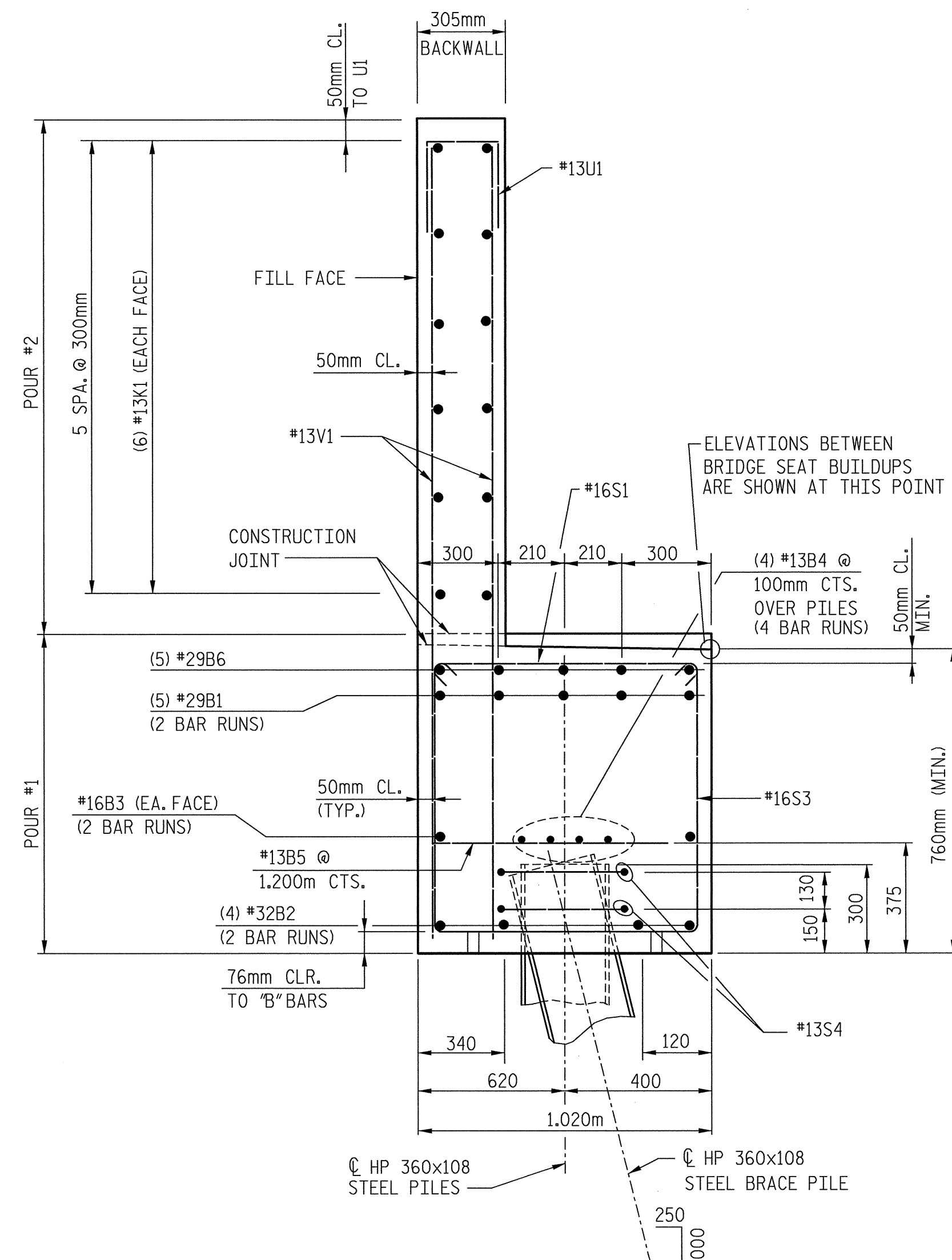
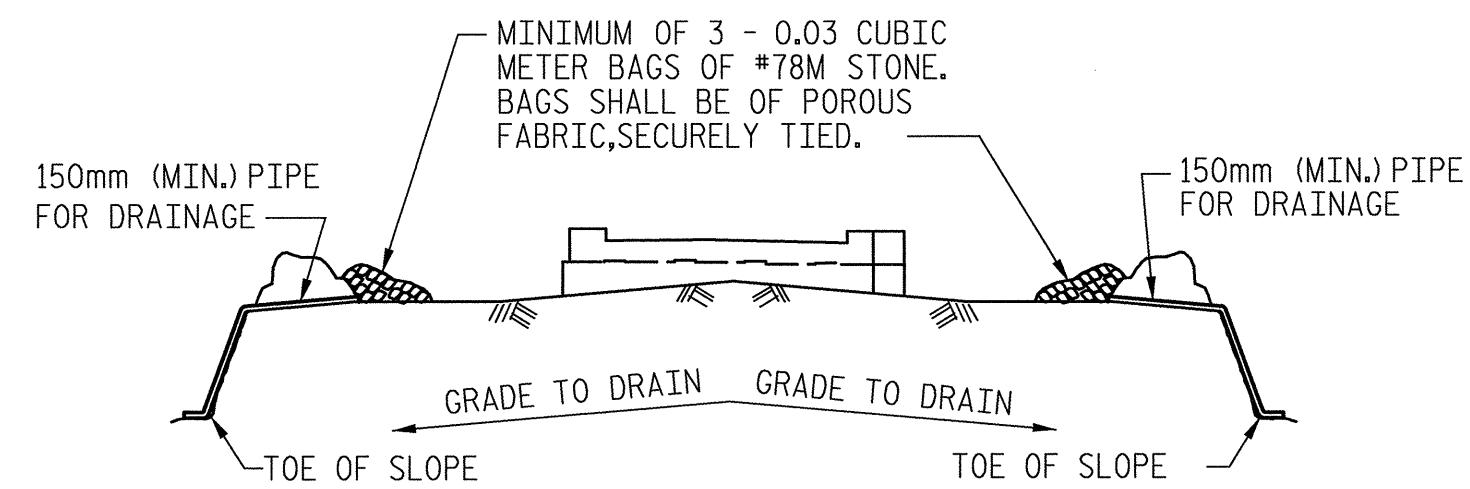


