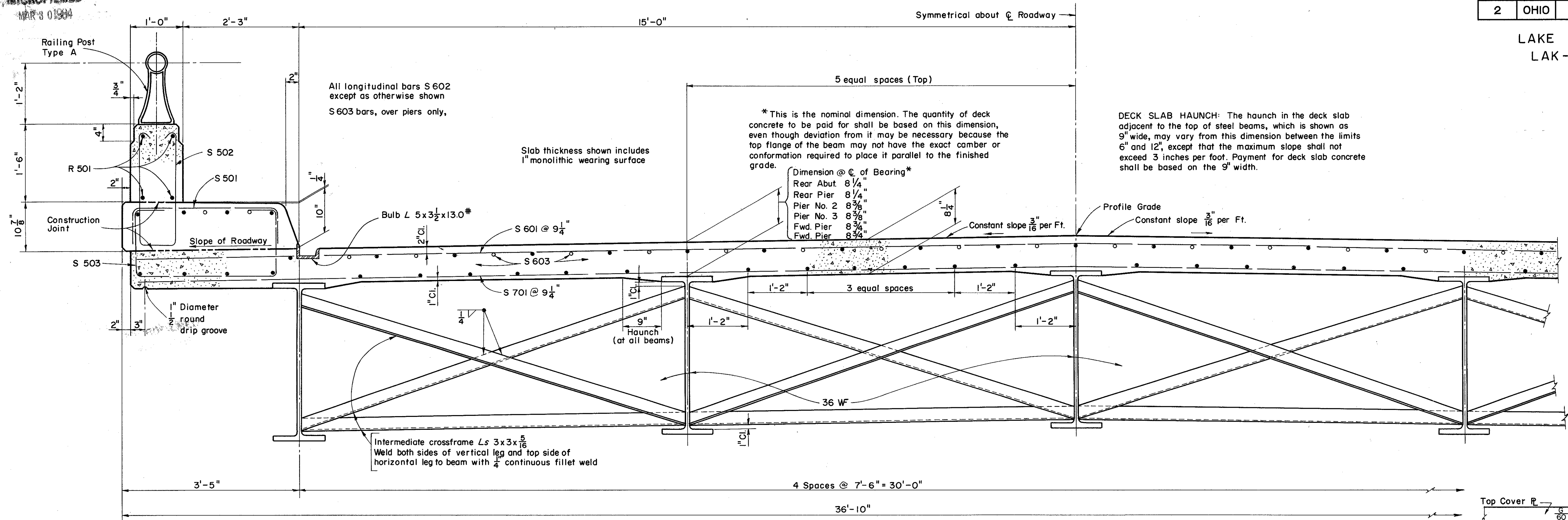


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LAKE COUNTY
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TRANSVERSE SECTION

NOTES

DEFLECTION AND CAMBER					
LOCATION	SPAN 1	SPAN 2	SPAN 3	SPAN 4	SPAN 5
Deflection due to weight of steel	1/16	1/16	1/16	0	0
Deflection due to remaining dead load	5/16	1/4	5/16	1/8	1/8
Sum of deflection	3/8	5/8	3/8	1/8	1/8
Required Camber	0	0	0	0	0

BEAM SPLICE WELDING PROCEDURE:

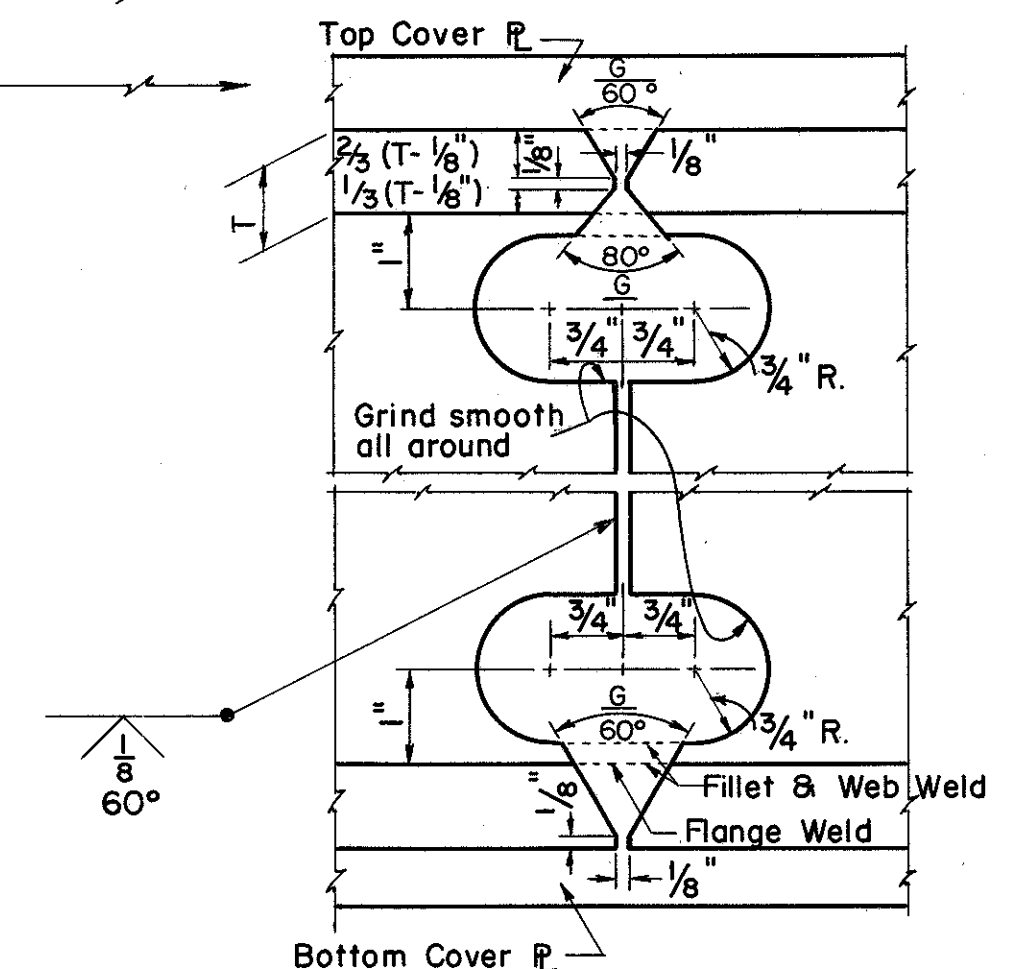
1. Raise end of beams at Pier No. 3, 2 5/8"
2. Butt weld beam flanges and web at Pier No. 2 using the following sequence make one pass on each flange, then two on the web; repeat, using one pass at each location, until welds are completed.
3. Weld top and bottom flange moment plates at Pier No. 2.
4. Lower end of beam at Pier No. 3.
5. Make splices at Pier No. 3 and Fwd. pier, in same manner, raising the ends of the beams 1/8" at Fwd. pier and 0 at Forward Abutment.
6. Then, make splice at Rear Pier in the same manner, raising the ends of the beams 1/8" at Rear Abutment.

