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November 18, 2014

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

**Re: Collier County Wiggins Pass Dredge Analysis & Design, Construction Plans & Specifications, Permitting and Bid Assistance  
(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 maintenance of Wiggins Pass. CB&I will conduct a dredge analysis to determine maintenance and disposal areas, produce construction plans and technical specifications, perform a pre-construction survey, coordinate with FDEP for a Notice to Proceed 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 \$62,992.75.

<b>Tasks 1-4</b>	<b>\$35,031.50</b>
<b>Contingent Task 5</b>	<b>\$27,961.25</b>
<hr/>	
<b>Total</b>	<b>\$62,992.75</b>

All work will be completed within 150 days of receiving the Notice to Proceed.

Very truly yours,

A handwritten signature in blue ink, appearing to read 'Tom P.', with a stylized flourish at the end.

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

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



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

**Wiggins Pass: Dredge Design, Construction Plans & Specifications, FDEP NTP and  
Bidding Assistance  
Collier County, Florida  
Scope of Work  
Contract Number 13-6164**

## **Introduction**

In spring 2013, Wiggins Pass underwent maintenance dredging that removed 107,370 cubic yards of material from the pass; as planned, it will require interim dredging on approximately a two-year schedule. CB&I Coastal Planning & Engineering Inc. (CB&I) will provide the engineering services described below as required to obtain a notice to proceed from FDEP and review bids to conduct maintenance of Wiggins Pass.

This proposal contains the tasks necessary to bring the project through bidding, as well as a contingent task. This proposal does not include pre-, during-, or post-construction services, such as pre-construction meeting attendance, construction observations, project certification or post-construction surveys.

### **1. Dredge Design**

This interim dredging event, which was anticipated and is already permitted, is intended to be limited in scope to address hot spot accretional areas within the channel. The August 2014 monitoring survey will be used as the pre-construction design condition for analysis of dredge and disposal areas. CB&I engineers will review the August 2014 conditions against the permitted dredge template to identify infilling that has occurred since the 2013 dredging event and determine areas requiring interim maintenance. These maintenance dredge areas will be numbered and prioritize through consultation with the Coastal Zone Management Department to meet County objectives. Disposal areas for each dredge area will be identified and delineated within the permitted disposal areas. The objectives of the interim dredge design will be to improve navigation at the major checkpoints. This will not be a comprehensive maintenance dredging event.

Volume calculations will be completed to determine the quantity of sand to be dredged in each maintenance dredge area. An interim design and a complete set of design documents will be provided to the County for review. Upon approval from the County, CB&I will incorporate this design into the construction documents.

### **2. Construction Plans & Specifications**

CB&I will prepare construction documents including construction plans and specifications necessary for bidding the project. The construction plans will include plan views and cross-sections sufficient for the construction of the channel dredging project. The plans will provide survey control information which will allow the contractor to clear out accretional areas within the channel. The spoil site will be delineated within the disposal locations permitted by FDEP and USACE permit conditions. The plans and specifications will incorporate instructions for mechanical excavation. The plans will be based on the August 2014 survey and documents from

previous plans and specifications. The disposal areas will be positioned to minimize channel shoaling.

Specifications developed for the project will include: Technical Specifications with Environmental Protection Summary. We will integrate the QA/QC plan, turbidity standards, and permit conditions into the work. The Engineer will provide plans and specifications in Acrobat and Word format. The quantities will be based on the August 2014 survey.

### **3. Notice to Proceed**

CB&I will work to expedite the receipt of a Notice to Proceed from the agencies. In support of acquiring a Notice to Proceed, CB&I will coordinate with FDEP and submit the following information:

1. Two (2) copies of the plans and specifications.
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.

A copy of the plans and specifications will also be provided to the USACE in Fort Meyers, FL.

