

DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete and railing 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 below.

BEAM 1

Location	Station	Offset Lt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	59+17.09	12.50	777.23	777.23
☉ Brg. S. Abut.	59+18.53	12.50	777.24	777.24
A	59+28.53	12.50	777.29	777.38
B	59+38.53	12.50	777.34	777.50
C	59+48.53	12.50	777.38	777.60
D	59+58.53	12.50	777.41	777.67
E	59+68.53	12.50	777.44	777.71
F	59+78.53	12.50	777.46	777.71
G	59+88.53	12.50	777.47	777.69
H	59+98.53	12.50	777.48	777.63
I	60+08.53	12.50	777.48	777.56
☉ Brg. N. Abut.	60+17.03	12.50	777.48	777.48
Bk. of N. Abut.	60+18.47	12.50	777.48	777.48

BEAM 2

Location	Station	Offset Lt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	59+20.70	6.25	777.38	777.38
☉ Brg. S. Abut.	59+22.14	6.25	777.39	777.39
A	59+32.14	6.25	777.43	777.51
B	59+42.14	6.25	777.48	777.62
C	59+52.14	6.25	777.51	777.71
D	59+62.14	6.25	777.54	777.78
E	59+72.14	6.25	777.57	777.81
F	59+82.14	6.25	777.59	777.82
G	59+92.14	6.25	777.60	777.79
H	60+02.14	6.25	777.61	777.74
I	60+12.14	6.25	777.61	777.67
☉ Brg. N. Abut.	60+20.64	6.25	777.60	777.60
Bk. of N. Abut.	60+22.08	6.25	777.60	777.60

BEAM 3

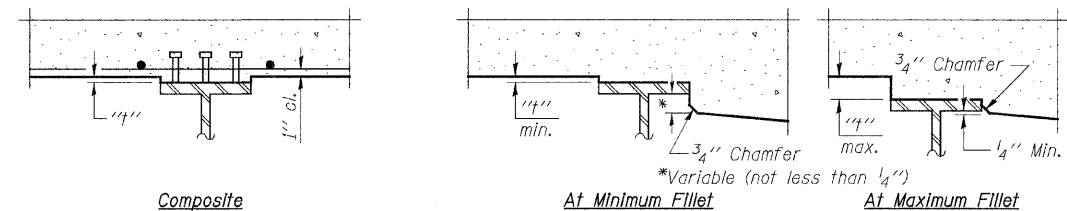
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	59+24.31	0.00	777.52	777.52
☉ Brg. S. Abut.	59+25.75	0.00	777.53	777.53
A	59+35.75	0.00	777.58	777.65
B	59+45.75	0.00	777.62	777.76
C	59+55.75	0.00	777.65	777.85
D	59+65.75	0.00	777.68	777.91
E	59+75.75	0.00	777.70	777.95
F	59+85.75	0.00	777.72	777.95
G	59+95.75	0.00	777.73	777.92
H	60+05.75	0.00	777.73	777.87
I	60+15.75	0.00	777.73	777.80
☉ Brg. N. Abut.	60+24.25	0.00	777.73	777.73
Bk. of N. Abut.	60+25.69	0.00	777.72	777.72

BEAM 4

Location	Station	Offset Rt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	59+27.92	6.25	777.41	777.41
☉ Brg. S. Abut.	59+29.36	6.25	777.42	777.42
A	59+39.36	6.25	777.47	777.54
B	59+49.36	6.25	777.50	777.65
C	59+59.36	6.25	777.54	777.74
D	59+69.36	6.25	777.56	777.80
E	59+79.36	6.25	777.58	777.83
F	59+89.36	6.25	777.60	777.83
G	59+99.36	6.25	777.61	777.80
H	60+09.36	6.25	777.61	777.74
I	60+19.36	6.25	777.60	777.67
☉ Brg. N. Abut.	60+27.86	6.25	777.60	777.60
Bk. of N. Abut.	60+29.30	6.25	777.60	777.60

BEAM 5

Location	Station	Offset Rt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	59+31.53	12.50	777.31	777.31
☉ Brg. S. Abut.	59+32.97	12.50	777.31	777.31
A	59+42.97	12.50	777.36	777.44
B	59+52.97	12.50	777.39	777.55
C	59+62.97	12.50	777.42	777.64
D	59+72.97	12.50	777.45	777.71
E	59+82.97	12.50	777.46	777.73
F	59+92.97	12.50	777.48	777.73
G	60+02.97	12.50	777.48	777.70
H	60+12.97	12.50	777.48	777.63
I	60+22.97	12.50	777.48	777.55
☉ Brg. N. Abut.	60+31.47	12.50	777.47	777.47
Bk. of N. Abut.	60+32.91	12.50	777.47	777.47



Composite INTERIOR BEAMS

At Minimum Fillet

At Maximum Fillet

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

FILLET HEIGHTS

FILE NAME = S:\PROJECTS\2010\1051D10_Bureau\CHIN\DESIGN\STRUCT\Drawings\1051D10_TopofSlabElevations.dgn

USER NAME =	DESIGNED - M. C. WAGNER	REVISED -
PLOT SCALE =	CHECKED - B. K. CONVERSE	REVISED -
PLOT DATE =	DRAWN - F. D. LACHAT	REVISED -
	CHECKED - M. A. CACKLEY	REVISED -

BUREAU COUNTY
F.A.S. 184 (C.H. 11) OVER BIG BUREAU CREEK
STATION 59+75

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 006-3032

STRUCTURAL SHEET NO. 3 OF 17 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
184	08-00211-00-BR	BUREAU	31	12
WHA# 1051D10		CONTRACT NO. 87462		
ILLINOIS FED. AID PROJECT BRS-0184(107)				