

EXPLANATION OF CONSENT AGENDA ITEM E.2.c. (22) July 29, 2015

ITEM:

A--Consideration of approving a purchase order to CH2M under their general engineering services contract for design and permitting updates to the previously designed and permitted construction of a new bulkhead at NCB8 in addition to bidding services in an amount not to exceed \$185,842. (Crowe/Hicks)

B--Consideration of authorizing staff to issue a formal solicitation for the construction of a new bulkhead at NCB8. (Crowe/Hicks)

EXPLANATION:

A - NCB8 Bulkhead Improvements were originally designed by then Halcrow in 2011 in conjunction with Cruise Terminal 6 improvements. At that time, CT6 improvements were authorized and NCB8 was put on hold. Currently, there is a strong business case for NCB8 bulkhead improvements for Ro/Ro cargo including Autos. This task order will allow CH2M to update design drawings and permitting for the bulkhead and include bidding services. Construction phase services are included in the proposal backup for \$228,340; however, are not being authorized at this time.

B - Once design and permitting updates are completed, this agenda item will allow staff to solicit statements of qualifications from prospective bidders for the construction of the berth. The request for qualifications and proposals will be a two-step process following which the lowest qualified bidder will be submitted to the Commission for approval at a later commission meeting.

Funding Review by Finance (Pat Poston): The total NTE amount of \$185,842 will exceed the FY15 Capital Budget. If approved, this item will require an increase of \$3,520. [Budget item 1842 - North Cargo Pier 8]

Staff recommends approval.

Prepared by: Bill Crowe, P.E.





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July 21, 2015

CH2M HILL \$185,842.00

Canaveral Port Authority
445 Challenger Road, Suite 301
Cape Canaveral, FL 32920

Attn: Mr. David Perley, AIC/CPE
Senior Director, Port Construction and Infrastructure

Re: Proposal for Engineering Order - CPA 2015-32: NCB 8 Berth – Design and Permitting

In accordance with the provisions of our June 18, 2014, General Engineering Professional Services Contract, CH2M HILL Engineers, Inc. is pleased to submit the following proposal for professional services in connection with the NCB 8 Berth. Below is an in-depth description of our scope of services.

Scope of Services

Background

Continued expansion of cargo operations at Port Canaveral require construction of new deep berth facility to be located at the east side of the CT5 Basin. The new berth was previously designed by Halcrow and after bid and award, the design was modified to shift the berth approximately 100 feet to the east. NCB 8 has since been on hold due to higher priority projects. As requested by CPA Engineering, NCB 8 will be shifted back to its original position and modified to accommodate a future extension to the south and a future Ro-Ro berth (NCB 7) where the tug pier is presently located. Dredging will be phased with an initial berth depth of -35 feet (MLLW). A future second phase of dredging will extend the berth depth to -43 feet (MLLW) which will be executed in a separate project. Please find below the engineering design scope and work stipulations.

Engineering Services

The general scope of services is described herein and consists of the following tasks:

- Task 1 Permitting Services
- Task 2 Engineering Design
- Task 3 Services During Bidding- to be determined at a future date
- Task 4 Services During Construction – to be determined at a future date

Task 1. Permitting Services

The consultant will provide the following permitting services:

- Provide dredge material volume estimates to CPA and their environmental testing consultants, for preparation of a Tier 1 analysis required for section 103 authorization to place dredge materials at the Canaveral Harbor ODMDS. Project depth will be -35 feet

(MLLW) with an allowable overdepth of 1 foot. All work to show compliance with Marine Protection Research and Sanctuaries Act (MPRSA) regulations.

- Prepare Environmental Resource Permit (ERP) modification requests to Florida Department of Environmental Protection (FDEP) and US Army Corps of Engineers (USACE) permits. Draft applications will be initially submitted to CPA for review and comment prior to agency submittal.
Provide up to two (2) responses to agency Requests for Additional Information (RAI). This task will be limited to project information that does not require supplemental technical analyses or project modifications to mitigate impacts to environmental resources or water quality, or otherwise require non-conventional methods or means to construct the proposed improvements.
- Attendance at three (3) coordination meetings with regulatory agencies to identify and resolve areas of concern prior to permit submittal. CH2M Hill cannot be responsible for regulatory agency delays.

Assumptions:

- Existing hydrographic surveys will be adequate for determination of dredge material volumes.
- Permit application fees for permits are not included in the project scope.
- Technical analyses to evaluate flushing capacity or impacts to listed species would be performed under separate agreement. Proposal does not include design and permitting for storm water collection and treatment.

