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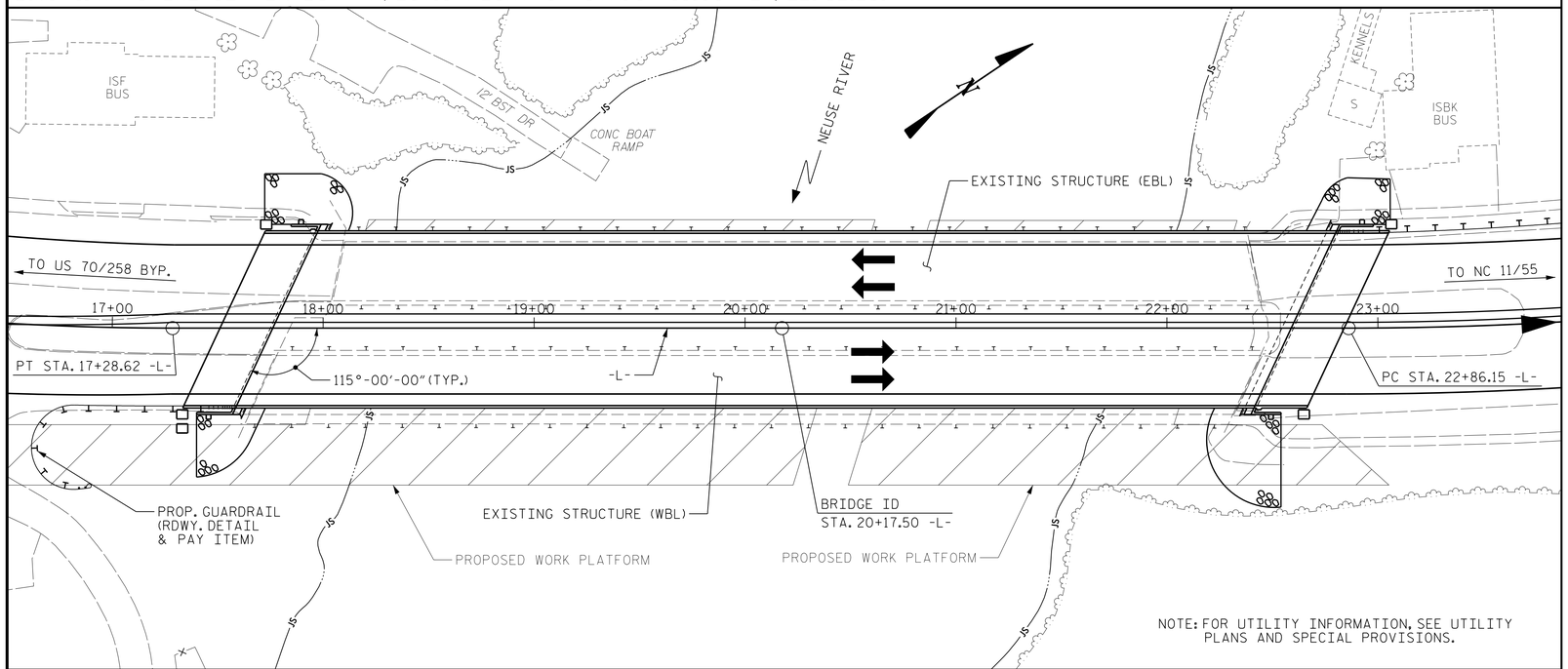
B.M. #1: RR SPIKE SET IN BST PA; 267.0' RIGHT OF STA. 17+19.00 -L-, EL. 32.25.



LOCATION SKETCH

TOTAL BILL OF MATERIAL

	CONSTRUCTION, MAINTENANCE AND REMOVAL OF TEMPORARY ACCESS AT STA. 20+17.50 -L-	REMOVAL OF EXISTING STRUCTURES AT STA. 20+17.50 -L-	PDA TESTING	UNCLASSIFIED STRUCTURE EXCAVATION	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	MODIFIED 72" PRESTRESSED CONCRETE GIRDER		HP 14 X 73 STEEL PILES		PP 36 X 0.625 STEEL PILES	
	LUMP SUM	LUMP SUM	EACH	LUMP SUM	SQ. FT.	SQ. FT.	CU. YDS.	LUMP SUM	LBS.	NO.	LIN. FT.	NO.	LIN. FT.	NO.	LIN. FT.
SUPERSTRUCTURE					40,582	32,120				32	3827.17				
END BENT 1				LUMP SUM			115.6		16,005			22	1430		
BENT 1							77.6		8478						
BENT 2							78.1		8478						
BENT 3							78.6		8879						
END BENT 2							109.8		15,045			22	1210		
TEST PILE														1	95
TOTAL	LUMP SUM	LUMP SUM	9	LUMP SUM	40,582	32,120	459.7	LUMP SUM	56,885	32	3827.17	44	2640	1	95

TOTAL BILL OF MATERIAL

	PP 36 X 0.625 GALVANIZED STEEL PILES		STEEL PILE POINTS	PILE REDRIVES	PREDRILLING FOR PILES	RIP RAP CLASS II (2'-0" THICK)	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS	EXPANSION JOINT SEALS	ELECTRICAL CONDUIT SYSTEM AT STA. 20+17.50 -L-	CLASSIC CONCRETE BRIDGE RAIL	TEST PILE MOBILIZATION	ARCHITECTURAL PLINTH FOOTING
	NO.	LIN. FT.	EACH	EACH	LIN. FT.	TON	SQ. YDS.	LUMP SUM	LUMP SUM	LUMP SUM	LIN. FT.	LUMP SUM	LUMP SUM
SUPERSTRUCTURE								LUMP SUM	LUMP SUM		1065.28		
END BENT 1				6		289	321						
BENT 1	8	760	8	4	320								
BENT 2	8	760	8	4	320								
BENT 3	8	760	8	4	320								
END BENT 2				6		361	401						
TEST PILE			1	1	76								
TOTAL	24	2280	25	25	1036	650	722	LUMP SUM	LUMP SUM	LUMP SUM	1065.28	LUMP SUM	LUMP SUM

NOTES

ASSUMED LIVE LOAD = HL 93 OR ALTERNATE LOADING.

