

**GIRDER DIMENSIONS**

(Measured along C girders)

Girder	Radius	a	b	c	d	e	f	g	h	i	p
1	787.27'	81'-2 1/2"	23'-6 3/8"	19'-0"	15'-6"	21'-9"	103'-0"	123'-8 7/8"	140'-3"	263'-11 7/8"	79'-9 1/2"
2	781.44'	80'-7 3/8"	23'-2 5/8"	19'-0"	15'-6"	21'-5 3/4"	102'-2 3/4"	122'-10"	139'-2 1/2"	262'-0 3/8"	79'-2 3/8"
3	775.61'	80'-0 9/8"	22'-10 7/8"	19'-0"	15'-6"	21'-2 3/8"	101'-5 5/8"	121'-11"	138'-2"	260'-1"	78'-7 1/4"
4	769.77'	79'-4 7/8"	22'-7 7/8"	19'-0"	15'-6"	20'-11 7/8"	100'-8 3/8"	121'-0"	137'-1 1/2"	258'-1 1/2"	78'-0 1/4"
5	763.94'	78'-9 5/8"	22'-3 3/8"	19'-0"	15'-6"	20'-7 3/4"	99'-11 3/8"	120'-1"	136'-1 1/8"	256'-2"	77'-5 1/8"
6	758.11'	78'-2 1/2"	21'-11 1/2"	19'-0"	15'-6"	20'-4 1/2"	99'-2 1/8"	119'-2"	135'-0 5/8"	254'-2 1/2"	76'-10"
7	752.27'	77'-7 1/4"	21'-7 5/8"	19'-0"	15'-6"	20'-1 1/8"	98'-5"	118'-2 7/8"	134'-0 1/8"	252'-3 3/8"	76'-2 7/8"
8	746.44'	77'-0"	21'-3 3/8"	19'-0"	15'-6"	19'-9 7/8"	97'-7 3/4"	117'-3 7/8"	132'-11 5/8"	250'-3 5/8"	75'-7 7/8"

**LAYOUT DIMENSIONS**

Girder	C Brg. S. Abut.		C Splice 1		C Pier		C Splice 2		C Brg. N. Abut.	
	X	Y	X	Y	X	Y	X	Y	X	Y
1	-123'-2 7/8"	14'-1 1/2"	-42'-6 1/4"	22'-8 1/4"	0'-0"	23'-10"	37'-2 7/8"	22'-11 3/8"	139'-6"	11'-4 1/2"
2	-122'-3 7/8"	8'-4 3/8"	-42'-2 3/8"	16'-10 3/8"	0'-0"	18'-0"	36'-11 5/8"	17'-1 1/2"	138'-5 5/8"	5'-7 5/8"
3	-121'-4 7/8"	2'-7 1/4"	-41'-10 5/8"	11'-0 3/8"	0'-0"	12'-2"	36'-8 1/4"	11'-3 5/8"	137'-5 1/4"	0'-1 1/4"
4	-120'-6"	-3'-1 7/8"	-41'-6 7/8"	5'-2 1/2"	0'-0"	6'-4"	36'-5"	5'-5 5/8"	136'-4 7/8"	-5'-10 1/8"
5	-119'-7"	-8'-11"	-41'-3 1/8"	-0'-7 3/8"	0'-0"	0'-6"	36'-1 5/8"	-0'-4 1/4"	135'-4 1/2"	-11'-7 1/8"
6	-118'-8"	-14'-8 1/8"	-40'-11 1/4"	-6'-5 1/4"	0'-0"	-5'-4"	35'-10 3/8"	-6'-2 1/8"	134'-4"	-17'-4"
7	-117'-9 1/8"	-20'-5 1/4"	-40'-7 1/2"	-12'-3 1/8"	0'-0"	-11'-2"	35'-7"	-12'-0 1/8"	133'-3 5/8"	-23'-0 7/8"
8	-116'-10 1/8"	-26'-2 3/8"	-40'-3 5/8"	-18'-1 1/8"	0'-0"	-17'-0"	35'-3 3/4"	-17'-10"	132'-3 1/4"	-28'-9 3/4"

**CROSS FRAME SPACING**

Girder	CFS1	CFS2	CFS3	CFS4	CFS5	CFS6
1	21'-1 1/8"	105'-5 5/8"	18'-3 1/4"	23'-2 1/2"	116'-0 1/2"	24'-2 1/2"
2	20'-11 1/4"	104'-8 1/4"	18'-1 3/4"	23'-0 3/8"	115'-1 1/8"	24'-0 5/8"
3	20'-9 3/8"	103'-10 7/8"	18'-0 9/8"	22'-10 3/8"	114'-3 7/8"	23'-10 9/8"
4	20'-7 1/2"	103'-1 1/2"	17'-10 1/2"	22'-8 1/4"	113'-5 1/4"	23'-8 1/4"
5	20'-5 5/8"	102'-4 1/8"	17'-8 1/8"	22'-6 1/4"	112'-7 1/4"	23'-5 7/8"
6	20'-3 3/4"	101'-6 3/4"	17'-7 1/4"	22'-4 1/8"	111'-8 5/8"	23'-4"
7	20'-1 7/8"	100'-9 3/8"	17'-5 1/2"	22'-2 1/8"	110'-10 5/8"	23'-1 1/2"
8	20'-0"	100'-0"	17'-3 7/8"	22'-0"	110'-0"	22'-11 5/8"

