



**AGENDA REPORT**  
**December 7, 2017**

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**SUBJECT:**

Mims Boat Ramp Muck Removal Project Construction – Approval of Change Order No. 1 to Bid B-3-17-27

**FISCAL IMPACT:**

\$302,014.38 - State Legislative Funding (Contract No. S0714)

**DEPT/OFFICE:**

Natural Resources Management

**REQUESTED ACTION:**

It is requested that the Board of County Commissioners authorize the County Manager to execute the attached Change Order with Florida Dredge & Dock LLC to obtain off-site fill material necessary to construct the containment berm for the temporary dewatering facility.

**SUMMARY EXPLANATION and BACKGROUND:**

Five muck dredging project locations were selected by Brevard as part of the County managed restoration initiative funded by the State Legislature by 2014-2017 appropriations: Turkey Creek, Cocoa Beach Canals, Mims Boat Ramp, Sykes Creek and the Grand Canal. The Mims Boat Ramp Muck Dredging Project is fully permitted, funded through State appropriations, and the Notice to Proceed was issued on November 3, 2017. The attached Change Order with Florida Dredge and Dock, LLC is for constructing the temporary dewatering facility for the Mims Boat Ramp Muck Dredging Project.

The Contractor interpreted the bid documents to allow for construction of the containment berm using material from within the property leased from the Florida Inland Management District (FIND) to provide a temporary dewatering facility for the Mims Boat Ramp Muck Dredging Project. The Contractor bid according to his interpretation. The bid documents included a discrepancy that would support this interpretation. Due to environmental constraints within this property owned by FIND, the Contractor will be required to use an off-site borrow source for construction of the containment berm. A Change Order is needed to address this issue.

Bid Items 15 and 16 are for covering the impermeable liner and constructing the containment berm, respectively. Both items are required for constructing the temporary dewatering facility. Item 15 includes costs for the liner material, required cover/fill material, and grading of the cover/fill material over the liner. Item 16 includes costs for excavation, transport, and grading of fill material to construct the containment berms. Both Bid Items require use of off-site fill material. The Contractor's unit costs for Bid Items 15 and 16 are increased to account for use of an off-site borrow source for these bid items.

The attached Change Order reflects the following changes: (a) an increase in cost as a result of the need to obtain off-site fill material to construct the containment berms for the temporary dewatering facility (cost increase - \$326,999.38), (b) a cost deduction for removal of silt fence along pipeline route (cost deduction - \$24,985.00) and (c) a potential additional cost deduction for site restoration at the property where the temporary dewatering facility will be constructed contingent upon direction from FIND on how the site is to be restored (potential cost deduction - \$10,000). The total Change Order amount reflects a cost increase of \$302,014.38. Even with the cost increase associated with the attached Change Order, Florida Dredge and Dock, LLC remains the low bidder. The attached Change Order will be funded by the State grant through contract No. S0714 with no impact to the Save Our Indian River Lagoon Trust Fund or County General Funds.

Additional explanation/justification for execution of the proposed Change Order is as follows:

- The Engineer's cost estimate is \$3.4 million.
- Florida Dredge & Dock LLC's original bid is \$1,898,867.42
- With the Change Order increase of \$302,014.38 the contract value increases to \$2,200,881.80.

- Florida Dredge and Dock LLC's contract value after the Change Order is \$143,581.65 lower than the second lowest bid.
- Increased cost for containment berm and impermeable liner reflect a reasonable increase in trucking costs due to added distance between upland borrow area and dewatering facility

Once executed by all parties, Florida Dredge and Dock, LLC, will initiate construction of the containment berm for the dredged material dewatering facility for the Mims Boat Ramp Muck Dredging project.

**CLERK TO THE BOARD INSTRUCTIONS:**

Execute 3 originals – one for the Clerk of Courts, one for NRMD, and one for Florida Dredge & Dock LLC

**ATTACHMENTS:**

**Description**

- [Attachment A: Florida Dredge & Dock Change Order](#)

**REVIEWERS:**

Department	Reviewer	Action
Natural Resources Management	McGarry, Mike	Approved
Natural Resources Management	Barker, Virginia 	Approved
ACM Development	Denninghoff, John	Approved
County Manager	Abbate, Frank	Approved

County Manager	Assistant County Manager	Department Director / Extension Virginia Barker/ (321) 633-2016
Frank Abbate	John Denninghoff, P.E.	

