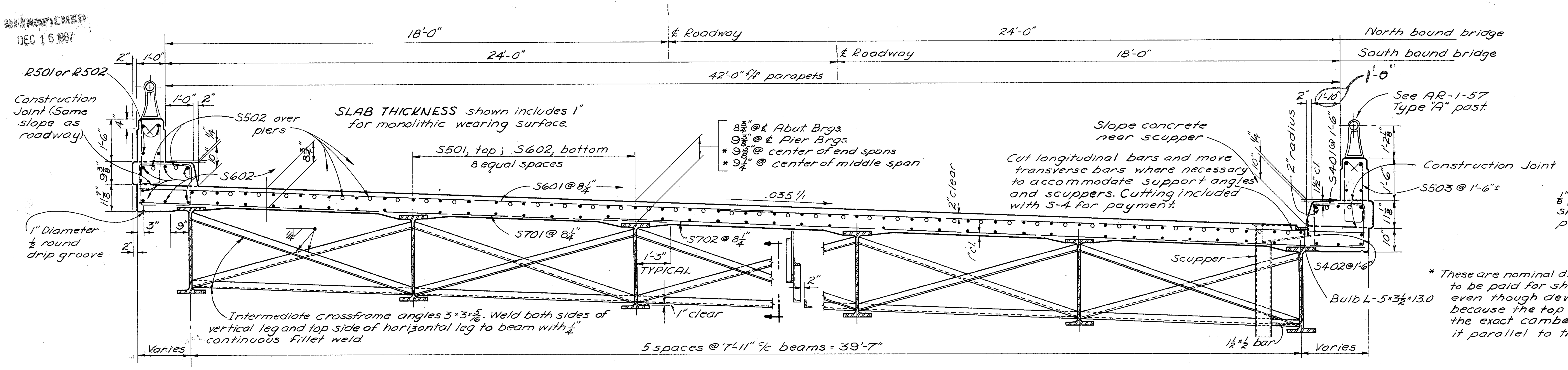
FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

