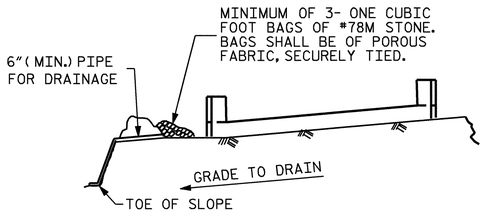
W:\squado\b3884\ameadows\Microstation\B3884_FINALS\b3884
ameadows

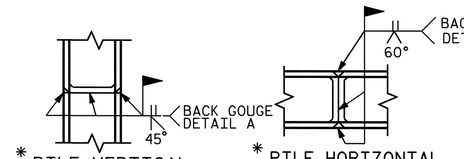


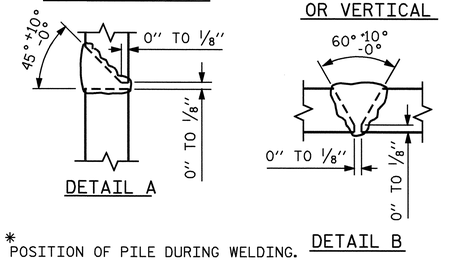

BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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

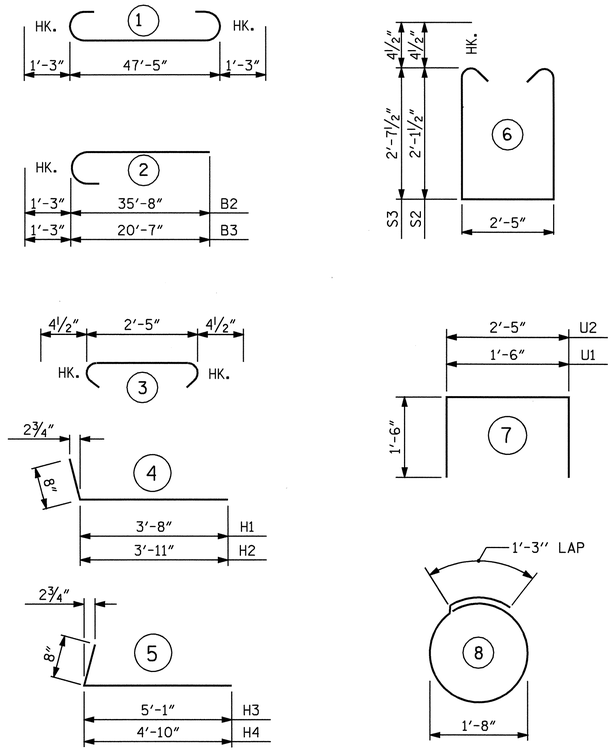



* POSITION OF PILE DURING WELDING.

# PILE SPLICE DETAILS

## BAR TYPES




ALL BAR DIMENSIONS ARE OUT TO OUT.

## BILL OF MATERIAL

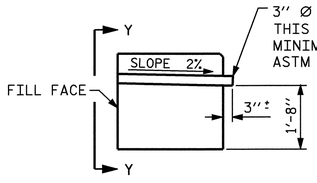
### END BENT 1

| BAR | NO | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| B1 | 4 | 9 | 1 | 49-11 | 679 |
| B2 | 4 | 9 | 2 | 36-11 | 502 |
| B3 | 4 | 9 | 2 | 21-10 | 297 |
| B4 | 2 | 5 | STR | 14-11 | 31 |
| B5 | 4 | 5 | STR | 47-7 | 199 |
| B6 | 8 | 4 | STR | 25-0 | 134 |
| B7 | 12 | 4 | STR | 2-5 | 19 |
| B8 | 4 | 4 | STR | 16-10 | 45 |
| B9 | 4 | 4 | STR | 7-10 | 21 |
| D1 | 26 | 6 | STR | 1-6 | 59 |
| H1 | 6 | 4 | 4 | 4-4 | 17 |
| H2 | 6 | 4 | 4 | 4-7 | 18 |
| H3 | 7 | 4 | 5 | 5-9 | 27 |
| H4 | 7 | 4 | 5 | 5-6 | 26 |
| K1 | 12 | 4 | STR | 2-9 | 22 |
| S1 | 44 | 4 | 3 | 3-2 | 93 |
| S2 | 25 | 4 | 6 | 7-5 | 124 |
| S3 | 19 | 4 | 6 | 8-5 | 107 |
| S4 | 16 | 4 | 8 | 6-6 | 69 |
| U1 | 4 | 4 | 7 | 4-6 | 12 |
| U2 | 18 | 4 | 7 | 5-5 | 65 |
| V1 | 18 | 4 | STR | 4-5 | 53 |
| V2 | 20 | 4 | STR | 5-3 | 70 |
| REINFORCING STEEL LBS. | | | | | 2689 |

