



FOUNDATION LAYOUT

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

NOTES:

THE LOCATION OF THE CONSTRUCTION JOINT IN THE DRILLED PIERS AT BENT No. 1 AND No. 2 ARE BASED ON AN APPROXIMATE GROUND LINE ELEVATION. IF THE CONSTRUCTION JOINT IS ABOVE THE ACTUAL GROUND ELEVATION, THE CONTRACTOR SHALL PLACE THE CONSTRUCTION JOINT 1 FT. BELOW THE GROUND LINE.

THE DRILLED PIERS AT BENT No. 1 AND BENT No. 2 HAVE BEEN DESIGNED FOR BOTH SKIN FRICTION AND END BEARING. CHECK FIELD CONDITIONS FOR THE REQUIRED END BEARING CAPACITY OF 30 TSF.

DRILLED PIERS FOR BENT No. 1 AND BENT No. 2 ARE DESIGNED FOR AN APPLIED LOAD OF 247 TONS EACH AT THE TOP OF THE COLUMN.

PERMANENT STEEL CASING IS NOT REQUIRED FOR DRILLED PIERS AT BENT No. 1 AND BENT No. 2.

DRILLED PIERS AT BENT No. 1 MUST EXTEND TO AN ELEVATION NO HIGHER THAN 1003.0 FT. AND AT BENT No. 2 TO AN ELEVATION NO HIGHER THAN 1000.0 FT. AND SATISFY THE REQUIRED END BEARING CAPACITY.

THE SCOUR CRITICAL ELEVATION FOR BENT No. 1 IS ELEVATION 1007.0 FT. AND BENT No. 2 IS ELEVATION 1004.0 FT. BRIDGE MAINTENANCE USES SCOUR CRITICAL ELEVATIONS TO MONITOR POSSIBLE SCOUR DURING THE LIFE OF THE STRUCTURE.

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

DO NOT USE SLURRY CONSTRUCTION FOR THIS PROJECT.

CSL TUBES ARE REQUIRED AND CSL TESTING MAY BE REQUIRED FOR THE DRILLED PIERS. THE ENGINEER WILL DETERMINE THE NEED FOR CSL TESTING. SEE CROSSHOLE SONIC LOGGING SPECIAL PROVISION

SID INSPECTIONS MAY BE REQUIRED TO INSPECT THE BOTTOM CLEANLINESS OF THE DRILLED PIERS. THE ENGINEER WILL DETERMINE THE NEED FOR SID INSPECTIONS. SEE DRILLED PIERS SPECIAL PROVISION.

FOR DRILLED PIERS, SEE SPECIAL PROVISIONS.

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

WHEN DRIVING PILES, DO NOT EXCEED THE MAXIMUM BLOW COUNT.

THE CONTRACTOR MUST OBSERVE A ONE-MONTH WAITING PERIOD AFTER CONSTRUCTING EMBANKMENT AT EACH END BENT TO THE BOTTOM OF THE CAP ELEVATION AND BEFORE BEGINNING ANY END BENT OR REINFORCED BRIDGE APPROACH FILL CONSTRUCTION.

(CONTINUED SHEET 3 OF 3)

PROJECT NO. B-4044
BURKE COUNTY
 STATION: 17+05.00 -L-

SHEET 2 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

GENERAL DRAWING

BRIDGE OVER SMOKEY CREEK
 ON SR 1515 (SMOKEY CREEK RD.)
 BETWEEN
 SR 1513 AND SR 1514



Ned J. Beach
 2/28/05

DRAWN BY : S.B. WILLIAMS DATE : 6/1/05
 CHECKED BY : M. BRITT DATE : 6/29/05

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