



October 27, 2014  
New Business 7-e  
CB&I Coastal Planning & Engineering, Inc.  
2481 NW Boca Raton Blvd.  
Boca Raton, FL 33431  
Tel: +1 561 391 8102  
Fax: +1 561 391 9116  
www.CBI.com

October 22, 2014

Gary McAlpin, Director  
Collier County Coastal Zone Management  
2800 N. Horseshoe Drive  
Naples, FL 34104

**Re: Collier County Marco Island Design, Permitting, Construction Plans & Specifications  
(Contract No. 13-6164-CZ "Professional Services: Architect and Engineering")**

Dear Gary:

This letter is in response to Collier County's request for a proposal for CB&I Coastal Planning & Engineering, Inc. (CB&I) to perform staff engineering tasks under the above referenced contract, to support the County during preparations for a truck haul construction on Marco Island. CB&I will design the fill placement templates, pursue minor permit modifications to allow for the use of upland sand sources, produce construction plans and technical specifications, and provide bidding assistance to the County. A detailed scope of work is attached in Exhibit A.

A fee proposal is included as Exhibit B, and the rate schedule is provided as Exhibit C. The cost with time and materials is not to exceed \$58,072.00.

All work will be completed within 270 days of receiving the Notice to Proceed.

Very truly yours,

Thomas P. Pierro, P.E., D.CE.  
Director  
CB&I Coastal Planning & Engineering, Inc.

cc: Gail Hambright, Collier County Government  
Tara Brenner, P.G., CB&I  
Stephen Keehn, P.E., CB&I

**Confidentiality Statement**

*The information contained in this proposal is confidential commercial information and shall not be disclosed, except for evaluation purposes, provided that if a contract is awarded to CB&I Environmental & Infrastructure, Inc. as a result of or in connection with the submission of this proposal, the requester shall have the right to use or disclose the data to the extent provided in the contract. This restriction does not limit the requestor's right to use or disclose any technical data obtained from another source without restriction.*



**Exhibit A**  
**Scope of Work**

**South Marco Island: Design, Permitting, Construction Plans & Specifications**  
**Collier County, Florida**  
**Scope of Work**  
**Contract Number 13-6164**

## Introduction

Federal Emergency Management Agency (FEMA) has authorized the renourishment of South Marco Island with 15,000cy of sand as a result of damages incurred from Tropical Storm Debby. CB&I Coastal Planning & Engineering Inc. (CB&I) will provide the engineering services described below as required to obtain minor permit modifications from FDEP and USACE and bids to conduct a truck haul beach renourishment on Marco Island.

### 1. Design

Assuming the County will provide data from an existing 2014 monitoring survey for use as the pre-construction design condition, CB&I surveyors will review the survey data and engineers will design fill placement templates in accordance with the existing permits. The objectives of the design will be to place sand in accordance with FEMA's PW and to cap, to the greatest extent possible, existing beach material with the aesthetically pleasing white sand from the upland source.

The design fill template will include berm elevations and range from the R-monument, design slopes and taper sections. Volume calculations will be completed to determine the quantity of sand needed to fill the template at each profile. The distribution of sand will be in accordance with the FEMA PW and the established permit limits. A complete set of design documents will be provided to the County for review. Upon approval from the County, CB&I will incorporate this final design into the construction documents.

### 2. Permitting

On behalf of the County, CB&I will pursue minor permit modifications to existing South Marco Island Nourishment permits (FDEP: Permit No. 0235209-003-JC and USACE: Permit No. SAJ-2005-2726 (IP-MN)). The modifications will be to allow for the use of upland sand sources for nourishment of South Marco Island.

CB&I will provide the additional sand source data to FDEP in order to add the three previously permitted upland sand mines (Stewart's Immokalee, Vulcan Witherspoon & CEMEX Lake Wales). Geologists familiar with these upland sand sources and the County's needs will conduct compatibility analyses and provide an upland sand source sediment QA/QC plan. Beach samples from the most recent nourishment project will be used to represent existing beach conditions for FDEP requirements.

It is expected that a minor permit mod for use of upland sands will result in the USACE reinitiating consultation with U.S. Fish and Wildlife Service (USFWS) in order to amend the Biological Opinion (BO) to include an upland sand source for this project. Part of this coordination will likely include consultation on possible impacts to the Florida panther due to the

transport from upland mines to the project area. Recently listed loggerhead turtle critical habitat is not located within the project area; however, the USACE may choose to consult with USFWS and National Marine Fisheries Service (NMFS) for potential impacts to critical habitat located immediately south of the project area. CB&I biologists and engineers will coordinate with the FDEP, Florida Fish and Wildlife Conservation Commission (FWC), USACE, USFWS and NMFS and reply to their requests for additional information to support the modifications to the FDEP and USACE permits to allow use of upland sand sources. This proposal assumes that the minor permit modifications will not require preparation of a Biological Assessment (BA) or Essential Fish Habitat (EFH) Assessment.

