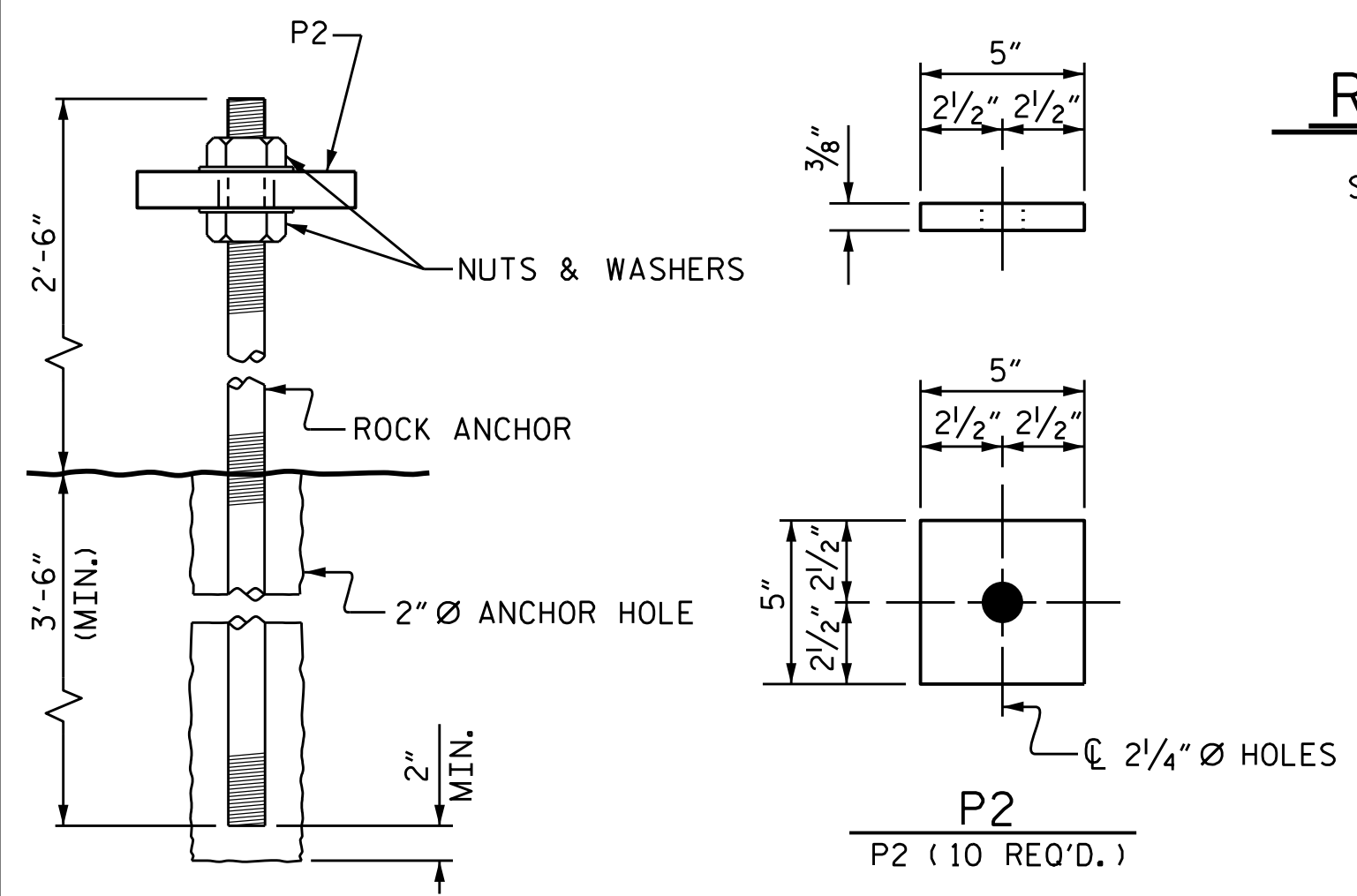
