

WORK ORDER/PURCHASE ORDER

Contract 18-7432- CZ "Professional Services Library-Coastal Engineering Category"

Contract Expiration Date: March 9, 2025

This Work Order is for professional Engineering services for work known as:

Project Name: 2024 Park Shore Renourishment

Project No: 90067.1

The work is specified in the proposal dated March 19, 2024 which is attached hereto and made a part of this Work Order. In accordance with Terms and Conditions of the Agreement referenced above, this Work Order/Purchase Order is assigned to: APTIM Environmental & Infrastructure, L.L.C

Scope of Work: As detailed in the attached proposal and the following:

- * Task 1 Design, Construction Plans and Specifications
- * Task 2 Bidding Assistance & Notice to Proceed
- * Task 3 Engineer of Record

Schedule of Work: Complete work within 270 days from the date of the Notice to Proceed which is accompanying this Work Order. The Consultant agrees that any Work Order that extends beyond the expiration date of Agreement # 18-7432-CZ will survive and remain subject to the terms and conditions of that Agreement until the completion or termination of this Work Order.

Compensation: In accordance with the Agreement referenced above, the County will compensate the Firm in accordance with following method(s): Negotiated Lump Sum (NLS) Lump Sum Plus Reimbursable Costs (LS+RC) Time & Material (T&M) (established hourly rate – Schedule A) Cost Plus Fixed Fee (CPFF), as provided in the attached proposal.

| | |
|------------------|---------------------|
| Task 1 | \$35,139.00 |
| Task 2 | \$9,887.90 |
| Task 3 | \$57,090.80 |
| TOTAL FEE | \$102,117.70 |

PREPARED BY: MillerAndrew Digitally signed by MillerAndrew Date: 2024.03.21 15:00:58 -04'00'

Andrew Miller, Manager - CZM

Date

APPROVED BY: Johnssen_b Digitally signed by Johnssen_b Date: 2024.03.26 13:00:44 -04'00'

Beth Johnssen, Division Director

Date

MLDA

APPROVED BY: ScottTrinity Digitally signed by ScottTrinity Date: 2024.03.28 16:02:34 -04'00'

Trinity Scott, Department Head


Date



By the signature below, the Firm (including employees, officers and/or agents) certifies, and hereby discloses, that, to the best of their knowledge and belief, all relevant facts concerning past, present, or currently planned interest or activity (financial, contractual, organizational, or otherwise) which relates to the proposed work; and bear on whether the Firm has a potential conflict have been fully disclosed.

Additionally, the Firm agrees to notify the Procurement Director, in writing within 48 hours of learning of any actual or potential conflict of interest that arises during the Work Order and/or project duration.

ACCEPTED BY: APTIM Environmental & Infrastructure, L.L.C



Jeffrey Andrews, Director

03/28/24

Date

(Remainder of page intentionally left blank)



IN WITNESS WHEREOF, the parties hereto, have each, respectively, by an authorized person or agent, have executed this Work Order on the date and year first written below.

ATTEST:

, Clerk of Courts

BOARD OF COUNTY COMMISSIONERS
COLLIER COUNTY, FLORIDA

By: _____

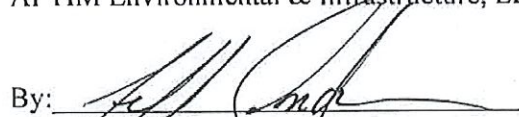
By: _____
, Chairman

Dated: _____
(SEAL)

APTIM Environmental & Infrastructure, LLC.



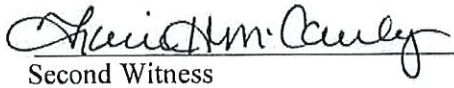
First Witness

By: 

Signature

DOUGLAS W MARTIN
↑Type/print witness name↑


Jeffrey Andrews, Director
↑Type/print signature and title↑



Second Witness

Tracee H.M. Cauley
↑Type/print witness name↑

Approved as to Form and Legality:



Assistant County Attorney

Print Name





APTIM
6401 Congress Avenue, Suite 140
Boca Raton, FL 33487
Tel: +1 561 391 8102
www.aptim.com

March 19, 2024

Andy Miller
Collier County Coastal Zone Management
2685 S. Horseshoe Drive, Unit 103
Naples, FL 34104

Re: Engineering Services for Park Shore Renourishment (Contract No. 18-7432-CZ)

Dear Andy:

This letter is in response to Collier County's (County) request for a proposal for Aptim Environmental & Infrastructure, LLC (APTIM) to support the County in conducting beach renourishment activities on Park Shore (R44-T54) beaches. APTIM will perform professional services including engineering design, preparation of construction plans and technical specifications, coordination with permitting agencies for a Notice to Proceed, and serve as the Engineer of Record for the construction event.

Included as Exhibits are: the Scope of Work (Exhibit A), Fee Proposal (Exhibit B), and the Rate Schedule (Exhibit C). APTIM proposes to provide these services on a lump sum basis with a cost of \$102,117.70 under the terms and conditions of the existing Contract No. 18-7432-CZ and as amended May 7, 2020. Barring any unforeseen circumstances, all work will be completed within 270 days of receiving the Notice to Proceed.

Sincerely,

A handwritten signature in black ink, appearing to read 'Nicole S. Sharp'.

Nicole S. Sharp, P.E.
Director, Coastal Sciences & Engineering
Aptim Environmental & Infrastructure, LLC

A handwritten signature in black ink, appearing to read 'Jeffrey Andrews'.

Jeffrey Andrews, C.H., P.S.M.
Director, Subject Matter Expert
Aptim Environmental & Infrastructure, LLC

cc: James Austin, P.E., APTIM
Steve Keehn, P.E., APTIM



Exhibit A
Scope of Work

**EXHIBIT A
SCOPE OF WORK
PARK SHORE RENOURISHMENT
COLLIER COUNTY, FL
MARCH 2024**

Introduction

This is a scope of work for Aptim Environmental & Infrastructure, LLC (APTIM) to provide the engineering services described below to support the County in preparing the design, plans and specifications, bidding, construction & permit documents for conducting a truck haul beach renourishment project on Park Shore (R44-R54) beaches.

This proposal contains the tasks necessary to bring the project through construction. APTIM will assist the County in preparing for construction by conducting analyses to determine project extents and volumes, producing construction plans and technical specifications, coordinating with FDEP for Notice to Proceed, and providing bidding assistance to the County. APTIM will support the County's inspection efforts during construction and will develop the post-construction certification based largely on the surveys, reports and observation of the contractor and the County during construction.

1. Design, Construction Plans & Specifications

APTIM engineers will perform engineering analysis to determine project extents and estimate volumes needed. The goal of the design will be to place material so that the project area will be able to absorb 5 to 6 years of typical erosion in order to last until the next major nourishment project, barring any major storm events. The design will be based on the matrix design method updated with the latest composite erosion rate and 2023 annual monitoring survey. After review of the preliminary volume estimates, an analysis will be conducted to optimize placement areas and volumes. APTIM will finalize the quantities and fill areas based on consultation with Collier County and permitting agencies. APTIM will support the County with one coordination meeting related to the project with local stakeholders.

APTIM will consult with permit agencies and their consultants, about the newest permit conditions. This will include Specific Conditions described in the November 2017 FDEP Permit No. 0331817-004-JM., which include

- Fill history and incremental volume analysis (paragraph 1.b.)
- Refine beach design to avoid or minimize hardbottom impacts based on the latest physical and biological monitoring surveys.

Once the target volumes and placement areas have been approved by the County, APTIM will conduct engineering design work to prepare the construction templates. APTIM's GIS/CAD professionals will work directly with APTIM engineers to update the construction plans including plan views and cross-sections of project areas, beach access, equipment storage areas, environmental protection areas and other information required for execution of this project.

The construction plans and volumes for bidding will be based on the 2024 annual physical monitoring surveys provided by a third party. Technical specifications developed for the project will integrate the QA/QC plans, environmental standards, and permit conditions into the work.

APTIM will assist the County in preparation of the environmental protection plan, which will be integrated into the bidding documents.

APTIM understands that time is of the essence on this truck haul renourishment project and will have plans, specifications and bidding documents prepared by 7/1/2024 to allow beach renourishment to begin by 11/1/2024, provided that required documentation such as survey data from others and County approvals are received in a timely manner to proceed with the work.

2. Bidding Assistance & Notice to Proceed

Once the construction plans and technical specifications are completed, APTIM will provide the FDEP all items necessary to request a Notice to Proceed (NTP) and provide the County with a bid package containing: construction plans, technical specifications, project permits, bid form, contractor questionnaire, and engineer's opinion of probable costs. The questionnaire will be integrated into the technical specifications.

APTIM will assist the County in their lead of the bidding process. APTIM will participate in the Pre-Bid Meeting via phone conference, and assist the County in answering technical questions as needed during the bidding process. Once the bids have been opened, APTIM will assist the County in reviewing the bids and provide a recommendation to the County based on a review of the submitted bids.

3. Engineer of Record

As the Engineer of Record, APTIM will conduct pre-, during- and post-construction tasks necessary for certification of the project. An APTIM engineer will attend the pre-construction conference and update the construction profiles using the Contractor's pre-placement surveys. During construction, APTIM will support the County's inspection efforts and perform weekly site visits to inspect the work and attend weekly construction meetings. It is assumed that there will be up to 10 weeks of active hauling during construction. APTIM will prepare a QA/QC check list, delineating the County, contractor, inspector and APTIM duties as a guideline for during construction coordination.

APTIM will prepare a post-construction certification to meet permit requirements, based largely on surveys, weight tickets, daily reports and observations made by the contractor and County inspectors. APTIM will also provide a construction and as-built summary based on the contractor's as-built drawings. It is assumed that the annual physical monitoring survey and engineering report will be contracted by the County under separate work order. The third party's annual monitoring report will serve as the post-construction report and may include APTIM's as-built summary as an appendix.

APTIM will review the contractor's pay applications, reconcile and/or review the pay volumes/tonnage based on mine records, weights tickets collected at the beach and physical surveys.

Summary

This work will be performed on a lump sum (LS) basis with a cost of \$102,117.70 as outlined in the attached fee spreadsheet. The overall time of the contract to complete design, construction administration, and Engineer of Record signoff will be within 270 days of receipt of the Notice to Proceed.

Assumptions

- Dune restoration and dune vegetation are not part of this work assignment.
- County inspectors will collect weight tickets, observe delivered sand quality and beach construction, and reconcile sand mine records with weight tickets collected at the beach.
- The County or a third party will perform and prepare reports on the following tasks:
 - 2024 Physical Monitoring
 - Turbidity Monitoring
 - Biological Monitoring and Hardbottom Edge Surveys
 - Submerged Aquatic Vegetation Surveys
 - Marine Turtle Monitoring and Related FWC Coordination
 - Shorebird Monitoring



Exhibit B
Fee Proposal



Exhibit C
Rate Schedule

* * * * *

SCHEDULE B-ATTACHMENT 1
RATE SCHEDULE

| Title | Hourly Rate |
|--|-------------|
| Principal | \$231 |
| Senior Project Manager | \$203 |
| Project Manager | \$160 |
| Senior Engineer | \$177 |
| Engineer | \$130 |
| Senior Inspector | \$126 |
| Inspector | \$93 |
| Senior Planner | \$150 |
| Planner | \$120 |
| Senior Designer | \$140 |
| Designer | \$105 |
| Environmental Specialist | \$120 |
| Senior Environmental Specialist | \$167 |
| Scientist/Geologist | \$115 |
| Senior Scientist/Geologist | \$153 |
| Marine Biologist/Hydrogeologist | \$120 |
| Senior Marine Biologist/Hydrogeologist | \$145 |
| Senior GIS Specialist | \$155 |
| GIS Specialist | \$115 |
| Clerical/Administrative | \$73 |
| Senior Technician | \$103 |
| Technician | \$83 |
| Surveyor and Mapper | \$125 |
| CADD Technician | \$107 |
| Survey Crew - 2 man | \$145 |
| Survey Crew - 3 man | \$180 |
| Survey Crew - 4 man | \$215 |
| Senior Architect | \$160 |
| Architect | \$125 |

The above hourly rates are applicable to Time and Materials task(s) only. The above list may not be all inclusive. Hourly rates for additional categories required to provide particular project services shall be mutually agreed upon by the County and firm, in writing, on a project by project basis, as needed, and will be set forth in the Work Order agreed upon by the parties.

Grant Funded: The above rates are for purposes of providing estimate(s), as required by the grantor agency.

* * * * *

Page 2 of 3

First Amendment to Agreement # 18-7432-CZ
Aptim Environmental & Infrastructure, LLC



Direct Select Form

| | | | |
|---|---------------------------------|---|-----------------------------------|
| Request Date | Contract No. | Proposal Cost Estimate | Construction Cost Estimate |
| 03/07/2024 | 18-7432-CZ | 175,000 | \$2,000,000 |
| Requested By (Use name as it appears in Outlook): Andrew Miller | | Division / Department: Coastal Zone Management | |
| Administrative Agent (If different from Requestor): | | | |
| Library Category: Coastal Engineering | | Vendor Name: APTIM | |
| Work Assignment Title: FY24-FY25 Beach Renourishment | | | |
| Description of Requested Services: Professional engineering services for the design, bidding, permitting, and construction administration for Park Shore Beach Renourishment. | | | |
| Justification: (Select all that apply and explain below) | | <input checked="" type="checkbox"/> Past experience with project <input type="checkbox"/> Continuation of previous work assignment <input type="checkbox"/> Unique qualifications <input type="checkbox"/> Other | |
| Comments / Explanation of Direct Select: APTIM has provided design services for similar efforts and is well acquainted with the project area and renourishment challenges in Park Shore. APTIM is also providing post-design services for the emergency berm in South Naples during the same time that Park Shore will be under construction, so having one Engineer of Record monitoring construction on both projects will be more efficient. (PO 450022753, PO 4500193844) | | | |
| Requestor: Andrew Miller | Signature: MillerAndrew | Digitally signed by MillerAndrew Date: 2024.03.07 12:36:16 -05'00' | Date: |
| Division Director: Beth Johnssen | Signature: Johnssen_b | Digitally signed by Johnssen_b Date: 2024.03.11 15:51:06 -04'00' | Date: |
| Procurement Director/Designee: | Signature: SarahHamilton | Digitally signed by SarahHamilton Date: 2024.03.18 09:32:50 -04'00' | Date: |

Please be sure to attach the fully approved form to the requisition in SAP.