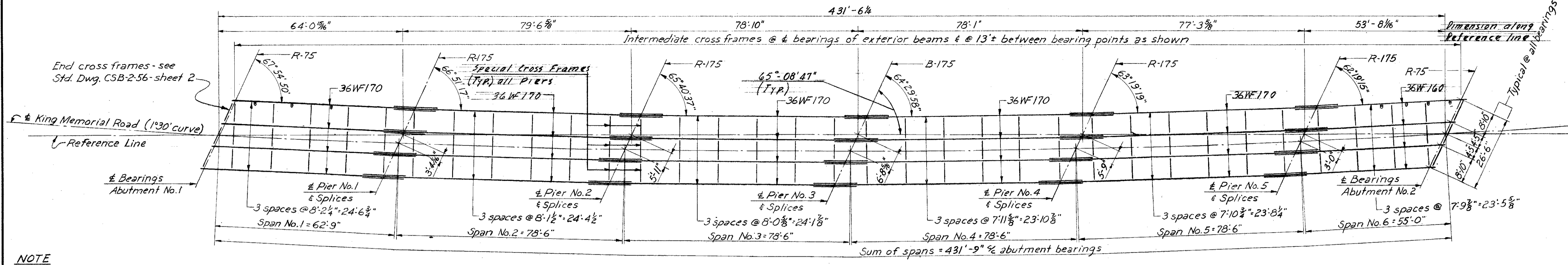


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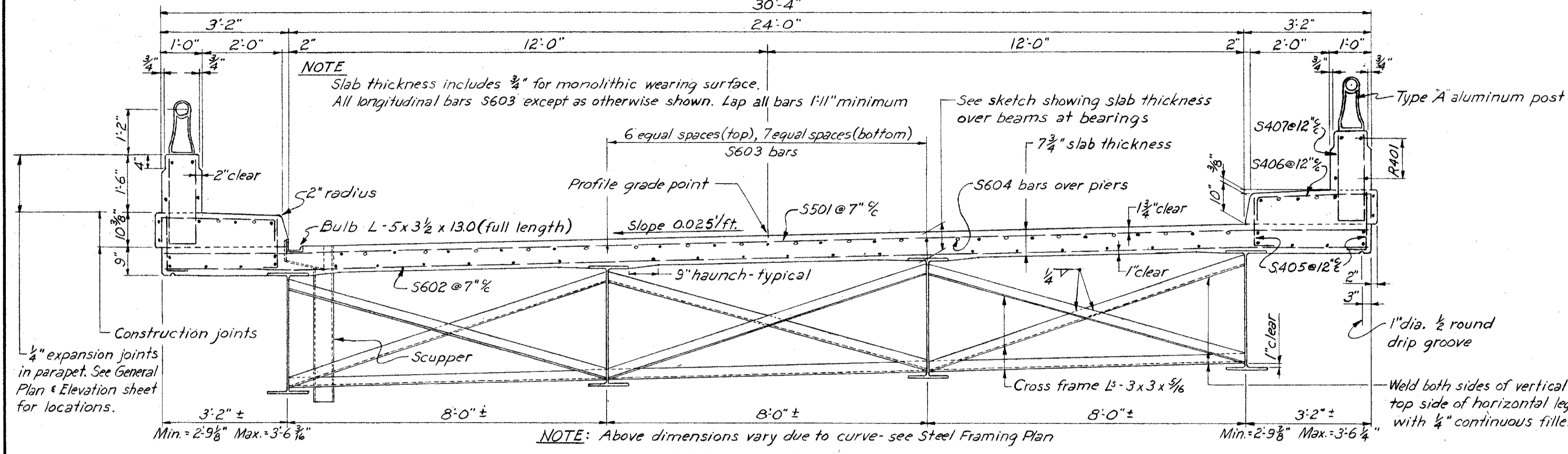
**NOTES**