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

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

THIS BRIDGE IS LOCATED IN SEISMIC ZONE 1.

PRESTRESSED CONCRETE DECK PANELS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.

REMOVABLE FORMS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.

THE EXISTING STRUCTURE (EBL) CONSISTING OF TEN SPANS (2 @ 34'-6", 4 @ 35', 2 @ 73'-6" AND 2 @ 35') WITH ASPHALT WEARING SURFACE ON REINFORCED CONCRETE DECK GIRDERS AND STEEL I-BEAMS AND A CLEAR ROADWAY WIDTH OF 28'-0" ON REINFORCED CONCRETE FULL HEIGHT ABUTMENTS AND CONCRETE BENT CAP ON STEEL PILES WITH ENCLOSED CONCRETE JACKETS AND LOCATED AT THE SITE OF THE PROPOSED STRUCTURE SHALL BE REMOVED.

THE EXISTING STRUCTURE (WBL) CONSISTING OF 11 SPANS 42'-6" WITH ASPHALT WEARING SURFACE ON REINFORCED CONCRETE DECK GIRDERS AND A CLEAR ROADWAY WIDTH OF 28'-0" ON REINFORCED CONCRETE END BENTS AND CONCRETE BENTS CAPS ON STEEL PILES ENCASED IN CONCRETE AND LOCATED AT THE SITE OF THE PROPOSED STRUCTURE SHALL BE REMOVED.

THE SUBSTRUCTURE OF THE EXISTING BRIDGES INDICATED ON THE PLANS IS FROM THE BEST INFORMATION AVAILABLE. THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT OF TRANSPORTATION 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 BRIDGES SHALL BE PERFORMED IN A MANNER THAT PREVENTS DEBRIS FROM FALLING INTO THE WATER. THE CONTRACTOR SHALL SUBMIT DEMOLITION PLANS FOR REVIEW AND REMOVE THE BRIDGE IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS.

THE MATERIAL SHOWN IN THE CROSS-HATCHED AREA SHALL BE EXCAVATED FOR A DISTANCE OF 75 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 SPECIFICATIONS.

INASMUCH AS THE PAINT SYSTEM ON THE EXISTING STRUCTURAL STEEL CONTAINS LEAD FOR THE EXISTING STRUCTURE (EBL), THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLE 107-1 OF THE STANDARD SPECIFICATIONS. ANY COSTS RESULTING FROM COMPLIANCE WITH APPLICABLE STATE OR FEDERAL REGULATIONS PERTAINING TO HANDLING OF MATERIALS CONTAINING LEAD BASED PAINT SHALL BE INCLUDED IN THE BID PRICE FOR "REMOVAL OF EXISTING STRUCTURE AT STATION 20+17.50 -L-."

THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIRING UP TO 400 TONS OF REINFORCING STEEL, ONE 30 INCH SAMPLE OF EACH SIZE BAR USED, AND FOR PROJECTS REQUIRING OVER 400 TONS OF REINFORCING STEEL, TWO 30 INCH SAMPLES OF EACH SIZE BAR USED. THE BARS FROM WHICH THE SAMPLES ARE TAKEN MUST THEN BE SPLICED WITH REPLACEMENT BARS OF THE SIZE AND LENGTH OF THE SAMPLE, PLUS A MINIMUM LAP SPLICE OF THIRTY BAR DIAMETERS. PAYMENT FOR THE SAMPLES OF REINFORCING STEEL SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

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

FOR ELECTRICAL CONDUIT SYSTEM, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS INCLUDED ON THE PLANS OR APPROVED BY THE ENGINEER.

FOR FOUNDATION NOTES, SEE "FOUNDATION LAYOUT" SHEET.

FOR PLACING LOAD ON STRUCTURE MEMBERS, SEE SPECIAL PROVISIONS.

THE CONTRACTOR WILL BE REQUIRED TO CONSTRUCT, MAINTAIN AND AFTERWARDS REMOVE A TEMPORARY ACCESS AT STA. 20+17.50 -L- FOR USE DURING REMOVAL OF EXISTING STRUCTURE AND CONSTRUCTION OF THE PROPOSED STRUCTURE.

FOR CONSTRUCTION, MAINTENANCE AND REMOVAL OF TEMPORARY ACCESS, SEE SPECIAL PROVISIONS.

FOR ARCHITECTURAL PLINTH FOOTING, SEE SPECIAL PROVISIONS.

PROJECT NO. B-4565
LENOIR COUNTY
STATION: 20+17.50 -L-

SHEET 4 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING
FOR BRIDGE ON US 70/258 BUS.
OVER NEUSE RIVER
BETWEEN US 70/258 BYP.
AND NC 11/55

NORTH CAROLINA PROFESSIONAL SEAL 027799 ENGINEER ALLYSON K. ORR
DocuSigned by: Allyson K. Orr
11/17/2014

MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER : P-0671

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-4
1			3			TOTAL SHEETS
2			4			118

DRAWN BY : B.E. LANNING DATE : 09/14
CHECKED BY : A.K. ORR DATE : 09/14
DESIGN ENGINEER OF RECORD : A.K. ORR DATE : 10/14

11/17/2014
3:35:01 PM
User: blanning
Filename: P:\NC Bridges\MI4001.01 - B-4565 Lenoir\Site 1\Structures\401_020_S01_B4565_SMU_GD04.dgn