

Tidal Flooding Mitigation and Shoreline Protection

City of Hollywood

DCM-19-001187

SCOPE OF WORK

Cummins Cederberg, Inc. (Consultant) in coordination with its subconsultants developed this addendum Scope of Work for the City of Hollywood (City) to provide the engineering, environmental permitting, and construction phase services for the Tidal Flooding Mitigation and Shoreline Protection Project (Project) to address coastal flooding in areas of North and South Lakes, as well as isolated segments of the barrier island. The scope of work is based on Figure 1 below, which was provided by the City to identify and prioritize 22 Project sites. This addendum scope of work is based on the City letter dated July 5, 2022, providing the approved design elements for each of the 22 Project sites, as well as recent discussions. This addendum scope includes preparation of engineering drawings and environmental permitting for Phase 2 and 3 areas, as well as grant administration services. *This proposal is an addendum to our existing contract.*



Figure 1: Project Areas and Phasing

Task 10 – Field Investigations and Data Collection

10.1 Topographic/Bathymetric Surveying: Topographic and bathymetric surveying will be completed for the Phase 2 and Phase 3 site locations (Sites 1, 6, 7, 8, 11, 12, 13, 14, 15, 16, 18, 20, 21) to supplement the previously completed surveys at the Phase 1 sites. The surveys will serve as the basis for subsequent analysis, planning, design, and regulatory permitting. The surveys will generally extend from the edge of water to approximately 75-feet upland for the topographic portion and from the edge of water to 50-feet waterward for the bathymetric portion, or further upland as site dictates. Elevation transects will be obtained at intervals of approximately 50 feet, including intermediate changes in grade where evident. The surveys will be referenced horizontally to the Florida State Plane Coordinate System (NAD83/11) and vertically to the North American Vertical Datum of 1988 (NAVD88). The surveys will include the following:

- Lot lines and right-of-way lines
- Bridges, walkways, light poles
- Sidewalks, driveways, roadways, and striping
- MHW line to the extent it can be determined
- Property boundaries
- Submerged lands
- Existing shoreline conditions (e.g., seawall, rock slope)
- Visible surface utilities
- Outfalls with invert elevations, pipe sizes, and material, to the extent they can be determined
- Upland drainage structures within the survey limits, including invert elevations, pipe sizes, and material, to the extent they can be determined
- Tree and vegetation outlines denoting DBH, sizes, and common names
- Existing dock footprints or other marine structures along shoreline
- Existing FEMA flood zones

Deliverables: Topographic/Bathymetric Survey (CAD/PDF), Signed and Sealed by Professional Surveyor and Mapper

10.2 Geotechnical Investigations: A geotechnical investigation will be conducted for the Phase 2 and Phase 3 site locations. The subsurface exploration and engineering analyses will provide the foundational recommendations for design and construction of the planned shoreline improvements. The investigations will include a total of 14 Standard Penetration Test (SPT) borings and 6 percolation tests distributed relatively evenly amongst the Phase 2 and Phase 3 Project areas, as specified by the Project Engineer. The borings will be conducted to a depth of approximately 30 feet below grade and 6 percolation tests to a depth of 15 feet below grade. Four of the borings will be drilled to 50 feet along the Intracoastal Waterway at Sites 1, 18, and 21. The SPT borings will be performed in general accordance with ASTM D-1586. The percolation tests will be performed in general accordance with South Florida Water Management District's *Usual Open Hole Procedure*. Prior to commencement of geotechnical investigations, Sunshine One Call

will be contacted for information pertaining to the location of underground utilities. All available information regarding the locations of underground utilities known by the City must be provided prior to commencing this work.