- REFERENCE shall be made to Standard Drawing CSB-2-56, sheets 2:3 of 6, revised 2-2-59 for details of end dams, gutters, scuppers, pipe drains and curb plates.
- REFERENCE shall be made to Standard Drawing RB-1-55 revised 2-2-59 for details of rockers and bolsters.
- REFERENCE shall be made to Standard Drawing AR-1-57 revised 2-2-59 for details of aluminum railing Type "A" and concrete parapet details.
- WELDING of structural steel shall be Class "A" except as otherwise shown. Welds shown as field welds may, at the option of the Contractor, be made in the shop.
- PAINTING: After erection and after the shop coat has been cleaned and, where necessary, repainted in accordance with Sec. 8.04, an additional coat of the same paint as used in the shop shall be applied over the outside face of the outside steel beams and all sides of the bottom flange.
- DECK SLAB DEPTH: \*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 conformation required to place it parallel to the finished grade.
- CONCRETE DECK PLACING: In order to facilitate water curing of the concrete of the deck slab, the placing of concrete shall progress upgrade. The slab may be placed in sections, between transverse construction joints which are parallel to transverse reinforcing steel and are located near the center of any span.
- BEAM SPLICE WELDING PROCEDURE: For stability during erection, splice procedure will begin at the fixed bearing as follows:
  1. Raise end of beam at Pier No. 4 - 3"
  2. Butt-weld beam flanges and web at Pier No. 3 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.
  3. Weld top and bottom flange moment plates at Pier No. 3.
  4. Lower end of beam at Pier No. 4.
  5. Make splices at Piers No. 4 and 5 in the same manner, raising the ends of the beams 2 1/4" at Pier No. 5 and 1" at Abutment No. 2.
  6. Then, make splices at Piers No. 2 and 1 in the same manner, raising the ends of the beams 2 1/4" at Pier No. 1 and 1 1/4" at Abutment No. 1.
- CONCRETE shall be Class "C".
- Concrete and reinforcing steel above parapet construction joint included with railing for payment.
- Weld special crossframes into place before lowering the ends of beams.



