

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PAT MCCRORY GOVERNOR NICHOLAS J. TENNYSON SECRETARY

March 10, 2016

Addendum No. 1

Contract No.: DA00292

WBS Element: 17BP.1.R.70

Replacement of Bridge #21 over Swamp on SR 1563 in Martin County

To Whom It May Concern:

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

The following revision has been made to the plans:

Plan Sheet Nos. S-2 & S-14 have been revised to remove the statement regarding the minimum length of galvanization on interior bent piles. Galvanization requirements will be as required by Notes to Contractor on Page 8 of the proposal. Please void existing Plan Sheet Nos. S-2 & S-14 and replace with revised Plans Sheet Nos. S-2 & S-14.

Please acknowledge receipt of Addendum #1 in the space provided on the Addendum Acknowledgement Form.

Sincerely,

W. B. Hobbs, PE

Division Project Manager

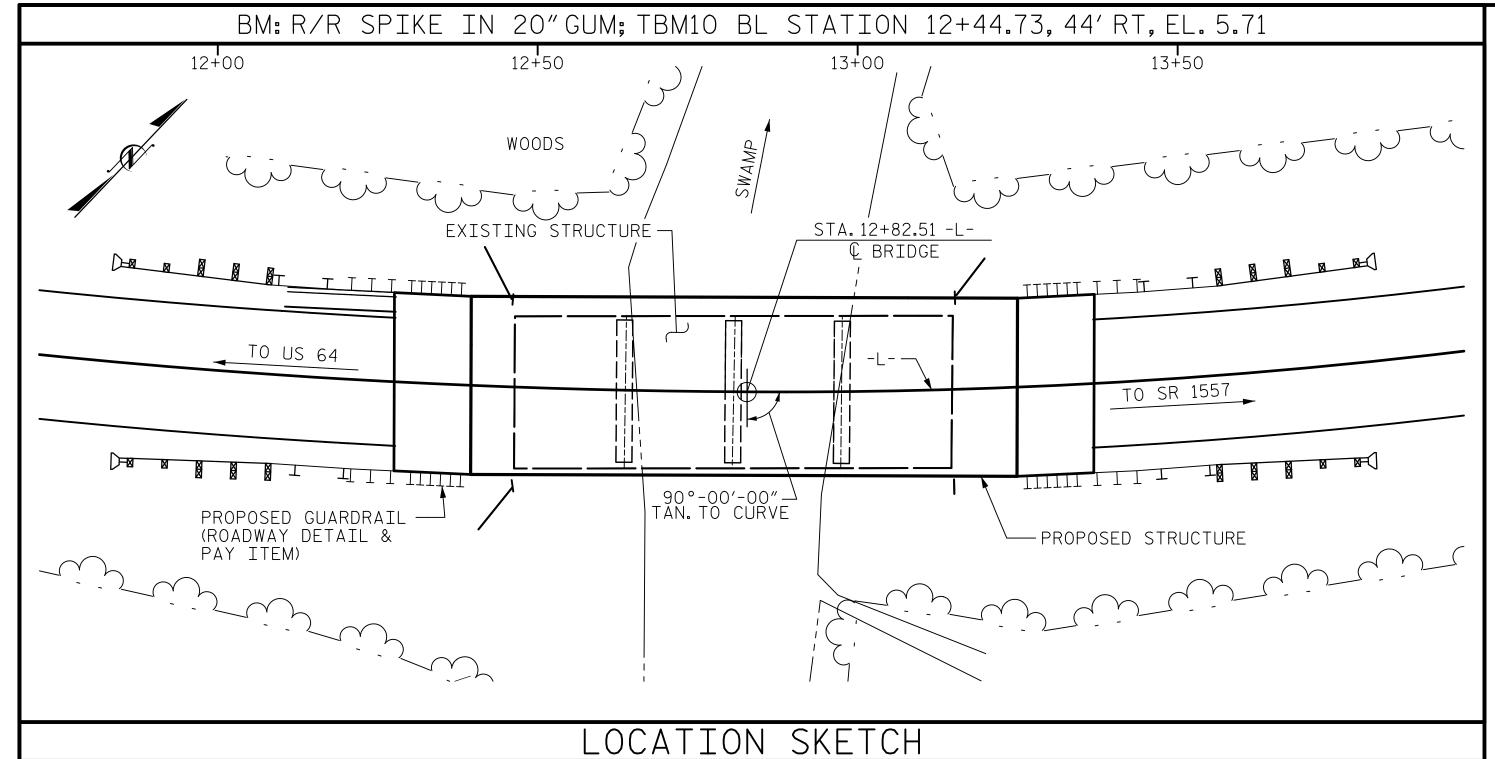
WBH Attachment

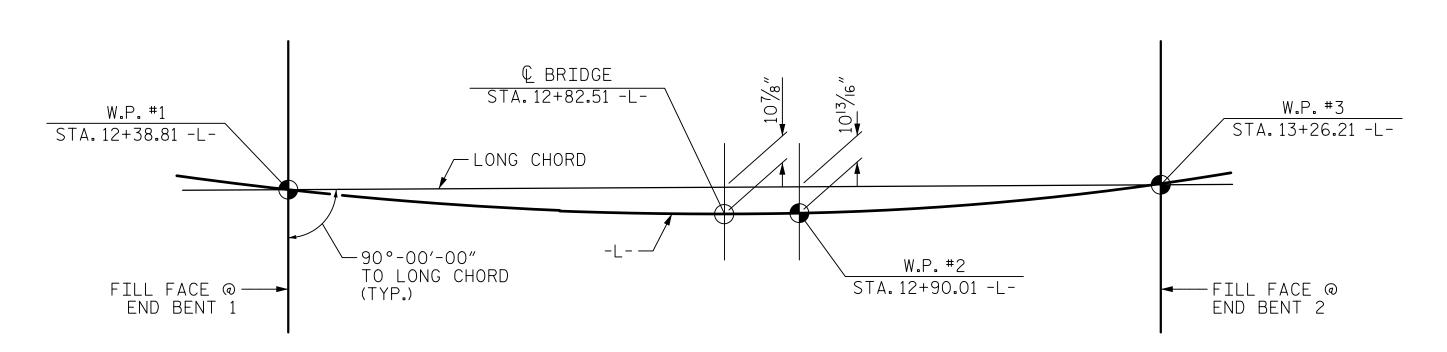
cc: A. W. Roper, PE

C. S. Mebane, PE

J. S. Abel, Jr.

REVISED 03/10/16 DocuSign Envelope ID: 38543133-D868-45A2-808D-5DC8EBCA3C39





CHORD LAYOUT NOTE: EFFECTS OF THE HORIZONTAL CURVE SHALL BE NEGLECTED IN THE CONSTRUCTION OF THIS BRIDGE. BRIDGE TO BE BUILT ALONG THE CHORD BETWEEN THE WORK POINTS AT THE FILL FACES.