An Engineering Report will be prepared providing:

- Drawings showing boring locations, a boring summary of the subsurface conditions, and boring logs with detailed descriptions of the materials encountered.
- Discussion of generalized subsurface conditions at the sites including groundwater levels and hydraulic conductivities.
- Evaluation from a geotechnical perspective, of the suitability of the sites for the proposed works.
- Discussion of feasible foundation types for the proposed construction.
- Design parameters for the recommended foundation types, including vertical and lateral load resistance.
- Construction considerations including impacts of existing foundations and impacts for adjacent structures.
- Geotechnical soil parameters such as saturated unit weights, passive/active coefficients or internal friction angles, wall friction angles, and cohesion.

Deliverables: Geotechnical Investigation Report (PDF), Signed and Sealed by Professional Engineer

10.3 Mangrove Survey: Coastal wetland/mangrove surveys of the 22 Project sites were conducted in 2021 to support development of conceptual designs. Based on the selected designs, updated coastal wetland/mangrove surveys are required at Sites 3, 9, 10, 17, 19, and 22 to document current conditions and potential impacts of the selected designs on the existing vegetation. Updated surveys will be conducted by biologists experienced in the identification and mapping of mangroves and other important coastal wetland species. The biologists will identify the species and aerial limits of lateral branches and prop roots in key locations within the Project areas. Exotic vegetation along the shoreline will be located, as these areas may be used to provide ecological mitigation.

A coastal wetland survey report will be prepared documenting survey methodology and summarizing the findings of the survey. The report will include representative photographs and a map showing the location of important ecological resources.

Deliverables: Coastal Wetland/Mangrove Survey Report (PDF)

Task 11 – Grant Applications, Processing, and Administration

11.1 Grant Applications, Processing, and Administration: This Task provides budget for grant application preparation, processing, and administration. It is anticipated there may be additional opportunities for grants to fund expanded elements of the Project. In addition, the City was

recently awarded \$14M from the Resilient Florida Implementation Grant, which has extensive administrative compliance obligations and submittal requirements.

Cummins Cederberg will provide consulting services to prepare and process grant applications in support of the Project up to the available budget provided for this task. Funds will also be utilized to prepare grant required documents in support of Resilient Florida Implementation Grant compliance. Cummins Cederberg will confer with the City regarding questions, revisions, and additional items needed in support of grant application packages and grant administration.

Cummins Cederberg will evaluate the proposed scopes of work in relation to the criteria of relevant grants and will confer with City grant administration staff as applicable. Drafts of grant applications packages will be sent to the City for review and approval prior to submittal. The City will provide signed application forms and Cummins Cederberg will provide permit drawings and construction cost estimates, as applicable. Cummins Cederberg will coordinate with the City to develop the application packages and other grant required submittals. Preparation of PowerPoint presentations and meeting attendance, when required, will be provided up to the budget provided for this Task. The budget provided for this Task is anticipated to last approximately two years and includes approximately 656 hours of consulting services.

Deliverables: Grant Payment Requests to include Progress Report Forms and Payment Request Summary Forms; Grant Compliance Documents; Grant Applications for new grants, as identified

Task 12 – Public Outreach

12.1 Additional Educational Materials: The previously developed double sided flyer, presenting a Project overview with potential options for tidal flood barriers, will be updated. An additional flyer will be developed, single or double sided, to detail the tidal flood barriers that are being designed for the various Project sites. A social media kit, providing three (3) posts for social medial platforms, consistent with the City approved outreach plan, will be provided.

Deliverable: Updated Project Overview flier, Project Solutions flier, social media kit providing three posts

12.2 Project Updates: Consultant will provide content for twenty (20) Project updates on regular intervals based on the City approved template. These can be shared with the general public, City staff, and City leadership by the City during Project design and construction. These updates will identify Project progress, present graphics, and promote a transparent process for the community.

