

CURVED GIRDER LAYOUT

LAYOUT DIMENSIONS

Girder	℄ Brg. S. Abut.		℄ Splice 1		℄ Brg. Pier		℄ Splice 2		℄ Brg. N. Abut.	
	x	y	x	y	x	y	x	y	x	y
1	-132'-10 ⁵ / ₈ "	24'-4 ³ / ₄ "	-38'-8 ¹³ / ₁₆ "	22'-1 ¹ / ₂ "	-6'-8 ⁷ / ₁₆ "	21'-11 ¹ / ₁₆ "	25'-3 ³ / ₁₆ "	22'-0 ¹ / ₁₆ "	118'-1 ⁹ / ₁₆ "	23'-10 ¹ / ₂ "
2	-130'-3 ¹ / ₁₆ "	15'-9 ¹ / ₂ "	-36'-1 ⁹ / ₁₆ "	13'-7 ³ / ₁₆ "	-4'-1 ⁴ / ₁₆ "	13'-5"	27'-10 ⁷ / ₁₆ "	13'-6 ⁵ / ₁₆ "	120'-8 ⁷ / ₁₆ "	15'-5 ¹ / ₂ "
3	-127'-7 ¹ / ₂ "	7'-2 ⁵ / ₁₆ "	-33'-6 ¹ / ₄ "	5'-0 ⁷ / ₈ "	-1'-6 ¹ / ₁₆ "	4'-11"	30'-5 ³ / ₄ "	5'-0 ⁹ / ₁₆ "	123'-3 ⁵ / ₁₆ "	7'-0 ¹ / ₂ "
4	-124'-11 ¹⁵ / ₁₆ "	-1'-4 ⁷ / ₈ "	-30'-11"	-3'-5 ³ / ₈ "	1'-1 ¹ / ₈ "	-3'-7"	33'-1"	-3'-5 ³ / ₁₆ "	125'-10 ³ / ₁₆ "	-1'-4 ¹ / ₂ "
5	-122'-4 ⁷ / ₁₆ "	-10'-0"	-28'-3 ¹¹ / ₁₆ "	-11'-11 ¹¹ / ₁₆ "	3'-8 ⁵ / ₁₆ "	-12'-1"	35'-8 ¹ / ₄ "	-11'-10 ⁷ / ₈ "	128'-5 ¹ / ₁₆ "	-9'-9 ¹ / ₂ "
6	-119'-8 ⁷ / ₈ "	-18'-7 ¹ / ₈ "	-25'-8 ⁷ / ₁₆ "	-20'-5 ⁷ / ₈ "	6'-3 ¹ / ₂ "	-20'-6 ¹⁵ / ₁₆ "	38'-3 ⁹ / ₁₆ "	-20'-4 ⁹ / ₁₆ "	130'-11 ¹⁵ / ₁₆ "	-18'-2 ⁷ / ₁₆ "

GIRDER DIMENSIONS (IN FEET)

Girder	Radius	a	b	c	d	L
1	3564'-0 ⁵ / ₈ "	94'-2 ³ / ₁₆ "	32'-0 ³ / ₈ "	31'-11 ⁵ / ₈ "	92'-10 ⁵ / ₈ "	251'-0 ¹³ / ₁₆ "
2	3572'-6 ⁵ / ₈ "	94'-1 ¹³ / ₁₆ "	32'-0 ³ / ₈ "	31'-11 ⁵ / ₈ "	92'-10 ⁵ / ₁₆ "	251'-0 ¹ / ₈ "
3	3581'-0 ⁵ / ₈ "	94'-1 ⁹ / ₁₆ "	32'-0 ¹ / ₄ "	31'-11 ³ / ₄ "	92'-9 ⁷ / ₈ "	250'-11 ⁷ / ₁₆ "
4	3589'-6 ⁵ / ₈ "	94'-1 ³ / ₁₆ "	32'-0 ¹ / ₄ "	31'-11 ³ / ₄ "	92'-9 ⁹ / ₁₆ "	250'-10 ³ / ₄ "
5	3598'-0 ⁵ / ₈ "	94'-1"	32'-0 ¹ / ₁₆ "	31'-11 ¹⁵ / ₁₆ "	92'-9 ¹ / ₁₆ "	250'-10 ¹ / ₁₆ "
6	3606'-6 ⁵ / ₈ "	94'-0 ³ / ₄ "	31'-11 ¹⁵ / ₁₆ "	32'-0 ¹ / ₁₆ "	92'-8 ¹¹ / ₁₆ "	250'-9 ⁷ / ₁₆ "

