

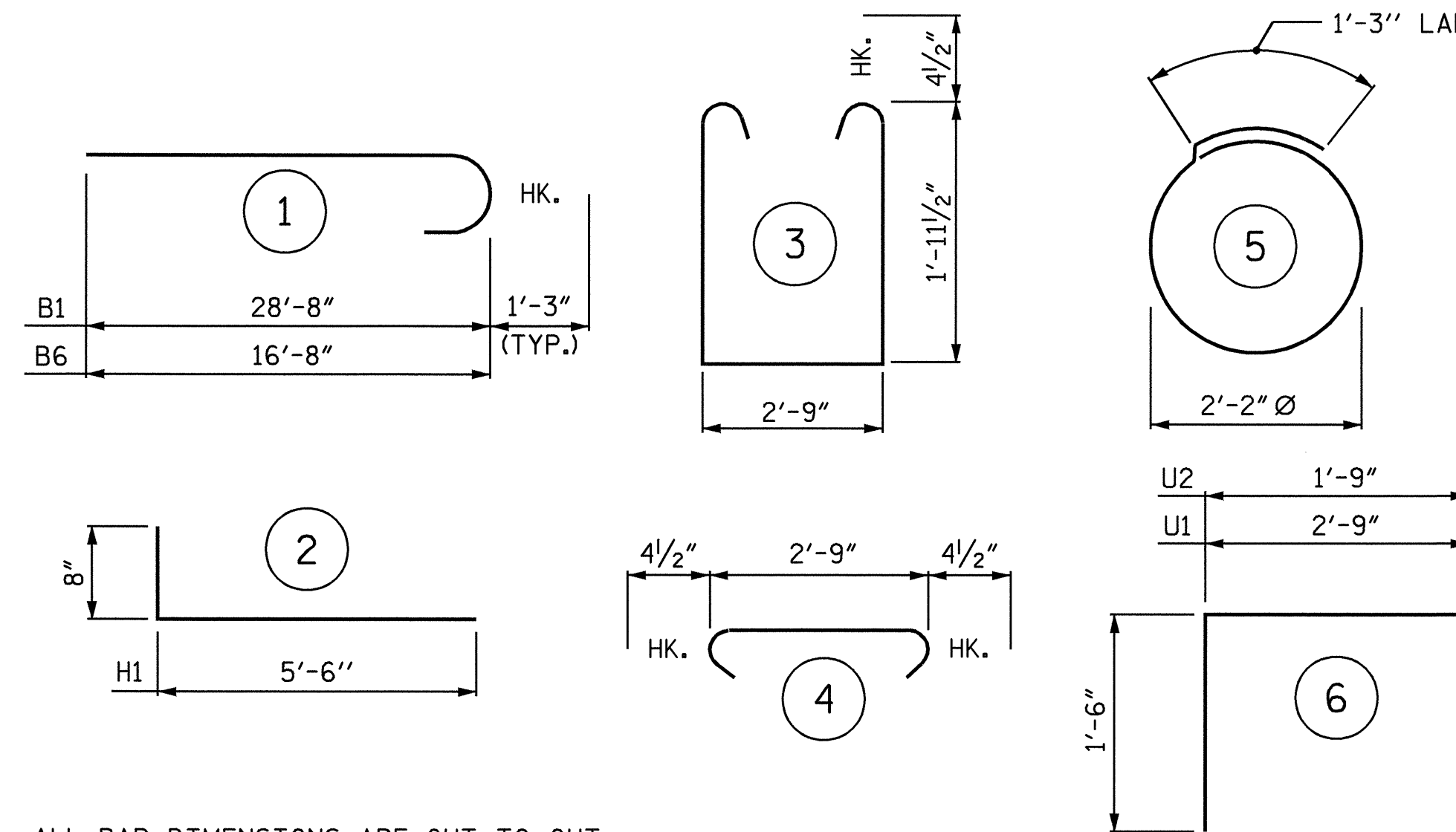
BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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.

