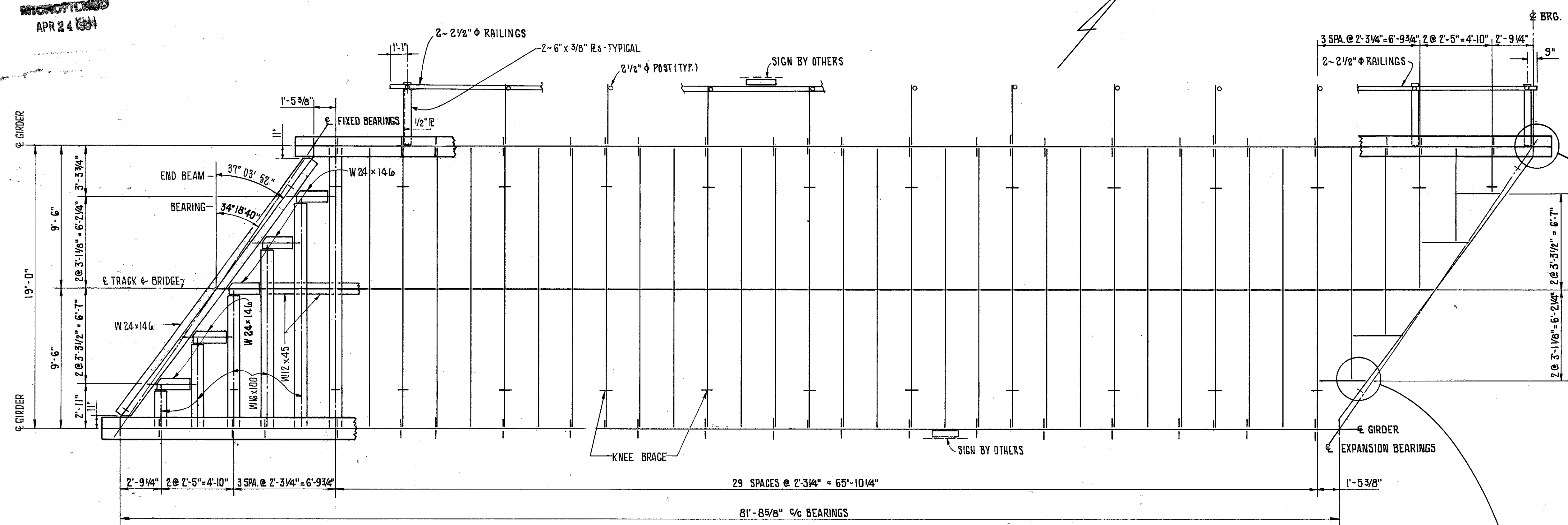


APR 24 1984

FHWA REGION	STATE	PROJECT	
5	OHIO		

69
101

LAKE COUNTY
LAK 306-615



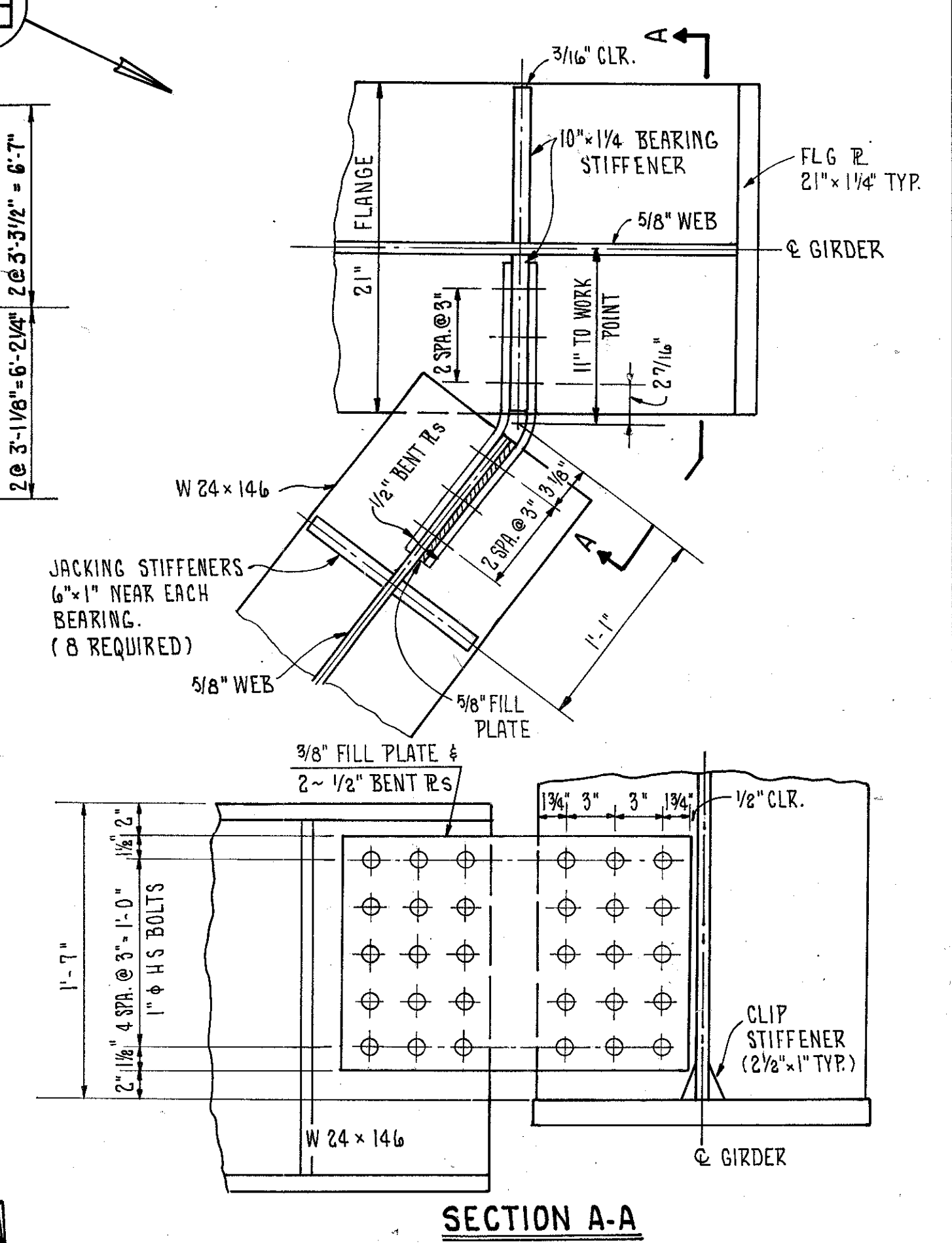
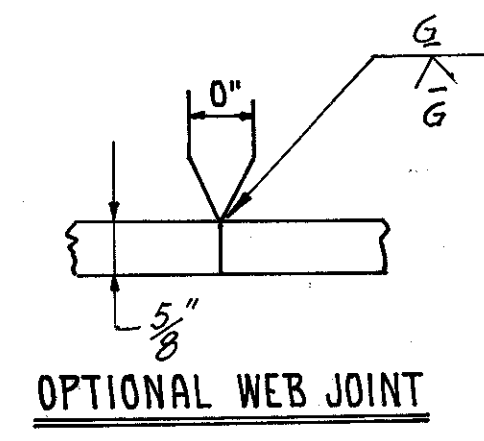
FRAMING PLAN

NOTE: FLOOR BEAMS WILL NOT EXCEPT AS NOTED.
DECK SLOPES TOWARDS REAR ABUTMENT AT 0.71%.

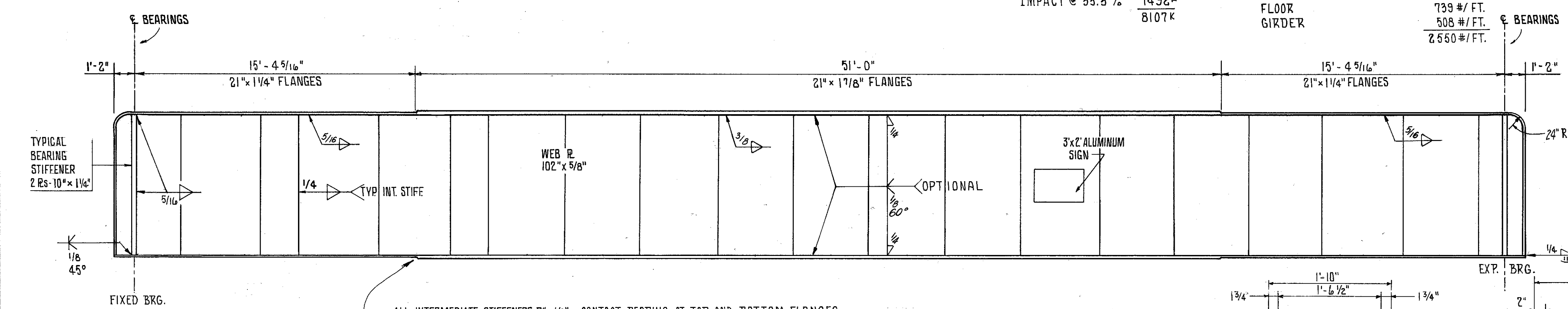
GIRDER DESIGN SUMMARY

LENGTH C.C. BEARING	81'-8 5/8"	WEB REQUIRED @ 12.5 KSI	35.2 in ²
SHEAR		WEB USED 102" x 5/8"	63.8 in ²
D.L.	103.4 K	BEARING ON MASONRY @ 1.00 KSI	440.4 in ²
L.L.	252.9 K	EFFECTIVE AREA USED	456.8 in ²
IMPACT @ 33.3%	84.1 K	Σ REQUIRED @ 20 KSI	486.4 in ²
	440.4 K	Σ USED	506.3 in ²
MOMENT		UNIT STRESS	19.2 KSI
D.L.	2129 K	ASSUMED DEAD LOADS PER GIRDER	
L.L.	4486 K	BALLAST & TRACK	1303 #/FT.
IMPACT @ 33.3%	1492 K	FLOOR	739 #/FT.
	8107 K	GIRDER	508 #/FT.
			2550 #/FT.

FLANGE BUTT WELDS SHALL BE COMPLETE PENETRATION. WELDS SHALL BE GROUND FLUSH, GRINDING BEING PARALLEL TO THE LONGITUDINAL AXIS OF THE GIRDER.

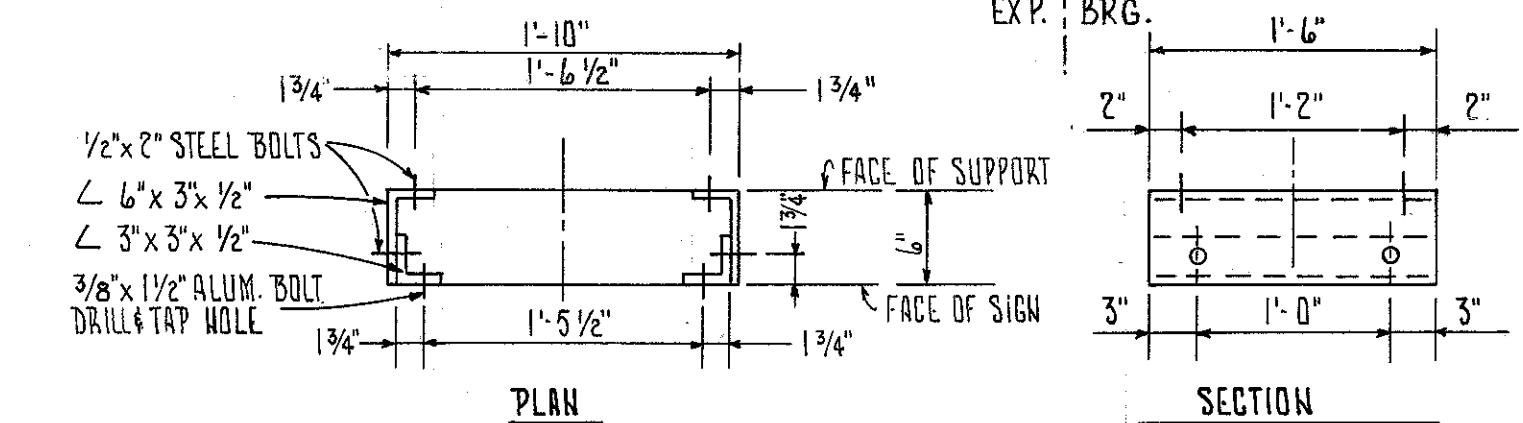
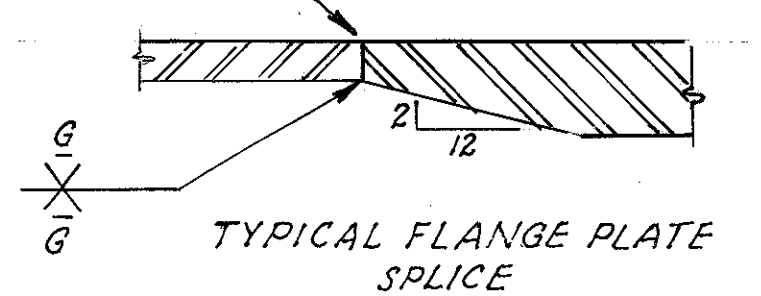