NOTES

ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASTHO LRFD BRIDGE DESIGN SPECIFICATIONS FOR SEISMIC ZONE 1.

THIS STRUCTURE CONTAINS THE NECESSARY CORROSION PROTECTION REQUIRED FOR A CORROSIVE SITE.

- FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
- FOR FALSEWORK AND FORMWORK. SEE SPECIAL PROVISIONS.
- FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
- FOR GROUT FOR STRUCTURE, SEE SPECIAL PROVISIONS.

MATERIAL SHOWN IN THE CROSS-HATCHED AREA SHALL BE EXCAVATED FOR A DISTANCE OF 18 FT EACH SIDE OF CENTERLINE ROADWAY AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR UNCLASSIFIED STRUCTURE EXCAVATION. SEE SECTION 412 OF THE STANDARD SPECIFICAITONS.

AFTER SERVING AS A TEMPORARY STRUCTURE THE EXISTING STRUCTURE CONSISTING OF 4 SPANS TOTALING 69'-0", WITH RC FLOORS ON TIMBER JTIMBER JOISTS, ON TIMBER CAPS WITH TIMBER PILES, AND 22'-0' CLEAR ROADWAY TO BE REMOVED). THE EXISTING BRIDGE IS PRESENTLY POSTED FOR LOAD LIMIT. SHOULD THE STRUCTURAL INTEGRITY OF THE BRIDGE DETERIORATE DURING CONSTRUCTION OF THE PROPOSED BRIDGE, A LOAD LIMIT MAY BE POSTED AND MAY BE REDUCED AS FOUND NECASSARY DURING THE LIFE OF THE PROJECT.

