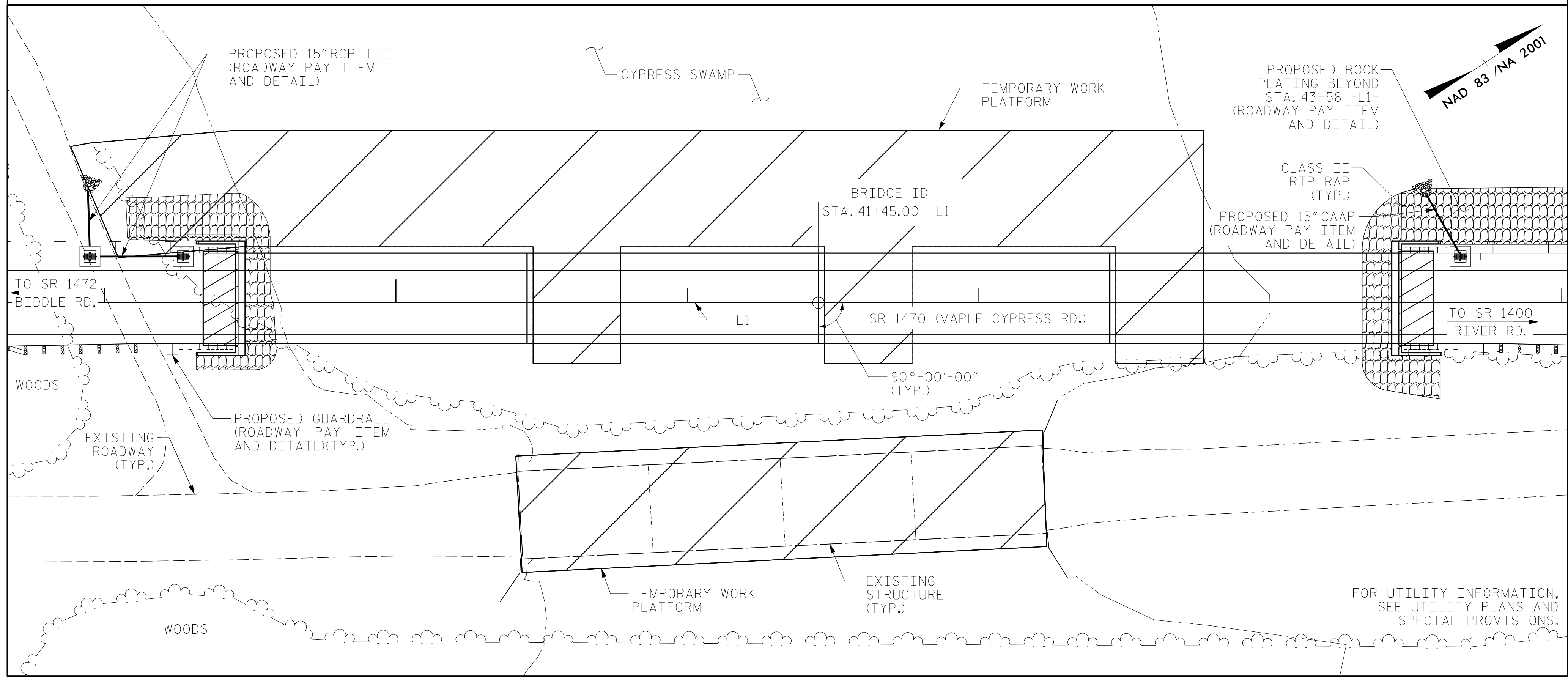


BENCHMARK - NCDOT GPS (B4484-1), 29' RT. OF -L1- STA. 19+61.00, EL. 24.22



LOCATION SKETCH

NOTES

- ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING.
- THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF 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.
- NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.
- AFTER SERVING AS A TEMPORARY STRUCTURE THE EXISTING STRUCTURE CONSISTING OF 4 @ 45'-0" PRESTRESSED CONCRETE CORED SLAB SPANS WITH PPC CAPS AND H-PILES AND LOCATED APPROXIMATELY 65 FT DOWNSTREAM FROM THE PROPOSED STRUCTURE SHALL BE REMOVED. THE EXISTING BRIDGE IS PRESENTLY NOT 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 NECESSARY 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 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 BRIDGE 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.
- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH "HEC 18 - EVALUATING SCOUR AT BRIDGES."
- FOR INTERIOR BENTS 1-3, ONLY PARTIAL GALVANIZING OF THE PILES IS REQUIRED. SEE INTERIOR BENT SHEETS FOR REQUIRED GALVANIZING LENGTHS. PAYMENT FOR PARTIALLY GALVANIZED PILES WILL BE MADE UNDER THE CONTRACT UNIT PRICE FOR GALVANIZED STEEL PILES.
- THE CONTRACTOR WILL BE REQUIRED TO CONSTRUCT, MAINTAIN, AND AFTERWARDS REMOVE THE TEMPORARY ACCESS AT STATION 41+45.00 -L1- FOR USE DURING CONSTRUCTION OF THE PROPOSED STRUCTURE.
- FOR CONSTRUCTION, MAINTENANCE, AND REMOVAL OF TEMPORARY ACCESS AT STATION 41+45.00 -L1-, SEE SPECIAL PROVISIONS.
- FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.
- FOR ABESTOS ASSESSMENT FOR BRIDGE DEMOLITION AND RENOVATION ACTIVITIES, 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.
- FOR PAYMENT OF TOP PIPE PILE PLATES, SEE "DRIVE STEEL PIPE PILES WITH PILE CUSHION" SPECIAL PROVISION.
- FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.