SECTION A-A

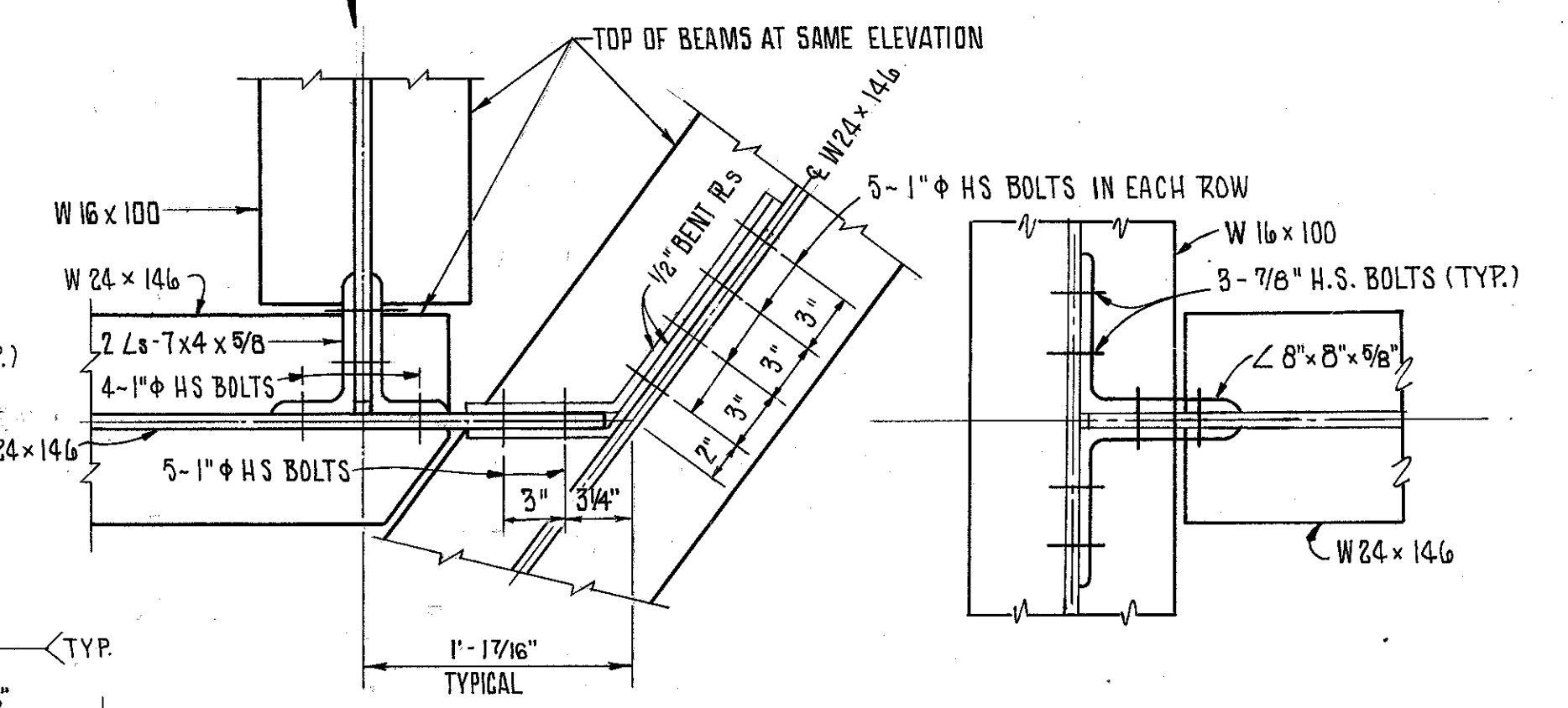


ELEVATION

ALL INTERMEDIATE STIFFENERS 7" x 1/2". CONTACT BEARING AT TOP AND BOTTOM FLANGES.



SIGN MOUNTING BRACKET (2 REQUIRED)



Revised 11-25-80

FRANKLIN CONSULTANTS INC.
COLUMBUS, OHIO

SUPERSTRUCTURE DETAILS

BRIDGE NO. LAK - 306 - 0635
S. R. 306 UNDER N. & W. RAILROAD

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HM	HM	GKS	SNL	JF	10/22/79	

BRUNING 44 132 388451