Deliverables: Twenty (20) Project updates, Ten (10) meetings related to community outreach and engagement

12.3 Public Meetings / Workshops: Throughout the lifetime of the Project, public meetings will be needed to provide updates, receive feedback, or respond to resident requests. Consultant will assist in the coordination and planning of two (2) public meetings at the appropriate time during

the Project to share designs, permitting progress, construction schedules, and solicit feedback. As with the previous meeting, the audiences for and locations of each meeting will be coordinated with the City. Consultant will assist with the creation of promotional materials, but the City will assist in the promotion of the meetings. Rental fees, translation services, and ADA services, if required, are the sole responsibility of the City. Consultant will provide the meeting outline, schedule, recommendations, and other pertinent information to the City to facilitate planning within six (6) weeks of the scheduled meeting dates.

Consultant will coordinate, present, and facilitate public meetings and will provide input on presentations and handout materials. Consultant will ensure the materials are public-friendly. The City will be responsible for translation and ADA services, if needed. The meetings are anticipated to include representatives from target communities in addition to partners, City leadership, and City staff. Consultant will coordinate and facilitate the two (2) public meetings. The content of the meetings will be coordinated with the City. The format for these meetings will be town hall style where the consultant team and City staff will present the Project updates. Community input will also be solicited from the public at this time to allow the community to share concerns throughout the process. Given the uncertainty around COVID-19, Consultant is prepared to create a digital experience for the public meetings.

Consultant, with input from the City, will be responsible for:

1. Determining public meeting dates
2. Coordination with the local homeowners' association to ensure the meetings are publicized through their distribution lists
3. Researching and securing venues for the meetings
4. Providing content for public meeting flyers and electronic invitations
5. Promoting public meetings, including, but not limited to visiting area businesses to invite, remind and confirm attendance, in addition to promotion via City blogs, social media, and webpage
6. Preparing necessary documentation and equipment for the public meetings (i.e., agenda, name tags, sign-in sheets, comment cards, audio recorder, project handouts)
7. Setting up, staging, and facilitating public meetings
8. Taking meeting minutes
9. Preparing reports to include minutes, comments, and photos of the public meetings
10. Providing electronic and hard copy of Report

As part of all transparent public engagement, participant comments provided, materials presented, notes, and photos will be compiled and provided a Meeting Report that can be used to communicate to both internal City stakeholders and the general public.

Deliverables: Final Report from each of two (2) public meetings.

Task 13 – Cost Estimates

13.1 Phase 2 Cost Estimates: Prepare an Opinion of Probable Cost (OPC) for each Phase 2 Project based on the SD, DD, and CD plans. Site 22, within Holland Park, is being addressed under our existing scope of work and Site 2, within Holland Park, is being addressed under a separate scope of work. The OPCs will be based on Consultant’s best judgment as an experienced and qualified professional generally familiar with the industry. Recent unit price data for similar projects will be incorporated into the OPC. In addition to material costs, the OPC will incorporate line items relevant to the construction cost including mobilization, demobilization, as-built/layout surveys, site restoration, and environmental compliance. Quantities will be calculated based on the proposed quantities shown in the SD, DD, and CD plans, respectively.

13.2 Phase 3 Cost Estimates: Prepare an Opinion of Probable Cost (OPC) for each Phase 3 Project based on the SD, DD, and CD plans. The OPCs will be based on Consultant’s best judgment as an experienced and qualified professional generally familiar with the industry. Recent unit price data for similar projects will be incorporated into the OPC. In addition to material costs, the OPC will incorporate line items relevant to the construction cost including mobilization, demobilization, as-built/layout surveys, site restoration, and environmental compliance. Quantities will be calculated based on the proposed quantities shown in the SD, DD, and CD plans, respectively.

Deliverables: Cost Estimates (PDF)

Task 14 – Environmental, Surface Water, & City Permitting

Environmental regulatory permits or no permit required letters are required by the environmental regulatory agencies, including the USACE, FDEP or SFWMD, and Broward County, for the proposed marine and/or surface water improvements at all Phase 2 and Phase 3 sites. Areas 2 and 22 are being addressed under a separate scope of work. Sites will be grouped as defined below to result in 10 application packages.