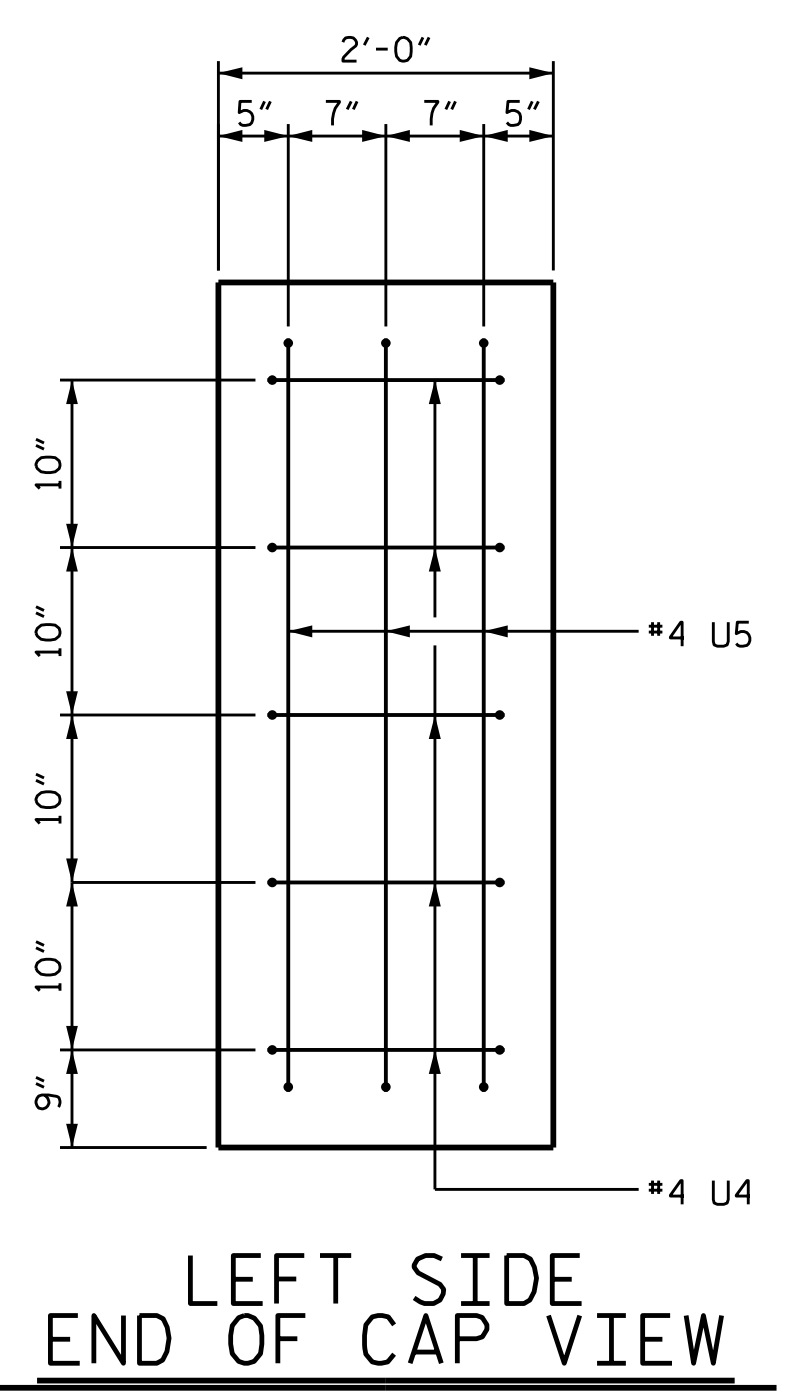


