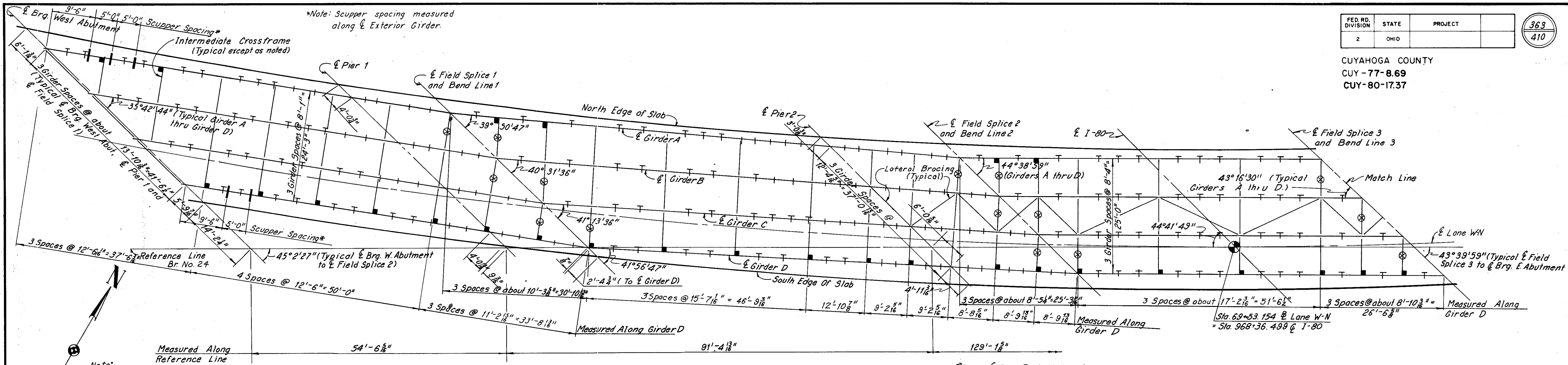


CUYAHOGA COUNTY  
CUY-77-8.69  
CUY-80-17.37



**Girder Notes:**

The girders shall be fabricated to compensate for the effects of dead load, vertical curvature and superelevation. The top of the girder shall parallel the profile of the roadway surface directly over the centerline of the girder.

The web plates may be shop spliced as required by available plate lengths. The location of shop web splices and the locations and details of any shop flange splices shall be submitted to the Director for approval prior to ordering of materials.

Intermediate stiffeners shall be placed as shown in the framing plan equally spaced between crossframes, or crossframes and bearing stiffeners, or crossframes and field splices. Stiffeners shall be placed in pairs and shall have contact bearing with the flange as indicated in the framing plan.

Bearing stiffeners at piers and abutments shall be placed in pairs on all girders. Intermediate stiffeners and bearing stiffeners at piers shall be normal to girder flange. Bearing stiffeners at abutments shall be vertical.

Top and bottom flange plates are to be the same.

All girder field splices shall be made with 1" high strength steel bolts. The bolts shall be placed with their heads on the outside face of exterior girders and on the bottom of the bottom flange plates.

The Contractor shall submit to the Director for approval three prints showing his proposed erection procedure.

For details of Rocker and Bolsters see Ohio Standard Drawing RB-1-55.

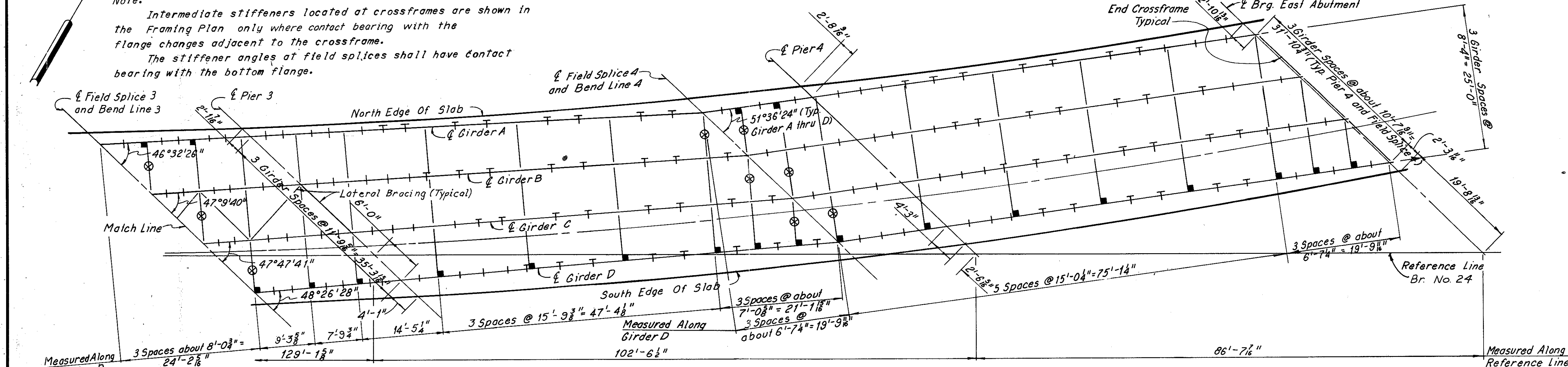
For Roadway End Dam, and End Crossframing Details see Ohio Standard Drawing SD-1-65, sheets 1 and 2 of 3. In the "Roadway End Dam Data" table use the dimensions under the heading CF=2000. The supporting angle shown in the "Roadway End Dam Data" shall be increased from 6x4x4 to 8x4x4 and the main angle shall be 8x4x1.

