

**FIRST AMENDMENT
TO PROFESSIONAL SERVICES AGREEMENT (CCNA)**

THIS FIRST AMENDMENT (the "First Amendment") to the Contract for Professional Services is made and entered into this 20th day of April 2016 by and between the **CITY OF NAPLES**, a Florida Municipal Corporation (the "City"), and **Stantec Consulting Services, Incorporated**, a Foreign Profit Corporation, authorized to do business in the State of Florida, whose business address is: **3200 Bailey Lane, Suite 200; Naples, Florida 34105** (the "Consultant").

WITNESSETH

WHEREAS, the City and the Consultant entered into that certain Agreement on **April 15, 2015** (Bid No. 15-023 and Clerk Tracking No. 15-00060 (the "Original Agreement") to furnish Professional Services related to **Cove Stormwater Pump Station Outfall and Water Quality** (the 'Project'); and

WHEREAS, the parties desire to amend the Original Agreement by this First Amendment so that the Consultant will provide additional services pursuant to the terms and conditions contained herein.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, and in consideration of the mutual covenants, promises and conditions herein set forth, it is hereby acknowledged and agreed as follows:

1. The above recitals are true and correct and are incorporated herein by this Reference.
2. "Article Three Section 3.1, Time" shall be amended for the provision of additional time by the Consultant with a completion date of 570 days from issuance of a City (NTP) Notice-to-Proceed.
3. "Article Four, Compensation" shall be amended for the provision of additional fees to the Consultant in the amount of \$268,615.00 for Design, Permitting, Bidding, and Construction Services Task 1-9 as indicated in Attachment A-1 with is attached and made a part of this Agreement.
4. The terms of this First Amendment shall control and take precedence over any and all terms, provisions and conditions of Original Agreement which might vary, contradict or otherwise be inconsistent with the terms and conditions hereof. All of the other terms, provisions and conditions of Original Agreement, except as expressly amended and modified by this First Amendment, shall remain unchanged and are hereby ratified and confirmed and shall remain in full force and effect.
5. This First Amendment may be executed in any number of counterparts, each of which shall be deemed to be an original as against any part whose signature appears thereon and all of which shall together constitute one and the same instrument.

IN WITNESS WHEREOF, the City and the Contractor have caused this First Amendment to be duly executed by their duly authorized officers, all as of the day and year first above written.

ATTEST:

By: Patricia L. Rambosk
Patricia L. Rambosk, City Clerk

CITY:

CITY OF NAPLES, FLORIDA

By: A. William Moss
A. William Moss, City Manager

Approved as to form and legal sufficiency:

By: Robert D. Pritt
Robert D. Pritt, City Attorney

CONSULTANT:

Stantec Consulting Services, Incorporated
3200 Bailey Lane, Suite 200
Naples, Florida 34105
Attention: Ramon Castella, Vice President
FEI/EIN Number: On File State (NY)

By: Ramon Castella
(Signature)

Witness (Signature)

Printed
Name: Jessica Perez

Printed
Name: Ramon Castella

Title: Vice President

Amendment to agreement

City of Naples

Naples Bay Restoration and Water Quality Improvements at the Cove

Services for Design, Permitting, Bidding, and Construction

Scope of Work

Introduction

Naples Bay and its contributing watershed have been dramatically altered over time. In the bay itself, hardened shoreline features such as seawalls have replaced the nursery functions of mangroves. Seawalls have exacerbated water quality problems by compounding dynamic wave action which leads to increased turbidity, therefore reducing light penetration and diminishing benthic productivity. Associated with various water management projects, the watershed of Naples Bay has expanded from approximately 10 square miles in size to its current 120 square miles (PBS&J 2010). As a result, freshwater inflows to Naples Bay have increased exponentially, along with increases in nutrient loads from the developed and expanded watershed.

The City is a steward in responsibly improving and enhancing water quality for its residents, visitors, and neighbors. The Cove Pump Station is located adjacent to 9th Street and Broad Avenue South in Naples, Florida and is estimated to discharge approximately 450 million gallons of stormwater into the Naples Bay annually. While these flows represent less than 1 percent of the freshwater flows into the bay, the City of Naples (City) is committed to improving water quality in the bay as a result of the stormwater discharge. As such, the City proposes to design and construct a series of improvements at the existing discharge outfall from the Cove Pump Station into Naples Bay. This project is proposed to restore stormwater discharge hydraulics, as well as to provide improvements to the water quality of the stormwater discharge at this pump station.

Stantec was retained to develop the preliminary design for improvements that meet the following goals and objectives:

- Improve benthic productivity.
- Enhance water quality.
- Improve the hydraulic performance of the Cove Outfall.
- Control benthic scouring.
- Reduce the sediment deposition rate in the Cove.

The preliminary design report identified four project components to meet these goals including:

1. Dredging and armoring of the Cove outfall area and channel. This also includes the construction of a sump at the outfall.
2. Construction of a living shoreline along the southern seawall and enhance vegetation along the northern shoreline.
3. Installation of an inline vortex grit separator along Park Street, south of 5th Avenue.
4. Sidewalk enhancements along the southern seawall of the Cove.