### TEMPORARY DRAINAGE AT END BENT

### BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

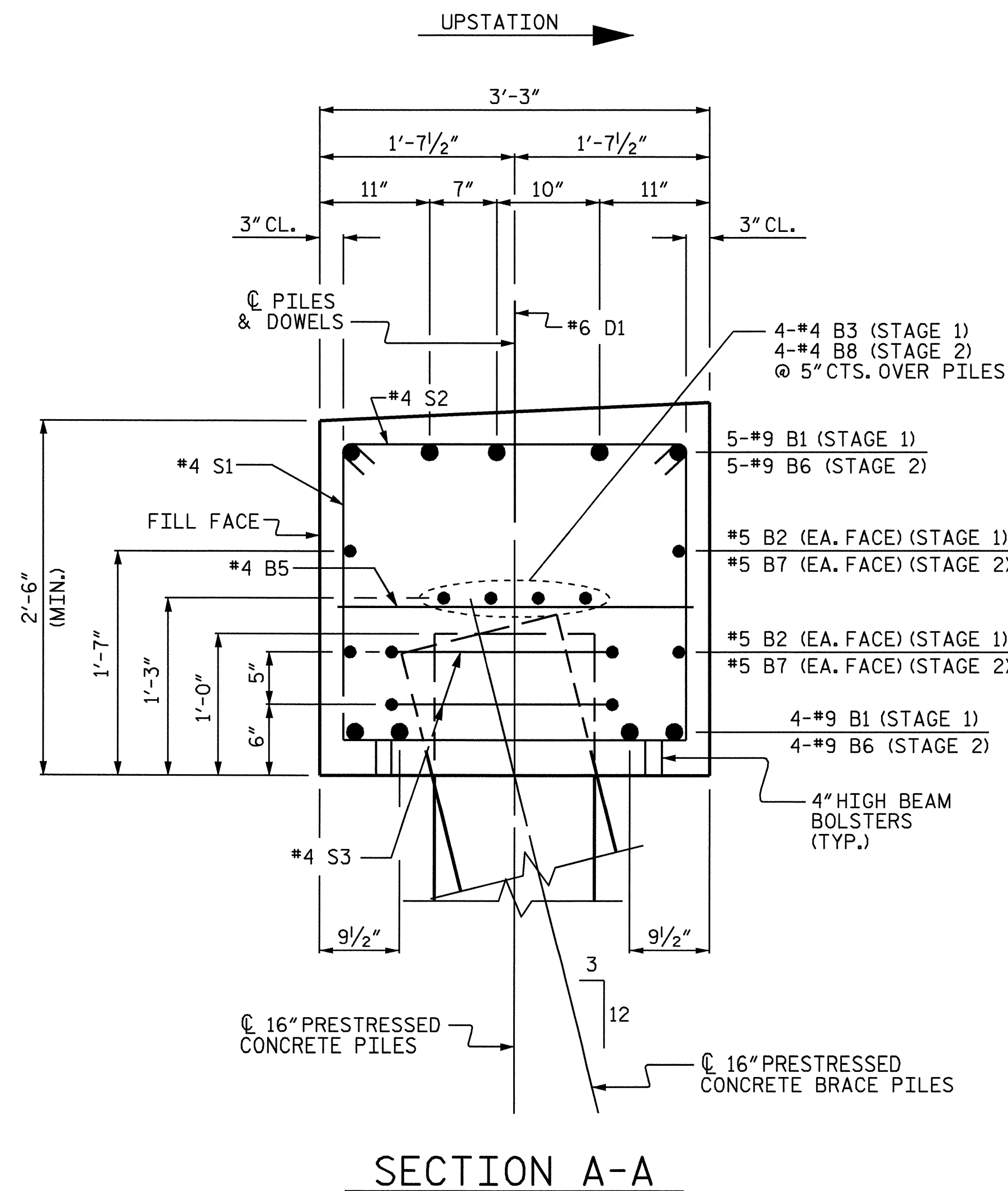
### BILL OF MATERIAL

#### END BENT No. 1

| STAGE 1                        |     |      |      |         |        | STAGE 2                        |     |      |      |         |        |
|--------------------------------|-----|------|------|---------|--------|--------------------------------|-----|------|------|---------|--------|
| BAR                            | No. | SIZE | TYPE | LENGTH  | WEIGHT | BAR                            | No. | SIZE | TYPE | LENGTH  | WEIGHT |
| B1                             | 9   | 9    | 1    | 29'-11" | 915    | B5                             | 4   | 4    | STR  | 2'-9"   | 7      |
| B2                             | 4   | 5    | STR  | 27'-9"  | 116    | B6                             | 9   | 9    | 1    | 17'-11" | 548    |
| B3                             | 4   | 4    | STR  | 27'-9"  | 74     | B7                             | 4   | 5    | STR  | 17'-9"  | 74     |
| B4                             | 5   | 4    | STR  | 18'-4"  | 61     | B8                             | 4   | 4    | STR  | 17'-9"  | 47     |
| B5                             | 7   | 4    | STR  | 2'-9"   | 13     | B9                             | 5   | 4    | STR  | 8'-3"   | 28     |
| D1                             | 16  | 6    | STR  | 1'-6"   | 36     | D1                             | 10  | 6    | STR  | 1'-6"   | 23     |
| H1                             | 12  | 4    | 2    | 6'-2"   | 49     | H1                             | 12  | 4    | 2    | 6'-2"   | 49     |
| K1                             | 6   | 4    | STR  | 2'-11"  | 12     | K1                             | 6   | 4    | STR  | 2'-11"  | 12     |
| S1                             | 22  | 4    | 3    | 7'-5"   | 109    | S1                             | 15  | 4    | 3    | 7'-5"   | 74     |
| S2                             | 22  | 4    | 4    | 3'-6"   | 51     | S2                             | 15  | 4    | 4    | 3'-6"   | 35     |
| S3                             | 12  | 4    | 5    | 8'-1"   | 65     | S3                             | 8   | 4    | 5    | 8'-1"   | 43     |
| U1                             | 12  | 4    | 6    | 5'-9"   | 46     | U1                             | 6   | 4    | 6    | 5'-9"   | 23     |
| U2                             | 2   | 4    | 6    | 4'-9"   | 6      | U2                             | 2   | 4    | 6    | 4'-9"   | 6      |
| V1                             | 20  | 4    | STR  | 4'-5"   | 59     | V1                             | 20  | 4    | STR  | 4'-5"   | 59     |
| EPOXY COATED REINFORCING STEEL |     |      |      |         |        | EPOXY COATED REINFORCING STEEL |     |      |      |         |        |
| 1,612 LBS.                     |     |      |      |         |        | 1,028 LBS.                     |     |      |      |         |        |
