



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

April 14, 2023

Addendum No. 2

Contract No.: DA00569

WBS Element: 16.33001

Work Barge Skyco Drydock, in Craven County

To Whom It May Concern:

Reference is made to the proposal and plans previously furnished for this project.

The following revisions have been made to the proposal and plans:

Page 66, "Main Deck Hatch Maintenance and Repair" has been revised to include the requirement to clean and paint. Please replace the original Page 66, "Main Deck Hatch Maintenance and Repair" with the attached revised Page 66, "Main Deck Hatch Maintenance and Repair".

Page 68, "Sea Valves, Valves, Sea Chest and Strainer Inspection" has been revised to increase the number of valves from (10) to (13). Please replace the original Page 68, "Sea Valves, Valves, Sea Chest and Strainer Inspection" with the attached revised Page 68, "Sea Valves, Valves, Sea Chest and Strainer Inspection".

Page 73, "Crop Out Deck Tie Downs, Insert Deck Plate & Install D-Ring Tie Downs. Crop Out Sounding Tubes And Insert Deck Plate. Install handrails" has been revised to decrease the number of Weld On D-Rings from (14) to (10). Please replace the original Page 73, "Crop Out Deck Tie Downs, Insert Deck Plate & Install D-Ring Tie Downs. Crop Out Sounding Tubes And Insert Deck Plate. Install handrails" with the attached revised Page 73, "Crop Out Deck Tie Downs, Insert Deck Plate & Install D-Ring Tie Downs. Crop Out Sounding Tubes And Insert Deck Plate. Install handrails".

Page 74, "Install Bow Wear Plate" has been revised to include the dimensions of the "Bow Doubler". Please replace the original Page 74, "Install Bow Wear Plate" with the attached revised Page 74, "Install Bow Wear Plate".

Page 76, "Install Owner Supplied Weld On Bow Fender" has been revised to include the manufacturer and number of pieces to be installed. Please replace the original Page 76, "Install Owner Supplied Weld On Bow Fender" with the attached revised Page 76, "Install Owner Supplied Weld On Bow Fender".

Page 77, "Shore Tie Jumper Connection" has been revised to clarify the requirements of the receptacles. Please replace the original Page 77, "Shore Tie Jumper Connection" with the attached revised Page 77, "Shore Tie Jumper Connection".

Page 89, "Blasting & Painting - Superstructure" has been revised to omit "Bulwarks" & "Crane". Please replace the original Page 89, "Blasting & Painting - Superstructure" with the attached revised Page 89, "Blasting & Painting - Superstructure".

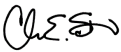
Page 92, "Relocation of Two 18" Hatches" has been revised to clarify the contractor's responsibilities, concerning the hatches. Please replace the original Page 92, "Relocation of Two 18" Hatches" with the attached revised Page 92, "Relocation of Two 18" Hatches".

Page 95, "Refurbish Roof Drain Scuppers" has been revised to omit "Remove" and replace with "Clean". Please replace the original Page 95, "Refurbish Roof Drain Scuppers" with the attached revised Page 95, "Refurbish Roof Drain Scuppers".

Page 95, "Refurbish Roof Drain Scuppers" has been revised to omit "Remove" and replace with "Clean". Please replace the original Page 95, "Refurbish Roof Drain Scuppers" with the attached revised Page 95, "Refurbish Roof Drain Scuppers".

The amended EBS File (DA00569.001x) has been uploaded. We apologize for the inconvenience.