In addition to the three project components mentioned above, the preliminary design report recommended evaluating the cost and effectiveness of recirculating stormwater from the Cove pump station to the Broad Avenue retention area. If the evaluation of this alternative provides a cost effective means for additional pollutant reduction, the City may include the recirculation of flows from the Cove pump station as a part of the overall project.

Purpose

The purpose of this scope of work is to provide professional services to:

- a. Develop design documents to assist with permitting the project, assist with grant funding applications, as well as the development of contractual documents for the procurement of construction services to construct the proposed project.
- b. Assist with the development of permitting packages.
- c. Assist with the development of grant funding applications.
- d. Assist with the development and implementation of a public outreach plan that meets objectives of regulatory, funding, and City framework.

The tasks associated with this scope of services include:

Task 1 Coordination and Progress Meetings

Task 2 Supplemental Engineering

Task 3 Survey, Geotechnical Investigations, and Subsurface Utility Engineering

Task 4 Development of Design Documents

Task 5 Permitting Assistance

Task 6 Grant Funding Assistance

Task 7 Community Awareness Assistance

Task 8 Council Meetings

Task 9 Bid Phase Services

Task 10 Allowance

Scope of Services

Task 1 Coordination and Progress Meetings

Task 1.1 Coordination with City of Naples

Throughout this project, Stantec will coordinate with the City through regularly scheduled meetings, letters, transmittals, e-mails, memoranda, and other forms of formal and informal communication, as appropriate.

Deliverable: Formal and informal communication documentation including but not limited to e-mails, letters, agendas, tables, illustrations, and narratives.

Task 1.2 Monthly Progress Meetings

Up to twelve (12) formal monthly meetings will be held with the City Project Manager and other staff as directed by the City Project Manager. This task includes the project kick off meeting to be scheduled within 2 weeks of receipt of notice to proceed for this work assignment. Suspension of monthly meetings will only be with the consent of the City Project Manager. Monthly meetings will include the milestone meetings for 60%, 90%, and 100% design review meetings.

Deliverable: Each meeting will have an agenda and sign in-sheet prepared by Stantec. Meeting summary notes will be prepared, as necessary, by Stantec and submitted to all attendees within three (3) business days of the meeting for review and comment.

Task 2 Supplementary Engineering

Preliminary Engineering will include the following:

Task 2.1 Recirculation System Evaluation

Stantec will evaluate effectiveness and cost of the recirculation alternative presented in the preliminary design report. Efforts will include an onsite visit with staff to understand the operation of the Broad Avenue Swale system as well as a record document review. Stantec will summarize the current operation of the system, evaluate the swale system

design and estimate the volume of stormwater that can be diverted to the system from the Cove. Develop a preliminary strategy on how the diversion system can be operated. Develop preliminary alignment for stormwater main to redirect flows from the pump station. Develop preliminary engineering cost estimates for the proposed project. Develop pollutant reduction estimates associated with the alternative. Present findings in a monthly progress meeting and through a brief and concise technical memorandum.

Deliverable: Technical memorandum – Recirculation Alternative

Task 2.2 Cove Outfall Headwall Evaluation

The proposed improvements include modifying the existing outfall headwall by constructing sidewalls. Very little is known of the existing headwall structure and further field investigation is warranted. The purpose of the investigation is to identify the limits of the headwall below the water's surface and to determine the condition of the structure and identify design considerations based on the condition of the structure. This effort may require the use of underwater diver to determine the limits of the headwall.

Deliverable: Technical memorandum – Cove Outfall Headwall Evaluation via e-mail in PDF format.

Task 2.3 Vortex Grit System Location Evaluation

A preliminary location for a vortex grit system was recommended in the PDR. Stantec will evaluate the proposed location, identify potential conflicts and maintenance of traffic concerns and develop a conceptual site plan and propose a bypass plan prior to commencing final design. Stantec will also contact the South Florida Water Management District and evaluate the mechanism for permitting the grit removal system.

Deliverable: Technical memorandum – Grit Removal System via e-mail in PDF format

Task 2.4 Sidewalk Improvement Plan

The preliminary design report identified a project component that would create a public amenity at the Cove Pump Station project site. This included sidewalk and streetscaping improvements along the southern seawall at the Cove outfall area. Additionally the report identified an overlook, boardwalk, and gazebo. The purpose of the improvements was to create a public amenity for the community and provide public outreach and an educational component to educate the community about the impacts of stormwater. City Council requested that City staff evaluate utilizing the sidewalk along the southern seawall as a location to create an amenity and an educational component as an alternative to the plan presented.

Stantec will work with the City to develop a preliminary concept plan for the sidewalk improvement. This includes a site visit with City staff or Project Manager, the development of renderings and sections, as well as the development of a plan to address the educational component for the project site.

Deliverable: Technical memorandum – Sidewalk Improvement and Educational Component Concept Plan via email.

Task 3 Survey and Geotechnical Investigations

Task 3.1 Survey

A topographic survey shall be completed per Chapter 5J-17 of the Florida Administrative Code, Minimum Technical Standards for Surveyors. Horizontal datum will be based on the North American Datum (NAD) of 1983, Florida State Plane, West Zone, and will be derived from real-time kinematic GPS observations. Vertical datum will be established on site by conventional bench runs from published local bench marks.