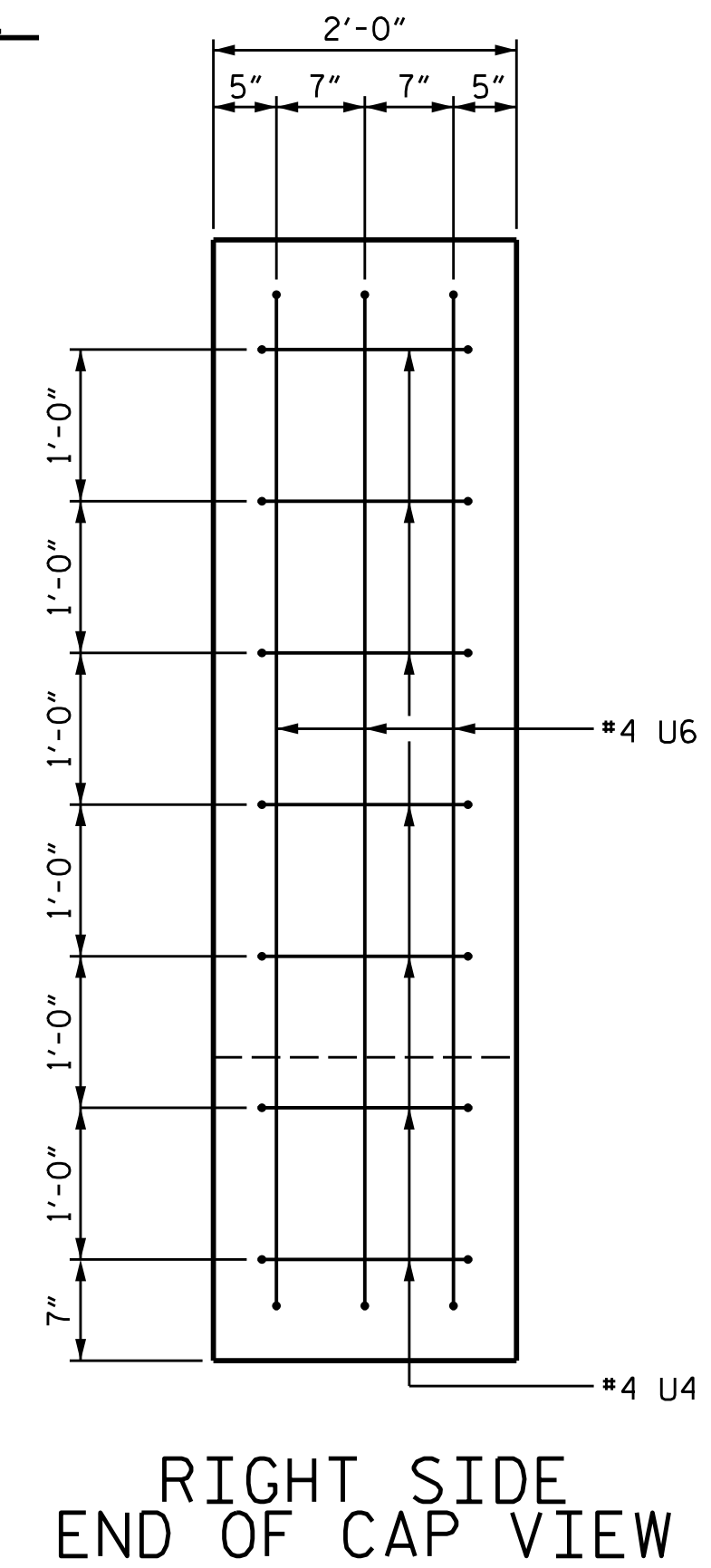
ROCK ANCHOR LAYOUT
FOR "UNTENSIONED ROCK ANCHORS"
SEE GEOTECHNICAL SPECIAL PROVISIONS.