Sincerely,

DocuSigned by:

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C. E. Slachta
Division Contract Engineer

Cc: C. W. Bridgers, Jr., PE
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6.0 MAIN DECK HATCH MAINTENANCE AND REPAIR

6.1 Description:

This section describes the requirements to inspect, **clean, paint**, repair, and test the main deck hatches. Contractor shall take into consideration work associated with “Open, Clean and Certify Gas Free: Bilges, Holds, and Enclosed Areas” of this section and closely coordinate this work. ~~This section also covers the removal of all the watertight doors maintenance and repair on the main deck.~~

6.2 References:

6.2.1 DWG NC-140-02 Rev11 Main Deck & Hold Arrangement

6.2.2 DWG NC-140-11 Vertical and Inclined Ladder Details

6.2.3 - DWG NC-140-12RevA – Doors, Windows & MH Schedule

6.3 Owner Furnished Equipment:

None

6.4 Hatch Requirements / CHECKPOINT:

The Contractor shall complete the following work on deck hatches:

- a) Contractor shall open and inspect condition of hatch insert rings, hatch gaskets, and hatch operating mechanisms.
- b) Complete inspections and submit a condition found report no later than fifteen (15) working days after taking control of vessel, or within 3 days of opening hatches, whichever comes first. Condition found report must include any missing fasteners. Failure to report fasteners will assume fasteners were damaged or lost by the shipyard and be required to be repaired or replaced at shipyard expense. **Clean and paint hatch covers and gasket recess.** Close manholes when directed with a new gasket and sealant.
- c) Any hatch required to be opened to fulfill the scope of work in the contract must be fitted with a new gasket and sealed watertight at the contractor’s expense. Watertight integrity of all hatches and manholes must be proven to NCDOT representatives by contractor at contractor’s expense. Based on NCDOT’s inspection of vessel, Contractor shall budget to replace [16] ø18” FLWT gaskets, [1] 24” FLWT Freeman gasket and [1] 48”x48” Machinery Hatch **Gasket** [DWG NC-140-12], as directed by the NCDOT Representative.
- d) Additional equipment may be recommended to be replaced by Contractor, subject to agreement by NCDOT. These repairs or renewals shall be paid by Supplemental Agreement.

6.6 Tests, Trials and Documentation:

Following refurbishment and re-installation of all hatches and doors, Contractor shall prove all deck hatches watertight when subjected to low pressure or hose wash in the presence of the NCDOT inspector/representative. Contractor to deliver Condition Found report.

6.7 Payment:

Include all costs associated with repairs and modifications to the various items outlined in this Special Provision in the lump sum contract price for *Generic Ferry Item (Main Deck Hatch Maintenance and Sounding Tube Repair)* No further compensation will be made.

- d) Open and inspect sea water system check valves as listed.
- e) Upon completion of valve restoration and prior to installation, hydrostatically test all restored and new valves to the satisfaction of the NCDOT Representative. Reinstall all valves using new Contractor furnished gaskets (Garlock 3760 or equal) and 316 Stainless Steel fasteners.
- f) Complete inspections and submit report no later than thirty (30) working days after dry-docking.

7.5 List of Valves

Approximately ~~10~~ **13 total valves. Including** sea valves, seachest vent valves, and overboard discharge valves for the following systems:

- a) Fire Pump Suction
- b) Bilge Pump Suction
- c) Fire Pump Overboard
- d) Bilge Pump Overboard
- e) MSD overboard
- f) Ballast Overboard
- g) Seachest Vents

7.6 Tests, Trials and Documentation

As indicated in the "Requirements" section above.

Following reassembly of all valves, Contractor shall prove watertight at operating pressure. Contractor to provide complete valve list to NCDOT, including size, type, and manufacturer.

7.7 Payment

Include all costs associated with repairs and modifications to the various items outlined in this Special Provision in the lump sum contract price for *Generic Ferry Item (Sea Valves)*. All labor, equipment, tools, and new materials to accomplish the work detailed in these Special Provisions, including testing and trials. No further compensation will be made.

11.0 CROP OUT DECK TIE DOWNS, INSERT DECK PLATE & INSTALL D-RING TIE DOWNS. CROP OUT SOUNDING TUBES AND INSERT DECK PLATE. INSTALL NEW HANDRAILS

11.1 Description

This section describes the requirements to remove deck tiedowns and sounding tubes and replace with deck plate.

11.2 References

11.2.1 DWG NC-140-03B Main Deck Structure Modifications

11.3 Owner Furnished Equipment

None

11.4 Requirements

The Contractor shall crop out twenty inserted deck tie downs and insert back new 3/8" A36 deck plate. Approximately 32"x18" inserts to be used. Inserts shall tie into at least two longitudinal frames. All welds to be continuous.