Task 3.1.1 Vortex Grit System

Stantec will use registered land surveyors to survey the limits illustrated in **Exhibit 1**, to support design efforts associated with the Vortex Grit System. The surveyors will utilize the services of Sunshine State One-Call System to identify and record the location of existing utilities and to determine ownership (potable water, irrigation water, natural gas, electric, force mains, etc.) as part of the field survey efforts. Surveyors will also coordinate efforts with subsurface utility engineer consultant, if applicable.

Stantec will provide a detailed survey sketch for of all above ground features, including landscaping and topography with both 1-foot contours and intermediate spot elevations within the limits of survey. The survey sketch will also locate and identify major above-ground structures such as concrete pads, piping, valves, buildings, equipment, etc.

Deliverables: Electronic survey files signed and sealed by registered land surveyor.

Task 3.1.2 Recirculation System Alternative

At the request of the City, Stantec will use registered land surveyors to survey the limits illustrated in **Exhibit 2**, to support design efforts associated with the proposed piping improvements that will allow the Cove Pump Station to recirculate stormwater to the Broad Avenue detention area. The surveyors will utilize the services of Sunshine State One-Call System to identify and record the location of existing utilities and to determine ownership (potable water, irrigation water, natural gas, electric, force mains, etc.) as

part of the field survey efforts. Surveyors will also coordinate efforts with subsurface utility engineer consultant, if applicable.

Stantec will provide a detailed survey sketch for of all above ground features, including landscaping and topography with both 1-foot contours and intermediate spot elevations within the limits of survey. The survey sketch will also locate and identify major above-ground structures such as concrete pads, piping, valves, buildings, equipment, etc.

Deliverables: Electronic survey files signed and sealed by registered land surveyor.

Task 3.2 Geotechnical Investigation

Stantec has retained the services of YPC to perform geotechnical exploration and engineering services are for an evaluation of subsoil and groundwater conditions for the proposed structure location, and includes the elements listed below:

- drilling of one (1) Standard Penetration Test (SPT) boring to evaluate the subsurface soil and groundwater table conditions to a depth of 40-ft below existing grade;
- obtaining representative soil and rock samples from SPT boring;
- grouting SPT boring;
- performing laboratory inspection and classification testing on selected samples, as necessary, to develop engineering parameters; and,
- compiling the results of the field exploration and laboratory testing programs and providing observations and comments for use by the Client in planning for the project.

Deliverable: Geotechnical report summarizing findings and recommendations.

Task 4 Development of Design Documents

It is anticipated that the improvements will require two separate set of design documents and specifications. One set of contract documents will be created for Cove Outfall Improvements at the outfall site which includes:

- Existing outfall site conditions
- Dredge and fill plans (plan views, section views, and volumes)
- Channel Improvements (plan, section views, and details)
- Headwall and armored sump improvements (plan, section views, and details)
- Living shoreline design plans
- Sidewalk Improvement Plans

- Stormwater Pollution Prevention Plans
- Suggested pump station maintenance of flow plan
- Staging area and maintenance of traffic plans

A second set of documents will include improve Basin III Water Quality Improvements which will include:

- Existing conditions at vortex grit system site
- Existing conditions along Broad Avenue –if applicable
- Proposed improvements
- Maintenance of traffic –if applicable
- Stormwater Pollution Prevention Plans
- Suggested stormwater maintenance of flow plan
- Restoration plan

Task 4.1 Outfall Improvement Design

The design of the outfall improvements will be developed in three (3) phases of completion: 60%, 90%, and 100%. The 100% design plans will be utilized for permit applications and funding applications. Following the permitting and funding process, bid documents will be generated as discussed in Task 7. The delivery of the 60%, 90%, and 100% phase plans will include a meeting with the City of Naples staff to review the submittal and receive comments that affect the next submittals.

Task 4.1.1 Outfall Improvement 60% Design Drawings, Specifications, and Engineer's Opinion of Probable Cost

The 60% design will include the preparation of plans based on the preliminary design developed and approved by the City Council. The 60% plans, specifications and Opinion of Probable Cost will include:

- Existing site conditions and demolition plan.
- Outfall improvement plans including of the wingwalls and outfall headwall.
- Channel Design plans including riprap and armored bed details and sections.
- Dredge and Fill plans including dredging, backfilling, living shoreline, and staging areas.
- Sidewalk improvement plan.

Technical specifications will be included with the 60% design submittal. The development of technical specifications will adhere to processes set forth by the City of

Naples. Front end specifications, excluding the bid form, will be created and provided by the City, while technical specifications will be prepared by Stantec.

An engineer's opinion of probable cost will be developed as part of the 60% submittal.

Deliverables: Two (2) reduced and two (2) full size sets of the 60% design plans, two (2) copies of the technical specifications and the preliminary Engineer's Opinion of Probable Cost in hard copy and electronic PDF format.

