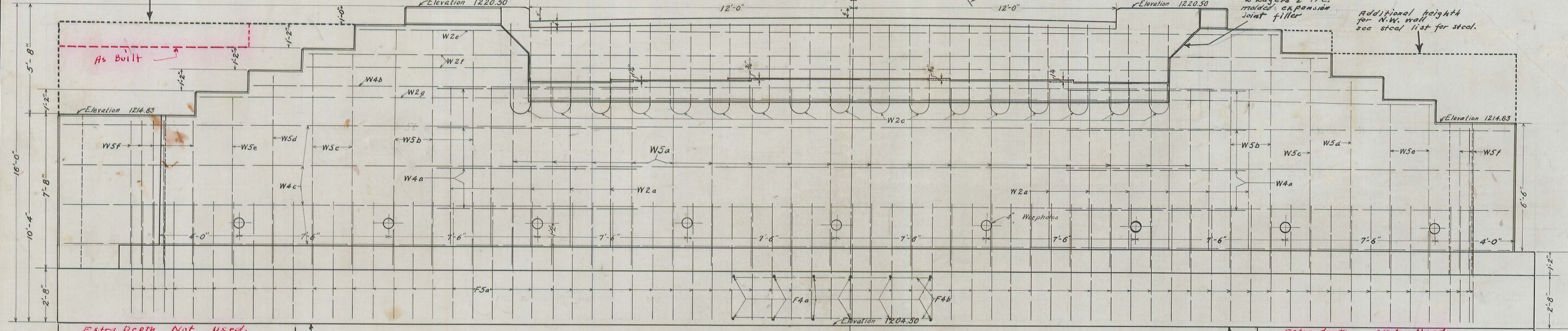
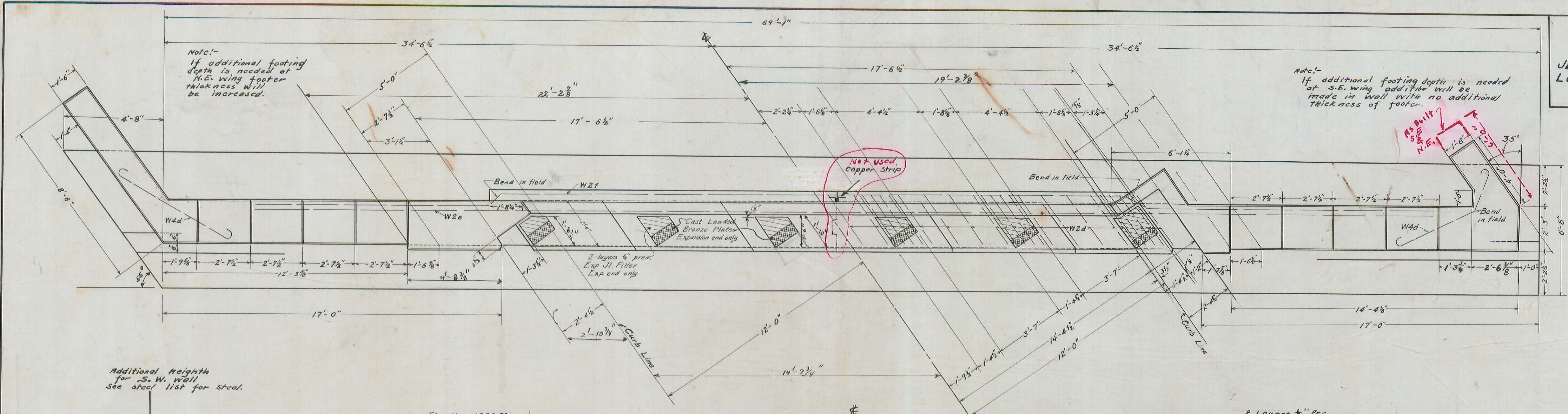


ROAD NO. 5
 BRIDGE NO. 8.60
 JEFFERSON TOWNSHIP
 LOGAN COUNTY OHIO
 1934

BRIDGE 5-8.60

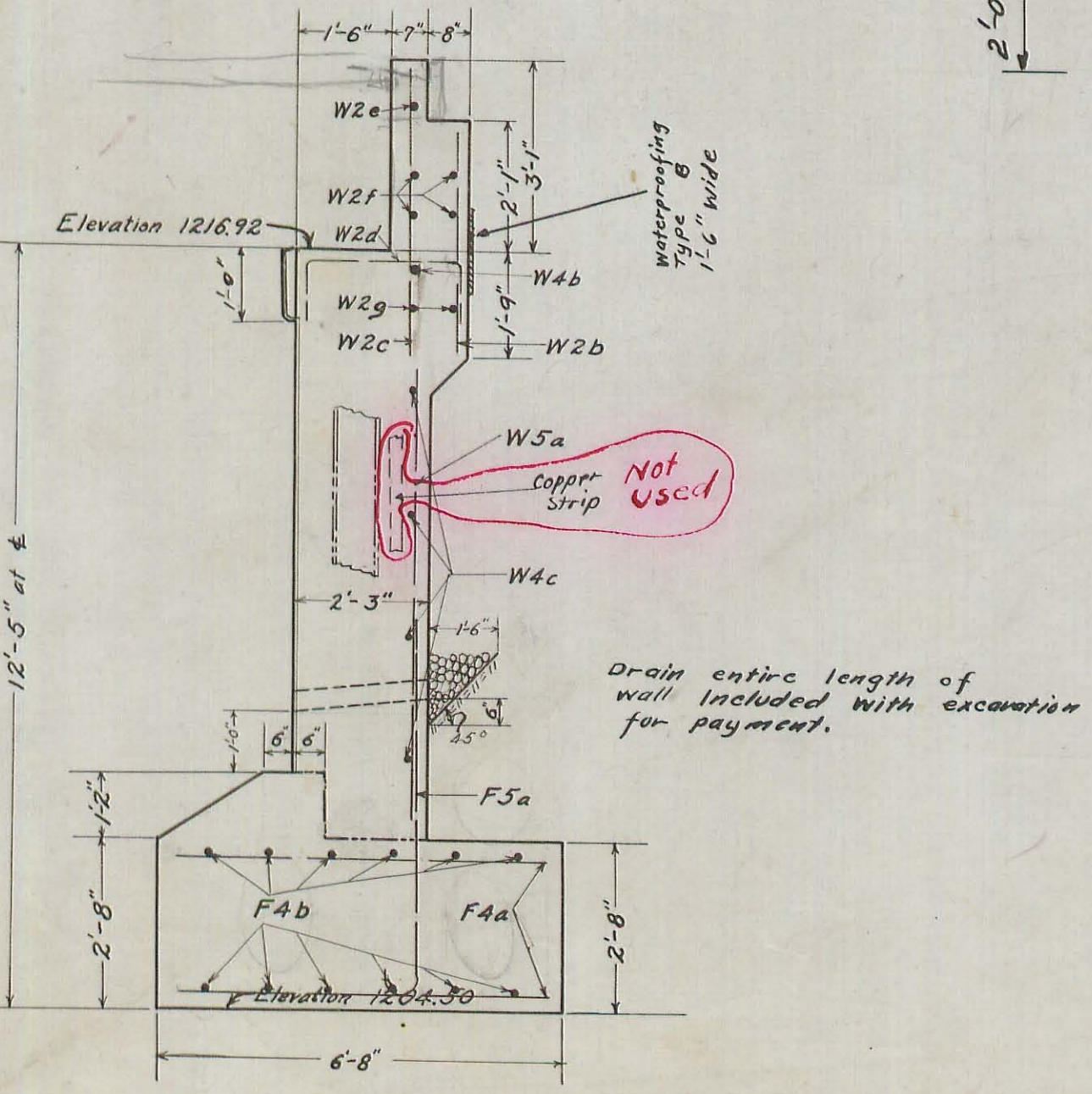
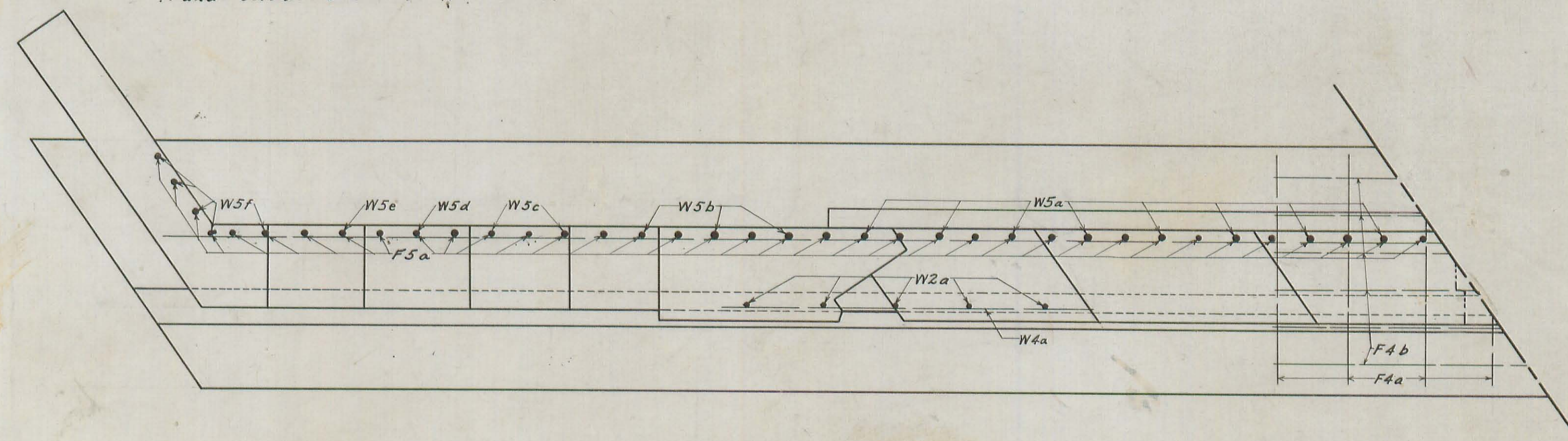


ELEVATION ABUTMENT & WINGS
(EAST ABUTMENT)