191/204

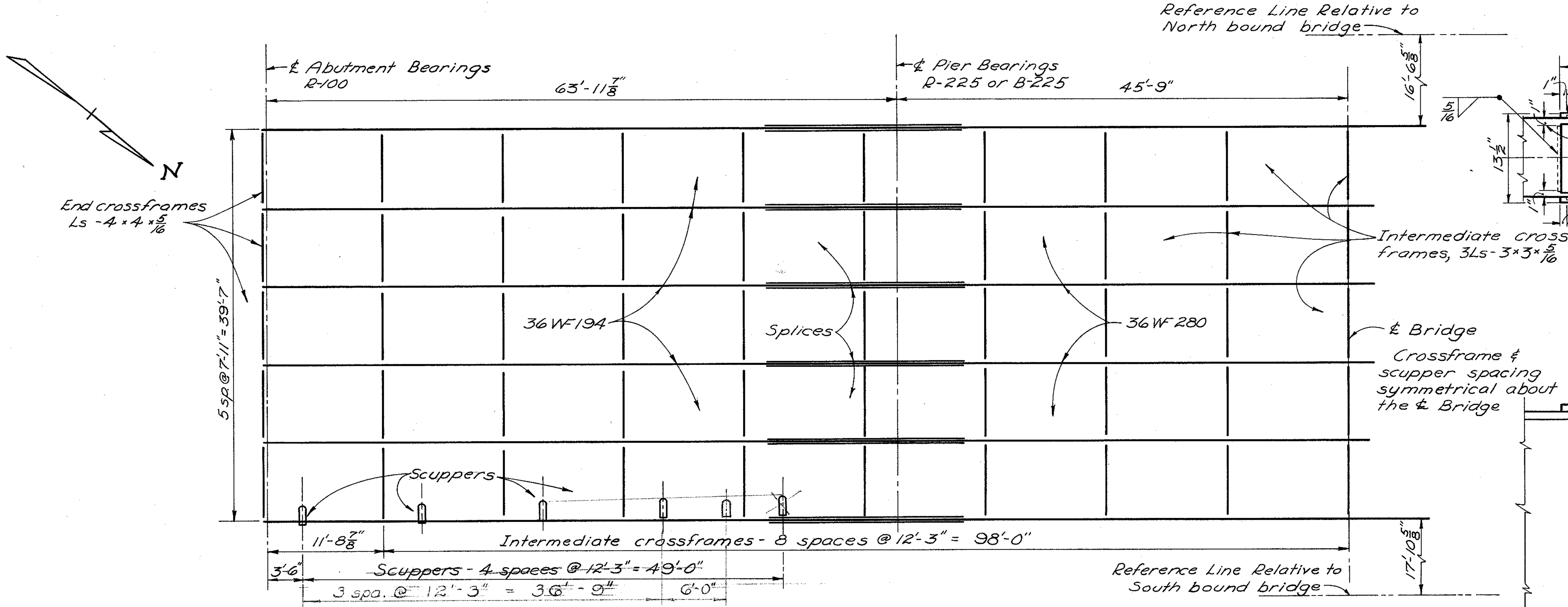
LAK - 44 - 3.79



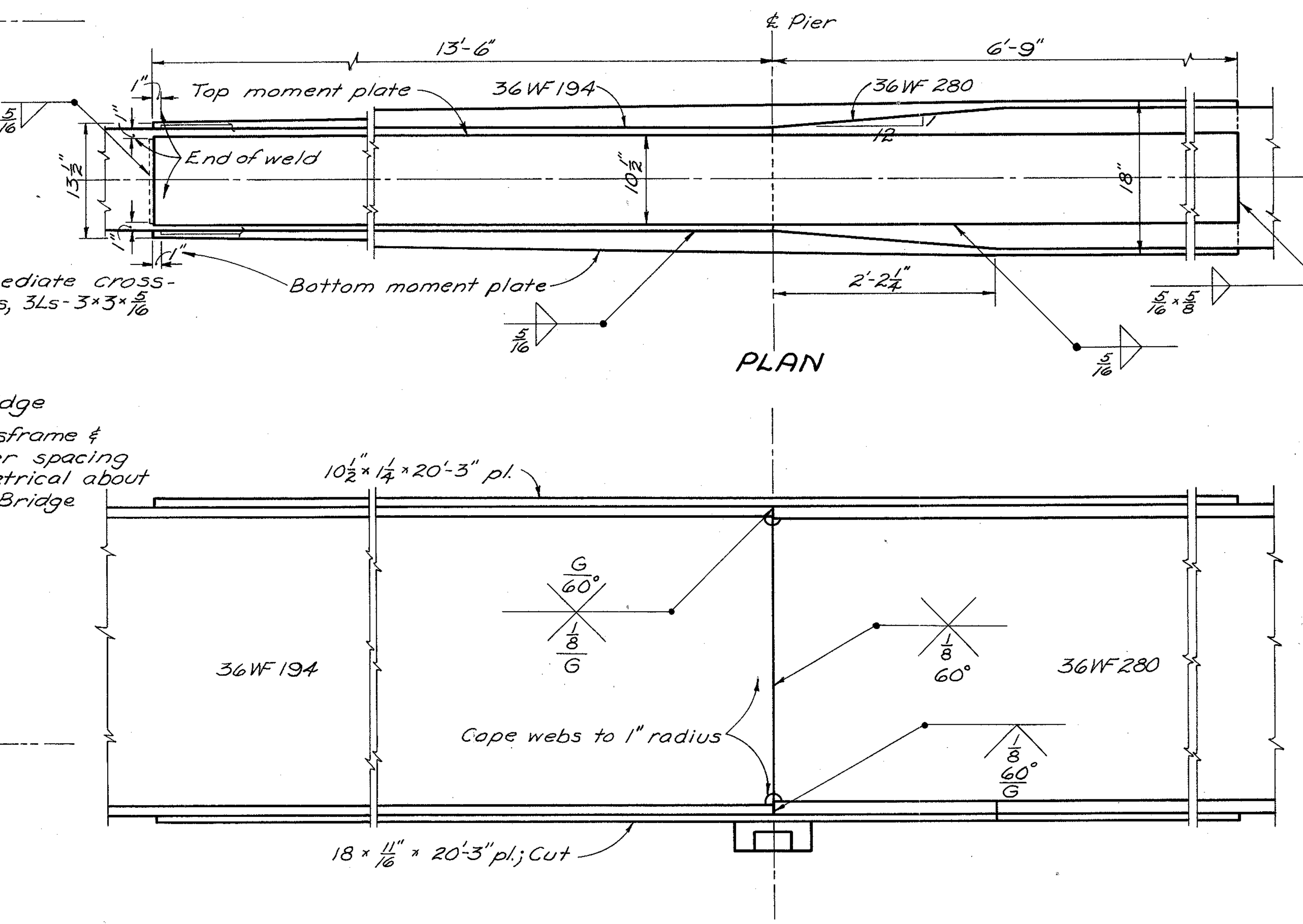
TRANSVERSE SECTION

⅛" pre-formed bearing pads, M-10.11, shall be placed under all railing posts.

* These are nominal dimensions. The quantity of deck concrete to be paid for shall be based on these dimensions, even though deviation from them will be necessary because the top flange of the beam will not have the exact camber or conformation required to place it parallel to the finished grade.



OUTLINE OF STEEL FRAMING



BEAM SPLICE DETAILS

CAMBERING of beams is required in accordance with the following table:

DEFLECTION AND CAMBER	Outside Beams		Inside Beams	
	End Span	Middle Span	End Span	Middle Span
Deflection due to weight of steel	1/16	5/16	1/16	5/16