For drainage details see sheet CD1.

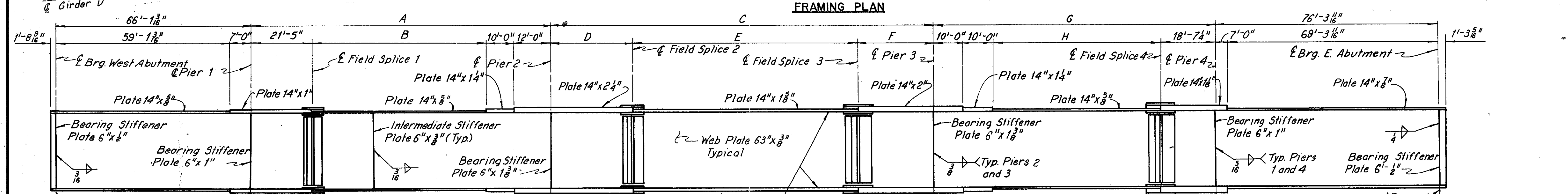
For details of intermediate and type "X" crossframes, see sheet 8/10.

For girder shop welding details see sheet CD1.

For underpass lighting details see Lighting Plans.



FRAMING PLAN



TYPICAL GIRDER ELEVATION

WELD SIZE	
Flange Plate Thickness	Fillet Weld Size
3/8"	3/8"
1/2", 1 1/8" and 1 1/4"	7/8"
1 1/2", 2" and 2 1/4"	1"

TABLE OF GIRDER DIMENSIONS							
Dimension	A	B	C	D	E	F	G
Girder A	102'-10 3/8"	59'-5 1/8"	130'-0 1/8"	27'-5 3/8"	76'-10 3/8"	25'-8 3/8"	96'-0 1/8"
Girder B	101'-8 1/2"	58'-3 1/2"	129'-9 1/8"	27'-1 1/8"	77'-3 1/8"	25'-5 1/4"	95'-3 1/8"
Girder C	100'-7"	57'-2"	129'-6 3/8"	26'-8 1/4"	77'-8 3/8"	25'-2 1/8"	94'-6"
Girder D	99'-5 3/8"	56'-0 3/8"	129'-4 1/8"	26'-4"	78'-1 1/8"	24'-11 1/8"	93'-8 3/8"

HORIZONTAL OFFSETS TO EDGE OF SLAB															
	& Brg. W. Abut.	1	2	3	& Field Splice 1	4	5	6	7	& Field Splice 2	8	9	10	& Field Splice 3	11
Girder A to North Edge Slab	3'-4 1/8"	2'-7 1/8"	2'-4"	2'-4 1/8"	2'-10 3/8"	1'-11 1/8"	1'-8 1/4"	1'-11 1/8"	2'-10 3/8"	2'-3 1/4"	1'-11 1/8"	1'-10 1/8"	2'-2 1/8"	1'-6 3/8"	1'-4 3/8"
Girder D to South Edge Slab	3'-3 3/8"	3'-5 3/8"	3'-1 1/8"	2'-6 1/4"	1'-6 1/8"	2'-7 3/4"	3'-1 3/8"	3'-1 3/8"	2'-10 3/8"	3'-14"	3'-0 1/8"	2'-8 1/8"	2'-10 3/8"	2'-11 1/8"	3'-5 1/4"

**Legend:**

⊗ Indicates Type "X" Crossframes

■ Indicates 90°

⊥⊥ Indicates intermediate stiffeners having contact bearing with the top flange

⊥⊥ Indicates intermediate stiffeners having contact bearing with the bottom flange.

H.N.T.B. BR. NO. 24

HOWARD, NEEDLES, TAMMEN & BERGENDOFF  
CONSULTING ENGINEERS  
KANSAS CITY CLEVELAND NEW YORK

**FRAMING PLAN  
AND GIRDER DETAILS**

LANE W-N OVER I-80

BR. NO. CUY-77-0917 STA. 67+16.17 TO STA. 71+89.34

CUYAHOGA COUNTY OHIO

DRAWN T.L.S. TRACED G.E.M. CHECKED C.H.D. REVIEWED W.F. REVISED

DATE 10-9-67 DATE 10-11-67 DATE 3-19-68 DATE 4-4-68

SHEET 7/10