



Woodward/APC, A Joint Venture
1000 South Norman C. Francis Parkway
New Orleans, Louisiana 70125
Phone: (504) 822-6443

Project: 1001 - RTA Canal Street Ferry Terminal Project
54 Canal Street (Intersection of Convention Center Blvd. & Canal Street)
New Orleans, Louisiana 70130
Phone: (504) 822-6443

Prime Contract Change Order Request #026: CE #076 - Revisions to Temporary Barge Scope of Work Based on 05/03/21 Shipyard Meeting

TO:	Regional Transit Authority 2817 Canal Street New Orleans Louisiana, 70119	FROM:	Woodward/APC, A Joint Venture 1000 S Jefferson Davis Parkway New Orleans Louisiana, 70125
DATE:	5/7/2021	ATTN:	Stephen Mitchell (<i>Regional Transit Authority</i>)
CHANGE ORDER REQUEST NUMBER / REVISION:	026 / 1	PRIME CONTRACT CHANGE ORDER:	None
STATUS:	Pending - In Review	CREATED BY:	Tom Abernathy (<i>Woodward Design+Build, LLC</i>)
SCHEDULE IMPACT:	51 days	DATE CREATED:	5 /4/2021
		TOTAL AMOUNT:	\$ 224,976.69

CHANGE ORDER REQUEST TITLE: CE #076 - Revisions to Temporary Barge Scope of Work Based on 05/03/21 Shipyard Meeting

CHANGE ORDER REQUEST DESCRIPTION:

CE #076 - Revisions to Temporary Barge Scope of Work Based on 05/03/21 Shipyard Meeting
Revision 1 - 05/07/2021

This change order request is for additional work requested by the RTA during the 05/03/21 meeting at the shipyard. At the meeting twelve new non-electrical work items were identified. These are listed below.

The pricing from C&C Marine Repair is for the twelve scope change items. The attachment has a pricing breakdown by Item Number. Note the electrical scope changes will be priced in a separate change order request.

- Item No. 1:** Crop & renew (C/R) lower half of formed side and bilge knuckle for barge length (shoreside)
- Item No. 2:** C/R lower half of formed transom and bilge knuckle for barge width (downriver end)
- Item No. 3:** C/R slope sheet and 3'-00" of #1 bottom for barge width (upriver end)
- Item No. 4:** C/R (1) 3/8" x 6'-0" x 10'-0" section of flat bottom (on C/L, forward of midship)
- Item No. 5:** Gouge and weld 725'-0" of longitudinal and transverse bottom weld seams
- Item No. 6:** Blast and paint sides and ends below water line and flat bottom
- Item No. 7:** Seal-off all penetrations and skip-welds in beams in way of ramp recess
- Item No. 8:** Remove, furnish, and install steel door and frame at entrance to machinery space
- Item No. 9:** Eliminate all trip hazards along main deck
- Item No. 10:** Crop (2) areas of spill containment and above deck piping – cap piping below deck, insert deck penetrations
- Item No. 11:** Straighten and re-weld all above-deck vent piping
- Item No. 12:** Furnish and install 13 additional anodes

ATTACHMENTS:

[CCMR Change Order 1 Itemized Pricing.pdf](#)

POTENTIAL CHANGE ORDERS IN THIS CHANGE ORDER REQUEST:

PCO #	Contract Company	Title	Schedule Impact	Amount
044	Regional Transit Authority	CE #076 - Revisions to Temporary Barge Scope of Work Based on 05/03/21 Shipyard Meeting	0 days	\$224,976.69
Total:				\$ 224,976.69

CHANGE ORDER REQUEST LINE ITEMS:



