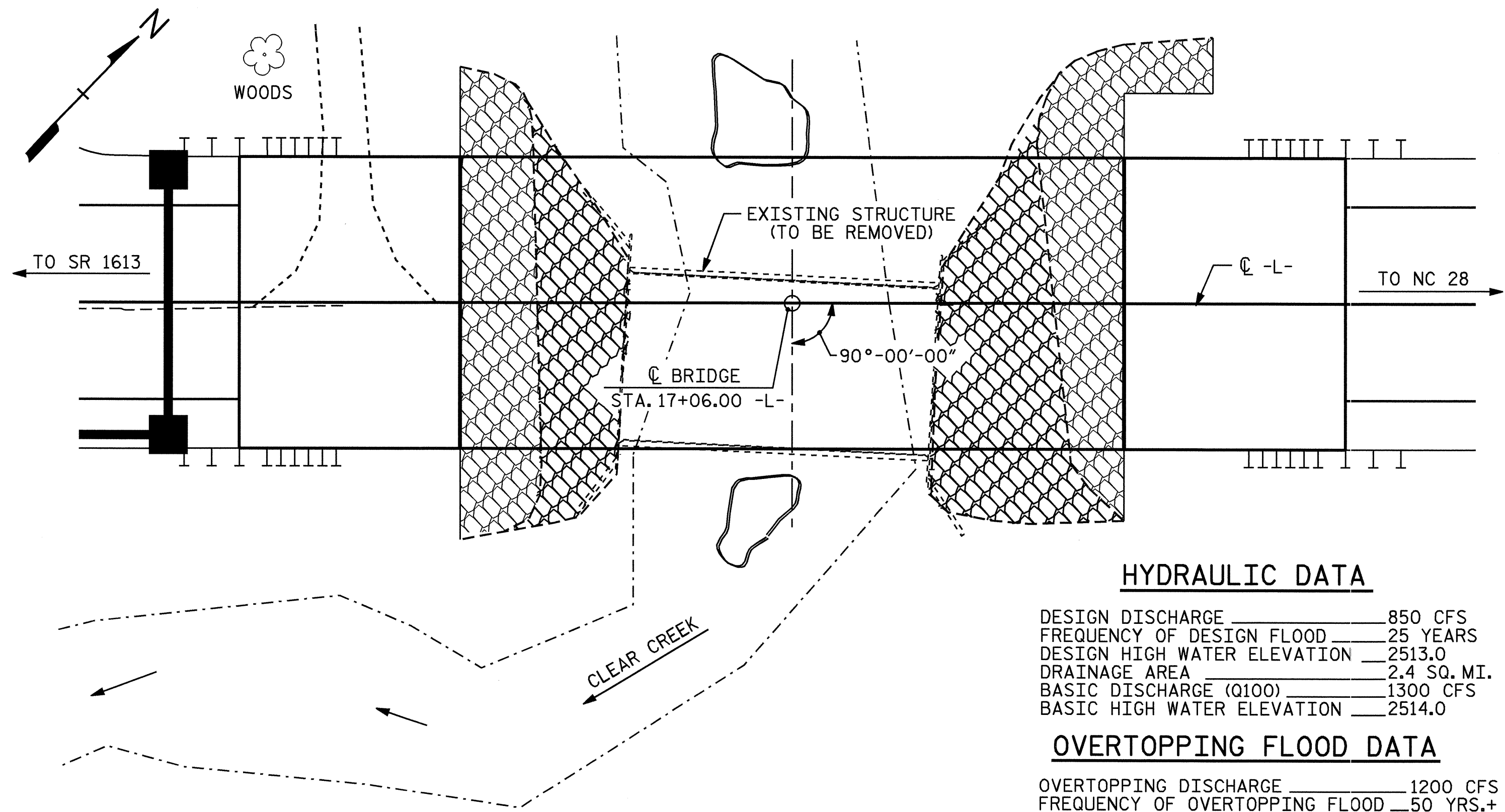


BENCH MARK : NCDOT STATION B4180 GPS 102 ELEV. 2518.13' DATUM NAVD 88



**HYDRAULIC DATA**  
 DESIGN DISCHARGE \_\_\_\_\_ 850 CFS  
 FREQUENCY OF DESIGN FLOOD \_\_\_\_\_ 25 YEARS  
 DESIGN HIGH WATER ELEVATION \_\_\_\_\_ 2513.0  
 DRAINAGE AREA \_\_\_\_\_ 2.4 SQ. MI.  
 BASIC DISCHARGE (Q100) \_\_\_\_\_ 1300 CFS  
 BASIC HIGH WATER ELEVATION \_\_\_\_\_ 2514.0