The Consultant will prepare comprehensive permit application packages to request USACE, SFWMD or FDEP, and Broward County approvals, as required for the Phase 2 and Phase 3 Project sites. Permit applications will include descriptive cover letters, application forms, completed manatee keys, National Marine Fisheries Service (NMFS) Protected Resource Division (PRD) checklists, permit drawings (SD drawings will be used), and survey reports, as applicable to initiate the permitting process for each group of sites. This scope of services assumes that ecological impacts can be sufficiently avoided and minimized through the design process, or they will be offset by other Project design elements and mitigation design and agency negotiations will not be required.

In addition to the environmental components of the Project, some of the proposed modifications to the existing shorelines and seawalls within the Project limits are expected to require modifications to the existing stormwater infrastructure, replacement of the existing stormwater infrastructure, and/or implementation of new stormwater infrastructure within adjacent right-of-way areas, which will require regulatory permits for surface water management. Previously issued

stormwater permits for the Project sites define peak allowable discharges via the existing outfalls into surrounding surface waters, which can limit the extent of the potential stormwater improvements that can be authorized without modifying the existing structures. Team members will obtain, review, and complete permit applications, and will prepare backup documentation required by the regulatory permitting agencies for the affected sites as required. Surface Water Management applications will be prepared and submitted to the FDEP or SFWMD, Broward County and/or the City as required.

The FDEP or SFWMD Environmental Resource Permits (ERP) will authorize both the shoreline stabilization components and the surface water management components for affected Project sites. The Broward County Environmental Resource Licenses (ERL) will authorize the shoreline stabilization components and Surface Water Management Licenses (SWL) will authorize the surface water management components of the affected Project sites. Additionally, for sites where dewatering is required to support construction activities, Water Use (WU) Permits will provide FDEP or SFWMD authorizations for dewatering.

The USACE, FDEP, SFWMD, and EPGMD permit applications will be processed through the respective agencies to secure Federal, State, and County approval for the Phase 2 and Phase 3 Project sites as required. Broward County has been delegated authorization to issue on behalf of the FDEP, SFWMD, and USACE for certain scopes of work, including some of the Project sites. The Consultant will coordinate with the City and Project team to respond to Requests for Additional Information (RAIs). The Consultant will confer with regulatory agency staff to advise them of the details of the Projects and to address staff comments and RAIs. The Consultant will maintain contact with agency staff to expedite their review and processing of the permit applications to secure regulatory approvals as required for each site.

In addition to the environmental regulatory permits, City Building Permits will be required from the City of Hollywood Building Department. The selected contractor(s) will obtain the City Building Department permit for the proposed improvements. It is anticipated that the Consultant, City Staff, and the selected contractor(s) will collaborate to prepare responses to Requests for Information (RFIs) from the Building Department relative to construction methodology, construction drawings, and structural calculations to aid in the processing of the City Building Permits for the Phase 2 and Phase 3 Projects.

Task 14.1 includes Sites 7, 8, 14, 15, and 16

Task 14.2 includes Site 20

Task 14.3 includes Sites 1 and 18

Task 14.4 includes Sites 11 and 12

Task 14.5 includes Sites 6 and 13

Task 14.6 includes Site 21

Sites 2 and 22 (Being completed under Holland Park contract)

Sites 4 and 5 (Being completed under original contract)

Site 3 (Being completed under original contract)

Sites 9, 10, 17, and 19 (Being completed under original contract)

Deliverables: Permit Applications as required as grouped above

Task 15 – Engineering Design

Areas 2 and 22 are being addressed under a separate scope of work; this scope includes the remaining Phase 2 and Phase 3 sites. Sites will be grouped as defined below to result in 9 sets of plans.