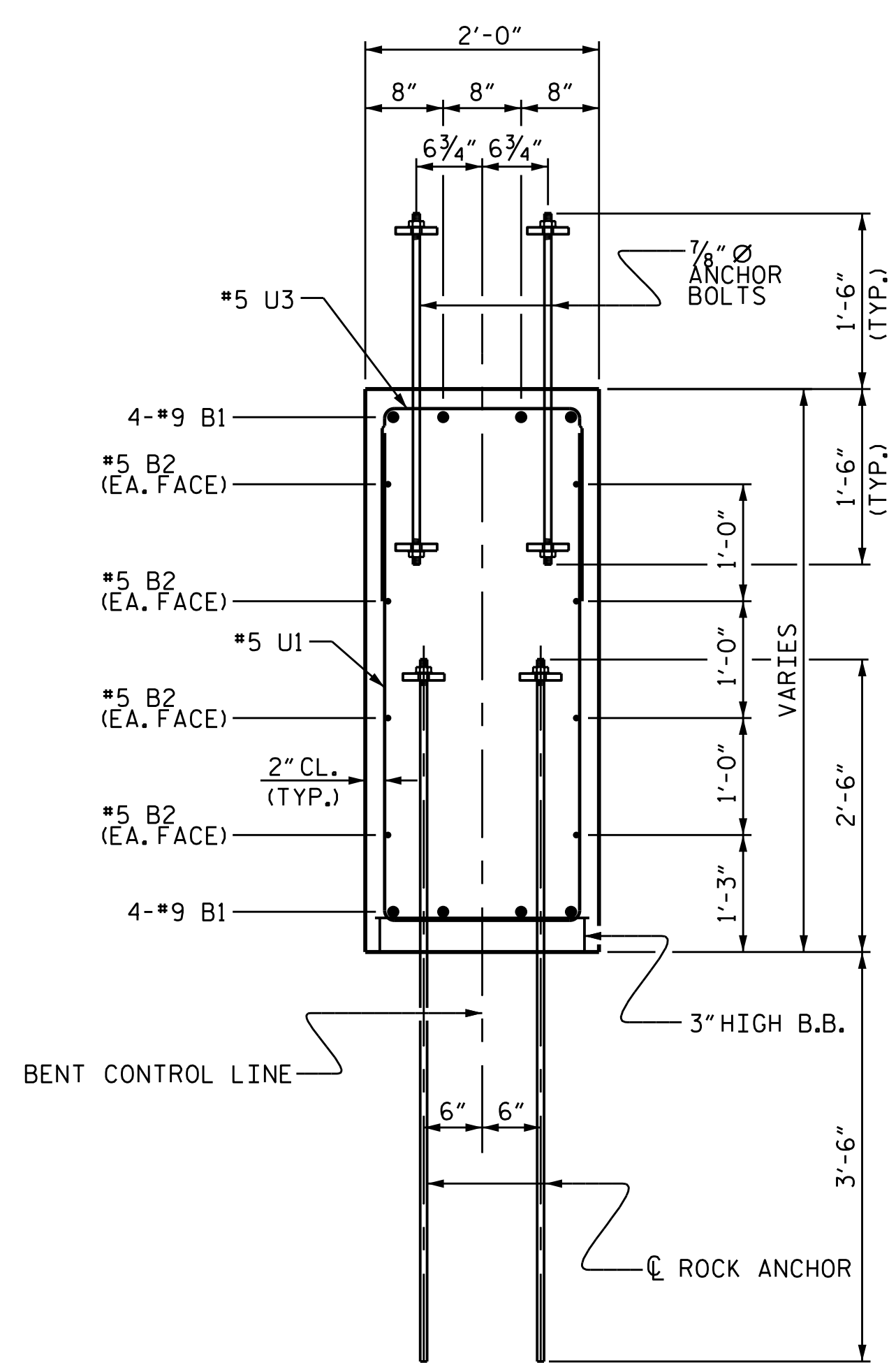
ROCK ANCHOR DETAIL



LEFT SIDE END OF CAP VIEW

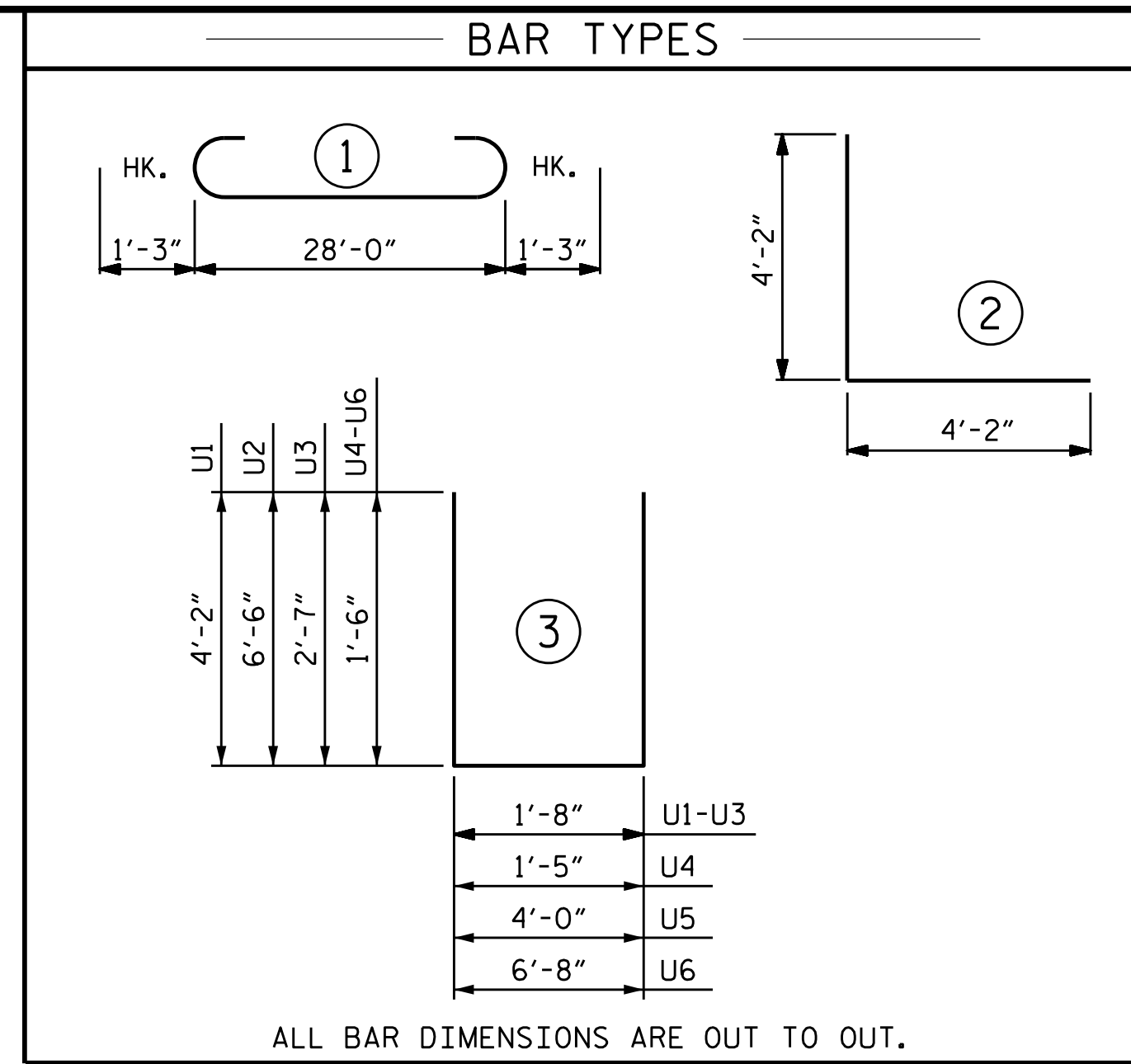


RIGHT SIDE END OF CAP VIEW



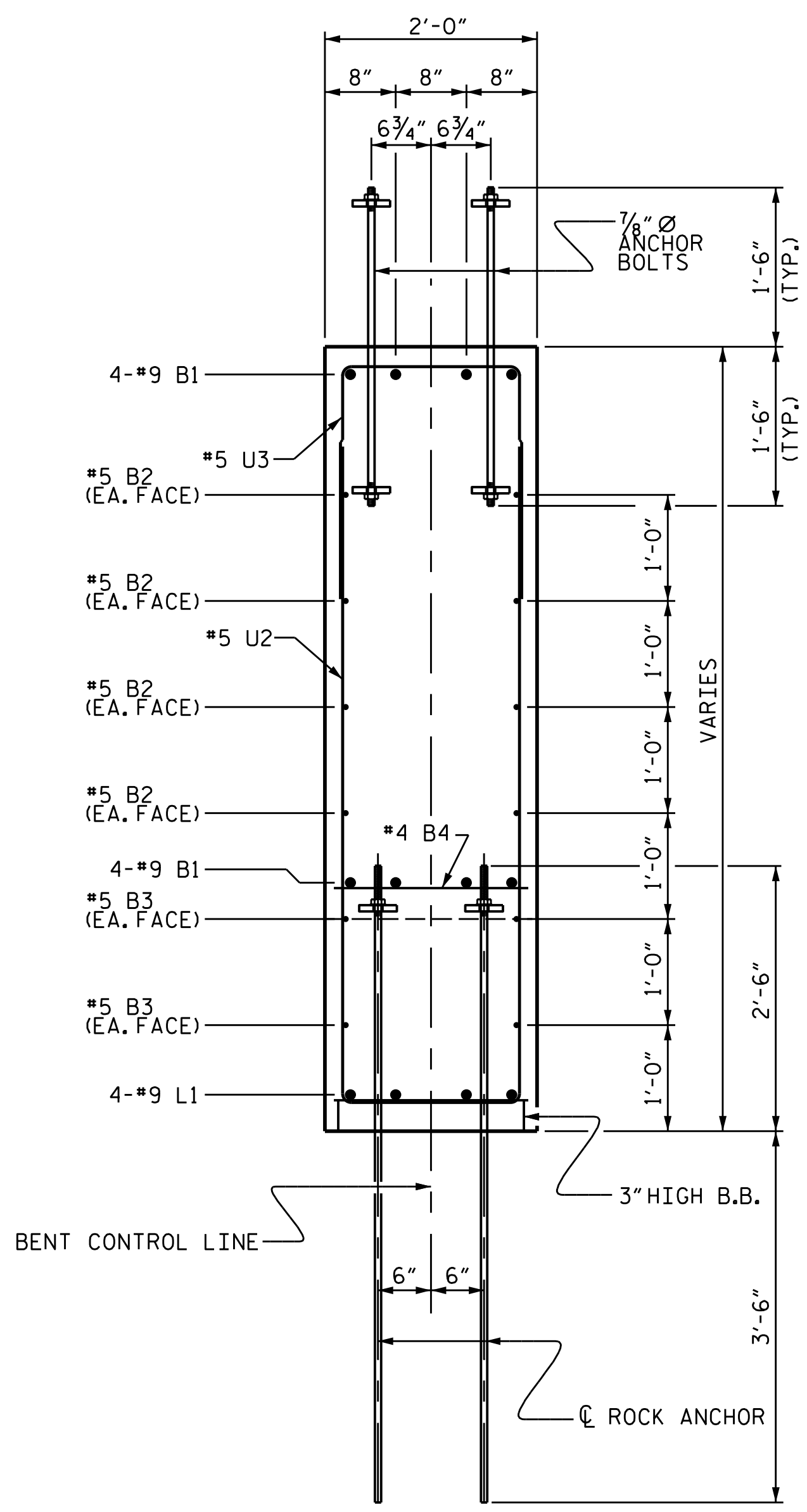
SECTION A-A

FOR 7/8" Ø ANCHOR BOLT ASSEMBLY,
SEE "BLOCKOUT DETAIL FOR ANCHOR BOLTS", SHEET S-7.



ALL BAR DIMENSIONS ARE OUT TO OUT.

| BILL OF MATERIAL | | | | | |
|------------------------------|------|------|--------|----------------|--|
| BENT No. 1 | | | | | |
| BAR NO. | SIZE | TYPE | LENGTH | WEIGHT | |
| B1 | #8 | | 30'-6" | 830 | |
| B2 | #5 | STR | 28'-2" | 235 | |
| B3 | #5 | STR | 5'-6" | 23 | |
