



END BENT No. 1

BENT No. 1

FOUNDATION LAYOUT

(DIMENSIONS LOCATING PILES ARE TO THE PILE CENTERLINE AT THE BOTTOM OF THE CAP.)

BENT No. 2

END BENT No. 2

NOTES:

AT THE CONTRACTOR'S OPTION, AND UPON REMOVAL OF THE WORK PADS, THE CLASS II RIP RAP USED IN THE WORK PADS MAY BE PLACED AS RIP RAP SLOPE PROTECTION. SEE SPECIAL PROVISIONS FOR CONSTRUCTION, MAINTENANCE AND REMOVAL OF TEMPORARY ACCESS AT STATION 16+44.43 -L-.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

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

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

THE SCOUR CRITICAL ELEVATION FOR BENT No. 1 IS 603.8 FT. (LEFT) AND 597.3 FT. (CENTER & RIGHT). THE SCOUR CRITICAL ELEVATION FOR BENT No. 2 IS 603.2 FT. (LEFT) AND 593.3 FT. (CENTER & RIGHT). THE SCOUR CRITICAL ELEVATIONS ARE FOR USE BY MAINTENANCE FORCES TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.

DRILLED PIERS FOR BENT No. 1 AND BENT No. 2 HAVE BEEN DESIGNED FOR AN APPLIED LOAD OF 201 TONS EACH AT THE TOP OF THE COLUMN.

THE DRILLED PIERS AT BENT No. 1 AND BENT No. 2 HAVE BEEN DESIGNED FOR BOTH SKIN FRICTION AND TIP BEARING. THE REQUIRED TIP BEARING CAPACITY IS 15 TSF.

PERMANENT STEEL CASING IS REQUIRED FOR DRILLED PIERS AT BENT No. 1 AND THE CASING SHALL NOT EXTEND BELOW ELEVATION 603.8 FT. (LEFT) OR ELEVATION 597.3 FT. (CENTER & RIGHT) WITHOUT THE ENGINEER'S PERMISSION.

PERMANENT STEEL CASING IS REQUIRED FOR DRILLED PIERS AT BENT No. 2 AND THE CASING SHALL NOT EXTEND BELOW ELEVATION 596.0 FT. (LEFT) OR ELEVATION 593.3 FT. (CENTER & RIGHT) WITHOUT THE ENGINEER'S PERMISSION.

THE REQUIRED TIP BEARING CAPACITY AT BENT No. 1 AND BENT No. 2 SHALL BE VERIFIED.

DRILLED PIERS AT BENT No. 1 SHALL EXTEND TO AN ELEVATION NO HIGHER THAN 590.0 FT. (LEFT) OR ELEVATION 585.0 FT. (CENTER & RIGHT) AND SATISFY THE REQUIRED TIP BEARING CAPACITY.

DRILLED PIERS AT BENT No. 2 SHALL EXTEND TO AN ELEVATION NO HIGHER THAN 586.0 FT. (LEFT) OR ELEVATION 583.0 FT. (CENTER & RIGHT) AND SATISFY THE REQUIRED TIP BEARING CAPACITY.

FOR DRILLED PIERS, SEE SPECIAL PROVISIONS.

SPT TESTING IS NOT REQUIRED TO DETERMINE THE TIP BEARING CAPACITY OF THE DRILLED PIERS AT BENT No. 1 AND BENT No. 2.

SLURRY CONSTRUCTION SHALL NOT BE USED FOR THIS PROJECT.

SID INSPECTIONS ARE NOT REQUIRED TO DETERMINE THE BOTTOM CLEANLINESS OF THE DRILLED PIERS AT BENT No. 1 AND BENT No. 2.

CSL TUBES ARE REQUIRED AND CSL TESTING MAY BE REQUIRED FOR THE DRILLED PIERS AT BENT No. 1 AND BENT No. 2; SEE SPECIAL PROVISION FOR CROSSHOLE SONIC LOGGING.

(CONTINUED ON SHEET 3 OF 3.)

DRAWN BY : P.C. BREWER DATE : 1/7/04
 CHECKED BY : S.B. WILLIAMS DATE : 4/22/04

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PROJECT NO. B-3646
GUILFORD COUNTY
 STATION: 16+44.43 -L-

SHEET 2 OF 3

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
GENERAL DRAWING					
BRIDGE OVER HAW RIVER ON SR 2712 (BROOKS BRIDGE RD.) BETWEEN SR 2713 AND NC 87					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
					SHEET NO. S-2 TOTAL SHEETS 28