Schematic Design: Update the conceptual designs and prepare Schematic Design (SD) plans in sufficient detail for stakeholder review of the Phase 2 and 3 Project sites. The plans will be prepared in CAD format using industry standards for this type of construction. The SD plans will incorporate the findings from the Field Investigations and Data Collection, Regulatory Due Diligence, and Engineering Analyses completed herein. Geotechnical engineering, coastal engineering, civil engineering, and landscape architecture considerations will be included in the schematic design plans.

Design Development: Update the SD plans and prepare Design Development (DD) plans in sufficient detail for regulatory review of the Phase 2 and 3 Projects sites. The plans will be prepared in CAD format using industry standards for this type of construction. The DD plans will incorporate preliminary engineering design for the waterfront improvements and structures planned for each site (e.g., bulkhead, revetment). Geotechnical engineering, coastal engineering, civil engineering, and landscape architecture considerations will be included in the design development plans.

Final Design: Finalize the DD plans and prepare Construction Document (CD) plans in sufficient detail for construction of the Phase 2 and 3 Projects sites. The plans will be prepared in CAD format using industry standards for this type of construction. The technical specifications will be incorporated into the plans. The plans, technical specifications, and calculations will be signed and sealed by a Florida registered Professional Engineer. Geotechnical engineering, coastal engineering, civil engineering, and landscape architecture considerations will be included in the final design plans. The following drawing sheets are anticipated for each of the nine (9) sets of plans:

- Cover Sheet – Location maps, titles
- General Notes – Specifications, materials, list of abbreviations
- Existing Site Conditions – Topographic survey, bathymetric survey
- Proposed Site Improvements – Plan views, layouts, access, staging
- Proposed Cross Sections – Cross sections, structural details

Constructability Review: Perform a constructability review for all Project sites. The feasibility of construction will be based on Consultant's experience with similar waterfront improvement projects in South Florida. The constructability review will consider the effect of land and water-based construction methods on site access, schedule, and cost. The impact to neighbors, marine

resources, traffic, and existing infrastructure will also be considered. If the City elects to utilize a CM at Risk or other contracting vehicle, early input from Contractor will be obtained at this stage as well.

Task 14.1 includes Sites 7, 8, 14, 15, and 16

Task 14.2 includes Site 20

Task 14.3 includes Sites 1 and 18

Task 14.4 includes Sites 11 and 12

Task 14.5 includes Sites 6 and 13

Task 14.6 includes Site 21

Site 2 and 22 (Being completed under Holland Park contract)

Sites 4 and 5 (Being completed under original contract)

Site 3 (Being completed under original contract)

Sites 9, 10, 17, and 19 (Being completed under original contract)

*Deliverables: SD/DD/CD Drawings, Signed/Sealed by Professional Engineer (PDF/Hard Copy)
Engineering Calculations, Signed/Sealed by Professional Engineer (PDF)
Constructability Review Summary (PDF)*

Task 16 – Bidding Support

Bidding support for the Phase 2 and Phase 3 sites. Consultant will provide bidding support services to supplement the City's procurement process for the Phase 2 and Phase 3 sites grouped into seven (7) pre-bid meetings. Services include preparation of bid documents to include the City's standard front-end documents, review of Contractor bids, issuance of addenda, issuance of a bid recommendation letters, attendance at up to seven (7) pre-bid meetings (i.e., one for each plan set), and review/response to Contractor questions during the bid advertisement period.

Task 14.1 includes Sites 7, 8, 14, 15, and 16

Task 14.2 includes Site 20

Task 14.3 includes Sites 1 and 18

Task 14.4 includes Sites 11 and 12

Task 14.5 includes Sites 6 and 13

Task 14.6 includes Site 21

Task 14.7 includes Site 2

Site 22 (Being completed under Holland Park contract)

Sites 4 and 5 (Being completed under original contract)

Site 3 (Being completed under original contract)

Sites 9, 10, 17, and 19 (Being completed under original contract)

Deliverables: Bid documents (7 sets), Bid recommendation letter, Pre-bid Meeting Minutes, Responses to RFIs

