

LAKE COUNTY
LAK-1-26.51
ASHTABULA COUNTY
ATB-1-0.00

REINFORCING STEEL LIST				
SUPERSTRUCTURE				
MK	Length	Shape	No	Weight
5401	5-2	Bent	526	1815
5402	4-10	Bent	532	1718
5403	1-4	Bent	532	474
5404	2-6	Bent	526	878
5405	16-6	Str.	112	1234
5406	13-2	Str.	16	141
5407	30-4	Str.	54	1094
5501	30-0	Str.	393	12297
5601	30-0	Str.	394	17754
5602	28-0	Str.	240	10093
5603	30-11	Str.	207	9612
5604	27-0	Str.	52	2109
5605	35-6	Str.	26	1386
			Total	60,605

REPLACEMENT BARS

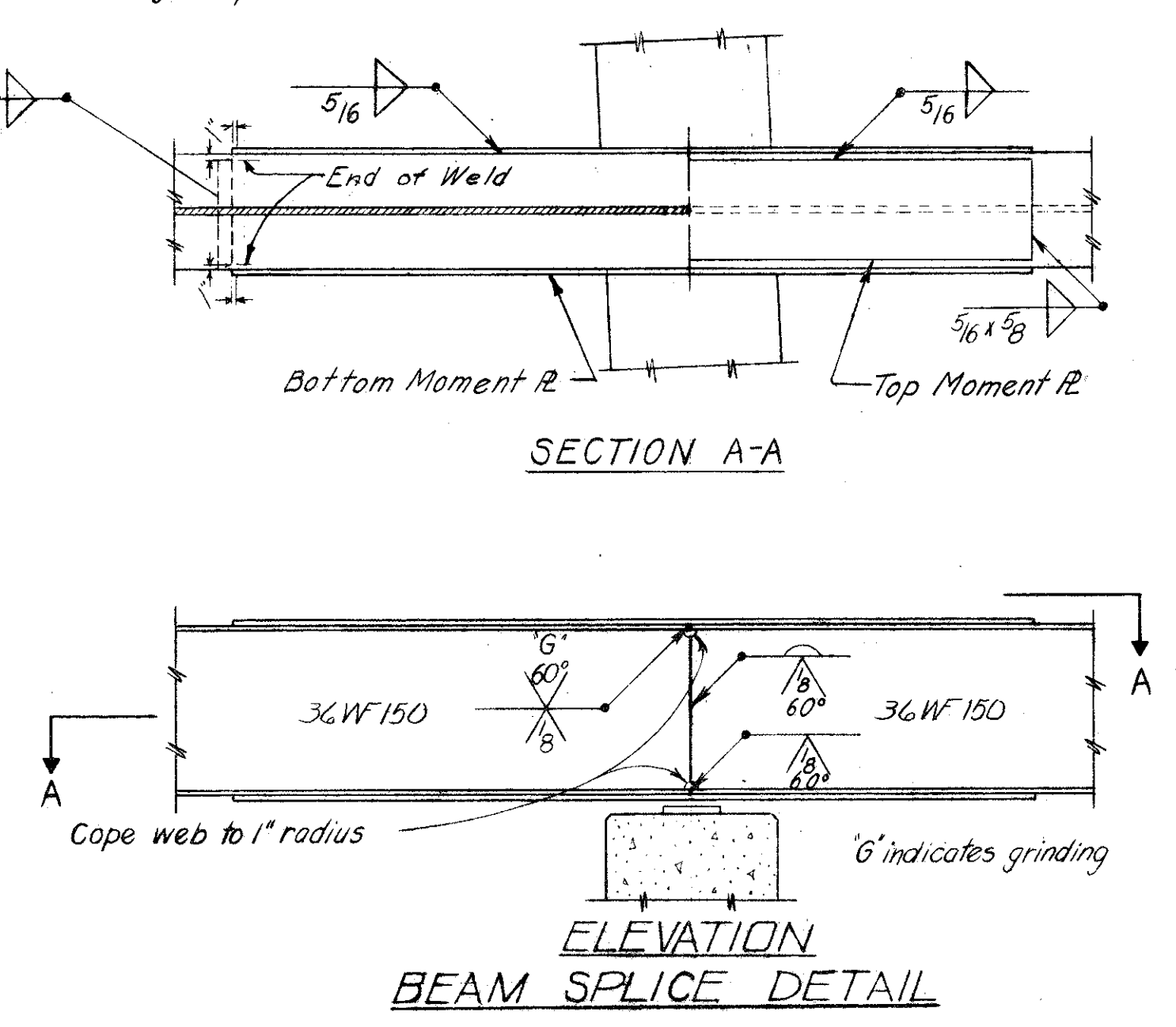
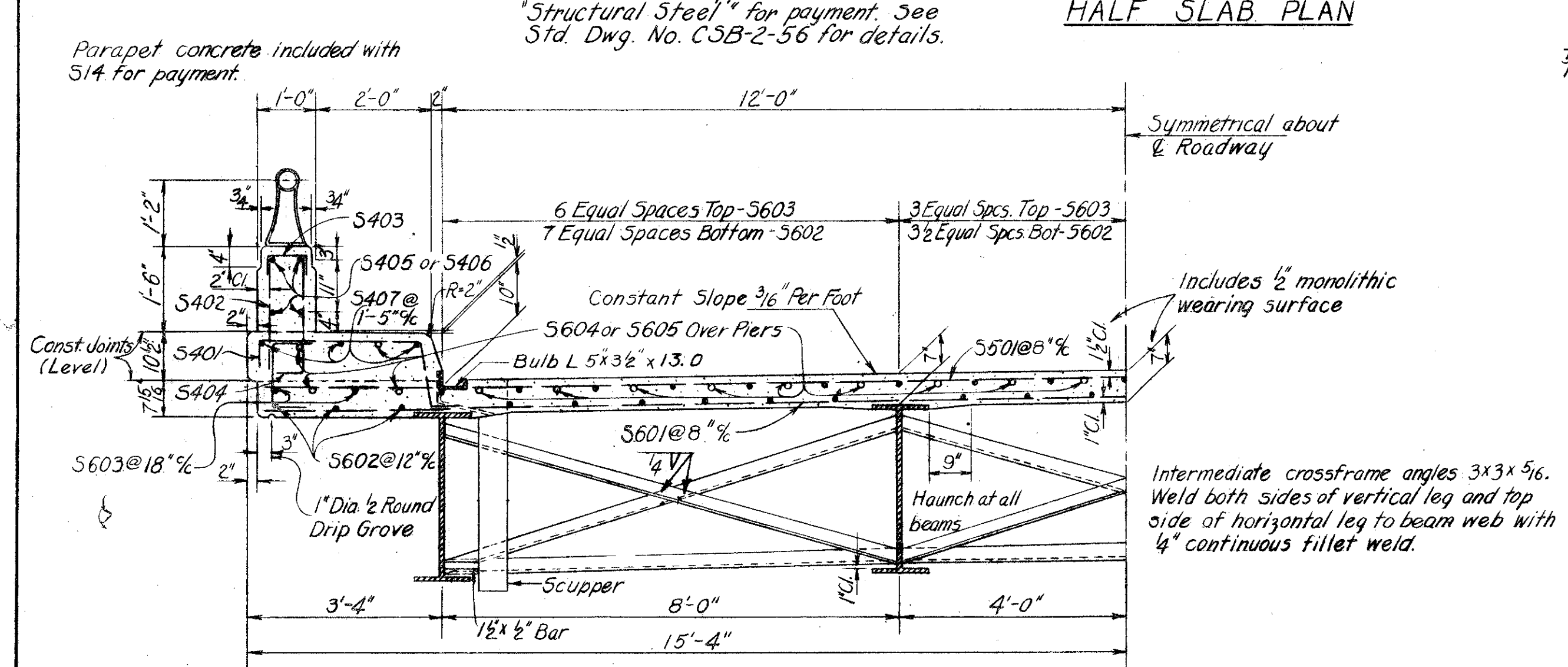
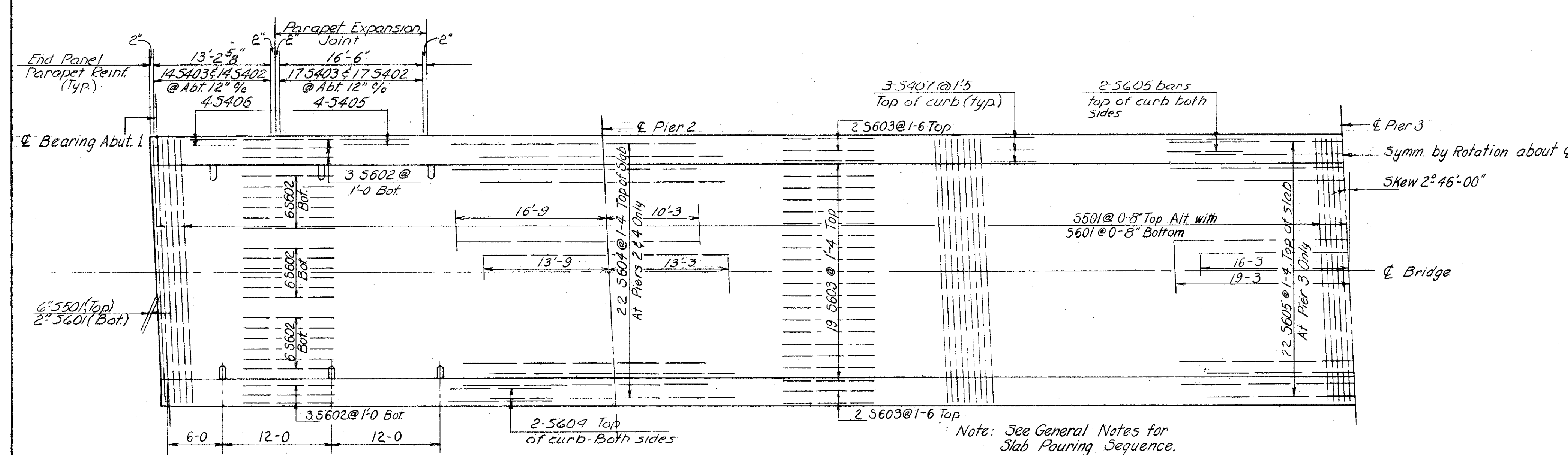
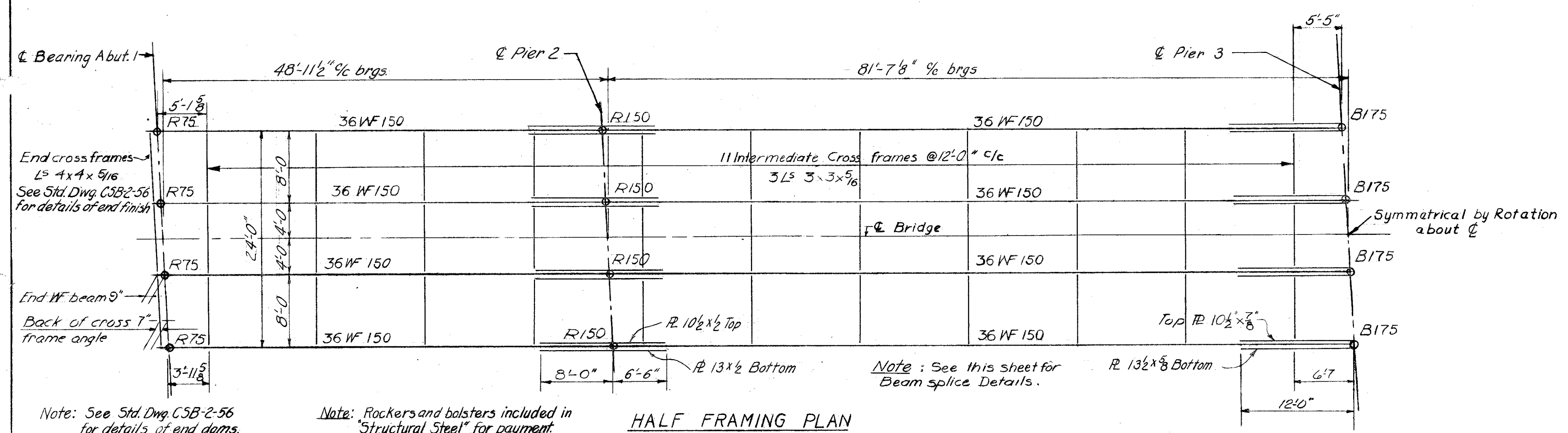
Mark	Length	Shape	No.
RB401	5'3"	Str.	1
RB501	5'7"	Str.	1
RB601	5'11"	Str.	3
RB701	6'3"	Str.	1
RB801	6'6"	Str.	1
RB901	6'10"	Str.	1
RB1101	7'7"	Str.	1

