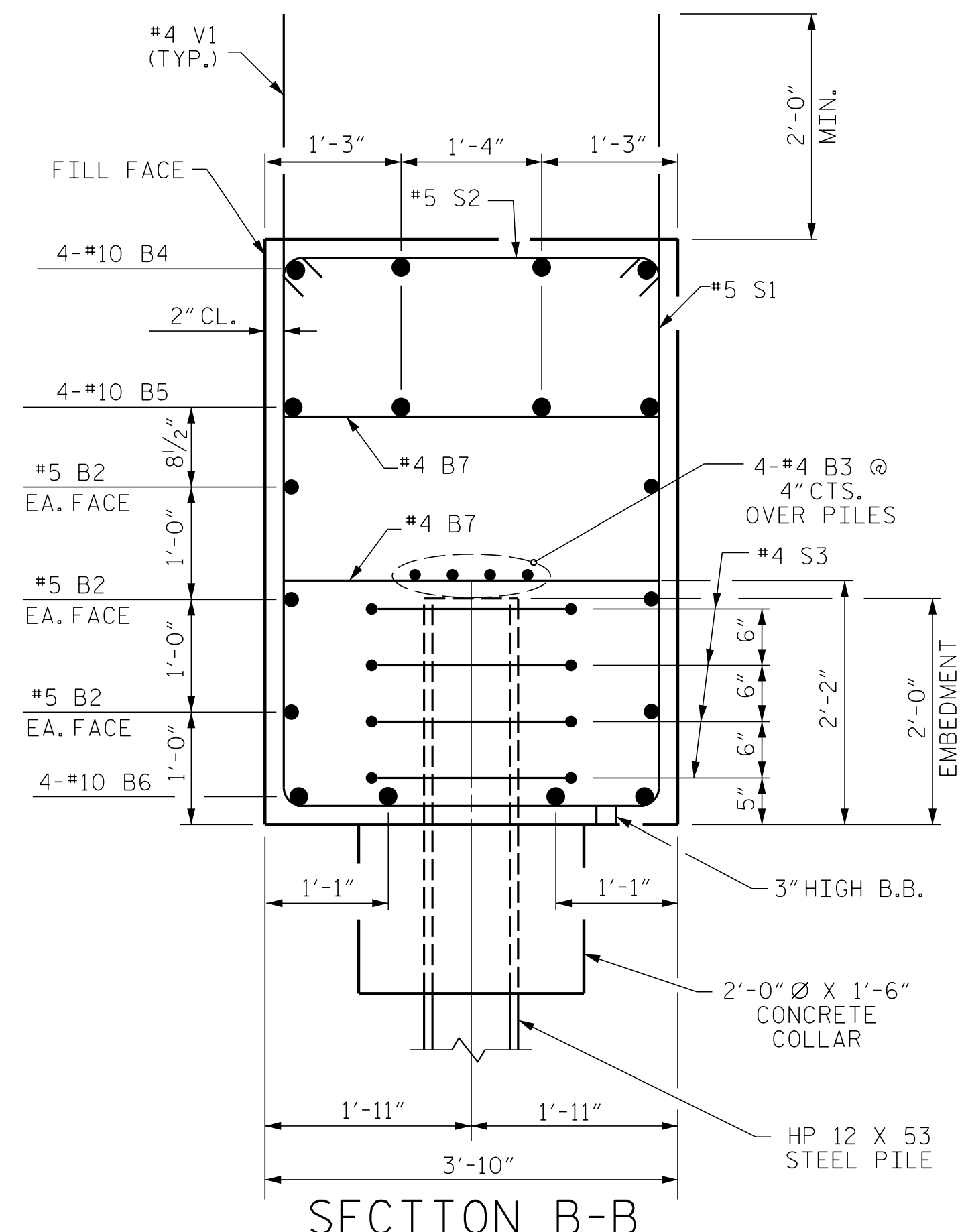
