

**DEAD LOAD DEFLECTION DIAGRAM**

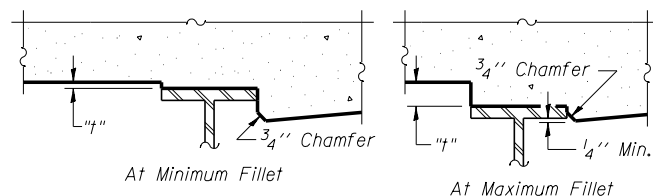
(Includes weight of concrete only.)

**Note:**

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on SG21 & SG22.

**DEAD LOAD DEFLECTION TABLE**

Beam	1A	1B	1C	2A	2B	2C	D	E
C1	1/4"	1/4"	0"	3/8"	3/4"	5/8"	17'-0 3/16"	68'-0 3/4"
C2	1/4"	1/4"	1/8"	1/4"	1/2"	3/8"	16'-4 7/8"	65'-7 1/16"
C3	1/4"	1/4"	1/8"	1/4"	1/2"	3/8"	15'-5 3/8"	61'-8 1/16"
C4	1/4"	1/4"	1/8"	1/8"	1/4"	1/4"	14'-5 3/8"	57'-9 1/2"
C5	1/4"	1/4"	1/8"	1/8"	1/4"	1/4"	13'-5 3/8"	53'-10 1/2"
C6	1/4"	3/8"	1/8"	0"	1/8"	1/8"	12'-5 3/8"	49'-11 3/16"
C7	1/4"	3/8"	1/8"	0"	1/8"	1/8"	11'-6 3/16"	46'-0 5/8"



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown herein. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown herein, minus slab thickness, equals the fillet heights "t" above top flange of beams.

**FILLET HEIGHTS**

**LONGITUDINAL JOINT**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Centerline Pier 5	32+71.52	-22.00	624.80	624.80
Centerline N. Brg. Pier 5	32+72.79	-22.00	624.79	624.79
6A	32+82.79	-22.00	624.79	624.80
6B	32+92.79	-22.00	624.75	624.77
6C	33+02.79	-22.00	624.71	624.73
6D	33+12.79	-22.00	624.68	624.68
6E	33+22.79	-22.00	624.64	624.64
Centerline Brg. Pier 6	33+28.77	-22.00	624.62	624.62
7A	---	---	---	---
7B	---	---	---	---
7C	---	---	---	---
7D	---	---	---	---
7E	---	---	---	---
7F	---	---	---	---
Centerline S. Brg. Pier 7	---	---	---	---
Centerline Pier 7	---	---	---	---

**BEAM C1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Centerline Pier 5	32+71.06	-20.00	624.83	624.83
Centerline N. Brg. Pier 5	32+71.83	-20.00	624.83	624.83
6A	32+81.83	-20.00	624.81	624.83
6B	32+91.83	-20.00	624.77	624.79
6C	33+01.83	-20.00	624.74	624.75
6D	33+11.83	-20.00	624.70	624.71
6E	33+21.83	-20.00	624.66	624.66
Centerline Brg. Pier 6	33+28.31	-20.00	624.64	624.64
7A	33+38.31	-20.00	624.58	624.60
7B	33+48.31	-20.00	624.50	624.55
7C	33+58.31	-20.00	624.45	624.51
7D	33+68.31	-20.00	624.41	624.48
7E	33+78.31	-20.00	624.38	624.43
7F	33+88.31	-20.00	624.34	624.37
Centerline S. Brg. Pier 7	33+96.37	-20.00	624.31	624.31
Centerline Pier 7	33+97.79	-20.00	624.31	624.31

**BEAM C2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Centerline Pier 5	32+70.13	-15.99	624.88	624.88
Centerline N. Brg. Pier 5	32+70.90	-15.99	624.88	624.88
6A	32+80.90	-15.99	624.86	624.87
6B	32+90.90	-15.99	624.82	624.84
6C	33+00.90	-15.99	624.78	624.80
6D	33+10.90	-15.99	624.74	624.76
6E	33+20.90	-15.99	624.71	624.71
Centerline Brg. Pier 6	33+27.38	-15.99	624.68	624.68
7A	33+37.38	-15.99	624.64	624.65
7B	33+47.38	-15.99	624.58	624.60
7C	33+57.38	-15.99	624.53	624.57
7D	33+67.38	-15.99	624.49	624.53
7E	33+77.38	-15.99	624.46	624.49
7F	33+87.38	-15.99	624.42	624.44
Centerline S. Brg. Pier 7	33+92.99	-15.99	624.40	624.40
Centerline Pier 7	33+94.41	-15.99	624.40	624.40

**EAST GORE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Centerline Pier 5	32+69.21	-12.00	624.95	624.95
Centerline N. Brg. Pier 5	32+69.98	-12.00	624.94	624.94
6A	32+79.98	-12.00	624.90	624.92
6B	32+89.98	-12.00	624.87	624.89
6C	32+99.98	-12.00	624.83	624.85
6D	33+09.98	-12.00	624.79	624.80
6E	33+19.98	-12.00	624.75	624.75
Centerline Brg. Pier 6	33+26.46	-12.00	624.73	624.73
7A	---	---	---	---
7B	---	---	---	---
7C	---	---	---	---
7D	---	---	---	---
7E	---	---	---	---
Centerline S. Brg. Pier 7	---	---	---	---
Centerline Pier 7	---	---	---	---

**NOTE:**

Offset measured from SB IL-171 & P.G.L.

FILE NAME = 0160486.60J16.021.TOS.Elev.6and7.dgn	USER NAME = jsurber	DESIGNED - TJJ	REVISED -
		CHECKED - LRB	REVISED -
		DRAWN - TJJ	REVISED -
		CHECKED - LRB	REVISED -

F.A.P. RTE. 373	SECTION 2013-038B-R	COUNTY COOK	TOTAL SHEETS 821	SHEET NO. 611
CONTRACT NO. 60J16				
SHEET NO. SG21 OF SG100 SHEETS				
ILLINOIS FED. AID PROJECT				