### **4. Bidding Assistance**

CB&I will assist the County in their lead of the bidding process. CB&I will attend the Pre-Bid Meeting, and will prepare a basic addendum if needed. Once the bids have been opened, CB&I will assist the County in reviewing the bids and provide a recommendation to the County based on a review of the submitted bids.

### **5. Pre-Construction Survey (contingent upon County directive)**

Due to the highly variable nature of Wiggins Pass, it is recommended that the dredge plan and quantities be updated at the time of construction. This contingent task is for CB&I to conduct a pre-construction survey of the channel. CB&I surveyors will conduct topographic and bathymetric surveys of 12 beach profiles and 51 channel cross sections as depicted in the monitoring plan dated June 2012. All work activities and deliverables shall be conducted in accordance with the *March 2014 BBCS Monitoring Standards for Beach Erosion Control Projects, Sections 01000, 01100 and 01200*. This survey may serve as the permit required annual monitoring survey.

This data will be used to confirm dredge and spoil locations as well as update the dredge quantities.

This task will be a NTP item by the County.

## Summary

This work will be performed on a time and materials (T&M) basis with a cost not to exceed \$62,992.75 as outlined in the attached fee spreadsheet. The work will be completed within 150 days of receipt of the Notice to Proceed.

## 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 B  
Fee Proposal**

**EXHIBIT B**  
**TIME & MATERIALS FEE PROPOSAL FOR**  
**Wiggins Pass Dredge Design, Construction Plans & Specs, NTP and Bidding Assistance**  
**COLLIER COUNTY, Contract No. 13-6164**

November 17, 2014

Task Item	Cost	LABOR COSTS										INDIRECT COSTS					EQUIPMENT COSTS				
		Senior Project Manager (Hours)	Senior Engineer (Hours)	Engineer (Hours)	Senior Marine Biologist/Hydrogeologist (Hours)	Senior GIS Specialist/Senior CAD Specialist (Hours)	CADD Technician (Hours)	Survey Crew - 3 man (Hours)	Surveyor and Mapper (Hours)	Project Manager / Professional Surveyor & Mapper (Hours)	Clerical/Administrative (Hours)	Lodging (Daily)	Meals (Daily)	Mileage (Daily)	Tolls	Survey Boat 24' (Daily)	RTK GPS (Daily)	Heave, Pitch & Roll Compensator (Daily)	Speed of Sound Velocity Meter (Daily)	Hypack/Hysweep Navigation System (Daily)	Odom Hydrotrac Sounder (Daily)
1 Dredge Design	\$12,372.00	4	6	52		6	36		2	2	1										
2 Construction Plans & Specifications	\$14,943.25	3	16	64		4	40				2		250	1							
3 Notice to Proceed	\$3,806.00	1	2	22	4						1										
4 Bidding Assistance	\$3,910.25	2	9	16							1		250	1							
5 Pre-Construction Survey (Contingent)	\$27,961.25	2	8	20			4	32	54	40	5	9	12	250	1	2	2	2	2	2	2
	Total Hours =	12	41	174	4	10	80	32	56	42	10	9	12	750	3	2	2	2	2	2	2
	Rate =	\$172	\$157	\$123	\$138	\$139	\$81	\$161	\$120	\$147	\$62	\$136	\$36	\$0.445	\$12.00	\$790	\$495	\$215	\$63	\$260	\$165
	Cost =	\$2,064	\$6,437	\$21,402	\$552	\$1,390	\$6,480	\$5,152	\$6,720	\$6,174	\$620	\$1,224	\$432	\$334	\$36	\$1,580	\$990	\$430	\$126	\$520	\$330
<b>TASKS 1-4</b>	<b>\$35,031.50</b>																				
<b>CONTINGENT TASK 5</b>	<b>\$27,961.25</b>																				
<b>TOTAL</b>	<b>\$62,992.75</b>																				



**Exhibit C  
Rate Schedule**



Exhibit C  
**SCHEDULE B: RATE SCHEDULE**

<b>Title</b>	<b>Standard Hourly Rate</b>
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.