SECTION "A-A"



SECTION "B-B"

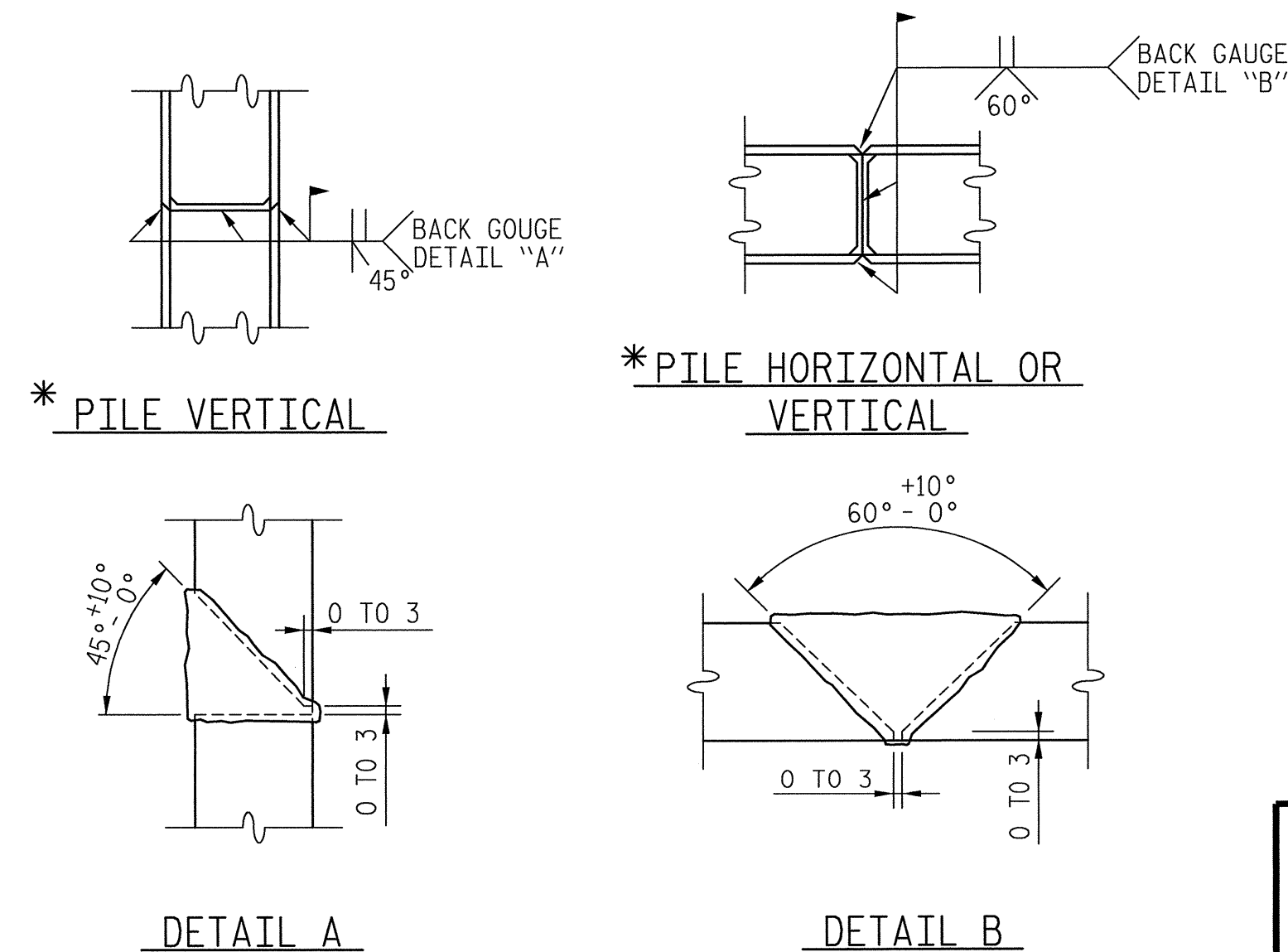
| BAR TYPES                          |     | BILL OF MATERIAL |      |                   |                        |  |
|------------------------------------|-----|------------------|------|-------------------|------------------------|--|
| ALL BAR DIMENSIONS ARE OUT TO OUT. |     | END BENT #1      |      |                   |                        |  |
| BAR                                | NO. | SIZE             | TYPE | LENGTH            | WEIGHT                 |  |
| B1                                 | 10  | #29              | 4    | 14940             | 756                    |  |
| B2                                 | 8   | #32              | 4    | 14860             | 761                    |  |
| B3                                 | 4   | #16              | STR. | 13680             | 85                     |  |
| B4                                 | 16  | #13              | STR. | 7160              | 114                    |  |
| B5                                 | 22  | #13              | STR. | 920               | 20                     |  |
| B6                                 | 5   | #29              | STR. | 11820             | 299                    |  |
|                                    |     |                  |      |                   |                        |  |
| H1                                 | 10  | #13              | 5    | 4980              | 50                     |  |
| H2                                 | 10  | #13              | 5    | 4900              | 49                     |  |
| H3                                 | 8   | #13              | STR. | 960               | 8                      |  |
| H4                                 | 10  | #13              | 6    | 4780              | 48                     |  |
| H5                                 | 10  | #13              | 6    | 4860              | 48                     |  |
|                                    |     |                  |      |                   |                        |  |
| K1                                 | 48  | #13              | STR. | 7180              | 343                    |  |
|                                    |     |                  |      |                   |                        |  |
| S1                                 | 79  | #16              | 2    | 1200              | 147                    |  |
| S2                                 | 43  | #16              | 1    | 2500              | 167                    |  |
| S3                                 | 36  | #16              | 1    | 2720              | 152                    |  |
| S4                                 | 24  | #13              | 7    | 2300              | 55                     |  |
| S5                                 | 6   | #19              | 8    | 1140              | 15                     |  |
| S6                                 | 2   | #19              | 9    | 2740              | 12                     |  |
|                                    |     |                  |      |                   |                        |  |
| U1                                 | 82  | #13              | 3    | 1300              | 106                    |  |
|                                    |     |                  |      |                   |                        |  |
| V1                                 | 164 | #16              | STR. | 2400              | 611                    |  |
| V2                                 | 38  | #16              | STR. | 2860              | 169                    |  |
| V3                                 | 38  | #16              | STR. | 2800              | 165                    |  |
|                                    |     |                  |      |                   |                        |  |
| REINFORCING STEEL (kg.)            |     |                  |      |                   | 4180                   |  |
|                                    |     |                  |      |                   |                        |  |
| CLASS A CONCRETE BREAKDOWN         |     |                  |      |                   |                        |  |
| POUR #1 (CAP AND WINGS)            |     |                  |      | (m <sup>3</sup> ) | 26.2                   |  |
| POUR #2 (BACKWALL AND WINGS)       |     |                  |      | (m <sup>3</sup> ) | 21.0                   |  |
| TOTAL CLASS A CONCRETE             |     |                  |      |                   | (m <sup>3</sup> ) 47.2 |  |
|                                    |     |                  |      |                   |                        |  |
| HP 360x108 STEEL PILES             |     |                  |      |                   |                        |  |
| TOTAL NO. = 14                     |     |                  |      |                   | LIN. METERS = 305.0    |  |



BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

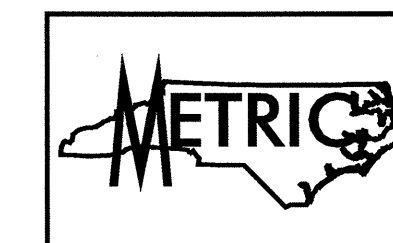
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR EFFECTIVENESS.

NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

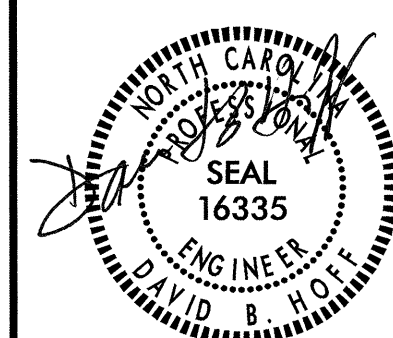


\* POSITION OF PILE DURING WELDING

PILE SPLICE DETAILS



TRANSYSTEMS CORPORATION  
75 Beattie Place, Suite 400  
Greenville, SC 29601 (864) 234-0866



PROJECT NO. R-2552AB  
JOHNSTON COUNTY  
STATION: 52+34.693 -L- =  
18+60.011 -Y2-

SHEET 3 OF 3

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

SUBSTRUCTURE  
END BENT #1  
DETAILS

| REVISIONS |     |       |     |     |       | SHEET NO.    |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO.       | BY: | DATE: | NO. | BY: | DATE: | 5-419        |
| 1         |     |       | 3   |     |       | TOTAL SHEETS |
| 2         |     |       | 4   |     |       | 429          |