TOTAL BILL OF MATERIAL

	CONSTRUCTION, MAINTENANCE & REMOVAL OF TEMPORARY ACCESS LUMP SUM	REMOVAL OF EXISTING STRUCTURE LUMP SUM	3'-6" Ø DRILLED PIERS IN SOIL LIN. FT.	3'-6" Ø DRILLED PIERS NOT IN SOIL LIN. FT.	SID INSPECTION EACH	CROSSHOLE SONIC LOGGING EACH	REINFORCED CONCRETE DECK SLAB SQ. FEET	GROOVING BRIDGE FLOORS SQ. FEET	CLASS A CONCRETE CU. YDS.	BRIDGE APPROACH SLABS LUMP SUM	REINFORCING STEEL LBS.	SPIRAL COLUMN REINFORCING STEEL LBS.	STRUCTURAL STEEL APPROX. LBS.	ONE BAR METAL RAIL LIN. FT.	1'-0" X 1'-6" CONCRETE PARAPET LIN. FT.	PLAIN RIP RAP CLASS II (2'-0" THICK) TONS	FILTER FABRIC FOR DRAINAGE SQ. YDS.	ELASTOMERIC BEARINGS LUMP SUM	EVAZOTE JOINT SEALS LUMP SUM
SUPERSTRUCTURE							2339	2521		LUMP SUM			52,480	133.98	149.69			LUMP SUM	LUMP SUM
END BENT 1			00.00	28.75	2	1			74.1		18,002	1753				20	22		
END BENT 2			21.00	30.00	2	1			30.5		7976	1406				150	167		
TOTAL	LUMP SUM	LUMP SUM	21.00	58.75	4	2	2339	2521	104.6	LUMP SUM	25,978	3159	52,480	133.98	149.69	170	189	LUMP SUM	LUMP SUM

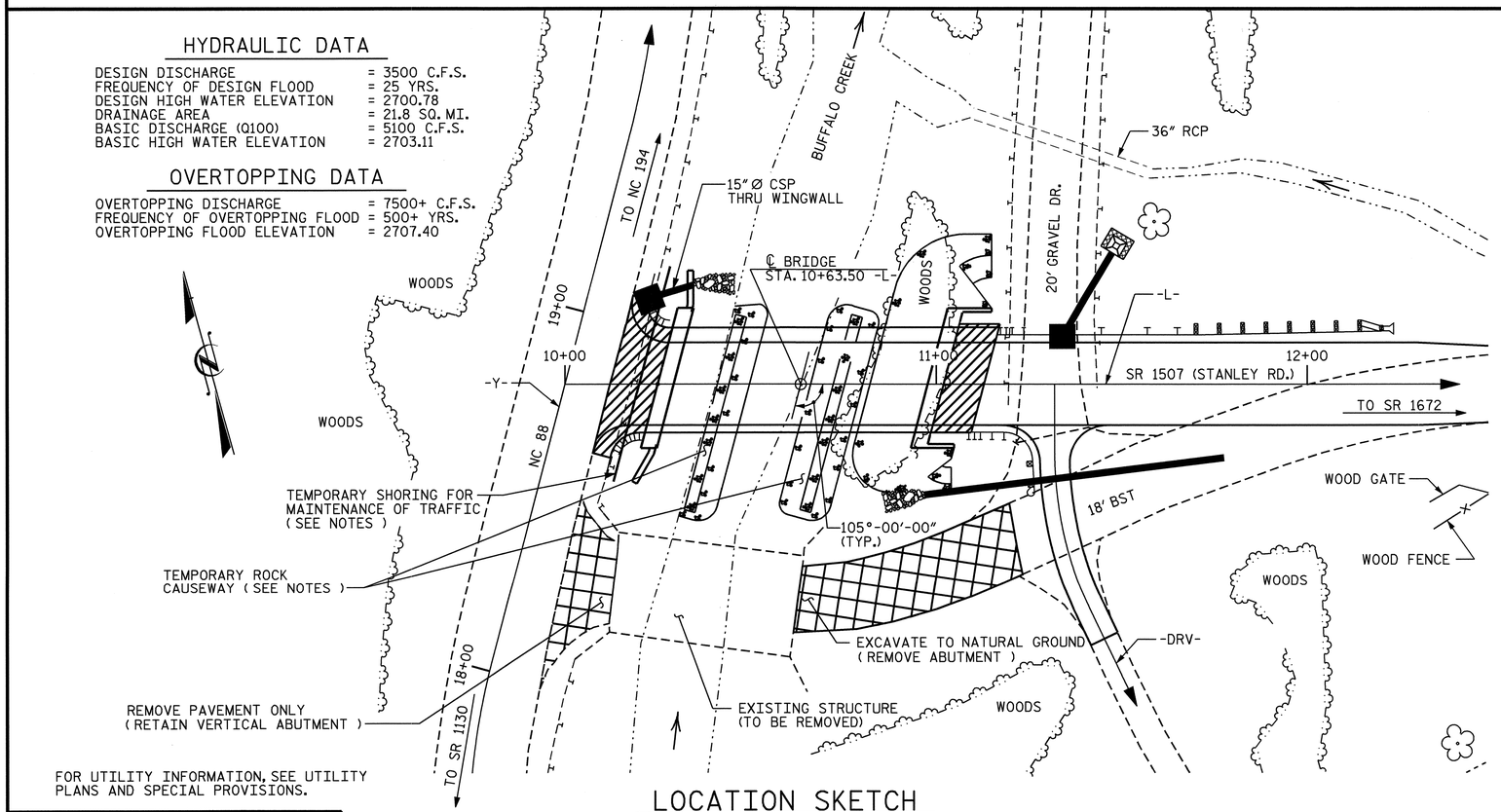
B.M. IS PK NAIL IN ROCK LEDGE IN OLD RAILROAD GRADE AT STA. 11+56.42 -L- OFFSET 72.58' RT. EL. 2778.92 NGVD 29