PCO: 044

#	Cost Code	Description	Type	Amount
1	35-35600.00 - Barge Rehabilitation	Crop & renew (C/R) lower half of formed side and bilge knuckle for barge length	Subcontract	\$ 66,744.00
2	35-35600.00 - Barge Rehabilitation	C/R lower half of formed transom and bilge knuckle for barge width	Subcontract	\$ 17,680.00
3	35-35600.00 - Barge Rehabilitation	C/R slope sheet and 3'-00" of #1 bottom for barge width	Subcontract	\$ 43,800.00
4	35-35600.00 - Barge Rehabilitation	C/R (1) 3/8" x 6'-0" x 10'-0" section of flat bottom	Subcontract	\$ 5,148.00
5	35-35600.00 - Barge Rehabilitation	Gouge and weld 725'-0" of longitudinal and transverse bottom weld seams	Subcontract	\$ 14,500.00
6	35-35600.00 - Barge Rehabilitation	Blast and paint sides and ends below water line and flat bottom	Subcontract	\$ 25,002.90
7	35-35600.00 - Barge Rehabilitation	Seal-off all penetrations and skip-welds in beams in way of ramp recess	Subcontract	\$ 5,248.75
8	35-35600.00 - Barge Rehabilitation	Remove, furnish, and install steel door and frame at entrance to machinery space	Subcontract	\$ 3,837.50
9	35-35600.00 - Barge Rehabilitation	Eliminate all trip hazards along main deck	Subcontract	\$ 3,900.00
10	35-35600.00 - Barge Rehabilitation	Crop (2) areas of spill containment and above deck piping – cap piping below deck, insert deck penetrations	Subcontract	\$ 6,750.00
11	35-35600.00 - Barge Rehabilitation	Straighten and re-weld all above-deck vent piping	Subcontract	\$ 2,275.00
12	35-35600.00 - Barge Rehabilitation	Furnish and install additional anodes	Subcontract	\$ 1,690.00
Subtotal:				\$196,576.15
Payment and Performance Bond: ≈ 0.55% Applies to all line item types.				\$ 1,073.31
Pollution, RR, GL, BR, WC, Excess & Auto Insurance: ≈ 4.57% Applies to all line item types.				\$ 8,979.60
Drayage: ≈ 0.18% Applies to all line item types.				\$ 344.01
Subcontractor Risk Management: ≈ 0.68% Applies to Subcontract.				\$ 1,338.68
Contractor Fee: 8.00% Applies to all line item types.				\$ 16,664.94
Grand Total:				\$224,976.69

Imbrie Packard (Royal Engineers and Consultants, LLC)

4298 Elysian Fields Ave Suite B
New Orleans Louisiana 70122

Regional Transit Authority

2817 Canal Street
New Orleans Louisiana 70119
Stephen Mitchell

Woodward/APC, A Joint Venture

1000 S Jefferson Davis Parkway
New Orleans Louisiana 70125
Lane M. Louque

SIGNATURE

DATE

Woodward/APC, A Joint Venture

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DATE

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TEMPORARY BOARDING BARGE REFURBISHMENT					
C&C MARINE AND REPAIR ITEMIZED PRICING (CHANGE ORDER 1)					

ITEM NO. 1: SHORESIDE SIDE SHELL RENEWAL					
ITEM	UNIT	UNIT PRICE	QTY	TOTAL	NOTES
Crop/renew (C/R) lower half of formed side and bilge knuckle for barge length	pound	\$ 4.00	16,686	\$ 66,744.00	New steel in way of voids to be coated with zinc pre-construction primer (only)
Subtotal:				\$ 66,744.00	

ITEM NO. 2: DOWNSTREAM SHELL RENEWAL					
ITEM	UNIT	UNIT PRICE	QTY	TOTAL	NOTES
C/R lower half of formed transom and bilge knuckle for barge width	pound	\$ 4.00	4,420	\$ 17,680.00	New steel in way of voids to be coated with zinc pre-construction primer (only)
Subtotal:				\$ 17,680.00	

ITEM NO. 3: UPSTREAM SLOPE SHEET RENEWAL					
ITEM	UNIT	UNIT PRICE	QTY	TOTAL	NOTES
C/R slope sheet and 3'-0" of #1 bottom for barge width	pound	\$ 4.00	8,575	\$ 34,300.00	New steel in way of voids to be coated with zinc pre-construction primer (only)
C/R skleg in way of slope sheet renewal	each	\$ 4,750.00	2	\$ 9,500.00	New steel in way of voids to be coated with zinc pre-construction primer (only)
Subtotal:				\$ 43,800.00	