### **3. Construction Plans & Specifications**

CB&I will prepare construction documents including construction plans and specifications necessary for bidding the project. CB&I will prepare technical specifications and supplemental general provisions to support the County's bid process. Detailed drawings incorporated into the plans will be prepared to scale and will serve as the basis for the contract drawings in the final package sent to prospective bidders. Drawings will include the topographic & bathymetric survey data, in plan and profile views and include construction access points and easements. Submittals will be provided to the County for review and comment. We will revise any changes promptly and furnish the final construction drawings for approval prior to reproduction of signed and sealed copies of the plans suitable for distribution to FDEP and the County. CB&I will also provide the constructions plans and specifications in pdf format, suitable for electronic bidding.

Final cost estimates will be provided as well as a bid schedule, which will include a detailed estimate of the quantities and work to be performed for bidding purposes. Components of the Contract Documents that will be provided include the following:

1. Technical Specifications
2. Appendix Information (Permits, sediment QA/QC plans, and any other relevant information).

### **4. Bidding Assistance**

CB&I will assist the County in their lead of the bidding process. CB&I will prepare for, and attend the Pre-Bid Meeting, answer prospective Contractor/Bidder inquiries and transcribe Contractor/Bidder inquiries for subsequent research and response to all Meeting attendees as determined by the County. During the bidding period, CB&I will communicate frequently with County staff regarding the County's receipt of prospective Contractor/Bidder written inquiries seeking interpretation of the Contract Documents, and assist in providing written responses as determined by the County.

Once the bids have been opened, CB&I will obtain copies of submitted bids from the County and shall review them for accuracy, completeness and Contractor qualifications. CB&I will provide a recommendation to the County based on a review of the submitted bids.

In support of acquiring a Notice to Proceed from FDEP, CB&I will submit the following information:

1. Sediment analysis results of a recent sample collected from the upland sand mine, representative of the fill that will be used for construction of this project.
2. Turbidity monitoring qualifications. The names and qualifications of individuals performing water quality functions along with 24-hour contact information shall be submitted for approval.

### Summary

This work will be performed on a time and materials (T&M) basis with a cost not to exceed \$58,072 as outlined in the attached fee spreadsheet. The work will be completed within 270 days of receipt of the Notice to Proceed.



**Exhibit B**  
**Fee Proposal**

**EXHIBIT B**  
**FEE PROPOSAL FOR**  
 South Marco Design, Permitting, Construction Plans & Specs, and Bidding Assistance  
 COLLIER COUNTY, Contract No. 13-6164

October 22, 2014

Task Item	Cost	Senior Project Manager	Senior Engineer	Engineer	Senior Planner/ Professional Geologist	Scientist/Geologist	Marine Biologist/Hydrogeologist	Senior Marine Biologist/Hydrogeologist	Senior GIS Specialist/ Senior CAD Specialist	CADD Technician	Surveyor and Mapper	Project Manager / Professional Surveyor & Mapper	Clerical/ Administrative
		(Hours)	(Hours)	(Hours)	(Hours)	(Hours)	(Hours)	(Hours)	(Hours)	(Hours)	(Hours)	(Hours)	(Hours)
1 Design	\$14,158.00	6	16	80							4	2	
2 Permitting	\$19,506.00	6	10	50	10	16	8	48					6
3 Construction Plans & Specifications	\$17,026.00	6	16	50					16	60			4
4 Bidding Assistance	\$7,382.00	4	16	34									
	Total Hours =	22	58	214	10	16	8	48	16	60	4	2	10
	Rate =	\$172	\$157	\$123	\$139	\$93	\$110	\$138	\$139	\$81	\$120	\$147	\$62
	Cost =	\$3,784	\$9,106	\$26,322	\$1,390	\$1,488	\$880	\$6,624	\$2,224	\$4,860	\$480	\$294	\$620
<b>TOTAL</b>	<b>\$58,072.00</b>												



**Exhibit C  
Rate Schedule**



Exhibit C  
**SCHEDULE B: RATE SCHEDULE**

Title	Standard Hourly Rate
Principal	\$ 206.00
Senior Project Manager	\$ 172.00
Project Manager	\$ 147.00
Senior Engineer	\$ 157.00
Engineer	\$ 123.00
Senior Inspector	\$ 96.00
Inspector	\$ 76.00
Senior Planner	\$ 139.00
Planner	\$ 110.00
Senior Designer	\$ 114.00
Designer	\$ 94.00
Environmental Specialist	\$ 109.00
Senior Environmental Specialist	\$ 134.00
Scientist/Geologist	\$ 93.00
Senior Scientist/Geologist	\$ 118.00
Marine Biologist/Hydrogeologist	\$ 110.00
Senior Marine Biologist/Hydrogeologist	\$ 138.00
Senior GIS Specialist	\$ 139.00
GIS Specialist	\$ 102.00
Clerical/Administrative	\$ 62.00
Senior Technician	\$ 85.00
Technician	\$ 72.00
Surveyor and Mapper	\$ 120.00
CADD Technician	\$ 81.00
Survey Crew - 2 man	\$ 130.00
Survey Crew - 3 man	\$ 161.00
Survey Crew - 4 man	\$ 189.00
Senior Architect	\$ 154.00
Architect	\$ 121.00

This list is not intended to be all inclusive. Hourly rates for other categories of professional, support and other services shall be mutually negotiated by Collier County and firm on a project by project basis as needed.