COASTAL PLANNING & ENGINEERING OF NORTH CAROLINA, INC.

4038 MASONBORO LOOP ROAD, WILMINGTON, NC 28409 910-791-9494 PHONE 910-791-4129 FAX

October 19, 2017

Robert L. Outten
Dare County
954 Marshall C Collins Dr. Room 286
Manteo, NC 27954

Re: Dare County Beach Nourishment Project
Recommendation for Payment of Invoice 006 (Revised October 19, 2017)
Great Lakes Dredge and Dock (GLDD)

Dear Mr. Outten:

Attached is GLDD's invoice for work performed through October 10, 2017. **We recommend payment in the amount of $2,070,759.53.** The line items contained in the invoice are discussed below.

Item # III.A: Town of Kitty Hawk Beach Fill

GLDD requested payment for 269,759.00 cubic yards ($2,063,656.35) of beach and dune fill. We have reviewed the survey data and have verified that a minimum of 269,759.00 cubic yards have been placed within the dune and beach fill template between Stations 105+00 to 121+00 along the Town of Kitty Hawk project at a cost of $7.65 per cubic yard. The acceptance sections from Stations 105+00 to 121+00 have been accepted. Per SGC-14.10, the contractor may request monthly progress payment based on completed acceptance sections, when a minimum of five (5) Acceptance Sections have been completed, surveyed and accepted. Therefore, we recommend payment of the requested amount, which is $2,063,656.35 less 5% retainage.

Item # V.A: Sand Fencing (Kitty Hawk)

GLDD requested payment for the installation of 777 10-Foot Sections of sand fencing at $40.00 per section for a total cost of $31,080.00. We have verified that a minimum of 777 sections were installed between Stations 0+50 and 76+00 as of October 10, 2017. GLDD has met the specification SGC-19; therefore, we recommend payment of the requested amount, which is $31,080.00 less 5% retainage.

Item # VII.D: Sea Turtle Relocation Trawling

GLDD has requested payment for 14 days of relocation trawling between September 11 and October 10, bringing the total number of days of trawling to 156.1625. We have verified that trawlers were in operation for a minimum of 8 hours per day for days warranting the full day rate. GLDD has met the specification SGC-13; therefore, we recommend payment in the requested amount of $63,700.00 less 5% retainage.

Retainage

The contract specifies a 5% retainage on all payments. The cost of the work performed during this pay period is $2,158,436.35. This results in a retainage for this invoice of $107,921.82. Previously, CPE-NC has estimated a cost of $30,000 to correct those items included in the tentative list of items to be completed associated with the Duck project. CPE-NC has verified that the items have been resolved. In order to resolve the item associated with repaving and repairing parts of the parking lot at the USACE FRF, GLDD has agreed that the County should retain $9,755 of the retainage to cover these expenses. Given all other items associated with the Duck project have been resolved, CPE-NC recommends releasing the balance of the $30,000 retainage being held for the Duck project, which totals $20,245.00.

Following the retainage associated with this invoice of $107,921.82 and the release of retainage in the amount of $20,245.00, the balance of the retainage held by the County is $733,994.87.

Payment Summary

Item No.	Item	Unit	Quantity	Unit Prices	CO#2 Cost	Quantity To Date	Invoice #6 Earnings
I. A.	Mobilization/Demobilization	L.S.	1	$8,150,000.00	$8,150,000.00	81.36%	$0.00
I.A-1	Mobilization/Demobilization (Southern Shores)	L.S.	1	$85,000.00	$85,000.00	100.0%	$0.00
I. B.	Performance and Payment Bond	L.S.	1	$300,000.00	$300,000.00	100%	$0.00
I. C.	Compliance Surveys of Borrow Area	L.S.	1	$64,000.00	$64,000.00	50.0%	$0.00
I. D.	Sea Turtle Abundance Trawling	Days	0	$4,600.00	$0.00	0	$0.00
II. A.	Hydraulic Beach Fill (Town of Duck)	C.Y.	1,180,000	$8.60	$10,148,000.00	1,129,747.00	$0.00
II. A-1.	Optional Additional 20% Beach Fill if only Borrow Area C is used to Construct the Town of Duck	C.Y.	236,000	$0.00	$0.00	39,146.50	$0.00
II. B.	Staging Area Beach Access Mats	L.F.	1,120	$105.00	$117,600.00	735.00	$0.00
III. A.	Hydraulic Beach Fill (Town of Kitty Hawk)	C.Y.	1,765,000	$7.65	$13,502,250.00	1,532,836.00	$2,063,656.35
III. B.	Hydraulic Beach Fill (Southern Shores)	C.Y.	80,000	$9.70	$776,000.00	80,000.00	$0.00
IV. A.	Hydraulic Beach Fill (Town of Kill Devil Hills)	C.Y.	840,000	$7.40	$6,216,000.00	817,359.00	$0.00
	Additive Items						$0.00
V. A.	Sand Fencing (Kitty Hawk)	10 Ft Sections	1,900	$40.00	$76,000.00	1,190	$31,080.00
	Discretionary Items						$0.00
VI. A.	Mobilization/Demobilization for Beach Discharge Screening	L.S.	0	$70,000.00	$0.00	0	$0.00
VI. B.	Beach Discharge Screening	Days	0	$3,500.00	$0.00	0	$0.00
VI. C.	Removal of Screened Beach Discharge Material	C.Y.	0	$11.55	$0.00	0	$0.00
VI. D.	Dredge Intake Screening	C.Y.	0	$2.30	$0.00	0	$0.00