The Contractor shall also crop out eight 1-1/2" sounding tubes. (4 on the bow deck and ~~3~~ 4 on the mid deck and insert back with new 3/8" A36 deck plate. Two inserts of approximately 4'x4'. Each insert shall cover 4 sounding tubes. Inserts shall tie into at least three longitudinal frames. All welds to be continuous.

The Contractor shall procure and install ~~fourteen (14)~~ **ten (10)** 4.2t SWL **minimum** weld-on pivot link lifting points as shown in DWG NC-140-03B. Provide product specifications to NCDOT representative prior to ordering. Care shall be taken to ensure lifting points land over frames.

Inserts and any disturbed areas must also be prepped, primed, and painted in accordance to Blast and and Paint – All Decks on the deck side and Prep and Paint Voids, Ballast, And Machinery Room Bilges on the void/tank side.

The contractor shall also remove all old **main deck** handrail, fabricate and reinstall new handrail in same location. Rails should be of the same material as existing. New rails shall be prepped and painted in accordance with Blast and Paint – All Decks.

11.5 Tests, Trials and Documentation

Dye Penetration Tests on all inserts

11.6 Payment:

The lump sum contract bid price for *Generic Ferry Item (General Deck Work)* shall be the total compensation for cropping and renewing steel, installing new D-Rings, removing, and reinstalling new handrails. All labor, equipment, tools and new materials to accomplish the work detailed in these Special Provisions, including testing and trials. No further compensation will be made.

12.0 INSTALL BOW WEAR PLATE

12.1 Description

This section describes the requirements to install a steel wear plate on the bow deck.

12.2 References

12.2.1 DWG NC-140-03B Main Deck Structure Modifications

12.3 Owner Furnished Equipment

None

12.4 Requirements

The Contractor shall install a ½" A36 steel wear plate (~24.5'x24') on the bow deck in accordance with DWG NC-140-03B. All welds shall be continuous for the full perimeter of the plate. Thirty (30) 4"x1" plug welds to be filled just proud of the plate and then ground back smooth to prevent water from puddling or being trapped. Care must be taken when scheduling this item to ensure that the deck blasting, and repairs, and painting are all complete before installing wear plate

Any sharp edges along the perimeter shall be ground smooth to limit tripping hazards. In additions, Wear Plate must also be prepped primed and painted in accordance to painting specifications Blast and Paint – All Decks. Any disturbed paint on the underside of the deck to be cleaned, prepped and panted in accordance to Prep and Paint Voids, Ballast, And Machinery Room Bilges.

12.5 Tests, Trials and Documentation

Dye Penetration Tests on perimeter and plug welds. Wash down deck with garden hose to ensure that plug welds areas do not trap water.

12.6 Payment:

The lump sum contract bid price for *Generic Ferry Item (Install Bow Doubler Work Pad)* shall be the total compensation for cropping and renewing steel, welding, and painting. all labor, equipment, tools and new materials to accomplish the work detailed in these Special Provisions, including testing and trials. No further compensation will be made.

14.0 INSTALL OWNER SUPPLIED WELD ON BOW FENDER.

14.1 Description

This section describes the requirements to install owner supplied weld on bow fender.

14.2 References

14.2.1 DWG NC-140-03B Main Deck Structure Modifications

14.3 Owner Furnished Equipment

Weld on Single Tow Knee Fenders - Duramax DB1909 - 11 fenders total, 3' each

14.4 Requirements

The contractor shall install owner supplied weld on bow fender as called out in DWG NC-140-03B. Care must be taken when scheduling this item to ensure that the deck blasting, and repairs, and painting are all complete before installing fender material. Manufactures installation recommendations to be followed for welding pattern.

Contractor to form fit owner supplied tow knee fenders to match curvature of the side shell.

Any sharp edges along the perimeter shall be ground smooth. All welded and disturbed areas to be prepped, primed, and painted in accordance to Blast and Paint – Hull Above DLWL

14.5 Tests, Trials and Documentation

None

14.6 Payment:

The lump sum contract bid price for *Generic Ferry Item (Install Owner Supplied Weld on Bow Fender)* shall be the total compensation for installing new weld on bow fenders, cropping and renewing steel, welding and painting. All labor, equipment, tools and new materials to accomplish the work detailed in these Special Provisions, including testing and trials. No further compensation will be made.

15.0 SHORE TIE JUMPER CONNECTION

15.1 Description

This section describes the requirements to fabricate and install two watertight 120V receptacles.

15.2 References

None

15.3 Owner Furnished Equipment

None

15.4 Requirements

Contractor to install two (2) 20A 120VAC circuits tied into the Machinery Space Electrical Panel. Wire runs must be 10AWG routed through the forward superstructure bulkhead with watertight/fireproof collars and mounted to watertight marine receptacle mounted on the forward superstructure bulkhead. Plug style to be approved by NCDOT representative prior to purchase. **Receptacles each to be Surface Mount, Two receptacles, Marine Brass, 20Amp. Similar Eaton 2634BU-125, with Standard Straight Blade ANSI NEMA type Receptacle.**

Contractor to supply all electrical wires, circuit breakers, stainless steel hardware, and any other equipment and materials needed for the installation.

Any disturbed areas shall be prepped primed and painted in accordance with Blasting and Painting – All Decks.

15.5 Tests, Trials and Documentation

Watertight integrity shall be tested. Dye Penetration Tests on any bulkhead penetrations.

15.6 Payment:

The unit contract bid price per each for *Generic Miscellaneous Item (Install 2 Shore Tie Jumper Connections)* shall be the total compensation for all electrical wires, circuit breakers, hardware, and painting. All labor, equipment, tools and new materials to accomplish the work detailed in these Special Provisions, including testing and trials. No further compensation will be made.

22.4 Requirements

The Contractor shall mechanically or by hand, prepare and paint the entire superstructure and miscellaneous details including:

- ~~Bulwarks~~
- ~~Crane~~, Crane Pedestal, and Boom Rest
- Masts
- Inboard and outboard faces.

In all the above items, the structure attached to the stated and other appropriate areas shall be included with the item. Superstructure painting does not include decks.

All equipment, and components shall be protected from overspray. The Contractor shall inspect all areas of the vessel to be painted to assess coating condition and surface areas prior to finalizing the bid price.

The Contractor shall clean the surfaces described above as detailed in the Special Provision item "High-Pressure Water Wash - Superstructure." The Contractor shall blast the entire superstructure by abrasive blast, to a SSPC-SP10. Contractor shall mechanically or by hand SSPC-SP-11 all areas that are not accessible by blasting.

AC paint at the perimeter of the blasted areas shall be feathered or otherwise made tight to eliminate paint failure points and present a clean mechanically etched surface for a secure bond with the new Primer applied to the blasted surfaces. After surface preparation, dry the area with clean dry compressed air. Before coating application, the areas shall be free of all dust, debris, salt, moisture, and other contaminants which may have been introduced following the high-pressure water wash. The surface preparation and cleaning shall be inspected and approved by the Paint Manufacturer's Representative before the final coats are applied. Paint shall be applied by conventional industrial airless spray or compressed air spray equipment in accordance with the paint manufacturer's recommendations. The paint coats for the selected areas shall be:

- Primer Coat: Amercoat 370 red oxide applied @ 4.0-6.0 Mils DFT

(NOTE: Paint manufacture requires 2 coats of primer)

- Stripe Coat: Amercoat 370 black applied @ 4.0-6.0 Mils DFT
- Third Coat: Amercoat 370 grey applied @ 4.0-6.0 Mils DFT
- Finish Coat: Amercoat 229 applied @ 2.0-3.0 Mils DFT. Colors to match existing

New topcoat shall match exactly the existing paint schematic on the vessel. Contractor shall remove all existing signage, and protect all windows, equipment and other sensitive

24.0 RELOCATION OF TWO 18" HATCHES:

24.1 Description:

This section describes the requirement to relocate two main deck 18" Hatches.