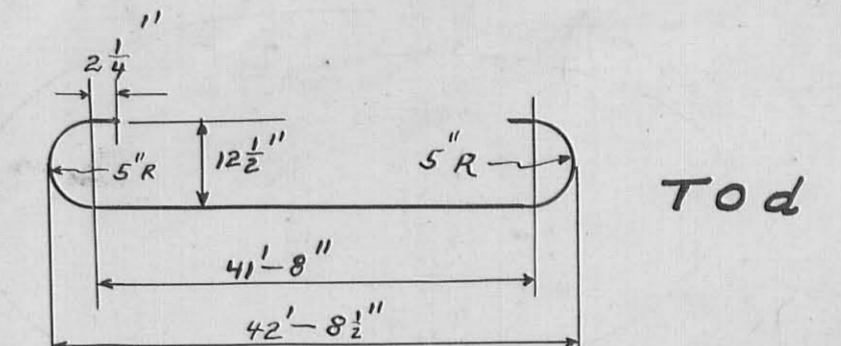
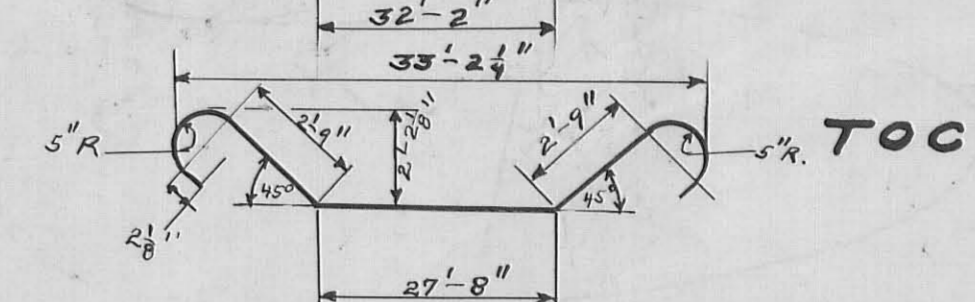
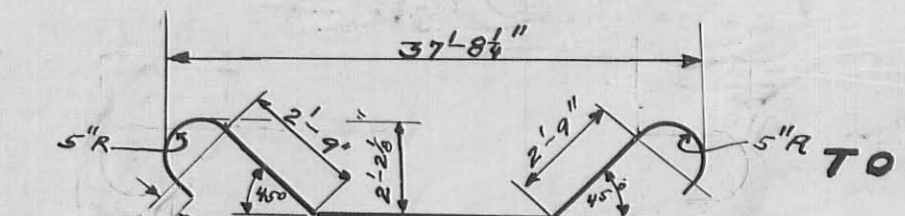
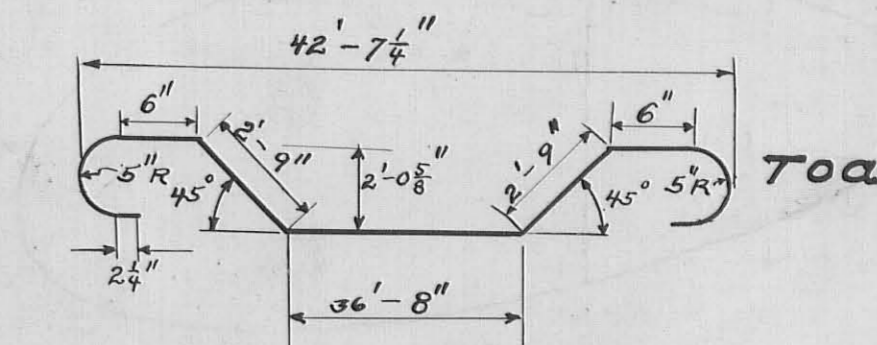
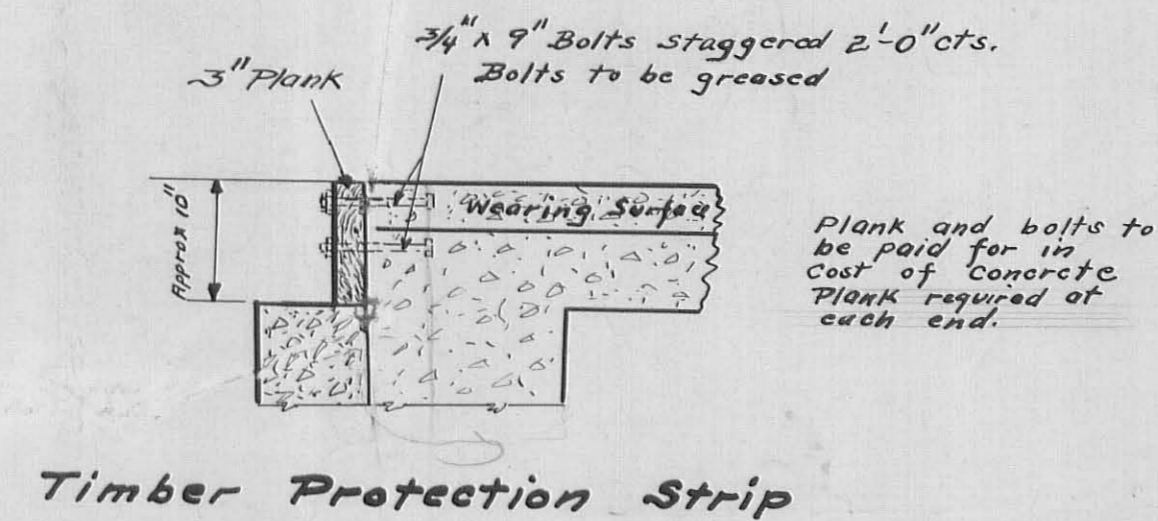
