COASTAL PLANNING & ENGINEERING OF NORTH CAROLINA, INC.

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

November 27, 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 007 (Revised November 20, 2017)
Great Lakes Dredge and Dock (GLDD)

Dear Mr. Outten:

Attached is GLDD's invoice for work performed through November 10, 2017. **We recommend payment in the amount of $4,002,146.47.** The line items contained in the invoice are discussed below.

Item # I.A: Mobilization & Demobilization

GLDD has completed construction of the Kitty Hawk portion of the project. A certification of substantial completion was issued on October 25, 2017. GLDD has met the specification SGC-10.2 requiring completion of the final demobilization of all equipment and personnel and is therefore eligible for payment of the remaining 40% of the lump sum price. Therefore, we recommend payment in the requested amount of $1,519,160.00, less 5% retainage.

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

GLDD requested payment for 232,164 cubic yards ($1,776,054.60) of beach and dune fill. We have reviewed the survey data and have verified that a minimum of 232,164 cubic yards have been placed within the dune and beach fill template between Stations 121+00 to 150+00 along the Town of Kitty Hawk project at a cost of $7.65 per cubic yard. The acceptance sections from Stations 121+00 to 150+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 $1,776,054.60.

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

GLDD requested payment for the installation of 710 10-Foot Sections of sand fencing at $40.00 per section for a total cost of $28,400.00. We have verified that a minimum of 710 sections were installed between Stations 76+00 and 150+00 as of November 10, 2017. GLDD has met the specification SGC-19; therefore, we recommend payment of the requested amount, which is $28,400.00.

Item # VII.D: Sea Turtle Relocation Trawling

GLDD has requested payment for 7 days of relocation trawling between October 11 and October 21, bringing the total number of days of trawling to 163.1625. 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 $31,850.00.

Retainage

The contract specifies a 5% retainage on all payments. The cost of the work performed during this pay period is $3,355,464.60; however, no retainage is recommended to be held for the beach fill for Kitty Hawk, sand fencing, or the sea turtle relocation trawling. This results in a retainage for this invoice of $75,958.00 for the demobilization of Kitty Hawk. As previously discussed, GLDD has agreed that the County should retain $9,755 of the retainage to correct items included in the tentative list of items to be completed associated with the Duck project. Therefore, the $9,755 will be deducted from Item I.A and will be finalized via Change Order at the completion of the project.

Following the retainage associated with this invoice of $75,958.00 and the release of retainage in the amount of $722,639.87, the balance of the retainage held by the County is $87,313.00.

Payment Summary

Item No.	Item	Unit	Quantity	Unit Prices	CO#2 Cost	Quantity To Date	Invoice #7 Earnings
I. A.	Mobilization/Demobilization	L.S.	1	$8,150,000.00	$8,150,000.00	100%	$1,519,160.00
I.A-1	Mobilization/Demobilization (Southern Shores)	L.S.	1	$85,000.00	$85,000.00	100%	$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	133,768.00	$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	1,765,000.00	$1,776,054.60
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						
V. A.	Sand Fencing (Kitty Hawk)	10 Ft Sections	1,900	$40.00	$76,000.00	1,900	$28,400.00
	Discretionary Items						

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	163.16	$31,850.00
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:	**$39,505,095.18**
Total Retainage Withheld:	**$733,994.87**
Earnings Minus Retainage:	**$38,771,100.30**
Previous Paid:	**$35,415,635.71**
Earnings This Period:	**$3,355,464.60**
Retainage This Period:	**$75,958.00**
Retainage Released:	**$722,639.87**
Amount Due This Invoice:	**$4,002,146.47**

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 #7 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:	$0.00
	TOTAL DUE:	**$0.00**
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.	$1,519,160.00
	Hydraulic Beach Fill	$1,776,054.60
	Sand Fencing	$28,400.00
	Relocation Trawling	$31,850.00
	SUB TOTAL:	$3,355,464.60
	RETAINAGE (5%)	$75,958.00
	RETAINAGE RELEASED	$722,639.87
	TOTAL DUE:	**$4,002,146.47**
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:	**$3,355,464.60**
	Retainage This Period:	**$75,958.00**
	Retainage Released This Period:	**$722,639.87**
	Amount Due This Invoice:	**$4,002,146.47**

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

P:\North Carolina\DARE COUNTY PROJECTS\6362089241_Dare County Construction Services\Correspondence\Pay Recommendation Letters\Pay App #7\GLDD Payment Request Recommendation 7.docx