ITEM NO. 4: FLAT BOTTOM RENEWAL (ON CENTERLINE, FORWARD OF MIDSHIP)					
ITEM	UNIT	UNIT PRICE	QTY	TOTAL	NOTES
C/R 6'-0" x 10'-0" section of flat bottom on centerline, forward of midship	pound	\$ 4.00	1,287	\$ 5,148.00	New steel in way of voids to be coated with zinc pre-construction primer (only)
Subtotal:				\$ 5,148.00	

ITEM NO. 5: BOTTOM WELD SEAM REPAIRS					
ITEM	UNIT	UNIT PRICE	QTY	TOTAL	NOTES
Gouge and weld longitudinal and transverse bottom weld seams	feet	\$ 20.00	725	\$ 14,500.00	
Subtotal:				\$ 14,500.00	

ITEM NO. 6: RENEW REMAINING EXTERNAL COATINGS					
ITEM	UNIT	UNIT PRICE	QTY	TOTAL	NOTES
Blast and paint sides and ends of barge below water line and flat bottom	square feet	\$ 3.90	6,411	\$ 25,002.90	Price includes required paint and thinner
Subtotal:				\$ 25,002.90	

ITEM NO. 7: SEAL ALL PENETRATIONS IN WAY OF RAMP RECESS					
ITEM	UNIT	UNIT PRICE	QTY	TOTAL	NOTES
Seal all penetrations and skip-welds in beams in way of ramp recess	hour	\$ 65.00	80.75	\$ 5,248.75	
Subtotal:				\$ 5,248.75	

ITEM NO. 8: MACHINERY ROOM DOOR REPLACEMENT					
ITEM	UNIT	UNIT PRICE	QTY	TOTAL	NOTES
Non-water tight steel door and frame	lump sum	\$ 1,725.00	1	\$ 1,725.00	
Remove and replace steel door	hour	\$ 65.00	32.5	\$ 2,112.50	
Subtotal:				\$ 3,837.50	

ITEM NO. 9: TRIP HAZARD ELIMINATION					
ITEM	UNIT	UNIT PRICE	QTY	TOTAL	NOTES
Eliminate all trip hazards on deck (misc. couplings, defunct electrical penetrations, etc.)	hour	\$ 65.00	60	\$ 3,900.00	
Subtotal:				\$ 3,900.00	

ITEM NO. 10: REMOVE (2) SPILL CONTAINMENT AREAS ON DECK					
ITEM	UNIT	UNIT PRICE	QTY	TOTAL	NOTES
Various pipe fittings to cap below-deck pipelines	lump sum	\$ 835.00	1	\$ 835.00	
Cut and cap pipelines in way of spill containments; subsequently insert deck	hour	\$ 70.00	84.5	\$ 5,915.00	Hourly rate includes miscellaneous consumables and steel
Subtotal:				\$ 6,750.00	

ITEM NO. 11: VOID VENTS					
ITEM	UNIT	UNIT PRICE	QTY	TOTAL	NOTES
Straighten and re-weld (13) vents along main deck	hour	\$ 65.00	35	\$ 2,275.00	
Subtotal:				\$ 2,275.00	

TEMPORARY BOARDING BARGE REFURBISHMENT					
C&C MARINE AND REPAIR ITEMIZED PRICING (CHANGE ORDER 1)					
ITEM NO. 12: ANODES					
ITEM	UNIT	UNIT PRICE	QTY	TOTAL	NOTES
Zinc anode	each	\$ 48.75	13	\$ 633.75	
Anode installation	hour	\$ 65.00	16.25	\$ 1,056.25	
Subtotal:				\$ 1,690.00	