Following City review, a meeting (described in Task 1) will be held with City staff to review the 60% plans and discuss questions and comments. Changes required as a result of the review will be documented in the meeting minutes and through mark-up of the plans.

Task 4.1.2 Outfall Improvement 90% Design Drawings, Specifications, and Engineer's Opinion of Probable Cost

The 90% design submittal will include all review comments from the 60% design and the following will be included in the 60% submittal plans.

- Outfall improvement sections and details.
- Dredge and fill sections and details.
- Living shoreline section and details.
- Sidewalk improvement section and details.
- Structural plan and details.
- Staging area and MOT considerations, if applicable.
- General details and best management practices.

Technical specifications will include a draft of the technical specifications.

Deliverables: Two (2) reduced and two (2) full size sets of the 90% design plans, two (2) copies of the technical specifications and the preliminary Engineer's Opinion of Probable Cost in hard copy and electronic PDF format.

Following City review, a meeting (described in Task 1) will be held with City staff to review the 90% plans and discuss questions and comments. Changes required as a result of the review will be documented in the meeting minutes and through mark-up of the plans.

Task 4.1.3 Outfall Improvement 100% Design Drawings, Specifications, and Engineer's Opinion of Probable Cost

The 100% design submittal will be, for all practical purposes, at a level of completeness to be considered construction quality documents.

All review comments from the 60% and 90% design review will be incorporated. An internal Quality Assurance/ Quality Control review of the 100% drawings will be performed prior to submittal. All QA/QC corrections will be incorporated into the 100% drawings.

Deliverables: Two (2) reduced and two (2) full size sets of the 100% design plans, two (2) copies of the technical specifications and the preliminary Engineer's Opinion of Probable Cost in hard copy and electronic PDF format.

Following City review, a meeting (described in Task 1) will be held with City staff to review the 100% plans and discuss questions and comments. Changes required as a result of the review will be documented in the meeting minutes and through mark-up of the plans.

Task 4.2 Upstream Water Quality Improvements Design

The design of the upstream water quality improvements will be developed in three (3) phases of completion: 60%, 90%, and 100%. The 100% design plans will be utilized for permit applications and funding applications. Following the permitting and funding process, bid documents will be generated as discussed in task 7. The delivery of the 60%, 90% and 100% phase plans will include a meeting with the City of Naples staff to review the submittal and receive comments that affect the next submittals.

Task 4.2.1 Upstream Water Quality Improvement 60% Design Drawings, Specifications, and Engineer's Opinion of Probable Cost

The 60% design will include the preparation of plans based on the preliminary design developed and approved by the City Council. The 60% plans, specifications and Opinion of Probable Cost will include:

- Existing site conditions and demolition plan.
- Existing utilities and SUE locates.
- Grit system plan and section.
- Piping improvements for the Cove Pump Station recirculation system (as applicable).

Technical specifications will be included with the 60% design submittal. The development of technical specifications will adhere to processes set forth by the City of Naples. Front end specifications, excluding the bid form, will be created and provided by the City, while technical specifications will be prepared by Stantec.

An engineer's opinion of probable cost will be developed as part of the 60% submittal.

Deliverable: Two (2) reduced and two (2) full size sets of the 60% design plans, two (2) copies of the technical specifications and the preliminary Engineer's Opinion of Probable Cost in hard copy and electronic PDF format.

Following City review, a meeting (described in Task 1) will be held with City staff to review the 60% plans and discuss questions and comments. Changes required as a result of the review will be documented in the meeting minutes and through mark-up of the plans.

Task 4.2.2 Upstream Water Quality Improvement 90% Design Drawings, Specifications, and Engineer's Opinion of Probable Cost

The 90% design submittal will include all review comments from the 60% design and all labeling and details will be included. The following will be incorporated into the design:

- Restoration plan.
- Grit system details.
- Piping improvement sections and details (as application).

Deliverables: Two (2) reduced and two (2) full size sets of the 90% design plans, two (2) copies of the technical specifications and the preliminary Engineer's Opinion of Probable Cost in hard copy and electronic PDF format.

Following City review, a meeting (described in Task 1) will be held with City staff to review the 90% plans and discuss questions and comments. Changes required as a result of the review will be documented in the meeting minutes and through mark-up of the plans.

Task 4.2.3 Upstream Water Quality Improvement 100% Design Drawings, Specifications, and Engineer's Opinion of Probable Cost

The 100% design submittal will be, for all practical purposes, at a level of completeness to be considered construction quality documents.

All review comments from the 60% and 90% design review will be incorporated. An internal Quality Assurance/ Quality Control review of the 100% drawings will be performed prior to submittal. All QA/QC corrections will be incorporated into the 100 % drawings.

Deliverables: Two (2) reduced and two (2) full size sets of the 100% design plans, two (2) copies of the technical specifications and the preliminary Engineer's Opinion of Probable Cost in hard copy and electronic PDF format.

Following City review, a meeting (described in Task 1) will be held with City staff to review the 100% plans and discuss questions and comments. Changes required as a

result of the review will be documented in the meeting minutes and through mark-up of the plans.