TOTAL BILL OF MATERIALS

	CONSTRUCTION, MAINTENANCE, AND REMOVAL OF TEMPORARY ACCESS AT STA. 41+45.00 -L1-	REMOVAL OF EXISTING STRUCTURE AT STA. 41+45.00 -L1-	ASBESTOS ASSESSMENT	PDA TESTING	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	54" PRESTRESSED CONCRETE GIRDERS	PILE DRIVING EQUIPMENT SETUP FOR HP 12X53 STEEL PILES	
	LUMP SUM	LUMP SUM	LUMP SUM	EACH	SO. FT.	SO. FT.	CU. YDS.	LUMP SUM	LBS.	NO.	LIN. FT.	EACH
SUPERSTRUCTURE	---	---	---	---	13,245	11,788	---	LUMP SUM	---	16	1,582.7	---
END BENT NO. 1	---	---	---	1	---	---	33.2	---	5,856	---	---	7
BENT NO. 1	---	---	---	---	---	---	20.3	---	3,253	---	---	---
BENT NO. 2	---	---	---	1	---	---	20.3	---	3,253	---	---	---
BENT NO. 3	---	---	---	1	---	---	20.3	---	3,253	---	---	---
END BENT NO. 2	---	---	---	1	---	---	33.2	---	5,856	---	---	7
TOTAL	LUMP SUM	LUMP SUM	LUMP SUM	4	13,245	11,788	127.3	LUMP SUM	21,471	16	1,582.7	14

	PILE DRIVING EQUIPMENT SETUP FOR PP 24X0.50 GALVANIZED STEEL PILES	HP 12X53 STEEL PILES	PP 24X0.50 GALVANIZED STEEL PILES	PIPE PILE PLATES	PILE REDRIVES	VERTICAL CONCRETE BARRIER RAIL	RIP RAP CLASS II (2'-0" THICK)	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS	TOP PIPE PILE PLATES		
	EACH	NO.	LIN. FT.	NO.	LIN. FT.	EACH	EACH	LIN. FT.	TONS	SO. YDS.	LUMP SUM	EACH
SUPERSTRUCTURE	---	---	---	---	---	---	---	796.7	---	---	LUMP SUM	---
END BENT NO. 1	---	7	525	---	---	---	4	---	170	185	---	---
BENT NO. 1	5	---	---	5	475	5	3	---	---	---	---	5
BENT NO. 2	5	---	---	5	500	5	3	---	---	---	---	5
BENT NO. 3	5	---	---	5	475	5	3	---	---	---	---	5
END BENT NO. 2	---	7	525	---	---	---	4	---	160	175	---	---
TOTAL	15	14	1050	15	1450	15	17	796.7	330	360	LUMP SUM	15

HYDRAULIC DATA

DESIGN DISCHARGE = 19,400 CFS
 FREQUENCY OF DESIGN DISCHARGE = 2 YRS
 DESIGN HIGH WATER ELEVATION = 13.2
 DRAINAGE AREA = 3,950 SQ. MI.
 BASE DISCHARGE (Q100) = 70,000 CFS
 BASE HIGH WATER ELEVATION = 23.3

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE = 22,400 CFS
 FREQUENCY OF OVERTOPPING = 2+ YRS
 * OVERTOPPING ELEVATION = 13.8
 * SAG @ STA. 07+20.00 -L1-

DRAWN BY : NSC DATE : 03/2019
 CHECKED BY : JMR DATE : 06/2019
 DESIGN ENGINEER OF RECORD: PDS DATE : 06/2019

PROJECT NO. B-4484
CRAVEN COUNTY
 STATION: 41+45.00 -L1-

SHEET 3 OF 3 REPLACES BRIDGE NO. 240139



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

GENERAL DRAWINGS
 BRIDGE OVER NEUSE RIVER
 OVERFLOW ON SR 1470
 (MAPLE CYPRESS RD.) BETWEEN
 SR 1472 (BIDDLE RD.)
 AND SR 1400 (RIVER RD.)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-3
1			3			TOTAL SHEETS
2			4			31

RS&H Architects-Engineers-Planners, Inc.
 8521 Six Forks Road, Suite 400
 919-926-4100 FAX 919-846-9080
 www.rsandh.com
 North Carolina License No. 50737-5403-C&E

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED