

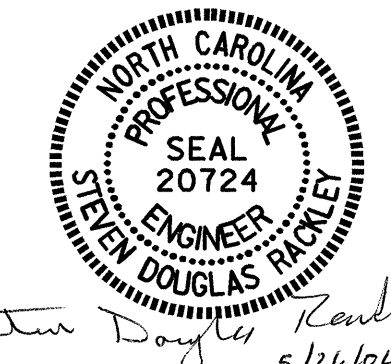
### FOUNDATION LAYOUT

DIMENSIONS LOCATING PILES ARE TO THE PILE CENTERLINE.

DIMENSIONS LOCATING DRILLED PIERS ARE TO THE DRILLED PIER CENTERLINE.

### NOTES :

- THE DRILLED PIERS AT END BENT 1 AND END BENT 2 HAVE BEEN DESIGNED FOR BOTH SKIN FRICTION AND TIP BEARING. THE REQUIRED TIP BEARING CAPACITY IS 20.0 TSF.
- THE REQUIRED TIP BEARING CAPACITY AT END BENT 1 AND END BENT 2 SHALL BE VERIFIED.
- DRILLED PIERS FOR END BENT 1 HAVE BEEN DESIGNED FOR AN APPLIED LOAD OF 223.0 TONS EACH AT THE TOP OF THE COLUMN. DRILLED PIERS FOR END BENT 2 HAVE BEEN DESIGNED FOR AN APPLIED LOAD OF 224.0 TONS EACH AT THE TOP OF THE COLUMN.
- PERMANENT STEEL CASING IS NOT REQUIRED FOR DRILLED PIERS AT END BENT 1 OR END BENT 2.
- DRILLED PIERS AT END BENT 1 SHALL EXTEND TO AN ELEVATION NO HIGHER THAN 1051.000 AND SATISFY THE REQUIRED TIP BEARING CAPACITY.
- DRILLED PIER #1 AT END BENT 2 SHALL EXTEND TO AN ELEVATION NO HIGHER THAN 1049.000 AND SATISFY THE REQUIRED TIP BEARING CAPACITY.
- DRILLED PIER #2 AT END BENT 2 SHALL EXTEND TO AN ELEVATION NO HIGHER THAN 1049.000, SATISFY THE REQUIRED TIP BEARING CAPACITY, AND HAVE A MINIMUM PENETRATION OF 7 FEET INTO ROCK AS DEFINED BY THE DRILLED PIERS SPECIAL PROVISION.
- DRILLED PIER #3 AT END BENT 2 SHALL EXTEND TO AN ELEVATION NO HIGHER THAN 1057.000, SATISFY THE REQUIRED TIP BEARING CAPACITY, AND HAVE A MINIMUM PENETRATION OF 7 FEET INTO ROCK AS DEFINED BY THE DRILLED PIERS SPECIAL PROVISION.
- DRILLED PIER #4 AT END BENT 2 SHALL EXTEND TO AN ELEVATION NO HIGHER THAN 1057.000 AND SATISFY THE REQUIRED TIP BEARING CAPACITY.
- FOR DRILLED PIERS, SEE SPECIAL PROVISIONS.
- SPT TESTING IS NOT REQUIRED TO DETERMINE THE TIP BEARING CAPACITY FOR THE DRILLED PIERS.
- SLURRY CONSTRUCTION SHALL NOT BE USED FOR THIS PROJECT.
- SID INSPECTIONS ARE NOT REQUIRED TO DETERMINE THE BOTTOM CLEANLINESS OF THE DRILLED PIERS.
- CSL TUBES ARE REQUIRED AND CSL TESTING MAY BE REQUIRED FOR THE DRILLED PIERS AT END BENT 1 AND END BENT 2. SEE SPECIAL PROVISIONS FOR CROSSHOLE SONIC LOGGING.
- SHAFT EXCAVATION SHALL BE UTILIZED TO INSTALL PILES TO ELEVATION 1051.000 AT END BENT 1 WING WALLS AND TO ELEVATION 1052.000 AT END BENT 2 WING WALLS. SEE PILE EXCAVATION SPECIAL PROVISION.



PROJECT NO. B-3419  
BURKE COUNTY  
 STATION: 20+15.00 -L-  
 SHEET 2 OF 3

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
**GENERAL DRAWING**  
 FOR BRIDGE ON SR 1223  
 OVER CATAWBA RIVER  
 BETWEEN SR 1230 AND  
 SR 1233

REVISIONS				SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

TOTAL SHEETS	23
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DRAWN BY : A.R.CHESSON DATE : 8-03  
 CHECKED BY : S.D. RACKLEY DATE : 1-04