THE SUBSTRUCTURE OF THE EXISTING BRIDGE INDICATED ON THE PLANS IS FROM THE BEST INFORMATION AVAILABLE. SINCE THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT OF TRANSPORATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN THE EXISTING BRIDGE SUBSTRUCTURE SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

REMOVAL OF THE EXISTING BRIDGE SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL INTO THE WATER. THE CONTRACTOR SHALL REMOVE THE BRIDGE AND SUBMIT PLANS FOR DEMOLITION IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS.

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH "HEC 18-EVALUATING SCOUR AT BRIDGES."

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.

FOUNDATION NOTES

FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

PILES AT END BENTS No.1 AND 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 85 AND 70 TONS PER PILE, RESPECTIVELY.

DRIVE PILES AT END BENTS No. 1 AND 2 TO A REQUIRED DRIVING RESISTANCE OF 145 AND 120 TONS PER PILE.

PILES AT BENT No. 1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 100 TONS PER PILE.

DRIVE PILES AT BENT No.1 TO A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE. THIS REQUIRED DRIVING RESISTANCE INCLUDES ADDITIONAL RESITANCE FOR DOWNDRAG OR SCOUR.

INSTALL PILES AT BENT No.1 TO A TIP ELEVATION NO HIGHER THAN -31

THE SCOUR CRITICAL ELEVATION FOR BENT No.1 IS ELEVATION -8 FT. SCOUR CRITICAL ELEVATION IS USED TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.

TESTING PILES WITH THE PDA DURING DRIVING, RESTRIKING OR REDRIVING MAY BE REQUIRED. THE ENGINEER WILL DETERMINE THE NEED FOR PDA TESTING. FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS (AND FOR PILE DRIVING CRITERIA, SEE PILE DRIVING CRITERIA PROVISION).

GALVANIZE IN ACCORDANCE WITH SECTION 1076 OF THE STANDAR SPECIFICATIONS.

(SEE PROJECT SPECIAL PROVISIONS)

SEAL

039173

Matthew Tom

HYDRAULIC DATA

DESIGN DISCHARGE____ = 430 CFS. FREQUENCY OF DESIGN FLOOD____ = 25 YR. DESIGN HIGH WATER ELEVATION____ = 5.1 FT. DRAINAGE AREA_____ = 2.49 SQ.MI. BASE FLOOD DISCHARGE (Q100)____ = 650 CFS. BASE HIGH WATER ELEVATION____ = 5.76 FT.

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE____ = 4800 CFS FREQUENCY OF OVERTOPPING FLOOD___= 500(+) YR. OVERTOPPING FLOOD ELEVATION____ = 11.7 FT.*

PROJECT NO. <u>17BP.1.R.70</u> MARTIN _ COUNTY 12+82.51 -L-STATION:

SHEET 1 OF 2 REPLACES BRIDGE No. 570021

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

GENERAL DRAWING FOR BRIDGE ON SR 1563 OVER SWAMP

BETWEEN US 64 AND SR 1557 27'-10"CLEAR ROADWAY - 90° SKEW

	SHEET NO.				
BY:	DATE:	NO.	BY:	DATE:	S-2
		3			TOTAL SHEETS
		4			17

TOTAL BILL OF MATERIAL														
	REMOVAL OF EXISTING STRUCTURE AT STA 13+24.00 -L-	UNCLASSIFIED STRUCTURE EXCAVATION		HP 12 X 53 STEEL PILES		P 14 X 73 FEEL PILES	RIP RIP CLASS II (2'-0"THICK)	GEOTEXTILE FOR DRAINAGE	CONSTRUCTION OF SUBSTRUCTURE	CONSTRUCTION OF SUPERSTRUCTURE	BRIDGE APPROACH SLAB			
	LUMP SUM	LUMP SUM	No.	LIN.FT.	No.	LIN.FT.	TON	SQ. YDS.	LUMP SUM	LUMP SUM	LUMP SUM			
SUPERSTRUCTURE														
END BENT 1			5	425			45	50						
BENT 1					7	630								
END BENT 2			5	400			50	50						
TOTAL	LUMP SUM	LUMP SUM	10	825	7	630	95	100	LUMP SUM	LUMP SUM	LUMP SUM			





M. K. TOM DATE: 3/12/15 CHECKED BY: K. H. COMPTON DATE: 4/15/15 DESIGNED BY : Z. H. BROWN DATE : 7/1/14

^{*}ROADWAY LOW POINT STA.11+22.00 -L-