HYDRAULIC DATA

DESIGN DISCHARGE	= 3500 C.F.S.
FREQUENCY OF DESIGN FLOOD	= 25 YRS.
DESIGN HIGH WATER ELEVATION	= 2700.78
DRAINAGE AREA	= 21.8 SQ. MI.
BASIC DISCHARGE (Q100)	= 5100 C.F.S.
BASIC HIGH WATER ELEVATION	= 2703.11

OVERTOPPING DATA

OVERTOPPING DISCHARGE	= 7500+ C.F.S.
FREQUENCY OF OVERTOPPING FLOOD	= 500+ YRS.
OVERTOPPING FLOOD ELEVATION	= 2707.40



FOR UTILITY INFORMATION, SEE UTILITY PLANS AND SPECIAL PROVISIONS.

LOCATION SKETCH

DRAWN BY : E. G. ALLEN DATE : 8/30/05
CHECKED BY : T. L. CLELLAND DATE : 9/29/05

14-NOV-2005 10:11
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gallen

NOTES (CONT.) :

AT THE CONTRACTOR'S OPTION, AND UPON REMOVAL OF THE TEMPORARY WORK BRIDGE AND CAUSEWAYS, THE CLASS II RIP RAP USED IN THE CAUSEWAYS MAY BE PLACED AS RIP RAP SLOPE PROTECTION. SEE SPECIAL PROVISIONS FOR CONSTRUCTION, MAINTENANCE AND REMOVAL OF TEMPORARY ACCESS AT STATION 10+63.50 -L-.

FOR PHASING OF THE TEMPORARY WORK BRIDGES AND CAUSEWAYS, SEE PERMIT DRAWINGS.

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

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO STANDARD SPECIFICATIONS FOR SEISMIC DESIGN OF HIGHWAY BRIDGES FOR SEISMIC PERFORMANCE CATEGORY A.

THE CLASS AA CONCRETE IN THE BRIDGE DECK SHALL CONTAIN FLY ASH OR GROUND GRANULATED BLAST FURNACE SLAG AT THE SUBSTITUTION RATE SPECIFIED IN ARTICLE 1024-1 AND IN ACCORDANCE WITH ARTICLES 1024-5 AND 1024-6 OF THE STANDARD SPECIFICATIONS. NO PAYMENT WILL BE MADE FOR THIS SUBSTITUTION AS IT IS CONSIDERED INCIDENTAL TO THE COST OF THE REINFORCED CONCRETE DECK SLAB.

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.

NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

PROJECT NO. B-3805
ASHE COUNTY
STATION: 10+63.50 -L-

SHEET 3 OF 3

NORTH CAROLINA PROFESSIONAL SEAL 14855 ENGINEER DOUGLAS R. CALHOUN
11-14-05

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING
BRIDGE ON SR 1507 OVER BUFFALO CREEK BETWEEN NC 88 AND SR 1672

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-3
1			3			TOTAL SHEETS
2			4			26