Task 2. Engineering Design

The Consultant will provide the following design services:

- Obtain the services of a Professional Surveyor to provide an updated topographical survey of the site. Update site plans to reflect the existing conditions. Update demolition drawings to show existing conditions and to limit the demolition to the area impacted by the original berth position.
- Design provisions for the relocation of the west tug berth to the east side of the existing tug pier. Delete the new tug finger pier from the construction documents. Scope includes waterfront structures and excludes relocation and/or modification of tenant landside facilities.
- Modify bid/construction set drawings to construct the berth in the original position that provides approximately 400 feet between the CT5 "berth box" and the NCB 8 "berth box." Incorporate the additive alternate relieving platform extensions into the base project. Update construction details and construction sequence using lessons learned from the NCB 5 and 6 project.
- Modify the structural engineering design of the new wharf south end wall to accommodate a future finger pier extension to the south and a future Ro-Ro berth (NCB 7) to the east. Modify the mooring dolphins that will be constructed south of the end wall, so that they can be removed and reused when the finger pier is constructed.

- Inventory the Owner Purchased Material that was purchased for NCB 8 by CPA during the construction of CT6. Modify the bid/construction drawings to show these items as "Owner Provided Material."
- Update the two ship's water stations to the new standards that are presently being developed. Delete the berth lighting and associated electrical works from the project. As per the original project, paving, fire protection, and stormwater collection and treatment are not part of this project, and will be designed and constructed under a separate future project.
- Investigate the cost savings verses load capacity reduction if steel pipe piling were used in lieu of 18" concrete piling to support the relieving platform. Provide a technical memo report of the findings. If warranted, the use of pipe piling would be shown as a deductive alternate on the bid/construction drawings.
- Attendance at six (6) design coordination meetings.
- Preparation of Opinion of Probable Construction Cost at 100 percent Design.

Assumptions:

- Coordination with tenants for relocation and/or removal of tenant facilities will be provided by CPA.
- Review sets of drawings and specifications will be submitted at 90 and 100 percent completion.

Task 4. Services During Bidding – to be determined at a future date

Task 5. Services During Construction – to be determined at a future date

Project Schedule

It is estimated that it will require approximately two (2) months to complete dredging permit tasks and two (2) months for engineering design. If there are protracted delays for reasons beyond our control, we would expect to negotiate with you an equitable adjustment of our not-to-exceed budgets and schedule taking into consideration the impact of such delay.

Price

The Consultant shall be paid on a cost basis in accordance with the General Contract dated June 18, 2014, in the amount of \$185,842.00.

Terms and Conditions

Opinions of Cost

In providing opinions of cost for the project, Consultant has no control over cost or price of labor and materials; unknown or latent conditions of existing equipment or structures that may affect operation or maintenance costs; competitive bidding procedures and market conditions; time or quality of performance by operating personnel or third parties; and other economic and operation factors that may materially affect the ultimate project costs. Therefore, Consultant makes no warranty that the Port's actual project costs will not vary from Consultant's opinions or estimates. If the Port wishes greater assurance as to any element

of project cost, the Port will employ an independent cost estimator, contractor, or other appropriate advisor.

Acceptance of Proposal

Acceptance of this proposal may be indicated by the signature of a duly authorized official of the Port in the space provided below. One signed copy of this proposal returned to the Consultant will serve as an Agreement between the two parties and as Notice to Proceed. Should this proposal not be accepted within a period of thirty (30) days from the above date, it shall become null and void.



Max Mozo, P.E.
Geographic Operations Manager
CH2M HILL ENGINEERS, Inc.

Accepted By:
CANAVERAL PORT AUTHORITY

David Perley, AIC/CPE
Senior Director, Port Construction and Infrastructure
Canaveral Port Authority

Date

Approved at CPA Commission Meeting on _____

Canaveral Port Authority

2015-32 NCB8 Berth Design & Permit

7/21/2015

Task	CH2M										TOTAL	SUB CONSULTANTS ARC	Task Budget
	Principal	PD	Sr Prof 1	Sr PM	PM	Sr Tech	Staff Prof	Jr Staff Prof	Tech Staff	TOTAL			
1 Permitting	0	8	80	16	0	0	40	0	16	160		\$26,500.0	
2 Design	40	8	80	24	24	0	40	40	20	32			
		8		24			40	40	40	216			
		16		80			24	24	10	90			
		8		24			8	8	10	58			
		16		40			24	24	20	124			
		16		80			8	8	20	132			
		24		30			8	8	20	82			
		40		40			8	8	60	148			
3 Bidding	40	168	0	382	24	0	112	88	200	962	7500	\$157,342.0	
4 Construction Administration	0	0	0	0	0	0	0	0	0	0	0	\$0.0	
5 Not used	0	0	0	0	0	0	0	0	0	0	0	\$0.0	
Total Manhours	40	176	80	398	24	0	152	88	216	1122			
Rate	\$265	\$254	\$206	\$159	\$139	\$172	\$112.5	\$92	\$59				
Labor	\$10,600	\$44,704	\$16,480	\$63,282	\$3,336	\$0	\$17,100	\$8,096	\$12,744	\$176,342	\$7,500	\$0	
Expenses												\$2,000	
Subconsultants												\$7,500	
Totals												\$185,842	
Total Not To Exceed Budget											checksum	\$185,842	