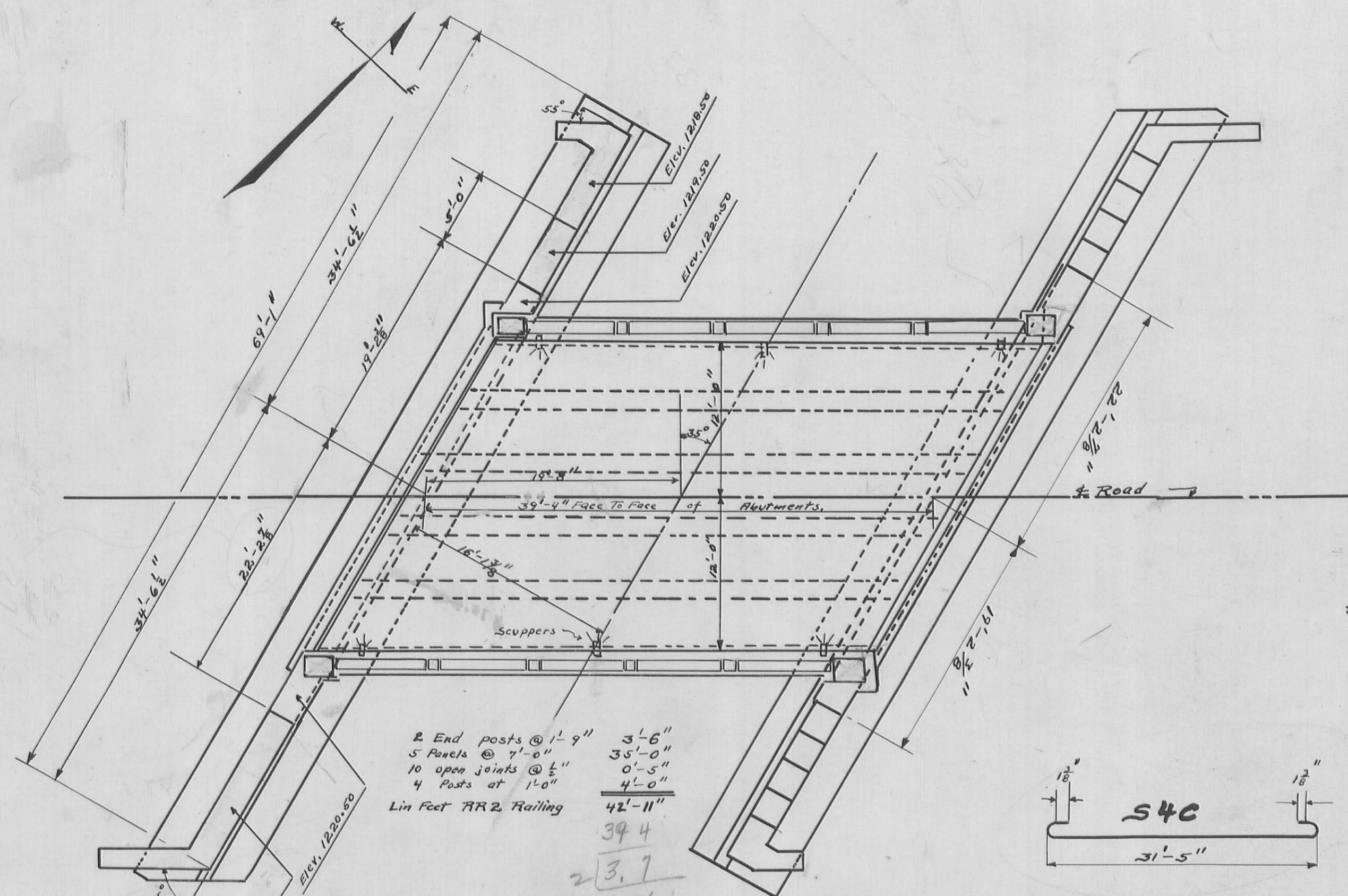
Extra Depth Not Used.
Extra depth and thickness in footer depending on soil conditions. Excavation and concrete included in estimate.

Note: Great care will be required in finish of walls and outside beams. Entire length of walls, wings and outside beams to be rubbed.

Extra Depth Not Used.
Extra depth depending on soil conditions. Extra to be in wall only. Excavation and concrete included with estimate.

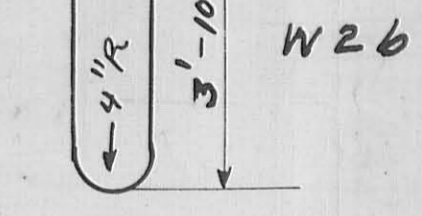
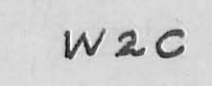
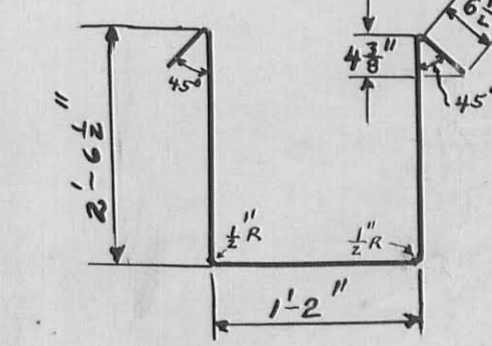
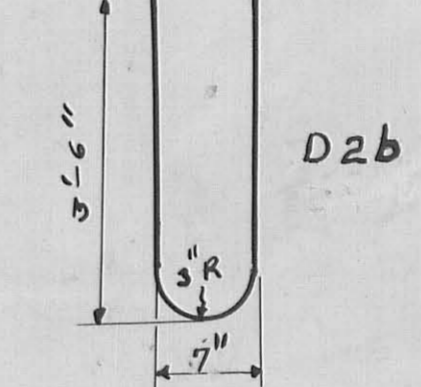
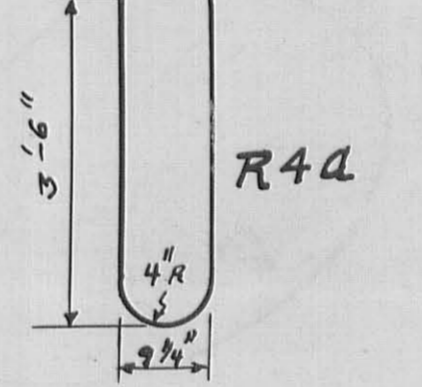
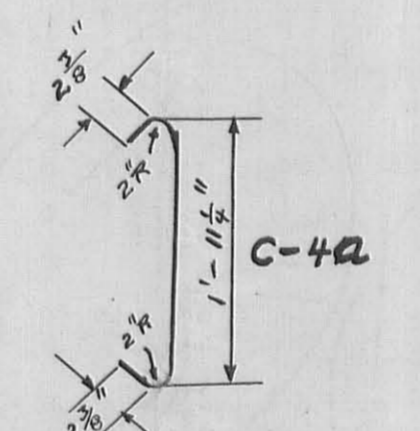
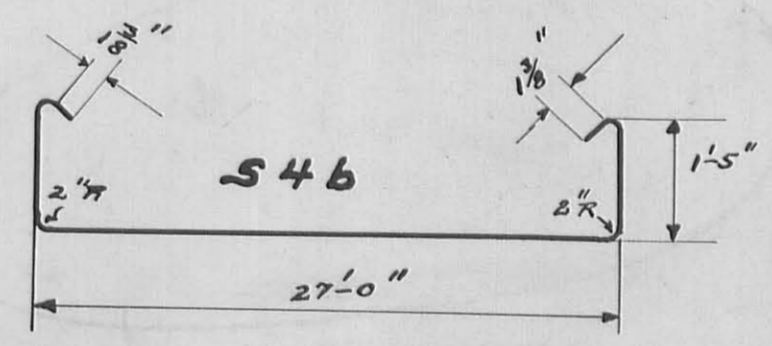
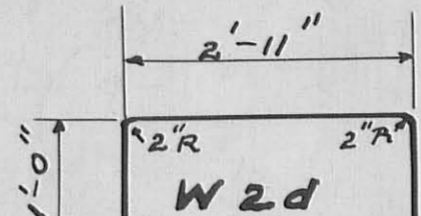
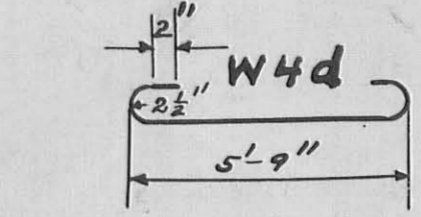
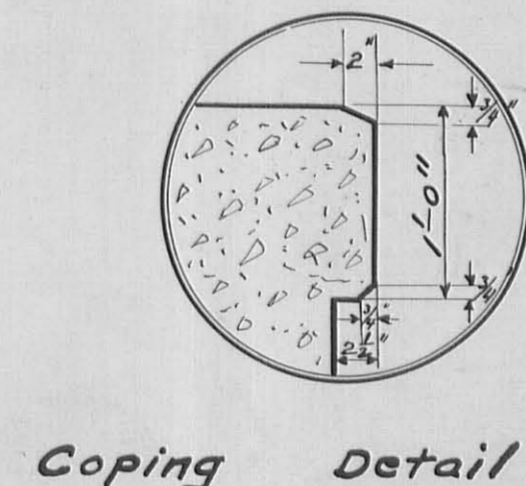