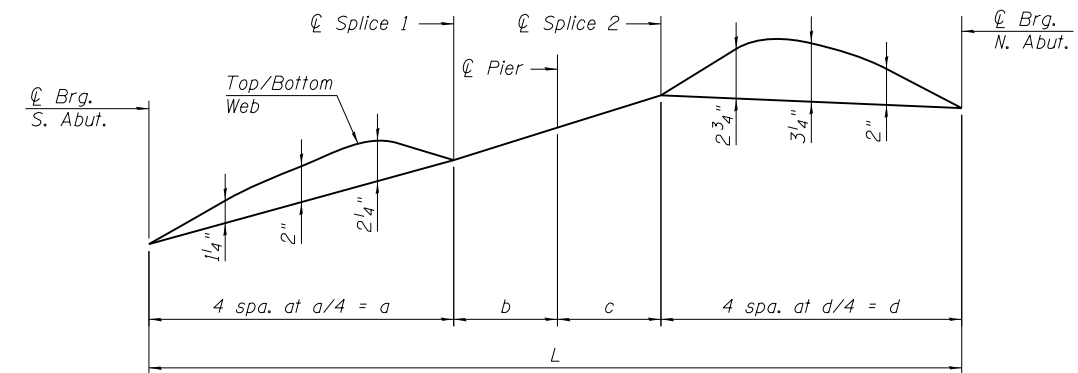
Notes:

The calculated deflections of the primary girders/beams under steel self-weight shall be used to detail the diaphragm, cross frame and lateral bracing connections, and erect the structural steel such that the girders/beams will be plumb within a tolerance of ±¹/₈ in. per vertical ft. throughout supporting their own weight.

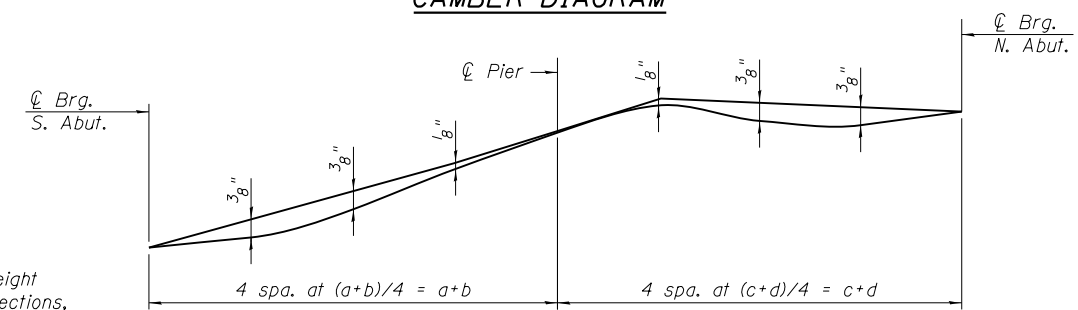
The Contractor shall either:

1. Ream diaphragm and / or cross frame holes during shop assembly, or
2. Provide detailing and fabrication controls acceptable to the Engineer which ensured accuracy such that field reaming will not exceed the amount permitted in Article 505.08(1) of the Standard Specifications.

The Contractor shall submit a Project-Specific Erection Plan for approval by the Engineer prior to ordering any material. The erection plan, drawings, and calculations shall be signed and sealed by a Illinois Licensed Structural Engineer. See Special Provisions.



CAMBER DIAGRAM



**DEAD LOAD DEFLECTION
STEEL SELF-WEIGHT ONLY**