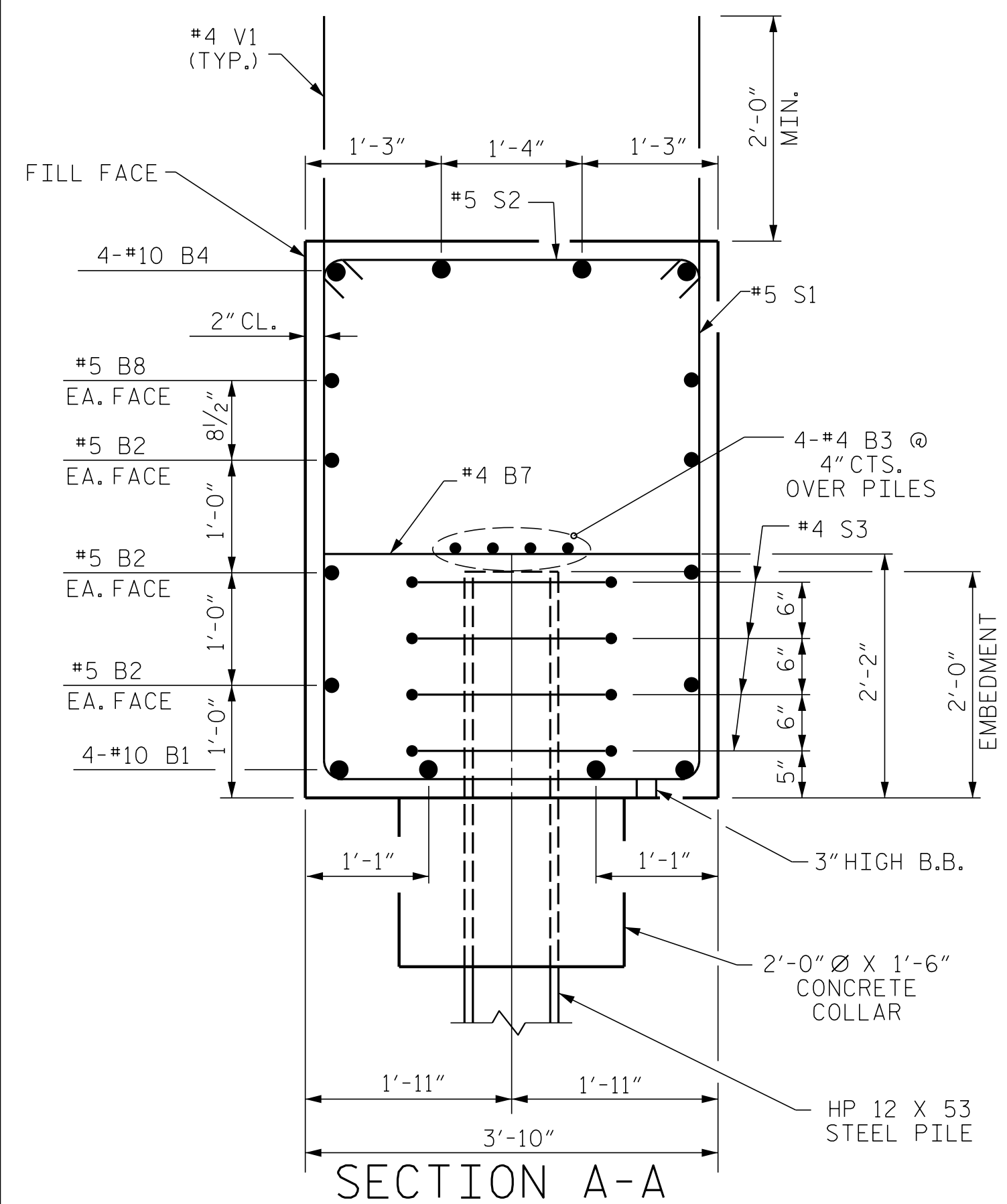