Task 5 Permitting Assistance

Surface waters and the remnant wetland fringe within the Cove Pump Station outfall are jurisdictional to both the State of Florida and the federal government. Project components within the Cove outfall will require a U.S. Army Corps of Engineers (USACE) individual permit under section 404 of the Clean Water Act and Section 10 of the Rivers and Harbor Act. These project components will also be subject to additional review by the U.S. Fish and Wildlife Service (USFWS) and the National Oceanic and Atmospheric Administration – National Marine Fisheries Service (NOAA – NMFS).

Under the state's environmental permitting regulations, the proposed dredge and fill activities will also require an individual Environmental Resource Permit (ERP) issued by South Florida Water Management District (SFWMD). The project team attended a pre-application meeting with SFWMD to discuss potential opportunities and pitfalls. The SFWMD reaction was positive, and the project related items facilitating permitting were:

The living shoreline restoration component could qualify the ERP for a reduced application fee.

Project plans do not disturb the existing oyster reef to the north.

The habitat assessment occurred within the correct time frame to properly assess seagrasses in the area.

The submerged lands in the project location were dedicated to the City by the Trustees of the Internal Improvement Trust Fund (TIITF) in 1962 and such dedication remains in effect.

Both USACE and SFWMD did comment that any mangrove removal would require mitigation, and could complicate the permitting process. The living shoreline could incorporate mitigation if that becomes necessary. Additionally, the permitting of the grit removal system may require a modification to the existing citywide stormwater permit.

Task 5.1 USACE/FDEP/SFWMD Permitting

Prepare and submit an individual Dredge and Fill permit application to the U.S. Army Corps of Engineers (USACE).

Prepare and submit an individual Environmental Resource Permit (ERP) application to the SFWMD.

Deliverable: For each permit application, or other submittal, a draft package will be submitted to the City for review prior to submission of final documents to the respective permitting agency. Application requirements will be specific to each permit source and will likely include signed and sealed design documents, project narratives, and informational material.

Task 5.2 Additional Misc. Permitting

Given the nature and location of the location of the proposed work, it is likely the federal review process will include either formal or informal consultations with federal fish and wildlife agencies. Some modifications or specific mitigation may be required.

Provide assistance with the preparation and submittal of other miscellaneous permits required for the project.

Deliverable: For each permit application, or other submittal, a draft package will be submitted to the City for review prior to submission of final documents to the respective permitting agency. Application requirements will be specific to each permit source and will likely include signed and sealed design documents, project narratives, and informational material.

Task 6 Grant Funding Assistance

The Naples Cove Stormwater Improvement Project is eligible for funding under multiple grant programs. Several opportunities were identified in phase 1 including the following:

- RESTORE Act Direct Component (Pot 1) funds;
- RESTORE Act Council Selected Component (Pot 2) funds;
- RESTORE Act Spill Impact Component (Pot 3) funds;
- National Fish & Wildlife Foundation Gulf Environmental Benefit Fund; and
- Cooperative funding from the South Florida Water Management District.

Stantec will work with the City to develop up to three (3) applications for the selected funding opportunities.

Deliverable: For each funding application a draft package will be submitted to the City for review prior to submission of final documents to the respective funding sources. Application requirements will be specific to each funding source and will likely include signed and sealed design documents, cost estimates, project narratives, and informational material specific to each application.

Task 7 Community Awareness Assistance

Task 7.1 Specific Stakeholder Awareness Meetings

Stantec will document stakeholder interactions and will attend up to four (4) project specific stakeholder engagement meetings.

Deliverable: Letters, transmittals, e-mails, memoranda and other forms of formal and informal communication, as appropriate. A meeting summary will be prepared for each meeting and a PDF will be submitted to the City via e-mail.

Task 7.2 Public Meeting

Stantec will coordinate one (1) public meeting, to introduce the project to the community, solicit input from community, and address the public involvement component that may be associated with funding and permitting requirements. Stantec will develop materials and coordinate publicity with the City of Naples and prepare the following as necessary:

- Meeting notice and invite
- Mailing lists
- Legal ad
- Handouts
- Agendas and scripts
- Sign-in sheet and Comment Cards
- PowerPoint presentation
- Stantec will provide a summary meeting in the form of a memorandum

Deliverable: Letters, transmittals, e-mails, memoranda and other forms of formal and informal communication, informational materials, and notifications, a meeting summary will be provided for the public meeting as a PDF and will be submitted to the City via e-mail as appropriate.

Task 8 City Council Meetings

Task 8.1 City Council Meetings

Stantec will assist City staff with the development of presentation materials such as power points and graphics to present at two (2) City Council Meeting. Stantec will attend up to two (2) formal City Council meetings and participate in the presentation as directed by the City.

Deliverable: Electronic presentation materials, hard copies of presentation meetings, project renderings in electronic format and up to four foam mounted boards.

Task 9 Bid Phase Services

Task 9.1 Development of Final Bid Documents

The Bid Documents submitted to the City will incorporate the City's comments generated from the 100% review and include signed and sealed drawings. Stantec will coordinate with City Purchasing to incorporate any specific construction contract agreement requirements into the bid documents.

