

LOCATION SKETCH

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				TOTA	L	BILL	_ (OF	MATER	RIAL -					And the state of t	
	CONSTRUCTIO MAINTENANCE AND REMOVAL OF TEMPORAR ACCESS	E REMOVAL O EXISTING	EX	UNDÂTION CAVATION		PILE EXCAVATI IN SOII			PILE (CAVATION T IN SOIL	UNCLASSFIED STRUCTURE EXCAVATION	CONCRE	TE	GROOVI BRIDO FLOOF	GE	CLASS A CONCRETE	BRIDGE APPROACH SLABS
	LUMP SUM	LUMP SUM	L	.UMP SUM		LIN.FT.			LIN.FT.	CU.YDS.	SQ.FT	n	SQ. F	т.	CU. YDS.	LUMP SUM
SUPERSTRUCTURE										675	4918		5472	2		LUMP SUM
END BENT 1						30			12						31.4	
BENT 1			L	.UMP SUM											50.6	
BENT 2			L	.UMP SUM											47.0	
END BENT 2						31			10						29.0	·
TOTAL	LUMP SUM	LUMP SUM	L	.UMP SUM		61			22	675	4918		5472	2	158.0	LUMP SUM
		Value 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		TOTA	L	BILL	_ (OF	MATER	RIAL -						
	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	CO	45″ STRESSED NCRETE IRDERS		12 × 53 STEEL PILES	l LT	EEL [LE [NTS	METAL	PARAPET	PLAIN RIP RAP CLASS II (2'-0" THICK)	FΔ	LTER ABRIC FOR AINAGE		STOMERIC EARINGS	EVAZOTE JOINT SEALS
	LBS.	LBS.	NO.	LIN.FT.	NO.	LIN. FT.	EΑ	АСН	LIN.FT.	LIN.FT.	TONS	SQ	. YDS.	LL	JMP SUM	LUMP SUM
SUPERSTRUCTURE			12	635.89					309 . 85	325.23			Ì	LU	JMP SUM	LUMP SUM
END BENT 1	4203				9	90	!	5			335		370			
BENT 1	11236	928														
BENT 2	9966	632														
END BENT 2	3839				8	100		4			180		200			
TOTAL	29244	1560	12	635.89	17	190		9	309.85	325.23	515		570	LU	JMP SUM	LUMP SUM

DRAWN BY: ____H. T. BARBOUR DATE: 5-6-04 CHECKED BY : D. A. DAVENPORT DATE : 5-04

ASSUMED LIVE LOAD = HS 20 OR ALTERNATE LOADING.

THIS BRIDGE HAS BEEN DESIGNED BY THE STRENGTH DESIGN METHOD AS SPECIFIED IN AASHTO STANDARD SPECIFICATIONS.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.

FOR EROSION CONTROL MEASURES SEE EROSION CONTROL PLANS.

THIS BRIDGE HAS BEEN DESIGNED BY THE STRENGTH DESIGN METHOD AS SPECIFIED IN AASHTO STANDARD SPECIFICATIONS.

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.

PRESTRESSED CONCRTETE 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.

THE EXISTING PAVEMENT WITHIN THE AREA OF THE END BENT PILES SHALL BE REMOVED AND THE ROADBED SCARIFIED TO A MINIMUM DEPTH OF 2'-0".

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 ACTUAL CONDITIONS AT THE PROJECT SITE. 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.

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

THE SCOUR CRITICAL ELEVATION FOR BENT #1 AND FOR BENT #2 IS THE BOTTOM OF FOOTING .THE SCOUR CRITICAL ELEVATIONS ARE USED BY MAINTENANCE FORCES TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.

PILES FOR END BENT #1 AND END BENT #2 SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 50 TONS EACH.

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

STEEL PILE POINTS ARE REQUIRED FOR PILES AT END BENT #1 (LEFT SIDE) AND END BENT #2 (LEFT SIDE). SEE SPECIAL PROVISION FOR STEEL PILE POINTS.

AT END BENT #2 (RIGHT SIDE). SEE SPECIAL PROVISION FOR PILE EXCAVATION.

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

AT THE CONTRACTOR'S OPTION. AND UPON REMOVAL OF THE CAUSEWAY, THE CLASS II RIPRAP USED IN THE CAUSEWAY MAY BE PLACED AS RIPRAP SLOPE PROTECTION. SEE SPECIAL PROVISIONS FOR CONSTRUCTION, MAINTENANCE, & REMOVAL OF

THE REQUIRED BEARING CAPACITY OF THE SPREAD FOOTING AT BENT #1 AND BENT#2 IS 5 TSF. THE REQUIRED BEARING CAPACITY SHALL BE VERIFIED.

FOOTINGS AT BENTS #1 AND #2 SHALL BE CARRIED FULL DEPTH INTO ROCK WITH A MINIMUM THICKNESS AS SHOWN ON THE PLANS.

TO PROVIDE PROTECTION FROM POSSIBLE SCOUR THE FOOTINGS SHALL NOT BE CONSTRUCTED AT AN ELEVATION HIGHER THAN SHOWN ON THE PLANS.

FOR BLASTING ADJACENT TO HIGHWAY STRUCTURES, SEE STANDARD SPECIFICATIONS ARTICLE 410-12.

EXISTING STRUCTURE CONSISTING OF A SPAN OF 62'-0" TIMBER DECK ON STEEL PONY TRUSS ON REINFORCED CONCRETE CAPS ON RUBBLE MASONARY ABUTMENTS WITH A CLEAR ROADWAY WIDTH OF 11'.2" AND ASPHALT WEARING SURFACE AND LOCATED AT THE PROPOSED SITE, SHALL BE REMOVED. THE EXISTING BRIDGE IS PRESENTLY POSTED BELOW THE LEGAL 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. SEE SPECIAL PROVISION FOR REMOVAL OF EXISTING STRUCTURE.

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

FOR FALSEWORK AND FORMWORK. SEE SPECIAL PROVISIONS.

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 STA.17+97.50-L-."

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

REMOVAL OF THE EXISTING BRIDGE SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL INTO THE WATER. THE CONTRACTOR SHALL REMOVE THE BRIDGE AND SUBMIT PLANS FOR DEMOLITION IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS.

THE MATERIAL SHOWN IN THE CROSS-HATCHED AREA SHALL BE EXCAVATED FOR A DISTANCE OF 25 FT. EACH SIDE OF CENTERLINE ROADWAY AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE MEASURED AND PAID FOR AS UNCLASSIFIED STRUCTURE EXCAVATION.

PILE EXCAVATION SHALL BE UTILIZED TO INSTALL PILES THE CONTRACTOR MAY CHOOSE TO UTILIZE THE STANDARD TO EL.510 AT END BENT #1 (RIGHT SIDE) AND TO EL.503 OVERHANG FALSE WORK BRACING SYSTEM, SEE "STANDARD" OVERHANG FALSEWORK" SHEETS.

> B-3506 PROJECT NO. ____ RANDOLPH **COUNTY** STATION: 17+97.50-L-

SHEET 4 OF 4

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

GENERAL DRAWING SR 2832 BETWEEN SR 2845 AND NC 42

	SHEET NO.										
	REVISIONS										
NO.	BY:	DATE:	NO.	BY:	DATE:	S-4					
1			3			TOTAL SHEETS					
2			4			35					

TEMPORARY ACCESS AT STA. 17+97.50-L-.