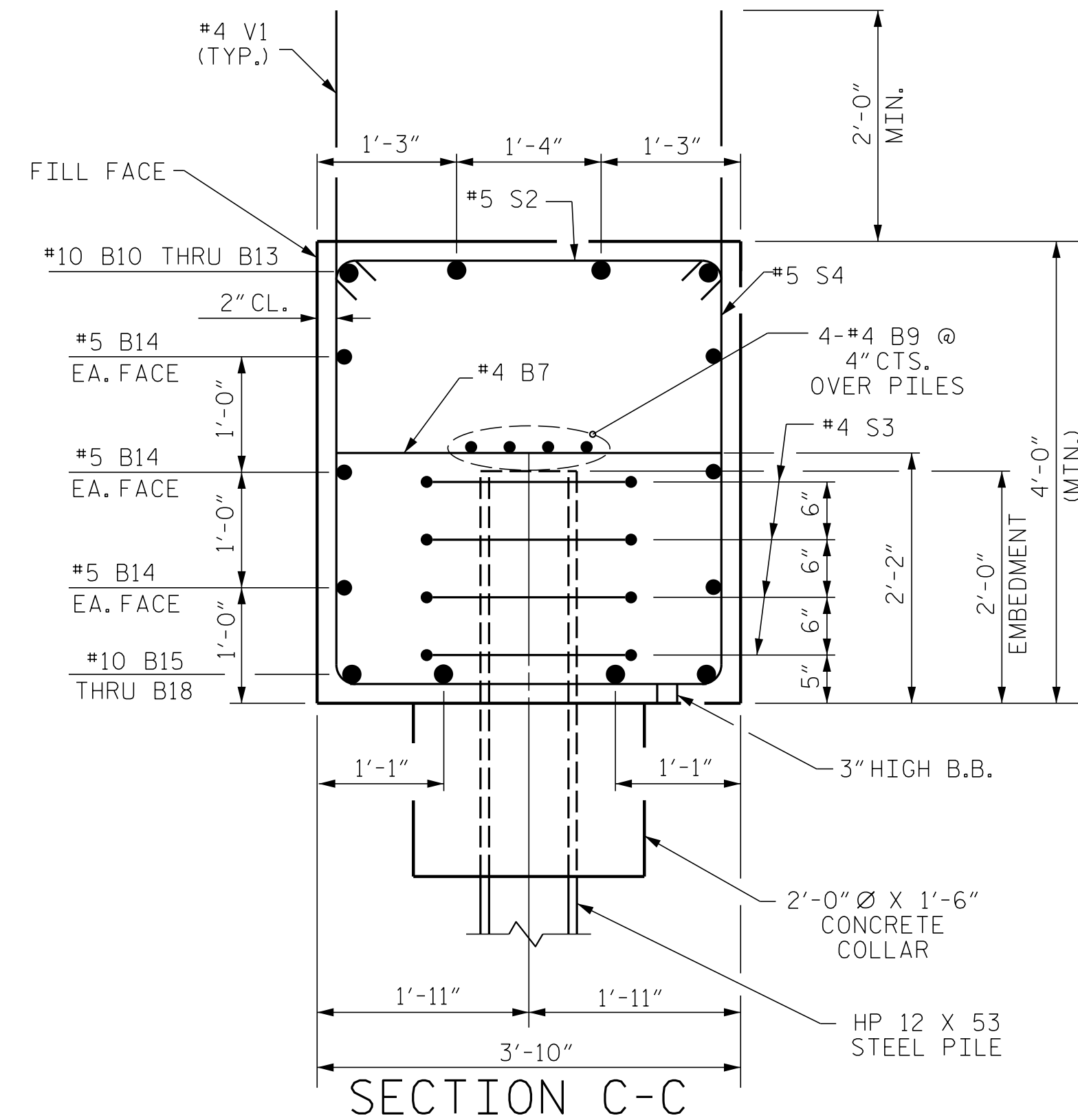
POSITION OF PILE DURING WELDING.
PILE SPLICE DETAILS



SECTION B-B

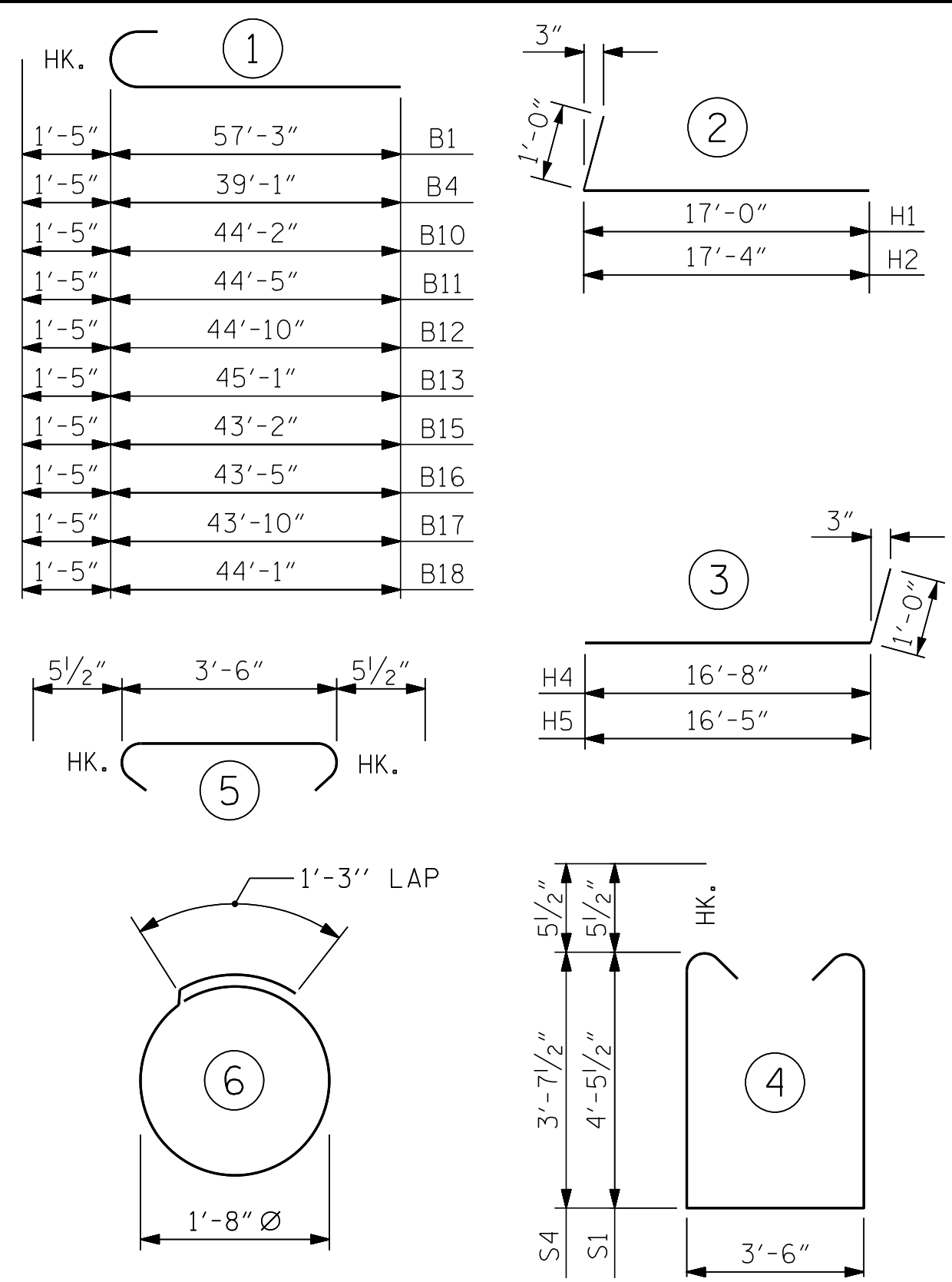


SECTION A-A



SECTION C-C

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

| TOTAL QUANTITIES | |
|--|-------------|
| REINFORCING STEEL | 13,364 LBS. |
| CLASS "A" CONCRETE TOTAL | 99.0 C.Y. |
| HP 12 X 53 STEEL PILES NO: 20 | 240.0 L.F. |
| PILE EXCAVATION IN SOIL PILE EXCAVATION NOT IN SOIL | 80.0 L.F. |
| PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES | 20 EA. |

