Assistance for Private Docks (as needed):
 - a. Prepare FDEP ERP application on behalf of each of the six adjacent property owners;
 - b. Prepare USACE Section 10 Permit application for each of the six adjacent property owners;
 - c. Coordinate with USACE for private dock Consent to Easement; and
 - d. Respond to requests for additional information for environmental permits required for each dock.

D. Stormwater Analysis

WGI will model one current tidal/land use condition and one future tidal/land condition each, for both the existing infrastructure and proposed infrastructure scenario.

1. Update Existing Conditions Model
 - a. Updated existing model with 2016 Digital Elevation Model (DEM) from Palm Beach County;
 - b. Review and update ICPR4 model including the 1D basin stage-area tables and 2D mesh, as necessary;
 - c. Run existing model using existing infrastructure and remap results and future tidal conditions;
2. Design Support – Option 5 Improvements Model
 - a. Modify the existing conditions model to reflect Option 5 improvements;
 - b. Model stormwater model of the three different proposed pipe/pump configurations for the current and future land/tidal use conditions; and
 - c. Provide up to three iterations of pipe/pump configurations with one chosen pipe size will be presented for current and future land//tidal conditions.
3. Permit Support
 - a. Model appropriate storm events for existing and proposed improvements and analyze the results for permitting requirements;
 - b. Produce modeling appendix that summarizes the model inputs and results for permit application documents; and if required
 - c. Evaluate water quality for the Marine Way project and and its contributing drainage area; and
 - d. Provide calculations to examine water quality efficacy of the chosen pipe configuration.

E. Stormwater Pump Design

WGI will provide design services for a stormwater pump station which will generally include: intake wetwell designed to accommodate a total of 3 - 18,000 GPM axial flow electrical submersible pumps; 10-foot diameter collector manhole was sited at the intersection of Marine Way and Lawrence Street; 84-inch pipe run from the collector manhole to the intake wetwell; “treatment train” collection system in front of the intake

wetwell; Three 30-inch discharge pipes with individual backflow prevention devices; Back-up Generator (500 Kw), above ground fuel tank and fuel system; and generator and controls building

1. Attend workshop meeting with City staff (in office) to discuss final design concepts and planned improvements and discuss proposed final location of pump station facilities. The pump station improvements will begin at the collection manhole. Other drainage improvements to re-route outfalls to collection manhole to be designed by WGI. Paving and or other civil improvements will only consist within the areas that are disturbed by construction limits;
2. Perform up to two site meetings with City staff to review proposed improvements and proposal location of improvements;
3. Coordinate locations of existing utilities and utility locates. Incorporate information into drawings. Utility locates will be performed and provided by WGI;
4. Coordinate services of a geotechnical firm to perform additional field investigation and reporting;
5. Develop final conceptual layout and footprint sizing of the proposed improvements for City's review and discussion. Provide an "order of magnitude" EOPCC;
6. Attend one meeting with City to discuss final conceptual layout and construction cost;
7. Perform the hydraulic, mechanical, fuel systems, and immediate site civil design necessary for the suitable construction of the recommended pump station. Services include performing calculations, facility layouts, and coordination between the various engineering disciplines. Develop construction drawings and technical specifications for submission to the City. Prepare and submit contract document progress sets at design intervals for City staff review. Meet with City staff to discuss comments. Incorporate comments. Submittal milestones include 60%, 90%, 100%, and final;
8. Attend permit pre-application meeting with the South Florida Water Management District (District) to discuss project. Prepare and submit an Environmental Resource Permit (ERP) application to the District for project. Respond to up to two RAIs from the District. WGI will coordinate and provide all necessary information regarding WGI Team's drainage modeling efforts; and
9. Provide technical assistance for the U.S. Army Corps of Engineers' (USACE) permit application and RAIs for discharge into the Intracoastal Waterway.

F. Structural Engineering Design Services – Stormwater Pump Station

WGI will provide design services for a concrete stormwater pump station south of Marine Way, located at the North end of the City Marina property. The pump station will be approximately 25-foot long by 30-foot wide and 20-foot deep;

1. WGI will attend up to four progress meetings with the City of Delray Beach;
2. WGI will provide four submittals, 60%, 90%, 100%, and final; and

3. WGI will provide an EOPCC with each submittal milestone.

G. Electrical Design

WGI will provide the design and permitting for the electrical service to the storm water pump station, back-up power and will also design the electrical feed to supply City of Delray Beach standard LED light poles and landscape accent lighting (if requested).

