

TOTAL BILL OF MATERIAL																			
	REMOVAL OF EXISTING STRUCTURE	PILE EXCAVATION IN SOIL	PILE EXCAVATION NOT IN SOIL	UNCLASSIFIED STRUCTURE EXCAVATION	CONCRETE WEARING SURFACE	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	HP 12 X 53 STEEL PILES	STEEL PILE POINTS	TWO BAR METAL RAIL	1'-2" X 2'-11 1/4" CONCRETE PARAPET	RIP RAP CLASS II (2'-0" THICK)	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS	3'-0" X 2'-0" PRESTRESSED CONCRETE CORED SLABS		
	LUMP SUM	LIN. FT.	LIN. FT.	LUMP SUM	SO. FT.	SO. FT.	CU. YDS.	LUMP SUM	LBS.	NO.	LIN. FT.	EA.	LIN. FT.	LIN. FT.	TON	SO. YD.	LUMP SUM	NO.	LIN. FT.
SUPERSTRUCTURE					2,135	2,537						125.00	140.00				LUMP SUM	11	770
END BENT 1							22.5		2,713	7	105	7			153	170			
END BENT 2		38	32				22.5		2,713	7	70				153	170			
TOTAL	LUMP SUM	38	32	LUMP SUM	2,135	2,537	45.0	LUMP SUM	5,426	14	175	7	125.00	140.00	306	340	LUMP SUM	11	770

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.

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

INASMUCH AS THE PAINT SYSTEM ON THE EXISTING STRUCTURAL STEEL CONTAINS LEAD, 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 14+38.00 -L-."

THE MATERIAL SHOWN IN THE CROSS-HATCHED AREA ON SHEET S-1 SHALL BE EXCAVATED FOR A DISTANCE OF 85 FT LEFT SIDE, 65 FT RIGHT SIDE OF CENTERLINE ROADWAY AT END BENT 1 AND 55 FT LEFT SIDE, 30 FT RIGHT SIDE OF CENTERLINE ROADWAY AT END BENT 2 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.

THE EXISTING STRUCTURE CONSISTING OF 2 SPANS: 2 @ 25'-2" WITH A CLEAR ROADWAY OF 24'-0", 5.5" ASPHALT WEARING SURFACE AND STEEL PLANK DECK ON I-BEAMS, RUBBLE MASONRY ABUTMENTS WIDENED WITH TIMBER CAPS AND PILES WITH CONCRETE ENCASEMENT, AND INTERIOR BENT WITH TIMBER CAPS AND PILES WITH CONCRETE ENCASEMENT AT THE PROPOSED STRUCTURE SITE SHALL BE REMOVED, EXCEPT THAT THE FOOTINGS AT ABUTMENT 1 AND THE INTERIOR BENT SHALL BE RETAINED AND ABUTMENT 2 SHALL BE REMOVED TO THE TOP OF THE FOOTING. IF THE FOOTING AT ABUTMENT 1 INTERFERES WITH DRIVING PROPOSED PILES, THEN IT CAN BE REMOVED AS DIRECTED BY THE ENGINEER. THE EXISTING BRIDGE IS PRESENTLY NOT POSTED FOR LOAD LIMIT. FOR "REMOVAL OF EXISTING STRUCTURE", SEE SPECIAL PROVISIONS.

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.

FOR "FAA NOTICE OF PROPOSED CONSTRUCTION", SEE SPECIAL PROVISIONS.

FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.

