



TerraMareConsulting
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January 28, 2026

Megan Wepfer
Public Works Director
City of Madeira Beach
300 Municipal Drive
Madeira Beach, FL 33708

RE: Proposal for Professional Surveying, Engineering & Permitting Services
Johns Pass Jetty

Dear Ms. Wepfer:

Thank you for the opportunity to present our proposal to provide Survey, Engineering, Permitting and Construction Observation Services for the City of Madeira Beach's John's Pass Jetty paving project. It is our understanding that the city wishes to re-construct a paved surface on the John's Pass Jetty with asphalt, concrete or similar products. It is also our understanding that the re-constructed jetty will be required to meet ADA requirements.

We offer the following:

I. SURVEY:

Terra Mare Consulting will coordinate with a local surveyor to provide the required surveying services. The survey requirements include establishing the City owned property boundary, establishing vertical and horizontal control, topography of the jetty and upland access areas and establishing the mean high higher, mean high water & mean low water elevations relative to the jetty.

II. GEOTECHNICAL INVESTIGATION:

Geotechnical Services may be required depending on the type of pavement system that is selected to be constructed and required to respond to environmental permitting requirements. Below is an estimate of the required services.

1. Conduct Ground Penetrating Radar services to determine the location and depth of sand over the jetty structure.
2. Perform 4 soft digs to confirm the location, type and material of the substructure.

III. CONSTRUCTION DRAWINGS AND SPECIFICATIONS:

- a. Prepare site construction plans and specifications for the jetty pavement replacement including ADA access requirements, construction staging area & access and erosion control.



IV. ENVIRONMENTAL PERMITTING:

The city initiated the permitting process in January 2025 by requesting pre-application meetings with Pinellas County Government, the Florida Department of Environmental Protection (FDEP) and the U.S. Army Corps of Engineers (ACOE). To date there have been several zoom pre-application meetings with the agencies and the city has determined the agencies are requiring a permit and construction plan submittal before the agencies can determine what permits will be required. Therefore, the below permitting items will be invoiced on an hourly basis. The estimate fee range is based on a best-case permitting requirements and probable worst case permitting requirements.

a. ARMY CORPS OF ENGINEERS

ACOE staff have requested the city submit plans and specifications to Section 408 Team Members and staff will determine the course of ACOE permitting. The ACOE permitting may require submittals to Regulatory Staff through Section 404. Additional information may be required to be submitted to meet Section 408 requirements such as meeting the Endangered Species Act Consultation requirements.

b. FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

FDEP will require permitting through the Beach, Inlets, and Ports Program (BIPP).

c. PINELLAS COUNTY GOVERNMENT

Pinellas County's Public Works Department & the Water & Navigation Department will require the plans and specifications to be submitted to determine what permitting is required.

V. BIDDING & CONSTRUCTION OBSERVATION SERVICES:

- a. Terra Mare Consulting will prepare the bid advertisement and respond to requests for additional information as requested by the bidding contractors.
- b. Shop Drawing Review - review and take appropriate action on Contractor submittals, such as shop drawings, product data, and samples.
- c. Terra Mare Consulting shall make site visits in order to observe the progress and quality of the work completed by the Contractor. Based on the pre-application meeting with ACOE, it is assumed an inspector will be required to be onsite during all construction activities. Estimated construction time is 15 working days.
- d. Terra Mare Consulting will coordinate and process payments between the city and the selected contractor.



- e. Perform a construction Final Walk Through and Punch List to provide to the contractor.

VI. ENVIRONMENTAL PERMITTING CLOSE OUT:

This task is to close out the environmental permits as required. Typical close-out tasks may include an as-built survey of the project, certifications or monitoring requirements.

We will provide the above Services for a Total Lump Sum Fee for each task as provided below. The Services listed below as hourly rates will be invoiced per the attached hourly rate schedule for work performed. Our estimated fee range is our best guess based on the information received at the pre-application meetings with the permitting agencies.

I: SURVEY: Six Thousand Nine Hundred Dollars, **\$6,900.00**

II: GEOTECHNICAL INVESTIGATION: ESTIMATE **\$5,500.00**

III. CONSTRUCTION DRAWINGS & SPECS: Nine Thousand Dollars, **\$9,000.00**

IV. ENVIRONMENTAL PERMITTING: Hourly Rates Estimate, **\$30,000.00. Fee Range (\$4,500 - \$30,000.00)**

V. BIDDING & CONST. OBSERVATION: Sixteen Thousand Dollars, **\$16,000.00**

VI. ENVIRONMENTAL PERMITTING CLOSE OUT: Hourly Rates Estimate, **\$7,500.00. Fee Range (\$500.00 - \$7,500.00)**

Hourly Items/Exclusions: We will assist with any items not specifically listed above at our hourly fee schedule upon request. This proposal does not include: Any items not specifically listed above or included in items.

VII. The following reimbursable expenses will be invoiced as additional services:

- Express delivery charges
- Printing charges

VIII. To Be Provided By Client:

- Permit application fees.
- Electric Service and/or Special Site lighting design if needed.
- Any environmental studies, wetland delineations, reports, endangered/listed species/bald eagle studies, etc.

If this proposal is acceptable, please provide a purchase order as our authorization to proceed.



SCHEDULE "1"
2026 Terra Mare Consulting Schedule of Rates

Category	Description	Rate
SPM	Senior Project Manager	\$260
SEM	Senior Engineer/Project Manager	\$240
CS	Construction Inspector	\$155
EM	Project Engineer	\$150
ES	Engineering Specialist	\$125
SD	Senior Designer	\$125
ISI	Industry Specialist (Landscape Architect)	\$130
STI	Survey Tech	\$100
DI	Designer/Technician	\$125
ES	Environmental Scientist	\$125
AI	Project Assistant/Clerical	\$80
S3	Survey Manager	\$165
S2	Project Surveyor	\$150
SI	Field Surveyor	\$67
	3-Person Survey Crew	\$210
	2-Person Survey Crew	\$160
	1-Person Survey Crew	\$120
	Survey Crew Day Rate w/drafting & PM	\$1700
	Survey Hydro Crew Day Rate	\$3900

Terra Mare Consulting

Albert Carrier, P.E., PSM
Principal