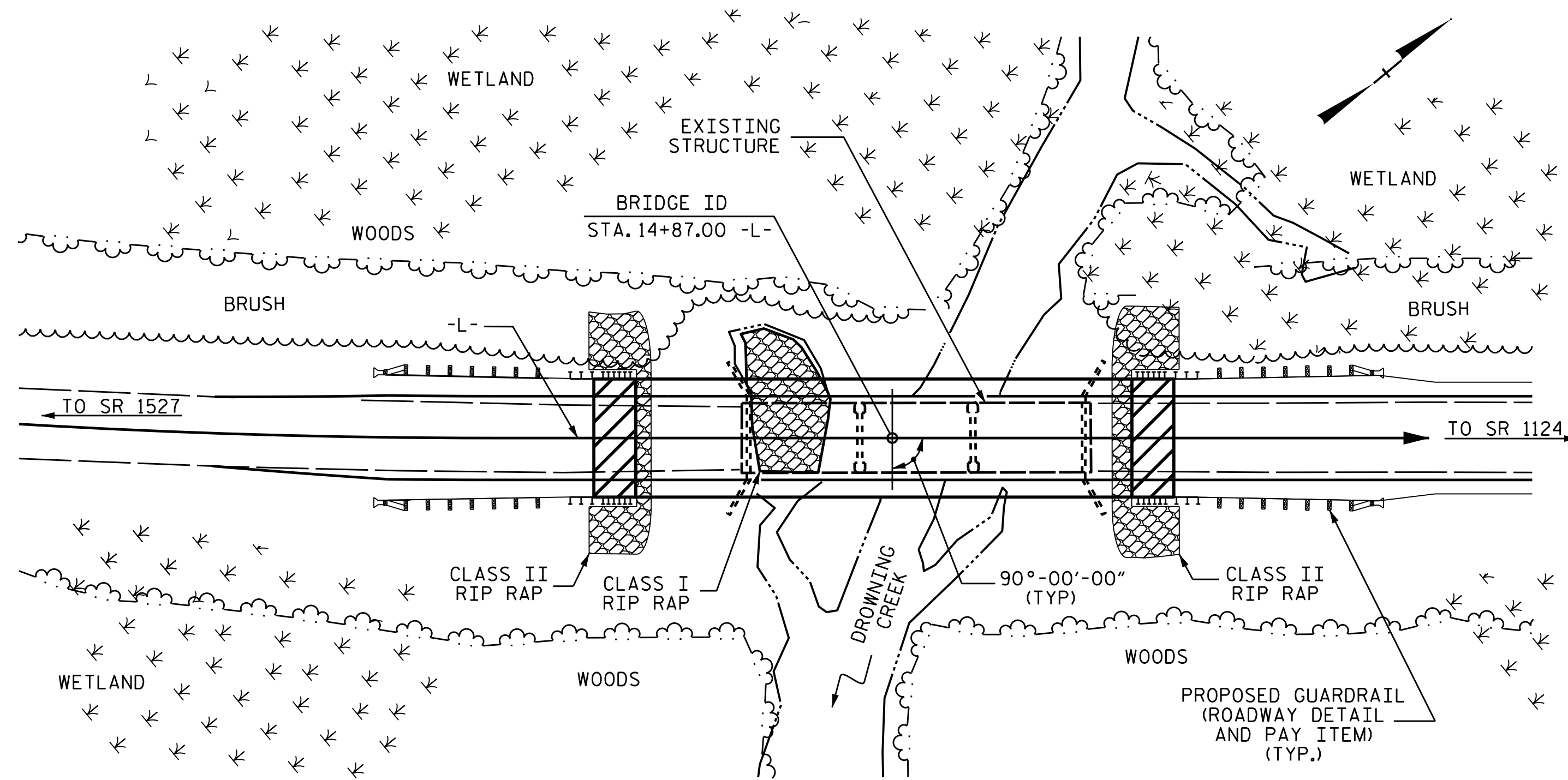


BM #1: RR SPIKE IN BASE OF 18" ASH TREE, 57' RIGHT OF STA. 14+57.00 -L-, ELEV. 396.00'



HYDRAULIC DATA

DESIGN DISCHARGE	= 1,200 C.F.S
FREQUENCY OF DESIGN FLOOD	= 50 YRS.
DESIGN HIGH WATER ELEVATION	= 396.4
DRAINAGE AREA	= 31.9 SQ. MI.
BASE DISCHARGE (Q100)	= 1,300 C.F.S
BASE HIGH WATER ELEVATION	= 396.51

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE	= 9,000 C.F.S
FREQUENCY OF OVERTOPPING	= 500++ YRS.
OVERTOPPING ELEVATION	= 402.1 *

* OVERTOPPING ELEVATION EQUALS NORMAL CROWN AT SAG LOCATION, STATION 10+10.00 -L-

FOR UTILITY INFORMATION, SEE UTILITY PLANS AND SPECIAL PROVISIONS.