| B4 | #4 | STR | 1'-8" | 2 | |
| L1 | #9 | | 8'-4" | 227 | |
| U1 | #5 | | 10'-0" | 469 | |
| U2 | #5 | | 14'-8" | 168 | |
| U3 | #5 | | 6'-10" | 399 | |
| U4 | #4 | | 4'-5" | 35 | |
| U5 | #4 | | 7'-0" | 14 | |
| U6 | #4 | | 9'-8" | 19 | |
| REINFORCING STEEL | | | | 2421 LBS. | |
| CLASS A CONCRETE | | | | | |
| CAP | | | | 11.7 C.Y. | |
| TOTAL CLASS A CONCRETE | | | | 11.7 C.Y. | |
| 2" Ø ANCHOR HOLE NOT IN SOIL | | | | 37.00 LIN. FT. | |
| VERIFICATION TESTS | | | | 1 EA. | |

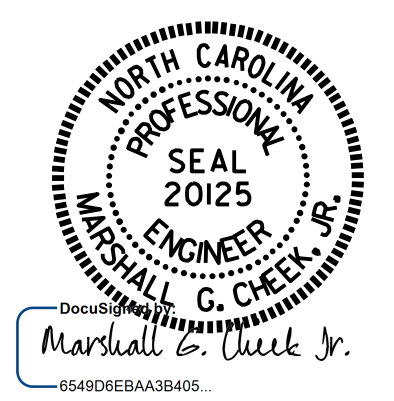


SECTION B-B

FOR 7/8" Ø ANCHOR BOLT ASSEMBLY,
SEE "BLOCKOUT DETAIL FOR ANCHOR BOLTS", SHEET S-7.

DRAWN BY: W.J. HARRIS DATE: 11/16
CHECKED BY: M.G. CHEEK DATE: 11/16
DESIGN ENGINEER OF RECORD: W.J. HARRIS DATE: 11/16

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED



PROJECT NO. B-5383
AVERY COUNTY
STATION: 12+71.00 -L-
SHEET 2 OF 2

| STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH | | | | | |
|--|-----|-------|-----|-----|-------|
| SUBSTRUCTURE BENT No. 1 | | | | | |
| REVISIONS | | | | | |
| NO. | BY: | DATE: | NO. | BY: | DATE: |
| 1 | | | 3 | | |
| 2 | | | 4 | | |

| | |
|--------------|------|
| SHEET NO. | S-14 |
| TOTAL SHEETS | 16 |