Tan 35° 0'
Cosine 81.92
Sec. 1.2208

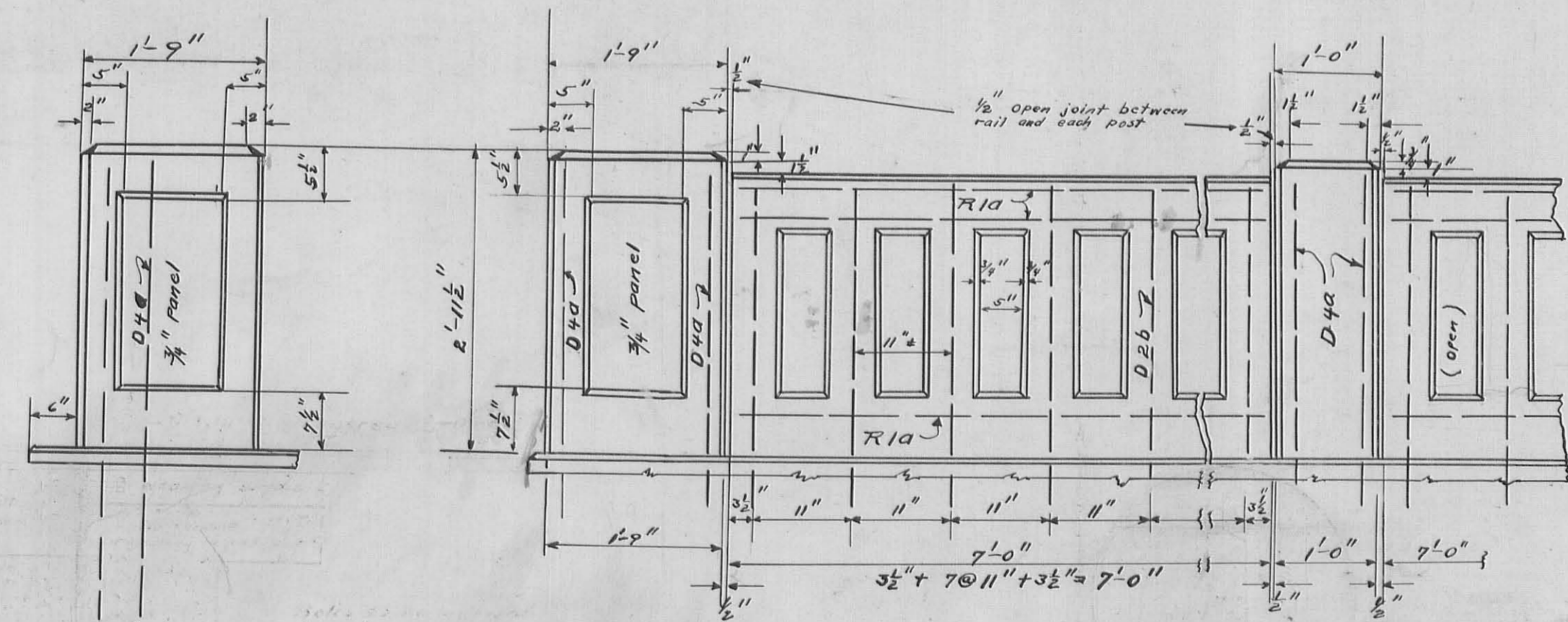


| BAR LEGEND | | |
|------------|---|-------------------|
| Size | | Wt. lbs. per foot |
| 3/8" | 1 | .376 |
| 1/2" | 2 | .668 |
| 5/8" | 3 | .850 |
| 3/4" | 4 | 1.043 |
| 7/8" | 5 | 1.502 |
| 1" | 6 | 2.044 |
| 1 1/8" | 7 | 2.670 |
| 1 1/4" | 8 | 3.400 |
| 1 3/8" | 9 | 4.303 |
| 1 1/2" | 0 | 5.313 |

| | |
|---|---------|
| T | T Beam |
| S | Slab |
| R | Railing |
| D | Dowell |
| F | Footer |
| W | Wall |
| C | Curb |

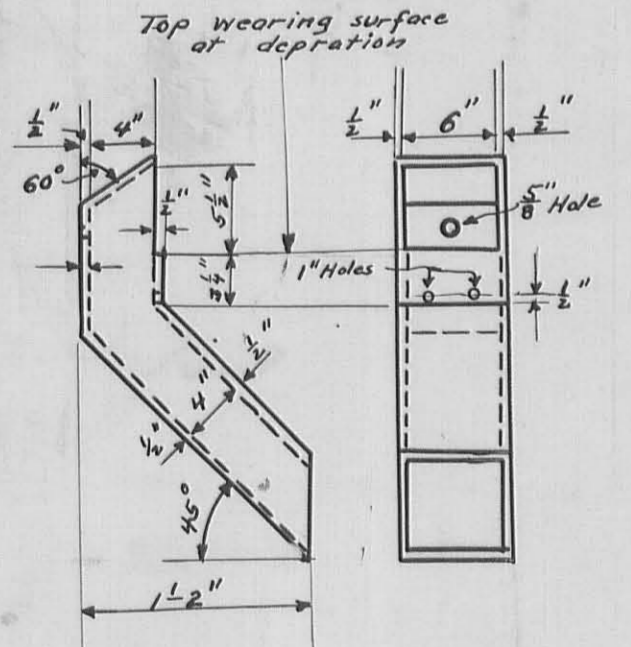


make front of post 1/2" back of face line of wall at neavos and 6" from curb line

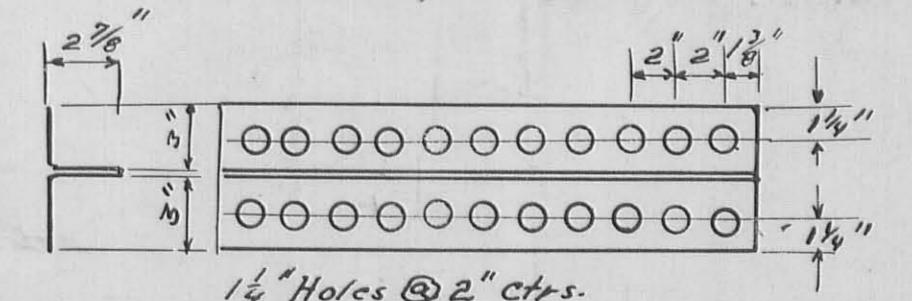


The reinforcing steel (Except dowels into super-structure R2b and R4a rods) is included for payment with price per foot of railing.

