



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY  
GOVERNOR

ANTHONY J. TATA  
SECRETARY

November 15, 2013

**Addendum No. 1**

Contract No.: DA00176

TIP No.: N/A

WBS No.: 44095.3.FR1

*Ferry Ramp Rehabilitation – Cleaning & Painting of Existing Ramp and Lift Bent, Steel Repairs & Mechanical and Electrical System Upgrade*

To Whom It May Concern:

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

The following revisions have been made to the proposal:

Page No. 58, has been revised to change the specification for Tubing. Please void the existing Page No. 58 and staple revised Page No. 58 thereto and acknowledge addendum on the Bid Form.

Sincerely,

A handwritten signature in black ink, appearing to read "W. B. Hobbs", with a long horizontal stroke extending to the right.

W. B. Hobbs, PE  
Division Project Manager

WBH  
Attachment

cc: S. D. Baker, PE  
J. S. Abel, Jr.

## DA00176

Mounting style	MP1
Rod Size	1-3/8" diameter
Stop Type	1"
Piston Seals	Lip Type
Rod Material	316 Stainless Steel
Pressure	3,000 PSI

Eye Bracket and Pin

Thread Size	7/8" -14
Pin Size	1"
Load Rating	12,200 lbs
Material	Stainless Steel

Rod End Clevis Bracket and Pin

Thread Size	1-1/4" - 12
Pin Size	1.375"
Load Rating	18,850 lbs
Material	Stainless Steel

Tubing

Nominal Size	1/2" ID OD ( 0.049 " ) 3/4" ID OD ( 0.065 " )
Material	Stainless steel seamless tubing ASTM A-269, Mil Specs 8808
Rockwell Hardness	80 HRB or less for use w/ 37 degree JIC adaptors
Pressure	<del>4,250 psi</del> 3,000 psi

Adaptors

Nominal Size	1/2" and 3/4"
Type Connection	37 degree JIC
Material	Stainless steel
Rating	3,000 psi

Note: Terminations are to be made with manufacturer procedures and equipment

Flexible Hose

Flexible high pressure hose shall be used to connect hard mounted stainless steel tubing to the hydraulic hoist cylinders and power unit.

Nominal Size	1/2" and 3/4"
Material	Stainless steel braid with outer non-metallic sunlight resistant
Outer Jacket Fittings	Stainless Steel
Rating	3,000 psi

Straps and Hardware

Stainless steel tubing is to be strapped to the steel support structure at intervals not to exceed 4 feet. Straps are to be stainless steel. All mounting hardware including plates, angle, and fasteners is to be stainless steel.

Messenger System

A messenger system is to be installed from the HPU support frame to the ferry ramp lift structure as shown on the plans at each of the three ramp locations. The messenger is to be terminated at a 3/4" hot dipped galvanized eye bolt at each end. The eye bolt at each end of the cable shall be through bolted. The messenger cable is to be terminated at the eye bolts using a reliable 3/8" strand vise.

**The messenger cable and cable rings shall be provided to contractor by NCDOT.** Installation of the messenger cable, cable rings, and eye bolts to support the flexible hydraulic hoses shall be paid for under the Generic Structure Item (Mechanical System). The cable rings shall be located on 2 foot centers along the messenger cable.