REFERENCE shall be made to Standard Drawing CSB-2-56, Sheets 2 and 3 of 6, Revised 2-2-59 for details of end dams, gutters, pipe drains, scuppers, crossframes and beam splices.

REFERENCE shall be made to Standard Drawing FSB-1-62 revised 1-15-63 for details of bearings.

REFERENCE shall be made to Standard Drawing AR-1-57 revised 4-2-62 for details of aluminum railing and concrete parapet details.

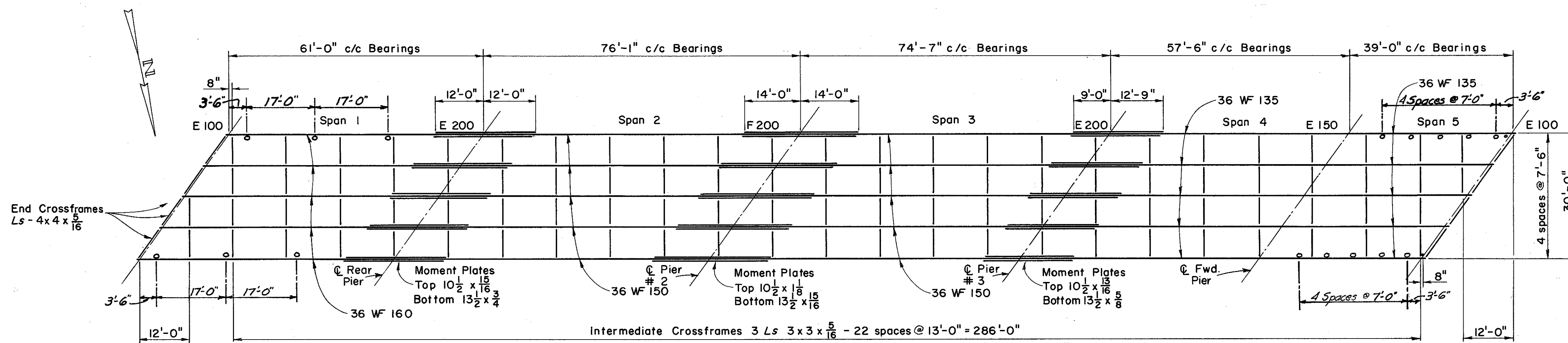
BEAM WEB WELDS: Butt welds in webs of beams may have convex reinforcement in accordance with Sect. S-7.22. Finishing flush by grinding is not required.



DETAIL OF BEAM SPLICE

CONTINUOUS BEAM SPLICES: If beams having depths differing by more than 1/8" are to be spliced by butt welding, the depth of the smaller depth beam shall be increased by splitting the web longitudinally at a distance of 1 1/2" below the bottom of the top flange and for a distance sufficient to allow the flange to be bent up at a slope of not more than 3/8" per foot, after which the split in the web shall be completely welded with full depth penetration and

ground flush. A 3/8" hole shall be drilled thru the web at the end of the split which is away from the splice prior to bending up the flange. The edges of the split shall be double bevelled to provide a weld bevel of 60°. The weld of the split shall be radiographed.



STEEL FRAMING PLAN

PREPARED BY
CAPITOL ENGINEERING ASSOCIATES, DILLSBURG, PA.
FOR

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

SUPERSTRUCTURE DETAILS
BRIDGE NO. LAK- 2-1748
RELOC. S.R. 2 UNDER RECONSTR. S.R. 535
LAKE COUNTY
STA. 822+70.56

DESIGNED M.C.P. R.J.A.	DRAWN M.J.F.	TRACED FWB	CHECKED L.L.D. M.J.F.	REVIEWED DATE G.S.W. M.C.P.	REVISED
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