24.2 References:

- 24.2.1 DWG NC-140-03B Main Deck Structure Modifications
- 24.2.2 DWG NC-140-11 Vertical & Inclined Ladders

24.3 Owner Furnished Equipment:

None

24.4 Requirements:

The contractor shall relocate two 18" flush bolted hatches as per drawing NC-140-03B. All wiring, piping and equipment IWO of hole cut shall be protected. Remove all material not needed for new fit up and properly dispose of all cutout material. Prep and grind work area. **Procure and install two** new 18" Hatch to be installed in new location as per DWG.

Crop old hatch openings and insert new deck plating with: 3/8" plate; 5"x3"x5/16" angle. All material to meet ASTM-A-36 steel specification. Painting underside of main deck and all disturbed areas to be in accordance with section 11 Painting – General of these Special Provisions.

New hatch hole cut to be in accordance with reference drawing NC-140-03B. New hole cut opening construction will utilize the following material: 5"x3"x5/16" angle. All material to meet ASTM-A-36 steel specification. Care to be taken with welding procedure to ensure hatch ring does not warp.

Relocate existing ladders to new hatch location. Renew all hardware and connections at new location. Contractor will be responsible for any modifications needed to make the ladder acceptable for safe egress. All padeyes and ladder rungs welded 100% Double Continuous.

24.5 Tests, Trials and Documentation:

Contractor shall use a template to assure proper fit-up of Hatch. NCDOT Representative to be present for cutout and fit-up of Hatch, any discrepancies found shall be corrected at no additional expense to NCDOT. **CHECKPOINT**

Following installation of main deck Hatches, Contractor shall prove watertight integrity. Contractor shall ensure that all blast material is removed from the vessel when complete.

24.6 Payment:

The lump sum contract bid price for *Generic Ferry Item (Relocation of (2) 18" Freeman Hatches)* shall be the total compensation for all labor, equipment, tools, paint, hardware, and materials to accomplish the work detailed in these Special Provisions, including testing and trials. No further compensation will be made.

27.0 REFURBISH ROOF DRAIN SCUPPERS:**27.1 Description:**

This section describes the requirement to ~~remove and~~ clean roof drain scuppers.

27.2 References:

None

27.3 Owner Furnished Equipment:

None

27.4 Requirements:

The Contractor shall ~~remove~~ clear and clean all the old drains on the vessel. Contractor shall ~~remove all interferences and reinstall~~ install new drains ~~with grates in the same locations. All piping and hardware shall match what is currently existing.~~ Contractor shall mechanically or by hand surface prep, and paint to correct color, refer to Section 16 "Painting-General Special Provisions".

27.5 Test, Trials and Documentation:

Contractor shall prove to NCDOT representatives the drains are in working condition.

27.6 Payment:

The lump sum contract bid price for *Generic Miscellaneous Item (Refurbish Roof Drain Scuppers)* shall be the total compensation for removing and reinstalling all roof drain scuppers, metal, paint, and welding. All labor, equipment, tools, hardware and new materials to accomplish the work detailed in these Special Provisions, including testing and trials. No further compensation will be made.