Deflection due to remaining dead load	5/16	15/16	5/16	3/4
Convexity required for vertical curve	3/16	3/8	3/16	3/8
Sum of Deflection and Convexity	9/16	1 9/16	9/16	1 7/16
REQUIRED CAMBER	0"	1½	0"	1½

BEAM SPLICE WELDING PROCEDURE:

1. Raise the abutment ends of the beams 2".
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.
3. Weld the bottom and top moment plates.
4. Lower the beam ends to final position.

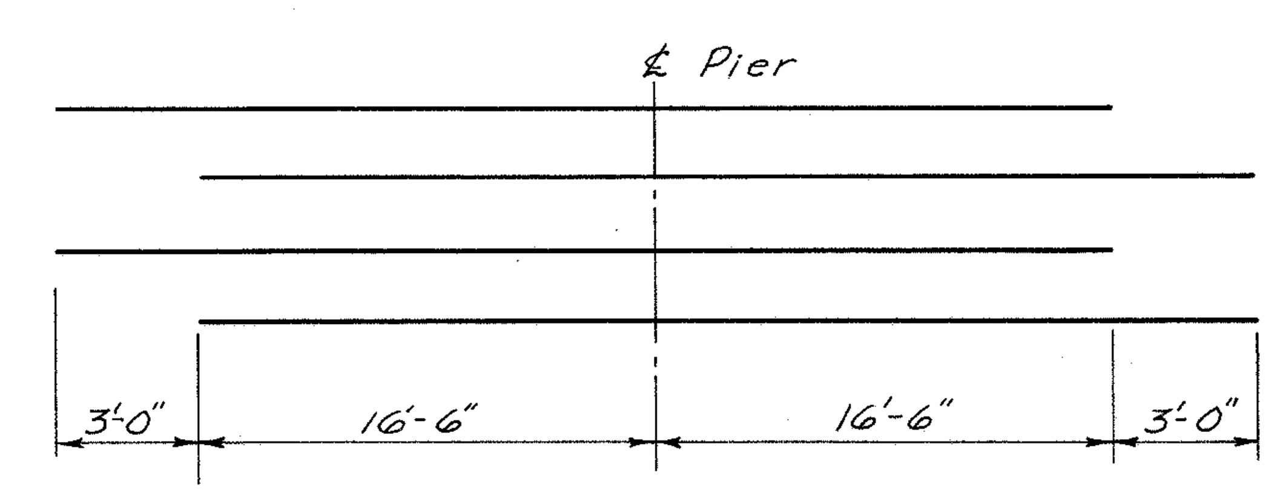


DIAGRAM SHOWING STAGGER OF S502 BARS OVER PIERS

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

SUPERSTRUCTURE DETAILS

BRIDGE NO. LAK-44-0556 L & R OVER N.Y.C. R.R.

STA. 310 + 14.33
312 + 38.33

LAKE COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
CPD	CPD	D. Mathys	Ray	BFG	6-7-61	4/5/62 7/24/62