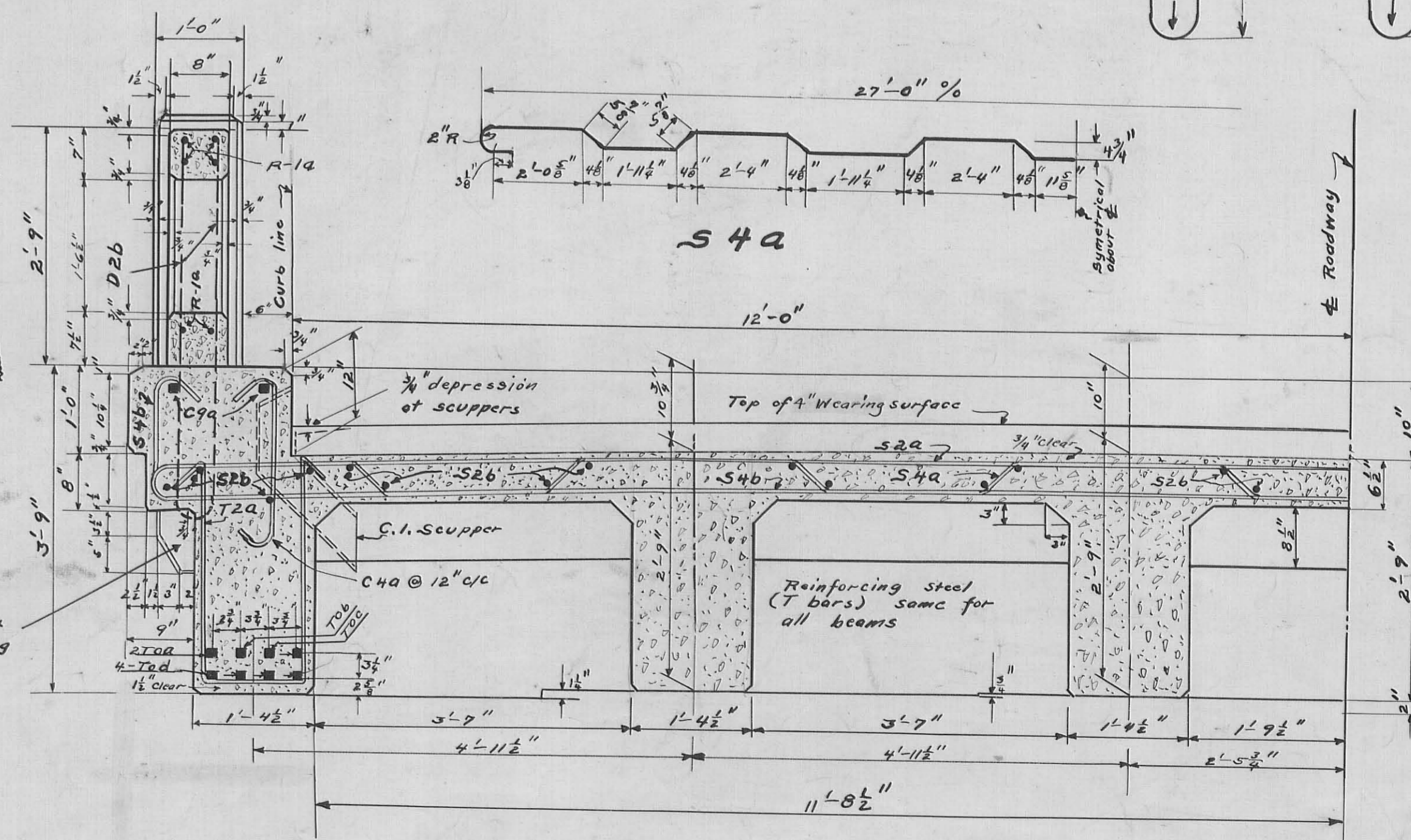
RAILING TYPE RR 2



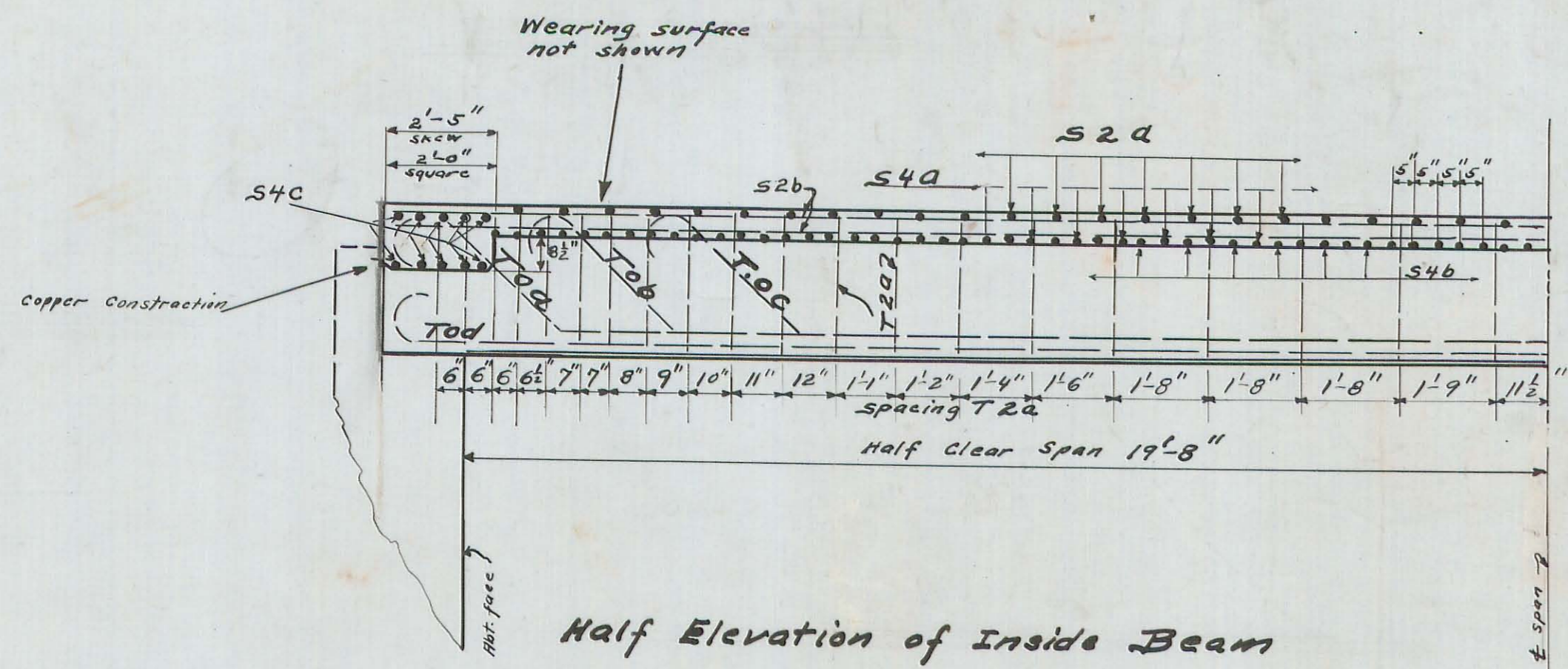
Scupper Detail
1/2" Cast Iron



DETAIL OF 12" 24 OZ COPPER CONTRACTION STRIP



HALF CROSS SECTION



| ESTIMATED QUANTITIES | | |
|---|------------------|-----------|
| Channel excavation | | |
| Foundation excavation (Earth) (includes removing old walls.) | 190 | Cu Yds. |
| Foundation excavation (Rock) | 125 | Cu Yds. |
| 1-5 1/2 Concrete Superstructure | 62.5 | Cu. Yds. |
| 1-6 1/2 Concrete Walls (East 67.7 West 74.3) = 142.0 | 142.0 | Cu. Yds. |
| 1-6 1/2 Concrete Walls (Estimate extra S.E. corner) Not Used | -2.4 | Cu. Yds. |
| 1-6 1/2 Concrete Footings (East 58.8 West 50.4) = 115.2 | 105.6 | Cu. Yds. |
| 1-6 1/2 Concrete Footings (Estimate extra N.E. corner) Not Used | -7.1 | Cu. Yds. |
| Reinf Concrete railing (R.R.R.) 1-5 1/2 MX. | 85'-10" | Lin. Feet |
| 4" Wearing surface (1-5 1/2 MX) | 114 | Sq. Yds. |
| Reinforcing steel | 24847 | Lbs. |
| 3/8" Cast leaded Bronze plates 1 1/4" x 5" 12 Req'd. | 124 | Lbs. |
| Scuppers | 6 | Pcs. |
| B.Type Waterproofing | 12 | Sq. Yds. |
| Weep Holes | 18 | |
| Piling | 1 | Lin Foot |
| 1/2" Arc. Molded Ex. Joint Filler | 35 | Sq. Feet. |
| Copper Expansion strip | 89'-2" | Lin Feet. |

East 58.8 cu. Yds. Concrete
5:0 " " Stone "plums"
Total 63.8

West 50.4 cu. Yds. Concrete
2:0 " " Stone "plums"
Total 58.4

| STEEL LIST | | | | | | |
|------------|--------|----------|-----------|---------|--------|------------------------------------|
| Mark | Size | Shape | No. Req'd | Length | Weight | Spacing |
| T0a | 1/4" | Bent | 12 | 46'-6" | 2965 | ---- |
| T0b | 1/4" | Bent | 6 | 41'-0" | 1307 | ---- |
| T0c | 1/4" | Bent | 6 | 36'-6" | 1164 | ---- |
| T0d | 1/4" | Bent | 24 | 45'-0" | 5738 | 0'-3 3/4" |
| T2a | 1/2" | Bent | 240 | 7'-4" | 1176 | ---- |
| C9a | 1 1/8" | Straight | 4 | 42'-9" | 736 | ---- |