County: CRAVEN

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
ROADWAY ITEMS						
0001	0000820000-N	SP	GENERIC MISCELLANEOUS ITEM (BERTHING DAYS)	8 DAY		
0002	0000820000-N	SP	GENERIC MISCELLANEOUS ITEM (LAY DAYS)	8 DAY		
0003	0000950000-E	SP	GENERIC MISCELLANEOUS ITEM (CROP AND RENEW STEEL - DECK PLATE)	500 SF		
0004	0000950000-E	SP	GENERIC MISCELLANEOUS ITEM (CROP AND RENEW STEEL - HULL PLATE)	100 SF		
0005	0000950000-E	SP	GENERIC MISCELLANEOUS ITEM (PREPARE AND PAINT VOIDS, BALLAST, AND MACHINERY ROOM BILGES)	3,600 SF		
0006	0001020000-N	SP	GENERIC MISCELLANEOUS ITEM (INSTALL 2 SHORE TIE JUMPER CONNECTIONS)	2 EA		
0007	0001020000-N	SP	GENERIC MISCELLANEOUS ITEM (ZINC ANODE REPLACEMENTS (VESSEL HULL / 23-24 LB.)	28 EA		
0008	0001020000-N	SP	GENERIC MISCELLANEOUS ITEM (ZINC ANODE REPLACEMENTS SEA CHEST / 5 LB.)	2 EA		
0009	0005000000-N	SP	GENERIC FERRY ITEM (BLAST & PAINT - ALL DECKS)	Lump Sum	L.S.	
0010	0005000000-N	SP	GENERIC FERRY ITEM (BLAST & PAINT - HULL ABOVE DLWL)	Lump Sum	L.S.	
0011	0005000000-N	SP	GENERIC FERRY ITEM (BLAST & PAINT - HULL BELOW DLWL)	Lump Sum	L.S.	
0012	0005000000-N	SP	GENERIC FERRY ITEM (BLAST & PAINT - SUPERSTRUCTURE)	Lump Sum	L.S.	
0013	0005000000-N	SP	GENERIC FERRY ITEM (FABRICATE AND REPLACE 2 BOW TOWING PADEYES)	Lump Sum	L.S.	
0014	0005000000-N	SP	GENERIC FERRY ITEM (GENERAL DECK WORK)	Lump Sum	L.S.	
0015	0005000000-N	SP	GENERIC FERRY ITEM (HIGH-PRESSURE WATER WASH - HULL ABOVE DLWL)	Lump Sum	L.S.	

County: CRAVEN

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0016	0005000000-N	SP	GENERIC FERRY ITEM (HIGH-PRESSURE WATER WASH - HULL BELOW DLWL)	Lump Sum	L.S.	
0017	0005000000-N	SP	GENERIC FERRY ITEM (HIGH-PRESSURE WATER WASH - SUPERSTRUCTURE)	Lump Sum	L.S.	
0018	0005000000-N	SP	GENERIC FERRY ITEM (INSTALL BOW DOUBLER WORK PAD)	Lump Sum	L.S.	
0019	0005000000-N	SP	GENERIC FERRY ITEM (INSTALL OWNER SUPPLIED WELD ON BOW FENDER)	Lump Sum	L.S.	
0020	0005000000-N	SP	GENERIC FERRY ITEM (MAIN DECK HATCH MAINTENANCE AND SOUNDING TUBE REPAIR)	Lump Sum	L.S.	
0021	0005000000-N	SP	GENERIC FERRY ITEM (OPEN, CLEAN, AND CERTIFY GAS FREE: BILGES, HOLDS AND ENCLOSED AREAS)	Lump Sum	L.S.	
0022	0005000000-N	SP	GENERIC FERRY ITEM (REFURBISH ROOF DRAIN SCUPPERS)	Lump Sum	L.S.	
0023	0005000000-N	SP	GENERIC FERRY ITEM (RELOCATE 2 18" FREEMAN HATCH)	Lump Sum	L.S.	
0024	0005000000-N	SP	GENERIC FERRY ITEM (SEA VALVES)	Lump Sum	L.S.	
0025	0005000000-N	SP	GENERIC FERRY ITEM (SEWAGE SYSTEM - CLEAN, INSPECT, AND PERFORM MAINTENANCE)	Lump Sum	L.S.	
0026	0005000000-N	SP	GENERIC FERRY ITEM (SEWAGE SYSTEM - INSTALL CONCRETE WORK PAD)	Lump Sum	L.S.	
0027	0005000000-N	SP	GENERIC FERRY ITEM (SHIPYARD SERVICES)	Lump Sum	L.S.	
0028	0005000000-N	SP	GENERIC FERRY ITEM (TAKE CONTROL AND DRY DOCK SKYCO)	Lump Sum	L.S.	
0029	0005000000-N	SP	GENERIC FERRY ITEM (UT SHOTS)	Lump Sum	L.S.	