Task 17 – Construction Administration

Construction administration for the Phase 2 and Phase 3 sites. Consultant will provide construction administration services for the Phase 2 and Phase 3 Projects to support full time construction oversight by City staff during an assumed 30-month construction period. Services include review of Contractor submittals, technical advising to City staff relative to the construction documents, construction progress meetings, periodic site visits, responses to Requests for Information (RFIs) relating to unforeseen conditions, required field changes and/or other items as required, approval of payment requests, final/substantial completion walkthroughs, permit compliance, and Project closeout. Progress meeting agendas, meeting minutes, and Field Observation Reports (FORs) will be prepared. In addition, response to specific public inquiries and/or support in providing Project updates to the community will be provided herein. Materials testing (if required) will be provided by the Contractor.

As the final construction design and schedule/letting for each site is unknown at this time, the fee for these services has been estimated based on Consultant's experience with similar waterfront projects, discussions with the City, and an assumed 30-month construction period. This scope includes approximately 4,087 hours (fee will vary based on staff per approved rate sheet). Hours for the below subtasks were estimated based on an assumed 30-month construction period:

- Submittal Review
- Technical Advising
- Construction Progress Meetings
- Periodic Site Visits – Weekly
- Requests for Additional Information (RFIs)
- Substantial Completion Inspection – 14 site visits (i.e., 1x each site)
- Final Completion Inspection – 14 site visits (i.e., 1x for each site)
- Project Closeout – Permit closeout and documentation for each of 14 sites

Additional support, if required by the City, will be addressed under an addendum scope of work.

Task 14.1 includes Sites 7, 8, 14, 15, and 16

Task 14.2 includes Site 20

Task 14.3 includes Sites 1 and 18

Task 14.4 includes Sites 11 and 12

Task 14.5 includes Sites 6 and 13

Task 14.6 includes Site 21

Task 14.7 includes Site 2

Site 22 (Being completed under Holland Park contract)

Sites 4 and 5 (Being completed under original contract)

Site 3 (Being completed under original contract)

Sites 9, 10, 17, and 19 (Being completed under original contract)

Deliverables: Construction related documentation (e.g., observation reports, submittal reviews, RFI responses, punch-list, etc.) (PDF)

Task 18 – Project Management & Coordination

18.1 Project Management & Coordination: Consultant will provide project management services and coordinate with the City for two (2) years following issuance of Notice to Proceed. This scope includes approximately 630 hours (fee will vary based on staff per approved rate sheet). Hours were estimated to include the meetings below, as well as the level of effort required for Project support to date. Meetings specified below are supplemental to those included in the tasks above. These services include, but shall not be limited to:

- Project kickoff meeting
- Bi-weekly Project updates via email
- Thirty (30) video and/or teleconference calls with City relative to Project progress
- Twelve (12) in person, half-day meetings
- Two (2) City commission meetings

Deliverables: Meeting Minutes (PDF)

Conditions/Assumptions

Engineering/Design

- a. This scope assumes ten (10) sets of plans with projects grouped as defined herein for Phase 1, 2, and 3 sites. If additional sets of drawings must be prepared, they will be addressed under an addendum scope.
- b. Project is intended to evaluate and reduce direct overland tidal flow. Subsurface flow through soil/porous limestone will be reviewed; however, it is our understanding that potential changes to upland drainage from groundwater flow will be addressed by the City's Stormwater Master Plan consultant.
- c. Any major plan revisions after the Schematic Design have been approved by the City may result in additional fees.
- d. This scope does not include an assessment of mechanical, electrical, or plumbing (MEP) components of any structures within or adjacent to the 22 Project sites.
- e. Property boundaries will be identified as required to support the above engineering design; however, this scope does not include conducting official boundary surveys for individual parcels.
- f. The Consultant is not responsible for designing access to the single-family docks located adjacent to the Project areas.
- g. No fire protection is included in the services outlined in this scope. Any fire suppression systems, pumps, etc. required by the Local Fire Marshal can be addressed under an

additional scope of services.

- h.** Technical specifications will be incorporated in the construction plans. A separate set of technical specifications in Construction Specification Institute (CSI) format can be provided under a separate scope of services if required.
- i.** This scope does not include design of lighting.
- j.** This scope includes basic landscape design for sites 6 and 13, consistent with the character of the surrounding neighborhood. Landscape improvements to sites 20 and 21 will be limited to code required mitigation and bioswales. Based on direction from the City, no landscape design services are included for sites 1, 2, 3, 4, 5, 7, 8, 11, 12, 14, 15, 16, 18, 21, or 22. If the City would like to enhance landscaping, create a pocket park, or create a linear park at any of the 22 Project sites, based on public feedback and funding availability, these services can be addressed under an addendum scope.
- k.** Designs will include shoreline stabilization and tidal flood mitigation barriers. Landscaping and civil engineering directly associated with and adjacent to shoreline stabilization and flood mitigation barriers are included as specifically detailed in the City letter dated July 5, 2022.
- l.** Civil engineering improvements are limited to incorporating the shoreline stabilization and flood barrier designs into the adjacent civil engineering components. Significant upgrades to roads, stormwater systems, or overall drainage are not included. If required, these will be addressed under a separate scope of services.
- m.** The civil engineering component of the scope is limited to the planning, design, permitting, and construction services required to implement the ancillary stormwater infrastructure directly related to the impacts of the proposed seawall and shoreline modifications within the Project. This scope does not include the planning, design, permitting, and/or construction services required to implement comprehensive stormwater improvements throughout the surrounding neighborhood.
- n.** Sanitary sewer design services are not anticipated to be required and are excluded from this scope.
- o.** All available information regarding the location of underground utilities shall be provided prior to commencement of geotechnical investigations to supplement information identified by Sunshine One Call.
- p.** City will provide all available topographic surveys, planning documents, atlases, design drawings, record drawings, shop drawings, permit documents, maintenance reports, and/or drainage pipe inspection videos relevant to the existing, recently installed, and planned stormwater infrastructure within the Project area.

- q.** City will provide all available/relevant information related to the stormwater modeling analysis associated with the Stormwater Master Plan Modeling and Design Implementation Contract (Project #20-11053). Relevant staff from the City and their Stormwater Master Plan consultant will be available to meet with the Consultant to discuss the modeling analyses associated with the Stormwater Master Plan Modeling and Design Implementation Contract.

Environmental Permitting

- a.** This scope assumes ten (10) sets of permit application packages as defined herein for Phase 1, 2, and 3 sites. If additional permit application packages must be prepared and processed, they will be addressed under an addendum scope.
- b.** This scope does not include the regulatory permitting effort required to install new stormwater outfalls or to upsize existing stormwater outfalls within the Project areas, which would likely require a comprehensive stormwater modeling effort. If desired, this can be provided under an addendum scope.
- c.** Mangroves and coastal wetlands will be incorporated into the Project designs and impacts will be avoided to the extent practicable. This scope assumes that there will be no impacts to seagrass as a result of any project designs.
- d.** If the City desires more impactful designs relative to marine resources, additional scope and budget approval will be required to support the permitting process, mitigation negotiations, and mitigation design. If ecological impacts cannot be avoided and minimized through the design process to the satisfaction of the environmental regulatory agencies and/or offset by other Project design elements, and design of a mitigation project is required, an addendum scope will be provided for City approval.
- e.** All permit fees and any mitigation costs will be paid directly by the City.
- f.** This scope assumes that any unauthorized structures will be removed, if required to secure Project permits. If structures are to remain, they may require after-the-fact permitting. Preparation of drawings and after-the-fact permitting for unauthorized structures is not included in this scope of work. Such after-the-fact permitting may delay permitting of the Project sites, which may impact awarded grant funding. As such, removal of unauthorized structures, if required by the agencies, is strongly encouraged as opposed to after-the-fact permitting, with design and permitting for replacement to occur after securing permits for the Project sites.
- g.** There will be no change in public agency regulations or policies following contract execution.
- h.** There are no property ownership or other legal issues that will complicate the permitting process.