VI. E.	Mobilization for Removal of Oversized Material from Constructed Beach	L.S.	0	$8,000.00	$0.00	0	$0.00
VI. F.	Removal of Oversized Material from Constructed Beach	Days	0	$3,200.00	$0.00	0	$0.00
VII. A.	Turbidity Monitoring	Days	0	$2,250.00	$0.00	0	$0.00
VII. B.	Mobilization/Demobilization for Tilling	L.S.	0	$5,500.00	$0.00	0	$0.00
VII. C.	Beach Tilling	Acre	0	$585.00	$0.00	0	$0.00
VII. D.	Sea Turtle Relocation Trawling	Days	180	$4,550.00	$819,000.00	156.16	$63,700.00
VII. E.	Hopper Dredge Standby Rate (Per Dredge)	Days	0	$210,000.00	$0.00	0	$0.00
VII. F.	Cutterhead Dredge Standby Rate (Per Dredge)	Days	0	$177,500.00	$0.00	0	$0.00
VIII. A.	Sand Fencing (Kill Devil Hills)	10 Ft Sections	0	$40.00	$0.00	0	$0.00
VIII. B.	Sand Fencing (Duck)	10 Ft Sections	0	$40.00	$0.00	0	$0.00

Total Earned To Date:	**$36,149,630.58**
Total Retainage Withheld:	**$733,994.86**
Earnings Minus Retainage:	**$35,415,635.71**
Previous Paid:	**$33,344,876.18**
Earnings This Period:	**$2,158,436.35**
Retainage This Period:	**$107,921.82**
Retainage Released (KDH)	**$20,245.00**
Amount Due This Invoice:	**$2,070,759.53**

Note Quantities and Unit Price represent values established in CO #2.

The following table provides a breakdown of costs incurred for each Town's project based on Invoice 006. Items I.A through I.D, excluding item I.A-1, are being paid for at a pro-rated basis by the Towns of Duck, Kitty Hawk and Kill Devil Hills. These pro-rated percentages, which are based on the initial contract volume being placed in each Town, are Town of Duck – 31.2%, Town of Kitty Hawk – 46.6%, and Town of Kill Devil Hills – 22.2%. As established by CO#2, the Town of Southern Shores has a separate mobilization and demobilization fee for which it will pay 100% of the cost.

Town	Item	Invoice #6 Total
Duck	Items I.A. - I.D.	$0.00
	Staging Areas Beach Access Mats	$0.00
	Hydraulic Beach Fill	$0.00
	Relocation Trawling	$0.00
	SUB TOTAL:	$0.00
	RETAINAGE (5%)	$0.00
	RETAINAGE RELEASED:	$20,245.00
	TOTAL DUE:	**$20,245.00**
Southern Shores	Items I.A. - I.D.	$0.00
	Hydraulic Beach Fill	$0.00
	Relocation Trawling	$0.00
	SUB TOTAL:	$0.00
	RETAINAGE (5%)	$0.00
	RETAINAGE RELEASED:	$0.00
	TOTAL DUE:	**$0.00**
Kitty Hawk	Items I.A. - I.D.	$0.00
	Hydraulic Beach Fill	$2,063,656.35
	Sand Fencing	$31,080.00
	Relocation Trawling	$63,700.00
	SUB TOTAL:	$2,158,436.35
	RETAINAGE (5%)	$107,921.82
	TOTAL DUE:	**$2,050,514.53**
Kill Devil Hills	Items I.A. - I.D.	$0.00
	Hydraulic Beach Fill	$0.00
	Relocation Trawling	$0.00
	SUB TOTAL:	$0.00
	RETAINAGE (5%)	$0.00
	RETAINAGE RELEASED:	$0.00
	TOTAL DUE:	**$0.00**
	Earnings This Period:	**$2,158,436.35**
	Retainage This Period:	**$87,676.82**
	Amount Due This Invoice:	**$2,070,759.53**

Please call me if you have any questions.

Sincerely,

COASTAL PLANNING & ENGINEERING, INC.

Julien Devisse, P.E.
Project Manager

cc: Ken Willson, CPE-NC
Chris Layton, Town of Duck
Peter Rascoe, Town of Southern Shores
Andy Stewart, Town of Kitty Hawk
Debbie Diaz, Town of Kill Devil Hills

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