

Deflections are computed at 1/2 Beams

| LOCATION | DEAD LOAD DEFLECTION | | | |
|----------------------------|---------------------------|---------------------|---------------------------|---------------------|
| | OUTSIDE BEAMS SPANS 1 & 3 | INSIDE BEAMS SPAN 2 | OUTSIDE BEAMS SPANS 1 & 3 | INSIDE BEAMS SPAN 2 |
| Due to weight of steel | 1/16" | 1/16" | 1/16" | 1/16" |
| Due to remaining dead load | 3/16" | 1/4" | 3/16" | 1/4" |
| Total dead load deflection | 4/16" | 5/16" | 4/16" | 5/16" |

NOTE: No camber is required, but all beams will be fabricated with any natural camber or bowed side up.

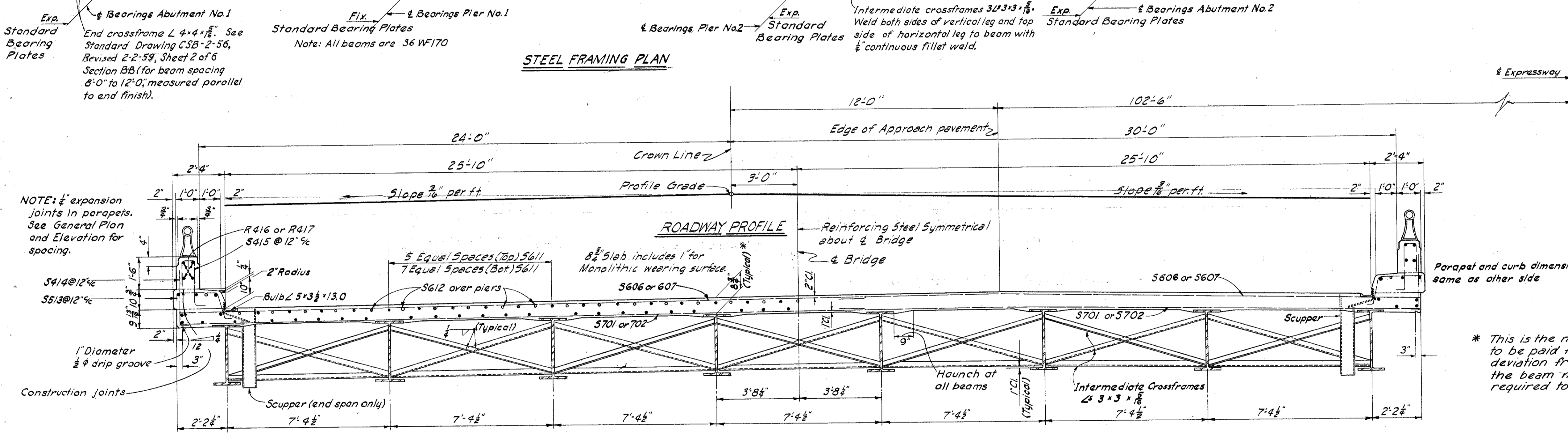
NOTES

- Refer to Standard Drawing CSB-2-56, Sheet 2 of 6 for details of end dam.
- Refer to Standard Drawing CSB-2-56, sheet 3 of 6 for details of Bearing Plates.
- Refer to Standard Drawing CSB-2-56, sheet 3 of 6, for gutter, scupper, and curb plate details.
- Concrete and reinforcing steel above parapet construction joints included with railing for payment.
- Joints in end dam: A welded butt joint in the dam, at the crown line of roadway, will be required for that portion of the end dam attached to the Superstructure. The portion attached to the backwall shall be placed in segments which shall be closely butted, with one of the joints at the apex of the crown, but shall not be welded.
- Concrete shall be class "C".

BEAM SPLICE WELDING PROCEDURE

- Raise the abutment ends of the beams 1 1/2".
- Butt weld the beam flanges and web using the following sequence: make two passes on each flange, then two on the web; repeat, using one pass at each location, until welds are completed.
- Weld the bottom and top moment plates.
- Lower the beam ends to final position.

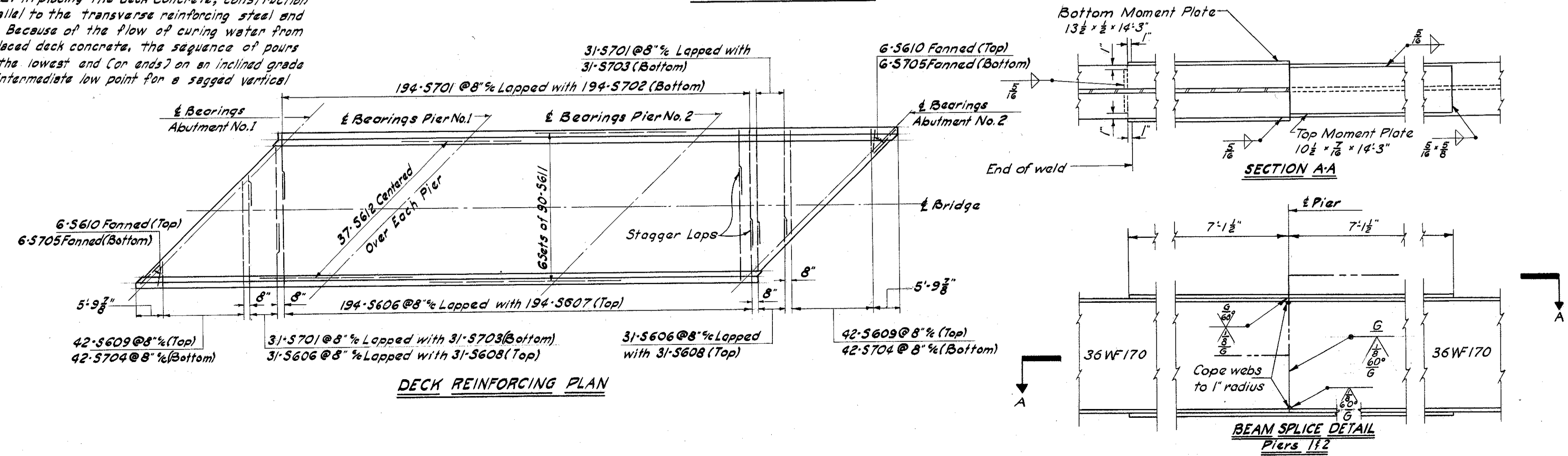
* This is the nominal dimension. The quantity of deck concrete to be paid for shall be based on this dimension, even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or configuration required to place it parallel to the finished grade.



NOTE: 1/2 expansion joints in parapets. See General Plan and Elevation for spacing.

DECK PLACING PROCEDURE: In placing the deck concrete, construction joints will be permitted, parallel to the transverse reinforcing steel and near the middle of any span. Because of the flow of curing water from the surface of previously placed deck concrete, the sequence of pours shall be upgraded, starting at the lowest and (on ends) on an inclined grade or vertical curve (or at an intermediate low point for a sagged vertical curve).

TYPICAL CROSS SECTION



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SUPERSTRUCTURE

SOUTH BOUND
BRIDGE NO. LAK-1-0426
OVER STATE ROUTE NO. 174

LAKE COUNTY S.B. STA. 235+38.42
TO STA. 237+26.78

| | | | | | |
|----------|--------|--------|---------|----------------|---------|
| Designed | Drawn | Traced | Checked | Reviewed-Date | Revised |
| E.E.W. | r.b.m. | r.b.m. | G.S.W. | W.R.B. 4-58 | |