BCC-149 (Rev.6-8-2015) / Electronic Form



Tammy Rowe, Clerk to the Board, 400 South Street • P.O. Box 999, Titusville, Florida 32781-0999

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December 8, 2017

**M E M O R A N D U M**

**TO:** Virginia Barker, Natural Resources Management Director

**RE:** Item II.A.1., Change Order No. 1 to Bid #B-3-17-27 with Florida Dredge and Dock, LLC for Mims Boat Ramp Removal Project Construction

The Board of County Commissioners, in regular session on December 7, 2017, authorized the County Manager to execute the Change Order with Florida Dredge & Dock LLC to obtain off-site fill material necessary to construct the containment berm for the temporary dewatering facility. Enclosed are four copies of the Change Order.

**Upon execution by the County Manager and Florida Dredge & Dock LLC, please return a fully executed copy of Change Order No. 1 to this office for inclusion into the official record.**

Your continued cooperation is always appreciated.

Sincerely,

BOARD OF COUNTY COMMISSIONERS  
SCOTT ELLIS, CLERK

Tammy Rowe, Deputy Clerk

Encls. (4)

cc: County Manager  
Finance  
Budget

CHANGE ORDER NO. 01 to Bid No. B-3-17-27

**Project Title:** Mims Boat Ramp Muck Removal Project

**Contractor:** Florida Dredge and Dock, LLC

**Date:** November 21, 2017

**Proposed Contract Modification – Supplemental Information:**

Description of Change

Decrease

Increase

Description of Change	<u>Decrease</u>	<u>Increase</u>
<b>01-A</b>	<b>(\$24,985.00)</b>	
Bid Item 5 – Delete the installation of the silt fencing along both sides of the pipeline corridor along Hammock Street where there are no soil disturbing activities (i.e. where pipeline is laying on surface). Erosion control measures are still required where soil is disturbed (directional bore entry/exit, dewatering site, drying areas, staging areas, etc.).		
<b>01-B</b>		<b>\$165,340.70</b>
Bid Item 15 – Increase the unit price of this bid item to \$10.8685 / SY. This is based on 43,300 SY of liner with 22,248 CY of cover material bid at \$4.04/SY for the liner, \$3.74/CY for the borrow, and \$2.118/CY for grading. The change in the borrow source increased the borrow cost to \$11.1719/CY (no change to liner and grading costs) resulting in the increased unit price for the bid item.		
<b>01-C</b>		<b>\$161,658.69</b>
Bid Item 16 – Increase the unit price of this bid item to \$16.8719/CY. This is based on 21,752 CY of borrow material bid at \$3.74/CY for the borrow, and \$5.70/CY for grading. The change in the borrow source increased the borrow cost to \$11.1719/CY (no change to the grading costs) resulting in the increased unit price for the bid item.		
<b>Sub-Total Decrease/Increase:</b>	<b>(\$24,985.00)</b>	<b>\$326,999.38</b>
<b>Net Increase in Contract Amount w/ CO-01:</b>		<b>\$302,014.38</b>

<b>01-D</b>	<b>(\$10,000.00)</b>	
Bid Item 26 – Increase of \$10,000 in the <b>potential</b> deduction (credit) to \$30,000 for stockpiling the berm material on-site in place of hauling the borrow material offsite associated with restoration of the dewatering site. It has not yet been determined if FIND will require the borrow material to be hauled off site or if they will allow the borrow to be stockpiled on site. <u>This change will not impact the contract price unless Bid Item 26 is elected and the material is allowed to be stockpiled on site.</u>		
<b>New Total Change in Contract Amount if Bid Item 26 is Elected:</b>	<b>(\$30,000.00)</b>	