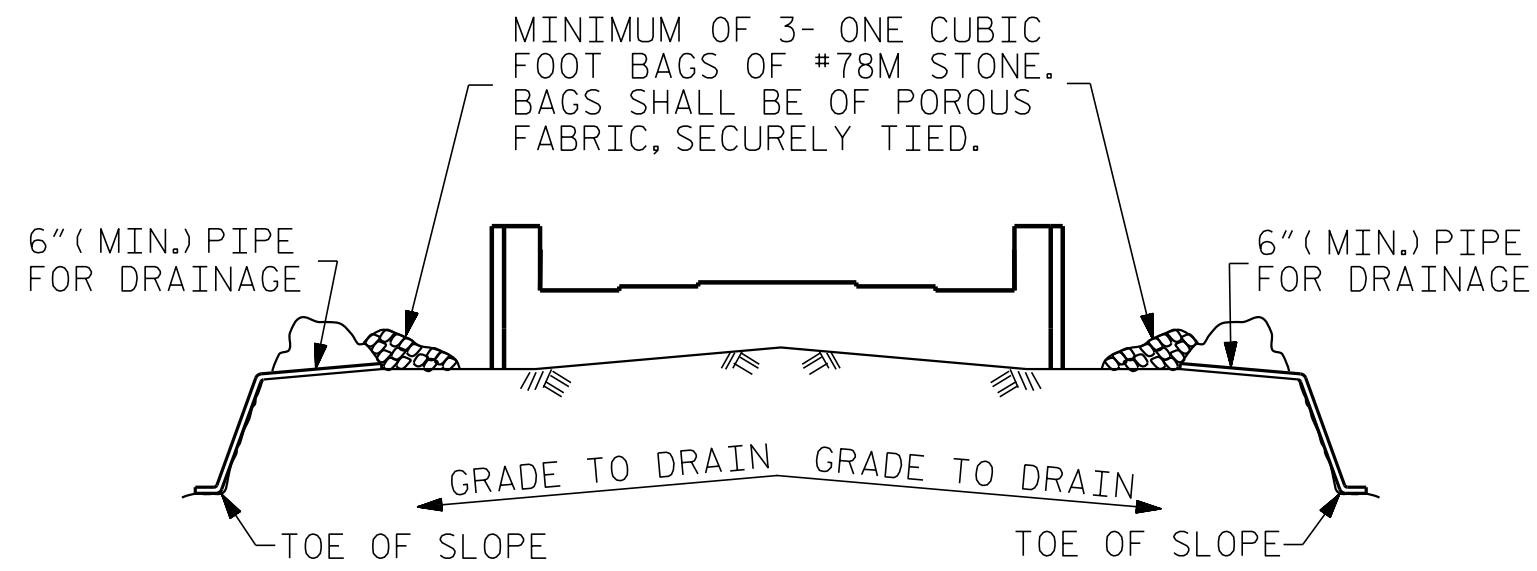
BILL OF MATERIAL

END BENT No. 1

| STAGE I | | | | | STAGE II | | | | | |
|---------|------|------|---------|--------|----------|------|------|---------|--------|-----|
| BAR NO. | SIZE | TYPE | LENGTH | WEIGHT | BAR NO. | SIZE | TYPE | LENGTH | WEIGHT | |
| B1 | #4 | #10 | 58'-8" | 1010 | B7 | #4 | STR | 3'-6" | 28 | |
| B2 | #4 | #10 | 44'-2" | 202 | B9 | #4 | STR | 23'-8" | 126 | |
| B3 | #4 | #10 | 44'-5" | 1394 | B10 | #10 | 1 | 45'-7" | 196 | |
| B4 | #4 | #10 | 44'-10" | 129 | B11 | #10 | 1 | 45'-10" | 197 | |
| B5 | #4 | #10 | 45'-1" | 341 | B12 | #10 | 1 | 46'-3" | 199 | |
| B6 | #4 | #10 | 43'-2" | 44 | B13 | #10 | 1 | 46'-6" | 200 | |
| B7 | #4 | #10 | 43'-5" | 139 | B14 | #5 | STR | 24'-0" | 300 | |
| B8 | #4 | #10 | 44'-1" | 139 | B15 | #10 | 1 | 44'-7" | 192 | |
| | | | | | B16 | #10 | 1 | 44'-10" | 193 | |
| H1 | #6 | 2 | 18'-0" | 757 | B17 | #10 | 1 | 45'-3" | 195 | |
| H2 | #6 | 2 | 18'-4" | 771 | B18 | #10 | 1 | 45'-6" | 196 | |
| H3 | #4 | STR | 3'-5" | 37 | | | | | | |
| | | | | | H4 | #6 | 3 | 17'-8" | 690 | |
| S1 | #5 | 4 | 13'-4" | 1113 | H5 | #6 | 3 | 17'-5" | 680 | |
| S2 | #5 | 5 | 4'-5" | 378 | H6 | #4 | STR | 4'-1" | 44 | |
| S3 | #4 | 6 | 6'-6" | 208 | | | | | | |
| S4 | #5 | 4 | 11'-8" | 24 | S2 | 54 | #5 | 5 | 4'-5" | 249 |
| | | | | | S3 | 52 | #4 | 6 | 6'-6" | 139 |
| V1 | #4 | STR | 7'-0" | 533 | S4 | 54 | #5 | 4 | 11'-8" | 657 |
| V2 | #5 | STR | 11'-5" | 524 | | | | | | |
| | | | | | V1 | 70 | #4 | STR | 7'-0" | 327 |
| | | | | | V3 | 44 | #5 | STR | 10'-7" | 486 |