| CLASS AA CONCRETE BREAKDOWN    |     |      |      |         |        | CLASS AA CONCRETE BREAKDOWN    |     |      |      |         |        |
| POUR #1 CAP & BOTT. OF WING W2 |     |      |      |         |        | POUR #1 CAP & BOTT. OF WING W1 |     |      |      |         |        |
| 8.9 C.Y.                       |     |      |      |         |        | 6.0 C.Y.                       |     |      |      |         |        |
| POUR #2 TOP OF WING W2         |     |      |      |         |        | POUR #2 TOP OF WING W1         |     |      |      |         |        |
| 0.9 C.Y.                       |     |      |      |         |        | 0.9 C.Y.                       |     |      |      |         |        |
| POUR #3 LATERAL GUIDE          |     |      |      |         |        | POUR #3 LATERAL GUIDE          |     |      |      |         |        |
| 0.1 C.Y.                       |     |      |      |         |        | 0.1 C.Y.                       |     |      |      |         |        |
| TOTAL CLASS AA CONCRETE        |     |      |      |         |        | TOTAL CLASS AA CONCRETE        |     |      |      |         |        |
| 9.9 C.Y.                       |     |      |      |         |        | 7.0 C.Y.                       |     |      |      |         |        |
| 16" PRESTRESSED CONCRETE PILES |     |      |      |         |        | 16" PRESTRESSED CONCRETE PILES |     |      |      |         |        |
| No. = 6 LIN. FT. = 270.0       |     |      |      |         |        | No. = 4 LIN. FT. = 180.0       |     |      |      |         |        |

### TOTAL QUANTITIES (END BENT No. 1)

| ITEM                           | STAGE 1                 | STAGE 2                 | TOTAL                    |
|--------------------------------|-------------------------|-------------------------|--------------------------|
| EPOXY COATED REINFORCING STEEL | 1,612 LBS.              | 1,028 LBS.              | 2,640 LBS.               |
| CLASS AA CONCRETE              | 9.9 C.Y.                | 7.0 C.Y.                | 16.9 C.Y.                |
| 16" PRESTRESSED CONCRETE PILES | No. 6<br>LIN. FT. 270.0 | No. 4<br>LIN. FT. 180.0 | No. 10<br>LIN. FT. 450.0 |



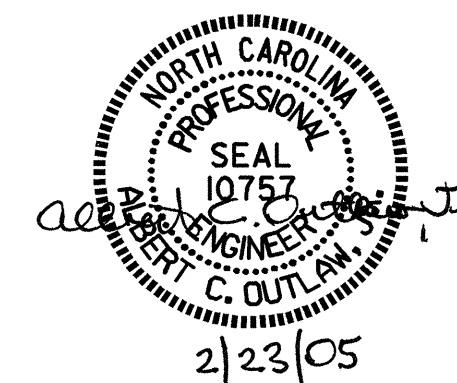
### SECTION A-A

PROJECT NO. B-3348  
HYDE COUNTY  
 STATION: 22+85.00 -L-

SHEET 4 OF 4

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

SUBSTRUCTURE  
 END BENT No. 1



DRAWN BY : P.C. BREWER DATE : 2/10/04  
 CHECKED BY : S.B. WILLIAMS DATE : 2/24/04

22-FEB-2005 09:24  
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 pbrewer

| REVISIONS |     |       |     |     |       | SHEET NO.    |  |
|-----------|-----|-------|-----|-----|-------|--------------|--|
| NO.       | BY: | DATE: | NO. | BY: | DATE: | S-53         |  |
| 1         |     |       | 3   |     |       | TOTAL SHEETS |  |
| 2         |     |       | 4   |     |       | 76           |  |