Mims Boat Ramp Dredging - Florida Dredge & Dock		Original Bid Cost				Proposed Cost w/ CO-01				Net Change in Cost w/ CO-01	Notes
Bid Item	Item Description	Estimated Quantity	Unit	Unit Cost	Lump Sum Total	Revised Quantity	Unit	Unit Cost	Lump Sum Total	Lump Sum Total	
<b>General Conditions</b>											
1	Mobilization/Demobilization - Site Work	1	LS	\$ 80,220.00	\$ 80,220.00		LS				
2	Mobilization/Demobilization - Dredging	1	LS	\$ 45,000.00	\$ 45,000.00		LS				
3	Maintenance of Traffic	1	LS	\$ 10,000.00	\$ 10,000.00		LS				
4	Environmental Protection	1	LS	\$ 20,000.00	\$ 20,000.00		LS				
5	Erosion and Sediment Control	1	LS	\$ 24,985.00	\$ 24,985.00		LS	\$ 0.00	\$ 0.00	\$ (24,985.00)	Deduct for removal of silt fence along pipeline route
6	Material Testing	1	LS	\$ 20,000.00	\$ 20,000.00		LS				
7	Pre- and Post-Construction Conditions Video Recording	1	LS	\$ 5,000.00	\$ 5,000.00		LS				
<b>Pipeline Corridor</b>											
8	Pipeline Corridor Surface/Floating Installation	1	LS	\$ 90,000.00	\$ 90,000.00		LS				
9	Directional Drill Road Crossing	1	Each	\$ 40,000.00	\$ 40,000.00		Each				
10	Open Cut Road Crossing	2	Each	\$ 5,000.00	\$ 10,000.00		Each				
<b>Dewatering Facility</b>											
11	Survey (Pre, Staking, and As-Built)	1	LS	\$ 11,250.00	\$ 11,250.00		LS				
12	Clearing, Grubbing, and Grading	1	LS	\$ 51,800.00	\$ 51,800.00		LS				
13	Internal Diking and Water Control Facilities	1	LS	\$ 3,630.00	\$ 3,630.00		LS				
14	Construction Access Road	1,476	SY	\$ 27.50	\$ 40,590.00		SY				
15	Impermeable Liner	43,300	SY	\$ 7.05	\$ 305,265.00	43,300	SY	\$ 10.8885	\$ 470,605.70	\$ 165,340.70	Revised based on new borrow cost
	Liner Cost	43,300	SY	\$ 4.04	\$ 174,932.00	43,300	SY	\$ 4.04	\$ 174,932.00		No changes
	Borrow Delivered Cost	22,248	CY	\$ 3.74	\$ 83,207.52	22,248	CY	\$ 11.1719	\$ 248,652.43		Adjustment for new borrow source location
	Grading Cost	22,248	CY	\$ 2.118	\$ 47,121.26	22,248	CY	\$ 2.1180	\$ 47,121.26		No changes
16	Containment Berm	21,752	CY	\$ 9.44	\$ 205,338.88	21,752	CY	\$ 16.8719	\$ 366,997.57	\$ 161,658.69	Revised based on new borrow cost
	Borrow Delivered Cost	21,752	CY	\$ 3.74	\$ 81,352.48	21,752	CY	\$ 11.1719	\$ 243,011.17		Adjustment for new borrow source location
	Grading Cost	21,752	CY	\$ 5.70	\$ 123,986.40	21,752	CY	\$ 5.70	\$ 123,986.40		No changes
17	Sod	20,011	SY	\$ 2.64	\$ 52,829.04		SY				
18	Complete Dewatering Facility Site Restoration	1	LS	\$ 131,020.00	\$ 131,020.00	1	LS	\$ -			
<b>Dredging</b>											
19	Survey (Pre, Staking, Pay, and As-Built)	1	LS	\$ 20,000.00	\$ 20,000.00	1	LS				
20	Environmental Protection	1	LS	\$ 10,000.00	\$ 10,000.00	1	LS				
21	Muck Dredging	30,935	CY	\$ 9.70	\$ 300,069.50	30,935	CY				
22	Muck Disposal	30,935	CY	\$ 2.00	\$ 61,870.00	30,935	CY				
23	Turbidity Monitoring	1	LS	\$ 25,000.00	\$ 25,000.00	1	LS				
<b>Debris Removal</b>											
24	Debris Removal	1	LS	\$ 15,000.00	\$ 15,000.00	1	LS				
<b>Effluent Treatment - Phosphorus Removal</b>											
25	Phosphorus Removal to 100 ppb or less	1	LS	\$ 220,000.00	\$ 220,000.00	1	LS				
<b>***Base Bid Total***</b>					\$ 1,798,867.42				\$ 2,100,881.80	\$ 302,014.38	