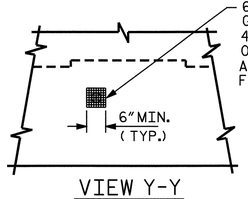
CLASS A CONCRETE BREAKDOWN

| | |
|---|---|
| POUR #1 (CAP, LOWER PART OF WINGS) | 15.7 C.Y. |
| POUR #2 (UPPER PART OF WINGS) | 1.1 C.Y. |
| POUR #3 (LATERAL GUIDE) | 0.1 C.Y. |
| TOTAL CLASS A CONCRETE | 16.9 C.Y. |

HP 12 X 53 STEEL PILES NO. 8 — 240 LIN.FT.



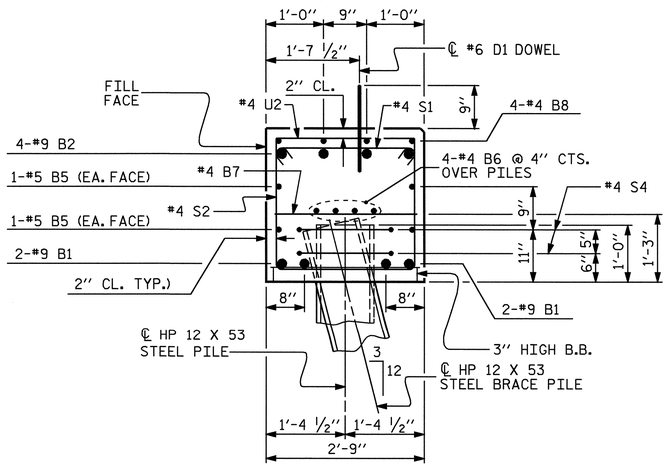

SECTION THRU CAP



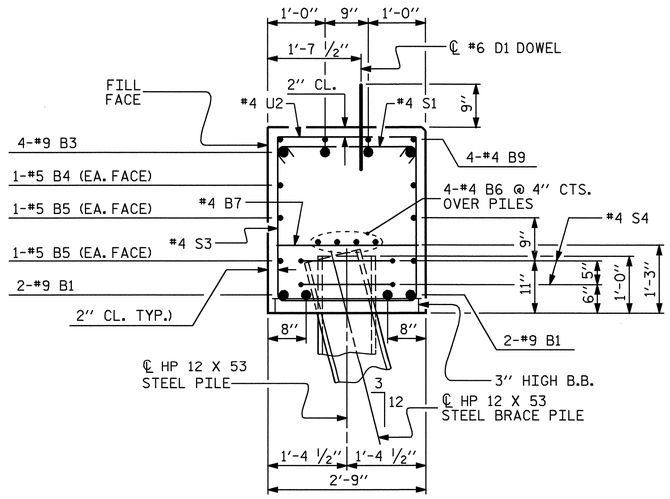

VIEW Y-Y

NOTE: NO SEPARATE PAYMENT WILL BE MADE FOR FURNISHING AND INSTALLING THE PVC PLASTIC PIPE DRAINS, HARDWARE CLOTH AND FASTENERS. THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

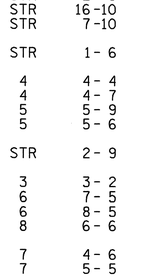
# PIPE DRAIN DETAILS




SECTION A-A




SECTION B-B




PROJECT NO. B-3884

ONSLOW COUNTY

STATION: 14+89.75 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

# SUBSTRUCTURE END BENT 1

| REVISIONS | | | | | | SHEET NO. |
|---|---|---|---|---|---|---|
| NO. | BY: | DATE: | NO. | BY: | DATE: | S-12 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 23 |

DRAWN BY : T. A. HARRIS DATE : 2/19/03
CHECKED BY : K. MCCAULEY DATE : 3/26/03