**TOP OF WEB ELEVATIONS\***

Girder	C Brg. S. Abut.	C Field splice 1	C Brg. Pier	C Field splice 2	C Brg. N. Abut.
1	753.67	757.33	758.32	759.18	758.66
2	753.78	757.44	758.42	759.28	758.78
3	753.81	757.47	758.43	759.29	758.79
4	753.72	757.39	758.35	759.19	758.71
5	753.63	757.30	758.26	759.09	758.62
6	753.55	757.21	758.16	758.99	758.54
7	753.45	757.13	758.07	758.89	758.44
8	753.37	757.04	757.98	758.79	758.36

\* For fabrication only.

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

Girder	Span 1			Span 2		
	0.25	0.5	0.75	0.25	0.5	0.75
1	3/8"	3/8"	0	3/4"	1 1/2"	1 1/4"
2	3/8"	3/8"	0	3/4"	1 3/8"	1 1/8"
3	3/8"	3/8"	0	5/8"	1 3/8"	1 1/8"
4	3/8"	3/8"	0	5/8"	1 1/4"	1"
5	3/8"	3/8"	0	1/2"	1 1/8"	1"
6	3/8"	3/8"	0	1/2"	1"	7/8"
7	3/8"	3/8"	0	1/2"	1"	7/8"
8	3/8"	3/8"	0	3/8"	7/8"	3/4"

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

The Contractor shall either:

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

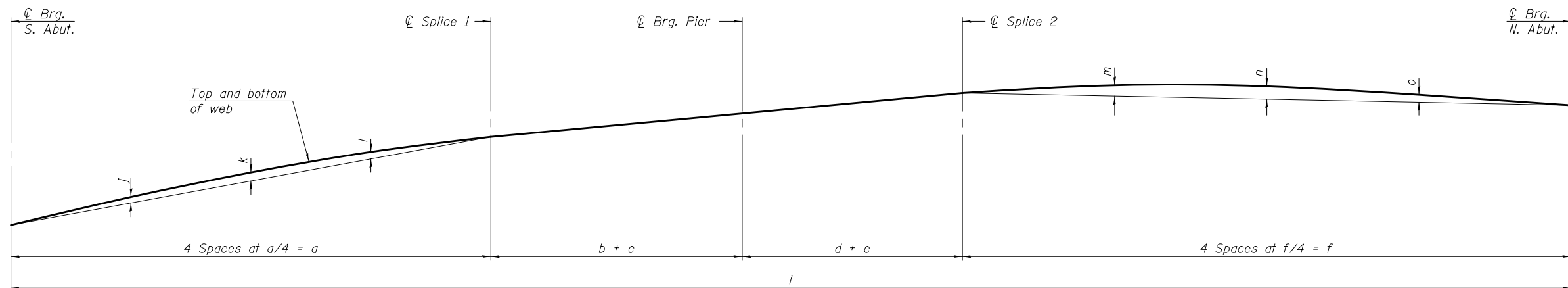
**CAMBER DIMENSIONS**

Girder	j	k	l	m	n	o
1	3"	4 1/4"	3 1/2"	5 1/2"	6 1/2"	3 3/4"
2	3"	4 1/4"	3 1/2"	5 1/2"	6 1/2"	3 3/4"
3	3"	4 1/4"	3 1/2"	5 1/2"	6 1/2"	3 3/4"
4	3"	4 1/4"	3 1/2"	5 1/2"	6 1/2"	3 3/4"
5	3"	4 1/4"	3 1/2"	4 3/4"	5 3/4"	3 3/4"
6	3"	4 1/4"	3 1/2"	4 3/4"	5 3/4"	3 1/4"
7	3"	4 1/4"	3 1/2"	4 3/4"	5 3/4"	3 1/4"
8	3"	4 1/4"	3 1/2"	4 3/4"	5 3/4"	3 1/4"

**STUD SHEAR CONNECTOR SPACING**

Girder	s1	s2	s3	s4
1	47	24	19	55
2	47	24	19	55
3	47	24	19	55
4	47	24	19	54
5	46	24	19	54
6	46	24	19	53
7	46	24	19	53
8	45	23	19	53

Do not place stud shear connectors on splice plates. Move stud shear connectors that fall on a splice plate at the spacing shown to provide 6" minimum to the edge of the splice plate.



**CAMBER DIAGRAM**