Mims Boat Ramp Dredging - Florida Dredge & Dock		Original Bid Cost				Proposed Cost w/ CO-01				Net Change in Cost w/ CO-01	
Bid Item	Item Description	Estimated Quantity	Unit	Unit Cost	Lump Sum Total	Revised Quantity	Unit	Unit Cost	Lump Sum Total	Lump Sum Total	Notes
<b>Deduct Bid Item - 26</b>											
Bid Item	Item Description	Quantity	Unit	Unit Cost	Total	Quantity	Unit	Unit Cost	Total		
<b><u>Dewatering Facility</u></b>											
26	Deduction for Dewater Site Restoration w/ On-Site Stockpiling of Berm Material	1	LS	\$ 20,000.00	\$ 20,000.00	1	LS	\$ 30,000.00	\$ 30,000.00	N/A	Revised based on new borrow cost/location
<b>Additional Bid Item - 27A</b>											
Bid Item	Item Description	Quantity	Unit	Unit Cost	Total	Quantity	Unit	Unit Cost	Total		
<b><u>Effluent Treatment - Nitrogen Removal</u></b>											
27A	Nitrogen Removal to 1000 ppb or less	1	LS	\$ 100,000.00	\$ 100,000.00	1	LS		NO CHANGE		
<b>Additional Bid Item - 27B</b>											
Bid Item	Item Description	Quantity	Unit	Unit Cost	Total	Quantity	Unit	Unit Cost	Total		
<b><u>Effluent Treatment - Nitrogen Removal</u></b>											
27B	Nitrogen Removal to 2000 ppb or less	1	LS	\$ 40,000.00	\$ 40,000.00	1	LS		NO CHANGE		
<b>Additional Bid Item - 27C</b>											
Bid Item	Item Description	Quantity	Unit	Unit Cost	Total	Quantity	Unit	Unit Cost	Total		
<b><u>Effluent Treatment - Nitrogen Removal</u></b>											
27C	Nitrogen Removal to 3000 ppb or less	1	LS	\$ 10,000.00	\$ 10,000.00	1	LS		NO CHANGE		

CHANGE ORDER NO. 01 to Bid No. B-3-17-27

**Project Title:** Mims Boat Ramp Muck Removal Project

**Contractor:** Florida Dredge and Dock, LLC

**Date:** November 21, 2017

**Contract Funds**

Original Contract Amount: **\$1,898,867.42**  
 Previous Change Orders: **\$0**  
 Previous Contract Sum: **\$1,898,867.42**  
 Current Change Order: **\$302,014.38**  
 New Contract Total: **\$2,200,881.80**

**Contract Time**

NTP Date: 11/03/2017  
 Previous Change Orders: N/A days  
 Original Completion Date: 07/01/2018  
 Current Change Time: N/A days  
 New Completion Date: N/A

**Previous Contract Modifications:**

Description of Change (Attach additional sheets if required)	Decrease	Increase
NONE		

**Proposed Contract Modification:**

Description of Change (Attach additional sheets if required)	Decrease	Increase
Bid Item 5 - Deduction for no silt fence along pipeline corridor	(\$24,985.00)	
Bid Item 15 - Increase in unit cost for transport of fill from new borrow area		\$165,340.70
Bid Item 16 - Increase in unit cost for transport of fill from new borrow area		\$161,658.69
Bid Item 26 - Potential additional deduction for stockpiling berm material on-site	(\$10,000.00)	

Substantial Completion Date (180 calendar days): May 2, 2018

Final Completion Date (240 calendar days): July 1, 2018

This Change Order is an amendment to the Contract Agreement between Contractor and the Owner, and all contract provisions shall apply unless specifically exempted. The amount and time change designated are the maximum agreed to by both the Owner and the Contractor for this change. In consideration of the foregoing adjustments in contract time and contract amount, the Contractor hereby releases Owner from all claims, demands or causes of action arising out of the transactions, events and occurrences giving rise to this Change Order. This written Change Order is the entire agreement between Owner and Contractor with respect to this Change Order. No other agreements or modifications shall apply to this Contract amendment unless expressly provided herein. This Change Order represents final action relating to this Change Order.

**AGREED:**

\_\_\_\_\_  
Signature (Contractor)

\_\_\_\_\_  
Signature (Owner)

\_\_\_\_\_  
Name and Title

Frank Abbate, County Manager  
Name and Title

\_\_\_\_\_  
Date

12/7/17  
Date

Approved by Board 12/7/17