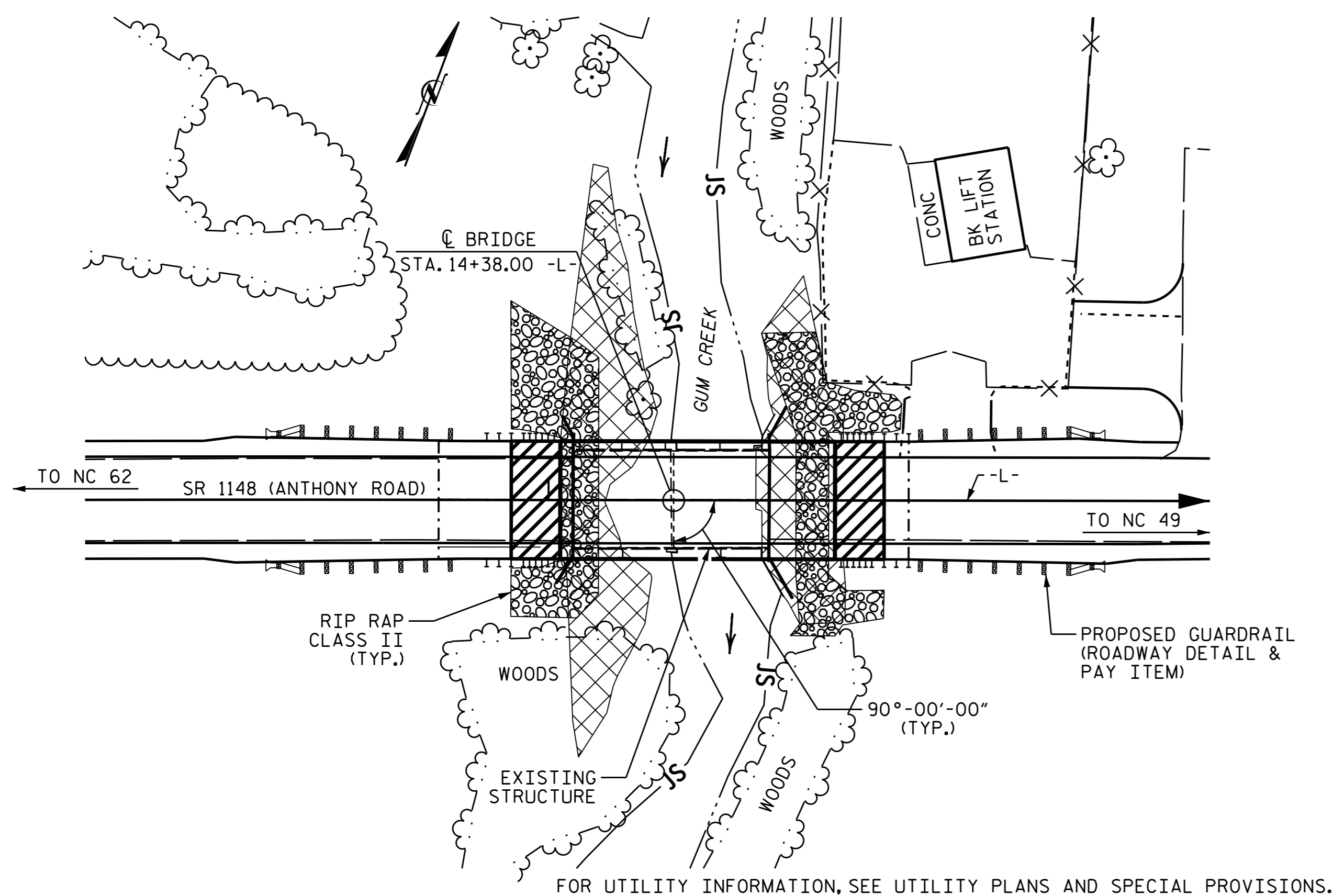
FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

BM #2: RR SPIKE IN 20' SWEET GUM TREE, 148.4' LT. STA. 14+04.59 -L-, EL. = 519.16



LOCATION SKETCH

HYDRAULIC DATA

DESIGN DISCHARGE	3370 CFS.
FREQUENCY OF DESIGN FLOOD	25 YRS.
DESIGN HIGH WATER ELEVATION	523.1
DRAINAGE AREA	7.17 SQ. MI.
BASE DISCHARGE (Q100)	4080 CFS.
BASE HIGH WATER ELEVATION	523.32

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE	7100 CFS.
FREQUENCY OF OVERTOPPING FLOOD	500+ YRS.
OVERTOPPING FLOOD ELEVATION	524.8

DRAWN BY: *William F. Parker* DATE: 06/02/14
 CHECKED BY: T. L. AVERETTE DATE: 7/16/14
 DESIGN ENGINEER OF RECORD: T. L. AVERETTE DATE: 7/15/15

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 t.fang



DocuSign by: *Ting H. Fang* 10/14/2015
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PROJECT NO. B-5342
ALAMANCE COUNTY
 STATION: 14+38.00 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

GENERAL DRAWING

BRIDGE OVER GUM CREEK
 ON SR 1148 BETWEEN
 SR 1204 & SR 1154

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-3
1			3			TOTAL SHEETS
2			4			18