Deliverable: A final submittal will be made including four (4) reduced sets, four (4) full size sets, and a pdf version of the Signed and Sealed Bid Documents including drawings, technical specs, and supplemental conditions.

Task 9.2 Bidding Assistance

Services completed as part of this task will include the following:

Stantec will attend the pre-bid meeting. Addenda will be prepared as necessary to address contractor questions raised at the pre-bid meeting and during the bidding process.

Contractor-proposed equipment substitutions will be reviewed for conformance with the project specifications. Contractors shall be required to provide full technical data to support substitution requests. Contractor bids will be checked for completeness. A recommendation of award will be made for the lowest responsible/responsive bid meeting all contract requirements.

Deliverable: Letters, transmittals, responses to requests for information and clarifications and recommendation of award.

Task 10 General Allowance

The City may require additional services for items not specifically included in the aforementioned Tasks. These services may consist of, but not be limited to, additional investigative, additional subsurface utility investigations, assistance with funding, assistance with permits, additional meetings, and/or design services.

The funds associated with special allowances may only be used following written authorization from the Project Manager.

Task 11 Additional Design Services

The following additional design services are being presented for consideration and approval by the City of Naples in addition to Task 1 – 10.

Task 11.1 Spring Lake Evaluation Allowance

The City Council expressed interest in determining the role, if any, that could be played via dredging Spring Lake as a mechanism that could benefit downstream waters of Naples Bay. Stantec has solicited the services of ESA to perform an evaluation of Spring Lake to collect both water quality and sediment data, to allow for a more thorough understanding of the lake's current condition, so that a logical recommendation could be made as to whether or not the lake's water quality would likely respond in a positive manner to sediment removal. As such, the proposed project is nearly identical to that which was conducted for assessments done for Sunshine Lake and Lake Huntsman, where dredging of these two lakes was recommended (Sunshine Lake) and not recommended (Lake Huntsman).

Efforts to be performed by ESA, at the direction of the City, include the following:

1. An assessment of existing data bases and reports would be conducted to determine the amount and extent of data related to bathymetry, and the spatial extent and distribution of sediments in Spring Lake. While there appears to be some water quality data collected from Spring Lake, a 2015 report to the City of Naples lists only 6 water quality samples as having been collected from the lake (Cardno 2015). It appears that 4 of those 6 samples were taken in 2012 (AMEC 2012). It does not appear as if there are recent data on bathymetry, sediment depths, and sediment quality. If a more thorough assessment of this mater does not result in obtaining more data, it would be our recommendation to proceed to Phase II, where additional data collection would occur.
2. If only limited water and sediment data are available for Spring Lake, Phase 2 would be initiated if deemed appropriate by staff from the City of Naples. Without sufficient data to evaluate the current water and sediment conditions of Spring Lake, any potential proposed project would be based on an incomplete understanding of the lakes true condition, and the City would run the risk that such projects may not result in expected changes to water quality. It would therefore be recommended that water and sediment samples from the inflow and outflow of the lake be sampled, along with three locations within the lake itself. While a long-term data set would be vastly preferable, Phase 2 efforts are outlined to conduct at least one round of sampling.

Similar as to what was done in Sunshine Lake, ESA staff would first sample the water depth and sediment will be quantified at 50 randomly selected sites. As was done in Sunshine Lake (Atkins and ESA 2015) the amount of lake volume and sediment will be

quantified by determining the difference between the volume of open water and the volume occupied by sediments above it underlying sandy (most likely) lake bottom.

For the purposes of this budget and scope, it is assumed that the water quality laboratory of Collier County would provide services to quantify the parameters listed below for sediments, sediment porewater, and the water column, and that field work would involve collecting data at 5 locations (inflow, outflow and three locations within the lake). The required parameter list includes the following: 1) for sediments, organic content, nitrogen and phosphorous content, silt, clay and sand content, major metals, major pesticides and herbicides, 2) for sediment porewater, nitrogen and phosphorous concentrations, major metals, major pesticides and herbicides., 3) for the water column, nitrogen and phosphorous concentrations, chlorophyll-a concentrations, color, turbidity and chemical-biological oxygen demand.

Sediment samples will be collected using a Ponar sampler from the side of a boat. Regardless of the laboratory used, samples would be processed by an accredited laboratory.

The rationale for collecting these data are two-fold – they would be needed to determine if sediment removal would likely improve water quality in the lake, and these parameters would have to be sampled prior to dredging to determine if sediment contamination might be sufficient to require specialized treatment of porewater and/or sediments during the dredging operation.

If the City of Naples or Collier County cannot provide the water and sediment analysis described, ESA will work with local vendors to produce a budget for conducting these analyses.

3. ESA will compile, analyze and interpret the water and sediment quality data collected in Phase 2 in order to make a recommendation to the City of Naples as to the likely benefits (if any) associated with the dredging of sediments from Spring Lake. This recommendation will be contained within an interpretative report. ESA will attend up to two (2) project meetings, as needed, to present the results to the whatever local (to City of Naples) advisory committees or stakeholder groups it deems appropriate.