- i. It is assumed there will be no legal encumbrance issues, no submerged lands lease issues, and no historical or archaeological resource issues.

Bidding/Construction Administration

- a. No underground utility location services are included. The contractor will be required to call for utility location services prior to construction.
- b. The City will provide standard construction documents, including General Conditions, contracts, and up-front documents. These documents will be compiled with bid documents prepared by Consultant for Project bidding.
- c. The bidding assistance budget and scope provided for Phase 2 and Phase 3 projects herein is based on two (i.e., one per phase) successful bid processes. Any rebid process will be provided under a separate scope of services.
- d. The scope of services for construction administration is based on the selection of qualified, reputable contractors.
- e. As-Built surveys will be provided by the selected contractors to comply with regulatory permits.
- f. Materials testing, including pile installation monitoring, will be provided by an independent firm retained by the contractor.
- g. Construction administration services are budgeted based on anticipated schedules. Full-time construction management services can be provided at the request of the City under an addendum scope.

Grants

- a. City to provide Federal Employer Identification number (FEIN), DUN & Bradstreet D-U-N-S number, signatures, and other information needed for grant applications; list of staff members and responsibilities for grant applications; and a list of contractors or third-party entities to work on the grant funded projects when required. City to provide matching funds and Commission resolutions where required. City to provide required signatures and other related documents for grant applications and required submittals.

General

- a. Rental fees, translation, and ADA services, if required for public meetings, will be provided by the City.
- b. The City will assist with promotion of the stakeholder engagement workshops.
- c. Consultant cannot be held responsible for damage to below ground structures or utilities which are not identified. We specifically request any available information regarding the location of underground utilities for this Project.

- d. This scope does not include the completion of any utility test holes within the Project limits.
- e. This scope does not include any title searches to confirm presence of existing utility easements on private property within the Project area.
- f. This scope does not include any engineering, survey, or legal services required to establish new utility easements on private property or acquire any new public rights-of-way from private property.
- g. Additional reimbursable expenses requested by the City outside of the items defined herein, including, but not limited to, laboratory testing, permit fees, document reproduction, and express delivery of documents, will be invoiced at cost.

Project Fees

The total fee for the scope of professional services associated with this Addendum is \$1,833,910.00. Please note that this Addendum provides full engineering design, permitting, and construction administration for the Phase 2 and Phase 3 project sites. Bidding support and construction administration for Holland Park are included herein, as they were not included in the approved scope of work for Holland Park. The fees for the tasks outlined above are summarized in the following table.

Task	Description	Lump Sum Fees	Hourly NTE Fees
10	Field Investigations & Data Collection	\$162,410.00	
11	Grant Applications, Processing, & Administration		\$97,500.00
12	Public Outreach	\$72,470.00	
13	Cost Estimates	\$49,365.00	
14	Environmental, Surface Water, & City Permitting	\$150,530.00	
15	Engineering Design	\$638,715.00	
16	Bidding Support		\$29,085.00
17	Construction Administration		\$524,735.00
18	Project Management & Coordination		\$109,100.00

The hourly rates associated with the Not to Exceed Fees, as approved in our existing contract, are provided in the Table below.

Title	Hourly Rate
Principal	\$250
Project Director	\$220
Senior Project Manager	\$180
Project Manager	\$160
Senior Scientist	\$160
Project Scientist	\$130
Associate Scientist II	\$115
Associate Scientist I	\$ 95
Senior Engineer	\$180
Project Engineer	\$150
Associate Engineer II	\$130
Associate Engineer I	\$115
Senior Designer	\$100
Designer	\$ 80
Technician	\$ 75
Clerical	\$ 65