REINFORCING STEEL 8,070 LBS. REINFORCING STEEL 5,294 LBS.

| CLASS A CONCRETE BREAKDOWN | | CLASS A CONCRETE BREAKDOWN | |
|--|------------|--|-----------|
| POUR #1 CAP, CONC. COLLARS & LOWER PART OF WINGS | 53.5 C.Y. | POUR #1 CAP, CONC. COLLARS & LOWER PART OF WINGS | 33.2 C.Y. |
| POUR #2 UPPER PART OF WINGS | 6.2 C.Y. | POUR #2 UPPER PART OF WINGS | 6.1 C.Y. |
| TOTAL CLASS A CONCRETE | 59.7 C.Y. | TOTAL CLASS A CONCRETE | 39.3 C.Y. |
| HP 12 X 53 STEEL PILES NO: 13 | 156.0 L.F. | HP 12 X 53 STEEL PILES NO: 7 | 84.0 L.F. |
| PILE EXCAVATION IN SOIL PILE EXCAVATION NOT IN SOIL | 52.0 L.F. | PILE EXCAVATION IN SOIL PILE EXCAVATION NOT IN SOIL | 28.0 L.F. |
| PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES | 13 EA. | PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES | 7 EA. |



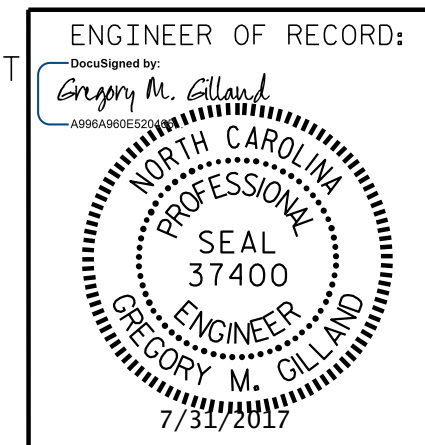
BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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

PROJECT NO. I-5506
WAKE COUNTY
STATION: 50+61.09 -L-
SHEET 4 OF 4



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUBSTRUCTURE
END BENT No. 1

| REVISIONS | | | | SHEET NO. | | | |
|-----------|-----|-------|-----|-----------|-------|--------------|--|
| NO. | BY: | DATE: | NO. | BY: | DATE: | SHEET NO. | |
| 1 | | | 3 | | | TOTAL SHEETS | |
| 2 | | | 4 | | | 46 | |

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

1223 Jones Franklin Rd.
Raleigh, N.C. 27606
Bus: 919 851 8077
Fax: 919 851 8107
LICENSE NO. F-0377

\$FILE\$
\$DATE\$
\$TIME\$

DRAWN BY: D. HODGE DATE: 9/16
CHECKED BY: B.C. HUNT DATE: 12/16