Deliverable: Technical memorandum – Spring Lake Dredge Evaluation

Task 11.2 Public Outreach Design

The Preliminary Design report for the Naples Bay Restoration and Water Quality Improvements at the Cove included the conceptual plan for an overlook, boardwalk, and gazebo, along with streetscaping. These proposed project components will allow the City to create an amenity by opening bay views and encouraging the public to interact with the natural environment. The proposed improvements also allow the City to provide education and outreach on the impacts of stormwater and how to mitigate these impacts. The use of the outfall site for education and outreach is a favorable addition to the project for both permitting and grant funding opportunities.

At the request of the City, the design of the overlook design will be developed in three (3) phases of completion: 60%, 90%, and 100%. The 100% design plans will be utilized for permit applications and funding applications. Following the permitting and funding process, bid documents will be generated for purchasing to advertise. The delivery of the 60%, 90%, and 100% phase plans will include a meeting with the City of Naples staff to review the submittal and receive comments that affect the next submittals.

Task 11.2.1 Public Outreach Design 60% Design Drawings, Specifications, and Engineer's Opinion of Probable Cost

The 60% design will include the preparation of plans based on the preliminary design developed and approved by the City Council. The 60% plans, specifications and Opinion of Probable Cost will include:

- Existing site conditions and demolition plan.
- Structural and decking plan.
- Preliminary landscaping and lighting plan.

Technical specifications will be included with the 60% design submittal. The development of technical specifications will adhere to processes set forth by the City of Naples. Front end specifications, excluding the bid form, will be created and provided by the City, while technical specifications will be prepared by Stantec.

An engineer's opinion of probable cost will be developed as part of the 60% submittal.

Deliverables: Two (2) reduced and two (2) full size sets of the 60% design plans, two (2) copies of the technical specifications and the preliminary Engineer's Opinion of Probable Cost in hard copy and electronic PDF format.

Following City review, a meeting (described in Task 1) will be held with City staff to review the 60% plans and discuss questions and comments. Changes required as a result of the review will be documented in the meeting minutes and through mark-up of the plans.

Task 11.2.2 Public Outreach Design 90% Design Drawings, Specifications, and Engineer's Opinion of Probable Cost

The 90% design submittal will include all review comments from the 60% design and the following will be included in the 60% submittal plans.

- Overlook improvement sections and details.
- Sidewalk improvement section and details.
- Structural and decking plan and details.
- General details and best management practices.

Technical specifications will include a draft of the technical specifications.

Deliverables: Two (2) reduced and two (2) full size sets of the 90% design plans, two (2) copies of the technical specifications and the preliminary Engineer's Opinion of Probable Cost in hard copy and electronic PDF format.

Following City review, a meeting (described in Task 1) will be held with City staff to review the 90% plans and discuss questions and comments. Changes required as a result of the review will be documented in the meeting minutes and through mark-up of the plans.

Task 11.2.3 Public Outreach Design 100% Design Drawings, Specifications, and Engineer's Opinion of Probable Cost

The 100% design submittal will be, for all practical purposes, at a level of completeness to be Quality Assurance/ Quality Control review of the 100% drawings will be performed considered construction quality documents.

All review comments from the 60% and 90% design review will be incorporated. An internal prior to submittal. All QA/QC corrections will be incorporated into the 100% drawings.

Deliverables: Two (2) reduced and two (2) full size sets of the 100% design plans, two (2) copies of the technical specifications and the preliminary Engineer's Opinion of Probable Cost in hard copy and electronic PDF format.

Following City review, a meeting (described in Task 1) will be held with City staff to review the 100% design plans and discuss questions and comments. Changes required as a result of the review will be documented in the meeting minutes and through mark-up of the plans.

Task 11.2.4 Public Outreach Final Bid Documents

The Bid Documents submitted to the City will incorporate the City's comments generated from the 100% review and include signed and sealed drawings. Stantec will coordinate with City Purchasing to incorporate any specific construction contract agreement requirements into the bid documents.

Deliverable: A final submittal will be made including four (4) reduced sets, four (4) full size sets, and a pdf version of the Signed and Sealed Bid Documents including drawings, technical specs, and supplemental conditions.

Tasks Not Included In This Scope of Services:

- Assistance with easement acquisition
- Permit Fees
- Items not specifically stated in scope of services

Fee

All work will be charged on an hourly basis and/or lump sum in accordance with the Project Budget Form attached. Many facets that control the length of the project and necessary effort are outside the control of Stantec. Hours shown in this work assignment are only estimates. Any additional work that may be required will be performed under a separate Work Assignment, or as an amendment to this one.

Task	Fee
Task 1 Coordination and Progress Meetings	\$25,478
Task 2 Supplemental Engineering	\$32,698
Task 3 Survey, Geotechnical Investigations, and Subsurface Utility Engineering	\$23,700
Task 4 Development of Design Documents	\$93,711
Task 5 Permitting Assistance	\$26,677
Task 6 Grant Funding Assistance	\$16,496
Task 7 Community Awareness Assistance	\$16,676
Task 8 Council Meetings	\$13,780
Task 9 Bid Phase Services	\$9,399
Task 10 General Allowance	\$10,000
Total Fee	\$268,615
Additional Design Services -Task 11 ⁽¹⁾	\$59,006

(1)Additional design services are presented for consideration and approval by the City of Naples (in addition to Task 1-10).