Note: REPLACEMENT BARS: If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, test samples as provided in Sec. 5-402 need not be furnished and replacement bars will not be required.

DEFLECTION AND CAMBER

Location	Outside Beam				Inside Beam			
	Span1	Span2	Span3	Span4	Span1	Span2	Span3	Span4
Deflection due to weight of steel	0	1/8	1/8	0	0	1/8	1/8	0
Deflection due to remaining dead load	1/8	1/16	1/16	1/16	0	1/2	1/2	0
Convexity required for vertical curve	1/16	1/16	1/16	1/16	1/16	1/16	1/16	1/16
Sum of deflection and convexity	2	2 3/8	2 3/8	2	1/16	1 1/8	1 1/8	1/16
Required camber	0	2 3/8	2 3/8	0	0	1 1/8	1 1/8	0

Where no camber is required the beams shall be so fabricated that any curved beam will be placed with convex flange up.



- BEAM SPLICE WELDING PROCEDURE:
- Erect span 2 and 3 beams first.
 - Raise the pier no.2 end of span no.2 beams 3 3/4".
 - Butt weld the beam flanges and webs at pier no.3 using the following sequence: Make one pass on each flange then one on the web; repeat until welds are complete.
 - Weld the bottom and top moment plates.
 - Lower the pier no.2 end of span no.2 to the final position.
 - Raise the abutment end of span no.1 3/4".
 - Repeat steps 3 and 4 at pier no.2.
 - Lower the abutment end of span no.1 to the final position.
 - Repeat steps 3, 4, 6, and 8 at pier no.4 and abutment no.5

CHARLES L. BARBER AND ASSOCIATES
HARRY BALLE ENGINEERS
TOLEDO, OHIO

SUPERSTRUCTURE DETAILS

BRIDGE N° ATB-1-0233
SRI UNDER LEFEVER RD.
ASHTABULA CO SR 1
STA 123+59.21

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
C.T.L.	W.S.		R.G.E.	A.C.A.	8/28/57	