1. Attend design coordination meetings;
2. Prepare 60%, 90%, 100%, and final plans;
3. Prepare electrical specifications for electrical power and lighting systems;
4. Prepare design for electrical distribution, risers, and panels;
5. Prepare EOPCC at each submittal milestone; and
6. Assist in requests for additional information responses.

H. Roadway and Infrastructure Improvements

WGI will provide design and permitting services for the reconstruction of Marine Way and the applicable water, sewer and drainage infrastructure upgrades.

1. Attend design and coordination meetings with the City of Delray Beach;
2. Attend five (5) public meeting including one (1) City Commission meeting;
3. WGI will provide four submittals, 60%, 90%, 100%, and final;
4. WGI will provide an EOPCC with each submittal milestone;
5. Design and coordinate the connection to City Marina;
6. Design and coordinate the connection the Veterans Park;
7. Prepare water and sewer utility adjustment plans;
8. Prepare paving, grading, and drainage plans;
9. Prepare Technical Specifications and assist the City in preparing the ITBC document;
10. Submit FDOT permit application for the wing wall and pathway modifications under the Atlantic Avenue bridge;
11. Submit FDEP permit applications for potable water and waste water; and
12. Prepare finalized cost estimate.

* Services to obtain a consumptive use or dewatering permit for the construction of the storm water pump station is the responsibility of the contractor and not included within this scope of services.

I. Landscape Architecture Construction Documents

WGI will provide design and permitting services for the project which will include plans, details, elevations, and sections necessary to communicate the design intent and construction materials required for construction. The following is a list of deliverables included in this phase of the project:

1. Landscape Plans (in accordance with the City's approved vegetation list);
2. Landscape Plan rendering and proposed materials board;

3. Pedestrian lighting along Marine Way and the Atlantic Avenue bridge connection;
4. Hardscape Plans;
5. WGI will provide four submittals, 60%, 90%, 100%, and final; and
6. WGI will provide an EOPCC with each submittal milestone.

J. Public Outreach and Neighborhood and Stakeholder Meetings (Marina District)

WGI will continue with its Public Outreach efforts for Marine Way to assist the City and the public with information on the project and coordinate with the residents for any issues the residents may have.

1. Update the Public Involvement Plan (PIP) for approval by the City to identify public outreach activities and program goals, objectives, and strategies. The PIP shall recommend approaches to proactively engage stakeholders. The PIP process shall consist of four phases: planning, design, construction, and evaluation. The public outreach activities will vary accordingly in each phase;
2. Update database of property owners from Palm Beach Property Appraiser (for outreach tracking) of affected and interested City residents and businesses within the immediate vicinity, including Palm Square, the Marina Historic District HOA, and Deck 84;
3. Update stakeholder database including public officials (state, county, and municipal), key influencers/stakeholders in the City, and local reporters/journalists (for outreach tracking);
4. Provide resilientdelray.com, the City's micro-site website, updates as necessary;
5. One-on-one interviews with City staff and property owners along Marine Way (maximum of eight meetings, one hour in duration per meeting);
6. Prepare notices and mailers for up to five public meetings;
7. Attend one neighborhood meeting for the Marina Historic HOA to present project design, and four public outreach meetings;
8. Attend four City commission meetings to present the project design and schedule;
9. Prepare presentation materials for neighborhood meetings and City Commission meeting including one plan view rendering, and one cross section rendering, presentation boards, PowerPoint, and comment cards;
10. Prepare 3D model for the improvements along NE 1st Street and Marine Way from the south extents of the City Marina to north extents of Veteran's Park; and
11. Prepare 360-degree visualization model capable of producing still renderings of proposed roadway, seawall, dock, and landscaping from numerous vantage points throughout the project corridor.

K. Bidding Phase

WGI will assist the City of Delray Beach during the bidding of the project to ensure the City is contracting the most qualified bidder on the project. The following is a list of services:

1. Attend one (1) pre-bid meeting;
2. Review and address contractor's requests for information (RFI's) during the bidding process;
3. Review contractor's bid submittals and analyze for conformance and bid acceptance;
4. Conduct due diligence on apparent low bidder;
5. Prepare letter of recommendation/no objection; and
6. Prepare conformed documents for construction.

L. Post Design Services

WGI provide Post Design Services to the City during the construction of the project to ensure the intent and design is constructed per plan and as intended.

1. Attend one preconstruction meeting held by City and construction, engineering and inspection (CEI) consultant;
2. Review Shop Drawings as required;
3. Review and provide clarification for Contractor's RFI's; and
4. Assist CEI in reviewing quantitative pay applications;

Total Fees for Services

\$1,103,622

Prepared By: Stephen Cherry, PE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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