**OVERTOPPING FLOOD DATA**  
 OVERTOPPING DISCHARGE \_\_\_\_\_ 1200 CFS  
 FREQUENCY OF OVERTOPPING FLOOD \_\_\_\_\_ 50 YRS.+  
 OVERTOPPING FLOOD ELEVATION \_\_\_\_\_ 2513.9

NOTE : FOR UTILITY INFORMATION, SEE UTILITY PLANS AND SPECIAL PROVISIONS.

LOCATION SKETCH

(NOTES CONTINUED FROM SHEET 1 OF 3)

PILES FOR END BENT NO.1 AND END BENT NO.2 SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 50 TONS EACH.

STEEL PILE POINTS WITH TEETH ARE REQUIRED FOR PILES AT END BENT NO.1 AND END BENT NO.2. SEE SPECIAL PROVISIONS FOR STEEL PILES POINTS.

WHEN DRIVING PILES, THE MAXIMUM BLOW COUNT SHALL NOT BE EXCEEDED.

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH HEC 18, "EVALUATING SCOUR AT BRIDGES", NOVEMBER, 1995.

THE MATERIAL SHOWN IN THE CROSS-HATCHED AREA SHALL BE EXCAVATED FOR A DISTANCE OF 19'-6" 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. FOR UNCLASSIFIED STRUCTURE EXCAVATION, SEE SPECIAL PROVISIONS.

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.

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 17+06.00-L-".

- FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
- FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.
- FOR CONSTRUCTION OF SUPERSTRUCTURE, SEE SPECIAL PROVISIONS.
- FOR CONSTRUCTION OF SUBSTRUCTURE, SEE SPECIAL PROVISIONS.
- FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
- FOR CONCRETE WEARING SURFACE, SEE SPECIAL PROVISIONS.

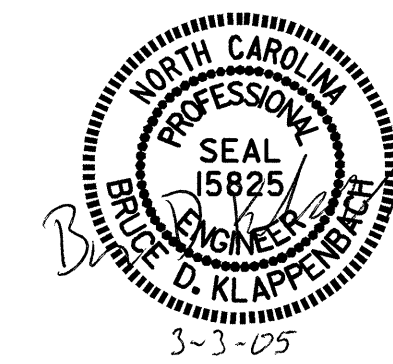
**TOTAL BILL OF MATERIAL**

	REMOVAL OF EXISTING STRUCTURE	UNCLASSIFIED STRUCTURE EXCAVATION	HP 12 X 53 STEEL PILES		STEEL PILE POINTS	PLAIN RIP RAP CLASS II (2'-0" THICK)	CONSTRUCTION OF SUBSTRUCTURE	CONSTRUCTION OF SUPERSTRUCTURE
			NO.	LIN. FT.				
	LUMP SUM	LUMP SUM			EACH	TONS	LUMP SUM	LUMP SUM
SUPERSTRUCTURE								
END BENT NO. 1		LUMP SUM	9	90	9	91		
END BENT NO. 2		LUMP SUM	9	90	9	137		
TOTAL	LUMP SUM	LUMP SUM	18	180	18	228	LUMP SUM	LUMP SUM

PROJECT NO. B-4180  
MACON COUNTY  
 STATION: 17+06.00 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 GENERAL DRAWING FOR  
 BRIDGE OVER CLEAR  
 CREEK ON SR 1611  
 BETWEEN SR 1613 AND  
 NC 28



DRAWN BY : M. G. SHAIKH DATE : 03-17-04  
 CHECKED BY : G. M. PATTERSON DATE : 03-22-04

02-MAR-2005 16:07  
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REVISIONS						TOTAL SHEETS
NO.	BY:	DATE:	NO.	BY:	DATE:	18
1			3			
2			4			