| C4a | 3/8" | Bent | 86 | 2'-9" | 247 | 1'-0" |
| S4a | 5/8" | Bent | 48 | 29'-9" | 1489 | 0'-10" |
| S4b | 5/8" | Bent | 47 | 30'-3" | 1483 | 0'-10" |
| S4c | 5/8" | Bent | 20 | 32'-5" | 676 | 0'-5" |
| S2a | 1/2" | Straight | 47 | 27'-0" | 848 | 0'-10" |
| S2b | 1/2" | Straight | 28 | 42'-9" | 800 | ---- |
| D4a | 5/8" | Bent | 24 | 7'-3" | 182 | |
| D2b | 1/2" | Bent | 80 | 7'-6" | 401 | |
| R1a | 1/2" | Straight | 60 | 7'-3" | 291 | Included with railing for Payment. |
| F5a | 3/4" | Bent | 144 | 7'-8" | 1658 | 1'-0" E. & W. |
| F4a | 5/8" | Straight | 24 | 6'-2" | 154 | 2'-0" E. & W. |
| F4b | 5/8" | Straight | 24 | 10'-0" | 250 | 1'-0" E. & W. |
| W5a | 3/4" | Straight | 36 | 9'-4" | 504 | 2'-0" E. & W. |
| W5b | 3/4" | Straight | 5 | 11'-10" | 89 | 2'-0" E. |
| W5c | 3/4" | Straight | 3 | 10'-8" | 48 | 2'-0" E. |
| W5d | 3/4" | Straight | 2 | 9'-6" | 29 | 2'-0" E. |
| W5e | 3/4" | Straight | 3 | 8'-4" | 38 | 2'-0" E. |
| W5f | 3/4" | Straight | 8 | 7'-2" | 86 | 2'-0" E. |
| W4a | 5/8" | Straight | 16 | 10'-0" | 167 | 2'-0" E. & W. |
| W4b | 5/8" | Straight | 1 | 56'-0" | 58 | 2'-0" E. |
| W4c | 5/8" | Straight | 8 | 79'-0" | 660 | ----- E. & W. |
| W4d | 5/8" | Bent | 20 | 7'-0" | 146 | 2'-0" E. & W. |
| W2a | 1/2" | Straight | 22 | 8'-0" | 118 | 2'-0" E. & W. |
| W2b | 1/2" | Bent | 34 | 7'-6" | 170 | 2'-0" E. & W. |
| W2c | 1/2" | Bent | 34 | 9'-2" | 208 | 2'-0" E. & W. |
| W2d | 1/2" | Bent | 92 | 4'-11" | 302 | 0'-4 1/2" E. & W. |
| W2e | 1/2" | Straight | 2 | 49'-4" | 66 | ----- E. & W. |
| W2f | 1/2" | Straight | 8 | 54'-6" | 292 | 0'-8" E. & W. |
| W2g | 1/2" | Straight | 4 | 59'-8" | 160 | ----- E. & W. |
| W5bx | 3/4" | Straight | 14 | 11'-10" | 249 | 2'-0" W. |
| W5cx | 3/4" | Straight | 7 | 10'-8" | 112 | 2'-0" W. |
| W4bx | 5/8" | Straight | 1 | 68'-0" | 71 | ----- W. |
| | | | | | 24847 | |