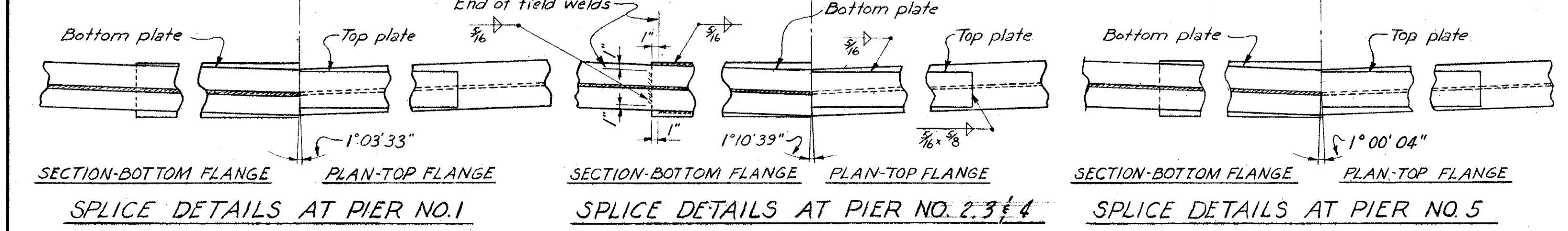
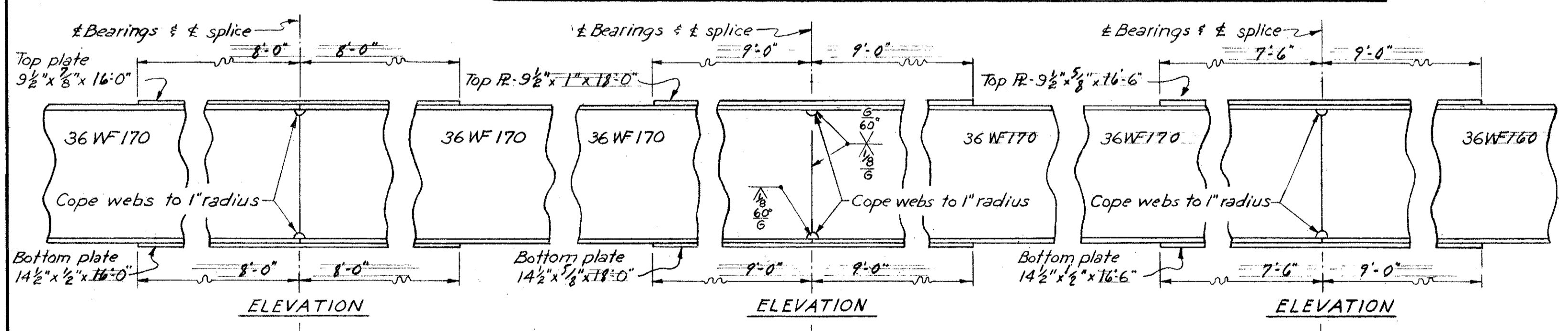
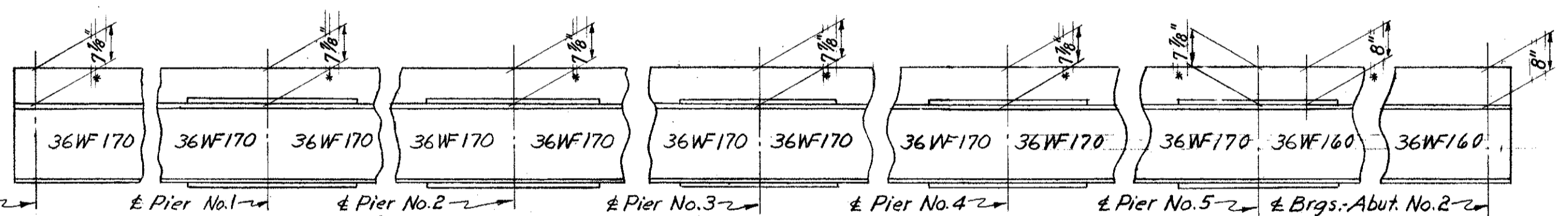
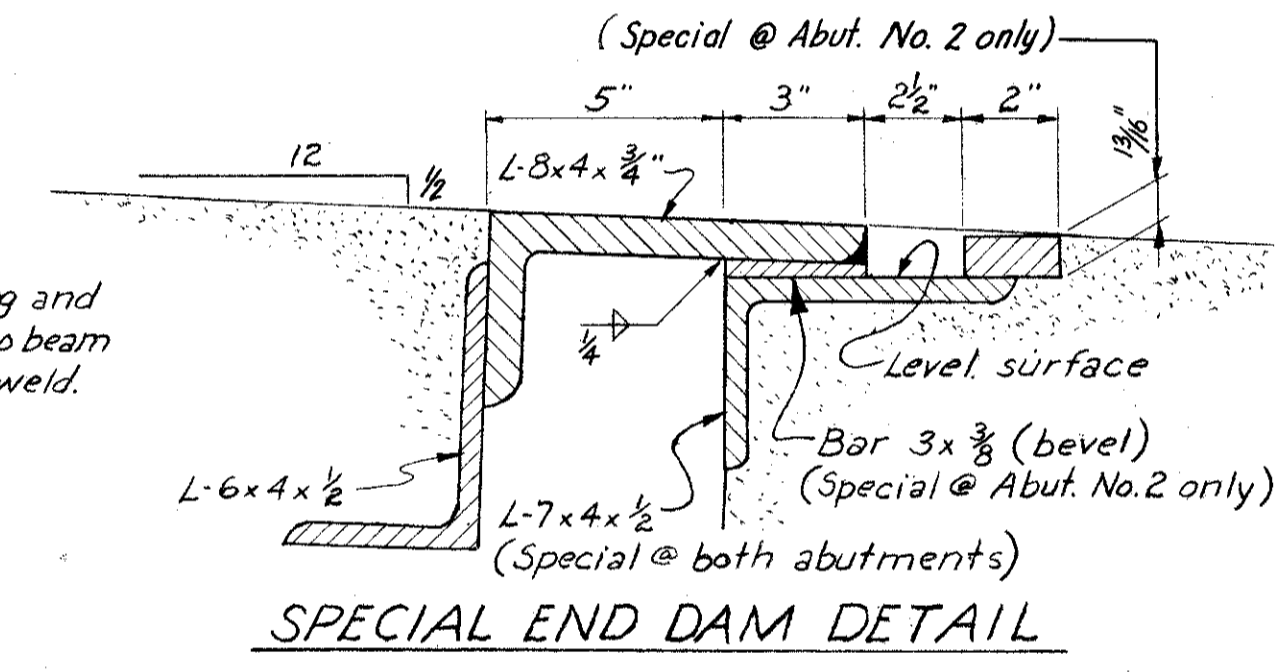
**NOTE**  
Beams are centered on and are parallel to the chord of each span.  
□ denotes 6" x free drop scupper