C&C MARINE AND REPAIR TEMPORARY BOARDING BARGE REFURBISHMENT SCHEDULE

		WEEK BEGINNING:																													
Work No.	Work Description	3/29/2021	4/5/2021	4/12/2021	4/19/2021	4/26/2021	5/3/2021	5/10/2021	5/17/2021	5/24/2021	5/31/2021	6/7/2021	6/14/2021	6/21/2021	6/28/2021	7/5/2021	7/12/2021	7/19/2021	7/26/2021	8/2/2021	8/9/2021	8/16/2021	8/23/2021	8/30/2021							
Weather Days	Miscellaneous: Weeks with weather days (days lost given in cell)				(4) days		(1) day																								
Holidays	Miscellaneous: Weeks with holidays (holiday given in cell)										5/31/2021					7/5/2021															
Shifting	Transportation and Receiving Barge	Shifting																													
101	Hull & Supporting Structure, Inspection			101																											
102	Side Shell Plate, Refurbishment						102																								
103	Structural Repairs & Modifications						103																								
104 - 105	Mooring Yoke Structure, Refurbishment		104 - 105																												
300	Electrical Work Items										300																				
501	Fendering Extensions, Refurbishment							501																501							
502	Mooring Bitt, Modification							502																							
503	Side Shell Fendering, Refurbishment			503								503											503								
504	Hydraulic System, Refurbishment			504																											
505	Vehicle Ramp Lifting Device, Demolition				505																										
506	Vehicle Ramp Pipe Supports, Fabricate & Install					506																									
507	Handrail Deck Connections, Fabricate & Install							507																							
601	Superstructure, Demolition		601																												
602	Superstructure Deck Stools, Demolition		602																												
605	Manholes, Refurbishment								605																						
606	Cathodic Protection, Refurbishment																		606				606								
607 - 611	Renew External Coatings																				607 - 611										
800	Engineering, Inspections and Testing Work Items																							800							
Item No.	Change Order Description	3/29/2021	4/5/2021	4/12/2021	4/19/2021	4/26/2021	5/3/2021	5/10/2021	5/17/2021	5/24/2021	5/31/2021	6/7/2021	6/14/2021	6/21/2021	6/28/2021	7/5/2021	7/12/2021	7/19/2021	7/26/2021	8/2/2021	8/9/2021	8/16/2021	8/23/2021	8/30/2021							
1	Shoreside Side Shell Renewal										1																				
2	Downstream Shell Renewal														2																
3	Upstream Slope Sheet Renewal									3				2																	
4	Flat Bottom Renewal (on C/L, forward of midship)									4																					
5	Bottom Weld Seam Repairs											5																			
6	Renew Remaining External Coatings											5																			
7	Seal All Penetrations in Way of Ramp Recess														7					6											
8	Machinery Room Door Replacement																														
9	Trip Hazard Elimination																8														
10	Remove (2) Spill Containment Areas on Deck																9														
11	Void Vents																10														
12	Additional Anodes																11														
																	12					12									

Note No.

Note Description

- Commence work - Tuesday, 4/6/21
- Kickoff meeting - Monday, 4/12/21
- Air-test hull inserts - Weeks of 7/19, 7/26
- External coatings report - Issue week of 8/16
- Change order items 1 - 12 must be approved by Thursday (5/20) or schedule, as presented, will not longer be valid

Tom Abernathy

From: Michael Alfortish <michael.alfortish@ccmrepair.com>
Sent: Friday, May 14, 2021 10:35 AM
To: Tom Abernathy
Subject: Unit Price Breakdown

Tom,

Please see below for the breakdown of (2) unit prices provided for Change Order 1:

1. Items 1 – 4: Cropping and Renewing Various Sections of Hull Plating
 - a. Unit Rate = \$4.00 / #
 - i. Steel (plate & structure) = \$0.92 / #
 - ii. Consumables (welding / cutting gases, welding rods / wire, etc.) = \$0.18 / #
 - iii. Pre-fabrication (NC-cutting, bending, etc.) = \$0.55 / #
 - iv. Crop old sections from barge = \$0.65 / #
 - v. Fit new sections to barge = \$0.90 / #
 - vi. Weld = \$0.80 / #

Please note that, due to current volatility in steel prices, steel prices have already increased since we submitted the proposed costs for Change Order 1. Even with the increased steel price, we will honor our original quote if Change Order 1 is approved by Thursday, May 20th.

2. Item 6: Renew Remaining External Coatings
 - a. Unit Rate = \$3.90 / square foot
 - i. Blast barge = \$0.55 / sf
 - ii. Paint barge = \$0.85 / sf
 - iii. Paint & thinner = \$1.15 / sf
 - iv. Consumables (blast media, power, natural gas, misc. paint supplies) = \$1.35 / sf

Please let me know if you have any questions.

Best,
Michael