

FOUNDATION LAYOUT

(DIMENSIONS LOCATING END BENT DRILLED PIERS ARE SHOWN TO CENTERLINE OF DRILLED PIERS)

FOUNDATION NOTES :

DRILLED PIERS AT END BENT 1 AND 2 ARE DESIGNED FOR BOTH SKIN FRICTION AND END BEARING. CHECK FIELD CONDITIONS FOR THE REQUIRED END BEARING CAPACITY OF 30 TSF.

DRILLED PIERS AT END BENT 1 AND 2 ARE DESIGNED FOR AN APPLIED LOAD OF 151 TONS AND 136 TONS EACH RESPECTIVELY AT THE TOP OF THE COLUMN.

DRILLED PIERS AT END BENT 1 AND 2 MUST EXTEND TO AN ELEVATION NO HIGHER THAN 2685 FT. AND 2682 FT. RESPECTIVELY, SATISFY THE REQUIRED END BEARING CAPACITY, AND HAVE A MINIMUM PENETRATION OF 6.0 FT. INTO ROCK AS DEFINED BY THE DRILLED PIERS SPECIAL PROVISION.

THE SCOUR CRITICAL ELEVATION FOR END BENT 1 AND 2 IS ELEVATION 2693 FT. AND 2689 FT. RESPECTIVELY. BRIDGE MAINTENANCE USES SCOUR CRITICAL ELEVATIONS TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.

FOR DRILLED PIERS, SEE DRILLED PIERS SPECIAL PROVISION.

SPT TESTING IS NOT REQUIRED TO DETERMINE THE END BEARING CAPACITY OF THE DRILLED PIERS AT END BENT 1 AND 2.

DO NOT USE SLURRY CONSTRUCTION FOR THIS PROJECT.

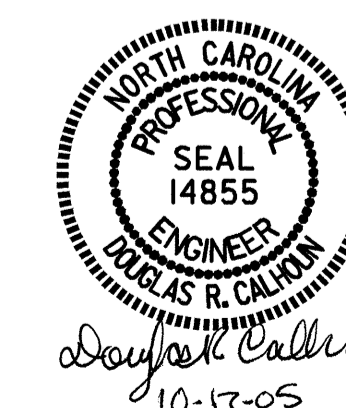
SID INSPECTIONS MAY BE REQUIRED TO INSPECT THE BOTTOM CLEANLINESS OF THE DRILLED PIERS. THE ENGINEER WILL DETERMINE THE NEED FOR SID INSPECTIONS. SEE DRILLED PIERS SPECIAL PROVISION.

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.

THE LOCATION OF THE CONSTRUCTION JOINT IN THE DRILLED PIERS IS 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.

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

SHEET 2 OF 3



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-2
1			3			TOTAL SHEETS
2			4			26

DRAWN BY : E. G. ALLEN DATE : 9/27/05
 CHECKED BY : T. L. CLELLAND DATE : 9/29/05