**STEEL FRAMING PLAN**

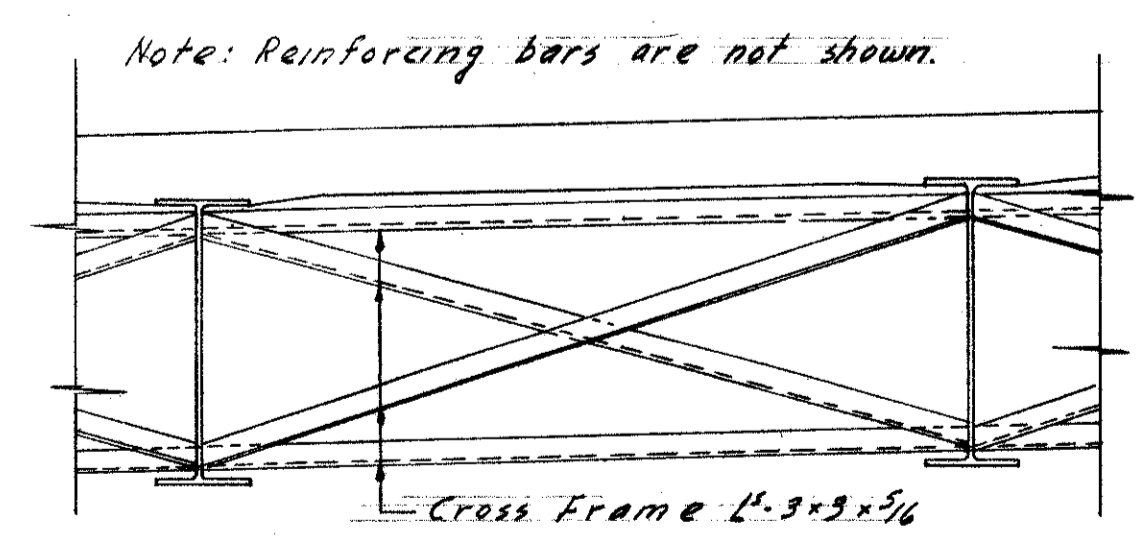


**DEFLECTION & CAMBER**

	SPAN NO. 1	SPAN NO. 2	SPAN NO. 3	SPAN NO. 4	SPAN NO. 5	SPAN NO. 6
Deflection due to weight of steel	1/4"	1/8"	1/8"	1/8"	1/8"	1/16"
Deflection due to remaining dead load	3/8"	7/16"	7/16"	3/8"	3/8"	1/8"
Convexity required for vertical curve	1/16"	1/8"	1/8"	1/8"	1/8"	1/16"
Sum of deflection and convexity	1"	1 1/16"	1 1/16"	1 3/8"	1 1/16"	3/8"
Required camber	1"	1 1/16"	1 1/16"	1 3/8"	1 1/16"	0



**NOTE**  
All welds are similar to those shown for splice details @ Pier No. 4



SEC. C-31A

PREPARED BY  
CAPITOL ENGINEERING ASSOCIATES, DILLSBURG, PA.  
FOR

STATE OF OHIO  
DEPARTMENT OF HIGHWAYS  
DIVISION OF DESIGN AND CONSTRUCTION  
BUREAU OF BRIDGES

STEEL FRAMING PLAN  
BRIDGE NO. LAK-1-1050  
S.R.I. UNDER KING MEMORIAL ROAD  
LAKE COUNTY

STA. 199 + 91.32

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED
J.M.	J.M.		H.M.		3-1-60