LOCATION SKETCH

TOTAL BILL OF MATERIAL

	REMOVAL OF EXISTING STRUCTURE	UNCLASSIFIED STRUCTURE EXCAVATION	CONCRETE WEARING SURFACE	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES	PILE DRIVING EQUIPMENT SETUP FOR HP 14 X 73 GALVANIZED STEEL PILES
	LUMP SUM	LUMP SUM	SO. FT.	SO. FT.	CU. YDS.	LUMP SUM	LBS.	EA.	EA.
SUPERSTRUCTURE			4765	5144					
END BENT 1		LUMP SUM			27.4		3763	7	
BENT 1					12.7		2932		8
END BENT 2		LUMP SUM			27.4		3763	7	
TOTAL	LUMP SUM	LUMP SUM	4765	5144	67.5	LUMP SUM	10458	14	8

TOTAL BILL OF MATERIAL

HP 12 X 53 STEEL PILES	HP 14 X 73 GALVANIZED STEEL PILES	CONCRETE BARRIER RAIL	RIP RAP CLASS I	RIP RAP CLASS II (2'-0" THICK)	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS	3'-0" X 2'-9" PRESTRESSED CONCRETE BOX BEAMS	ASBESTOS ASSESSMENT
NO.	LIN.FT.	NO.	LIN.FT.	LIN.FT.	TONS	TONS	SO.YDS.	LUMP SUM
				290				LUMP SUM
7	105				80	90		
		8	240		90	105		
7	140				100	110		
14	245	8	240	290	90	180	305	LUMP SUM
								LUMP SUM

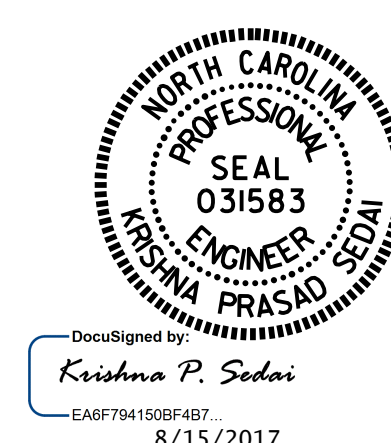
NOTES

ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING.
 THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
 THIS BRIDGE IS LOCATED IN SEISMIC ZONE 1.
 FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.
 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.
 THE MATERIAL SHOWN IN THE CROSS-HATCHED AREA ON SHEET S-1 SHALL BE EXCAVATED FOR A DISTANCE OF 30 FEET LEFT SIDE OF END BENT 1 AND EACH SIDE OF END BENT 2, AND 55 FEET RIGHT SIDE OF END BENT 1 FROM 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.
 FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.
 THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH "HEC 18-EVALUATING SCOUR AT BRIDGES."
 FOR CONCRETE WEARING SURFACE, SEE SPECIAL PROVISIONS.
 THE EXISTING STRUCTURE CONSISTING OF 3 SPANS; 1 @ 32'-3", 1 @ 32'-7", 1 @ 32'-1" WITH A CLEAR ROADWAY WIDTH OF 20'-0" ON A REINFORCED CONCRETE DECK GIRDER FLOOR SYSTEM WITH A 5" ASPHALT WEARING SURFACE ON A SUBSTRUCTURE CONSISTING OF FULL HEIGHT ABUTMENT END BENTS AND INTERIOR BENT WITH REINFORCING CONCRETE CAP AND PILES AND LOCATED AT THE PROPOSED STRUCTURE, SHALL BE REMOVED. THE EXISTING BRIDGE IS PRESENTLY NOT POSTED FOR LOAD LIMIT. SHOULD THE STRUCTURAL INTEGRITY OF THE BRIDGE FURTHER DETERIORATE, THIS LOAD LIMITATION 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 PLAN FOR REVIEW AND REMOVE THE BRIDGE IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS.
 FOR ASBESTOS ASSESEMENT FOR BRIDGE DEMOLITION AND RENOVATION ACTIVITIES, SEE SPECIAL PROVISIONS.

PROJECT NO. B-5362
MONTGOMERY COUNTY
 STATION: 14+87.00 -L-

SHEET 3 OF 3



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

GENERAL DRAWING
 FOR BRIDGE OVER DROWNING CREEK ON NC 73 BETWEEN SR 1527 AND SR 1124

DRAWN BY : A. SORSENGINH DATE : 7/2016
 CHECKED BY : E. K. POPE DATE : 4/2017
 DESIGN ENGINEER OF RECORD: A. SORSENGINH DATE : 7/2017

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-3
1			3			TOTAL SHEETS
2			4			21