



ARTIBUS DESIGN

ENGINEERING AND PLANNING

Task Order #2309-01

Structural Engineering Design Services

Southernmost Point

Whitehead St, Key West, FL 33040

**Improvements to the seawall, sidewalks and foundations of the
Southernmost Point Bouy and surrounding area.**

Prepared for

City of Key West Engineering Department

September 2023

By:

**Artibus Design LLC,
3710 N Roosevelt Blvd,
Key West, FL 33040**

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TASK ORDER #2309-01, CITY OF KEY WEST



Location Map

Project Description:

Repair existing recreational destination "Southernmost Point" located on the corner of South St. and Whitehead St.

As established in the Structural Evaluation Report, prepared by Artibus Design and dated May 2023, the existing damaged conditions require significant rehabilitation and/or reconstruction. This scope of work intends to provide engineering design for the following:

- Reconstruct sea wall and sea wall cap
 - o Install rip rap barrier
- Construct new or improve foundations of the existing Southernmost Buoy
- Reconstruct concrete sidewalk
 - o Sub-surface improvements below sidewalk
- Reconstruct existing trench drain
- Repair/reconstruct concrete roadway curbs
- Replace concrete benches (aka vehicle barriers)



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Artibus Design LLC is pleased to present this engineering services proposal for the scope described below.

Scope of work:

Task 1. Site evaluation and measurements

- 1.1 Review upland survey and bathymetric survey, provided by City.
- 1.2 Review any available as built or construction drawings (if existing).
- 1.3 Review and coordinate geotechnical exploration and report.
- 1.4 Review and coordinate benthic survey, if required
- 1.5 Site visits to observe and measure existing conditions

Task 2. Construction Drawings

- 2.1 Prepare preliminary drawings and details for review by the City.
- 2.2 Incorporate any changes and comments provided by the City.
- 2.3 Prepare final construction drawings as needed for permitting and construction.

Task 3. Bid Services

- 3.1 Prepare pre-bid meeting agenda.
- 3.2 Run pre-bid conference meeting and mandatory site visit.
- 3.3 Review and respond to bid RFI's.
- 3.4 Review bids and provide recommendations to the City.

Task 4. Construction Administration Services

- 4.1 Review of submittals.
- 4.2 Respond to contractor's RFI's.
- 4.3 Up to five (5) site visits for progress and final inspection.

Deliverables:

1. Preliminary designs in PDF format via e-mail.
2. Five (5) sets of final certified construction drawings.
3. Up to five (5) site visits

Assumptions:

1. City will provide any available documents related to the original construction and improvements.
2. City will provide a detailed updated survey of the "pocket park" and area of work.
 - a. Including, upland spot elevations of significant elements and a 15' o.c. grid throughout
 - b. Bathymetric survey for up to 50' around the area of work with elevations on a 10' o.c. grid
3. It is understood that the work may be terminated at the end of any task, if the City deems it necessary.



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Cost of Work:

The proposed total lump sum fee for this scope of work shall be: \$86,012.00

Task 1. Site Evaluation and Measurements.

Structural Engineer (P.E.):	36 hours @ \$180.00/hr	\$6,480.00
Engineering Technician (non-P.E.)	16 hours @ \$105.00/hr	\$1,680.00
Clerical	4 hours @ \$78.00/hr	\$312.00
Geotechnical exploration and report	\$9,000	\$9,000.00
Benthic Survey (if required)	\$8,000	\$8,000.00

Task 2. Construction Drawings

Structural Engineer (P.E.)	230 hours @ \$180.00/hr	\$41,400.00
Engineering Technician (non-P.E.)	60 hours @ \$105.00/hr	\$6,300.00
Clerical	4 hours @ \$78.00/hr	\$312.00

Task 3. Bid Services

Structural Engineer (P.E.):	20 hours @ \$180.00/hr	\$3,600.00
Engineering Technician (non-P.E.)	2 hours @ \$105.00/hr	\$210.00
Clerical	2 hours @ \$78.00/hr	\$156.00

Task 4. Construction Administration Services

Structural Engineer (P.E.):	40 hours @ \$180.00/hr	\$7,200.00
Engineering Technician (non-P.E.)	10 hours @ \$105.00/hr	\$1,050.00
Clerical	4 hours @ \$78.00/hr	\$312.00

Services and Costs Excluded from Contract

1. Updated survey, provided by City
2. Permitting and application fees



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Schedule of Hourly Rates (Per Approved Contract)

Title or work description	Hourly Rate
Licensed Professional Engineer (P.E.)	\$180.00
Project Manager	\$156.00
Certified Engineer Intern (E.I.)	\$130.00
Structural Inspector (non-P.E.)	\$130.00
Expert Witness (Legal)	\$350.00
Inspector (non-P.E.)	\$105.00
Engineering Technician	\$105.00
Drafting Technician	\$105.00
Clerical	\$78.00

Schedule of Reimbursable Expenses

Item description	Rate
Large Format Prints (Arch-D, 24"x36") Color	\$35.00/Each
Large Format Prints (Arch-D, 24"x36") Black&White	\$15.00/Each
Prints (Tabloid, 11"x17") Color	\$5.00/Each
Prints (Tabloid, 11"x17") Black&White	\$0.75/Each
Prints (8.5"x11") Color	\$0.50/Each
Prints (8.5"x11") Black&White	\$0.25/Each
Binding Large Format	\$50.00/Each
Binding Tabloid and Letter Format	\$20.00/Each
Mailing and Shipping Expenses	Cost + 20%
Travel Expenses (outside Monroe County)	Cost + 20%
Misc. (Discs, Flash Drives, etc.)	Cost + 20%

RR

Client:
Signature _____ Date _____
Albert Childress
City Manager

By:
Signature _____ Date _____
Serge Mashtakov, PE
President, Artibus Design LLC