Schedule

Stantec will provide services throughout the duration of the project as directed by the City of Naples in accordance with the scope of services listed above. Many facets that control the length of the project and necessary effort are outside the control of Stantec.

Below is a list of each task and the anticipated delivery date based on days from NTP:

Task	Days from NTP
Task 1 Coordination and Progress Meetings	570
Task 2 Supplemental Engineering	60
Task 3 Survey, Geotechnical Investigations, and Subsurface Utility Engineering	90
Task 4 Development of Design Documents	365
Task 5 Permitting Assistance	455
Task 6 Grant Funding Assistance	455
Task 7 Community Awareness Assistance	570
Task 8 Council Meetings	570
Task 9 Bid Phase Services	570
Task 10 General Allowance	570

Exhibit "C" Project Budget Sheet

Personnel														Lump Sum	Subtotal Direct Labor Cost	Stanlec	ESA
Principal Engineer QA/QC	Principal Environmental Scientist QA/QC	Project Manager	Senior Engineer	Senior Environmental Scientist	Project Environmental Scientist	Structural Engineer	Engineer Intern	Sr. Landscape Architect	Landscape Architect	Cadd Technician	GIS Analyst	Clerical					
		30					52							\$ 10,014.00			
4	2	24	8	8	4	2	24	8						\$ 12,024.00		\$ 3,440	
4	2	54	8	8	4	2	76	8	0	0	0	0		\$ 22,038.00	\$ -	\$ 3,440	
1		4	12				32	8		24	3	4		\$ 10,606.00			
1		2	4				12			8		1		\$ 3,335.00	\$ 9,500.00		
1		4	4			4	12	12	24	8		1		\$ 9,257.00			
3	0	10	20	0	0	4	56	20	24	40	3	6		\$ 23,198.00	\$ 9,500.00	\$	
Utility Engineering																	
														\$ -	\$ 8,500.00		
														\$ -	\$ 12,000.00		
														\$ -			
0	0	0	0	0	0	0	0	0	0	0	0	0		\$ -	\$ 20,500.00	\$	
1	1	8	60	32	10			8	24	80		1		\$ 31,009.00			
1	1	8	32	16	6			8	16	40		1		\$ 17,957.00			
1	1	8	24	12	2			8	16	12		1		\$ 12,413.00			
3n																	
2		8	20			4	40			50				\$ 15,182.00			
2		8	15			8	24			32				\$ 11,404.00			
2		8	10			2	8			12				\$ 5,746.00			
9	3	48	161	60	18	14	72	24	56	226	0	3		\$ 93,711.00	\$ -	\$	

	1.5	4	24	50	15	16		36		8	\$ 20,784.00	
1		4			4	16		12	8	12	\$ 5,893.00	
1	1.5	8	24	50	19	32	0	48	8	20	\$ 26,677.00	\$ -

1	0.5	12		12		80				12	\$ 13,056.00	\$ 3,440
1	0.5	12	0	12	0	80	0	0	0	12	\$ 13,056.00	\$ -

2	2	8		4		16	4				\$ 4,874.00	\$ 3,440
2	2	4		4	4	8	4	8			\$ 4,922.00	\$ 3,440
4	4	12	0	8	4	24	8	0	0	0	\$ 9,796.00	\$ -

4		16		16		32	8				\$ 10,340.00	\$ 3,440
4	0	16	0	16	0	32	8	0	0	0	\$ 10,340.00	\$ -

1	1	4	4			8	2	4	12	4	\$ 4,887.00	
		4	8	4		8	2	4		4	\$ 4,512.00	
1	1	8	12	4	0	16	4	8	12	8	\$ 9,399.00	0
0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ 8,000.00
0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ 8,000.00
27	12	168	225	158	45	388	72	96	326	49	\$ 208,215.00	\$ 38,000.00
181.00	\$ 166.00	\$ 157.00	\$ 166.00	\$ 157.00	\$ 127.00	\$ 102.00	\$ 166.00	\$ 123.00	\$ 110.00	\$ 95.00	\$ 72.00	
4,887.00	\$ 1,992.00	\$ 26,376.00	\$ 37,350.00	\$ 24,806.00	\$ 5,715.00	\$ 39,576.00	\$ 11,952.00	\$ 11,808.00	\$ 35,860.00	\$ 1,045.00	\$ 3,528.00	

Personnel														Lump Sum	Sub
Principal Engineer QA/QC	Principal Environmental Scientist QA/QC	Project Manager	Senior Engineer	Senior Environmental Scientist	Project Environmental Scientist	Structural Engineer	Engineer Intern	Sr. Landscape Architect	Landscape Architect	Cadd Technician	GIS Analyst	Clerical	Subtotal Direct Labor Cost	Slantec	ESA
		4					8						\$ 1,444.00		\$ 26,366
													\$ -		
1		4				32	12	6	16	8			\$ 11,189.00		
1		4				20	12	6	24	8			\$ 10,181.00		