

<b>Change Order</b>	<b>Change Order Number:</b> 003
Contractor: Great Lakes Dredge & Dock Company, LLC.	Page 1 of 2
	<b>Date:</b> August 31, 2017

**Dare County Beach Nourishment Project**

**Description:**

The Kitty Hawk dune between Stations 6+50 and 47+00 was constructed with a 1V:2H landward dune slope beginning at the "Landward Limit of Dune" line as directed. Due to the landward location of the houses between Stations 35+00 and 46+00, there is a gap between the constructed dune and the existing dune pushes.

The Kitty Hawk dune between Stations 35+00 and 46+00 shall be relocated landward so that the landward dune crest is constructed at the "Landward Limit of Dune" line. The landward dune slope shall be constructed at a 1V:5H to allow for pedestrian access to the beach.

The cost for 2 bulldozers and beach security to realign the dune between Stations 35+00 and 46+00 was estimated at \$572.38 per hour by GLDD. Furthermore, GLDD estimated that the dune realignment will take no more than 12 hours for a maximum cost of \$6,868.50. It is assumed that Great Lakes will utilize equipment that is currently on-site.

**Purpose:**

To realign the location of the Kitty Hawk dune between Stations 35+00 and 46+00.

**Contract Quantity:**

The Kitty Hawk Dune Realignment quantity increased from 0 to 12.  
Other quantities remain unchanged.  
The quantities for Change Order 002 and 003 are provided in the table below.

**Contract Time:**

No change has been made to the contract time.

**Contract Cost:**

The Kitty Hawk Dune Realignment cost has increased \$6,868.50 from \$0.00 to \$6,868.50.  
The total contract cost has increased \$6,868.50 from \$40,253,850.00 to \$40,260,718.56.  
The bid and change order costs are provided in the table below.

<b>CPE-NC Agreement:</b>	<b>Prime CONTRACTOR Agreement:</b>	<b>Dare County Agreement:</b>
Agreed (Y/N): Yes	Agreed (Y/N):	Approved (Y/N): 9/20/17 <i>yes</i>
Signature/Title/Date:  <i>Julie Din</i> Project Manager/August 31, 2017	Signature/Title/Date:	Signature/Title/Date:  <i>[Signature]</i> Co. Mgr

"This instrument has been preaudited in the manner required by the Local Government Budget and Fiscal Control Act."  
*Sally DeFosse 9/20/17*

Item No.	Item	Unit	CO#2 Quantity	CO#3 Quantity	Unit Prices	CO#2 Cost	CO#3 Cost
I. A.	Mobilization/Demobilization	L.S.	1	1	\$8,150,000.00	\$8,150,000.00	\$8,150,000.00
I.A.-1.	Mobilization/Demobilization (Southern Shores)	L.S.	1	1	\$85,000.00	\$85,000.00	\$85,000.00
I. B.	Performance and Payment Bond	L.S.	1	1	\$300,000.00	\$300,000.00	\$300,000.00
I. C.	Compliance Surveys of Borrow Area	L.S.	1	1	\$64,000.00	\$64,000.00	\$64,000.00
I. D.	Sea Turtle Abundance Trawling	Days	0	0	\$4,600.00	\$0.00	\$0.00
II. A.	Hydraulic Beach Fill (Town of Duck)	C.Y.	1,180,000	1,180,000	\$8.60	\$10,148,000.00	\$10,148,000.00
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	236,000	\$0.00	\$0.00	\$0.00
II. B.	Staging Area Beach Access Mats	L.F.	1,120	1,120	\$105.00	\$117,600.00	\$117,600.00
III. A.	Hydraulic Beach Fill (Town of Kitty Hawk)	C.Y.	1,765,000	1,765,000	\$7.65	\$13,502,250.00	\$13,502,250.00
III. B.	Hydraulic Beach Fill (Town of Southern Shores)	C.Y.	80,000	80,000	\$9.70	\$776,000.00	\$776,000.00
IV. A.	Hydraulic Beach Fill (Town of Kill Devil Hills)	C.Y.	840,000	840,000	\$7.40	\$6,216,000.00	\$6,216,000.00
V. A.	Kitty Hawk Dune Realignment (Stations 35+00 to 46+00)	Hours	0	12	\$572.38	\$0.00	\$6,868.56
<b>Additive Items</b>							
V. A.	Sand Fencing (Kitty Hawk)	10 Ft Sections	1,900	1,900	\$40.00	\$76,000.00	\$76,000.00
<b>Discretionary Items</b>							
VI. A.	Mobilization/Demobilization for Beach Discharge Screening	L.S.	0	0	\$70,000.00	\$0.00	\$0.00
VI. B.	Beach Discharge Screening	Days	0	0	\$3,500.00	\$0.00	\$0.00
VI. C.	Removal of Screened Beach Discharge Material	C.Y.	0	0	\$11.55	\$0.00	\$0.00
VI. D.	Dredge Intake Screening	C.Y.	0	0	\$2.30	\$0.00	\$0.00
VI. E.	Mobilization for Removal of Oversized Material from Constructed Beach	L.S.	0	0	\$8,000.00	\$0.00	\$0.00
VI. F.	Removal of Oversized Material from Constructed Beach	Days	0	0	\$3,200.00	\$0.00	\$0.00
VII. A.	Turbidity Monitoring	Days	0	0	\$2,250.00	\$0.00	\$0.00
VII. B.	Mobilization/Demobilization for Tilling	L.S.	0	0	\$5,500.00	\$0.00	\$0.00
VII. C.	Beach Tilling	Acre	0	0	\$585.00	\$0.00	\$0.00
VII. D.	Sea Turtle Relocation Trawling	Days	180	180	\$4,550.00	\$819,000.00	\$819,000.00
VII. E.	Hopper Dredge Standby Rate (Per Dredge)	Days	0	0	\$210,000.00	\$0.00	\$0.00
VII. F.	Cutterhead Dredge Standby Rate (Per Dredge)	Days	0	0	\$177,500.00	\$0.00	\$0.00
VIII. A.	Sand Fencing (Kill Devil Hills)	10 Ft Sections	0	0	\$40.00	\$0.00	\$0.00
VIII. B.	Sand Fencing (Duck)	10 Ft Sections	0	0	\$40.00	\$0.00	\$0.00
<b>Total</b>						<b>\$40,263,850.00</b>	<b>\$40,263,850.00</b>