

DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:

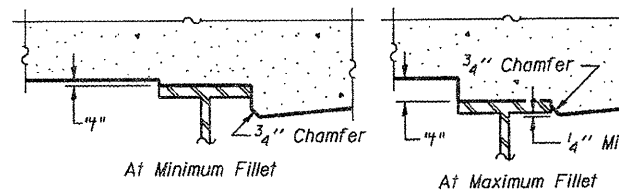
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.

PROFILE GRADE LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	311+17.50	0.00'	584.55	584.55
☉ Brg. S. Abut.	311+18.75	0.00'	584.55	584.55
A	311+28.75	0.00'	584.56	584.62
B	311+38.75	0.00'	584.57	584.68
C	311+48.75	0.00'	584.57	584.72
D	311+58.75	0.00'	584.58	584.73
E	311+68.75	0.00'	584.59	584.71
F	311+78.75	0.00'	584.59	584.68
☉ Brg. N. Abut.	311+91.25	0.00'	584.60	584.60
Bk. N. Abut.	311+92.50	0.00'	584.60	584.60

GIRDER 1 & 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	311+17.50	16.67'	584.27	584.27
☉ Brg. S. Abut.	311+18.75	16.67'	584.27	584.27
A	311+28.75	16.67'	584.27	584.34
B	311+38.75	16.67'	584.28	584.40
C	311+48.75	16.67'	584.29	584.44
D	311+58.75	16.67'	584.30	584.45
E	311+68.75	16.67'	584.30	584.43
F	311+78.75	16.67'	584.31	584.39
☉ Brg. N. Abut.	311+91.25	16.67'	584.32	584.32
Bk. N. Abut.	311+92.50	16.67'	584.32	584.32



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

FILLET HEIGHTS

GIRDER 2 & 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	311+17.50	10.00'	584.39	584.39
☉ Brg. S. Abut.	311+18.75	10.00'	584.40	584.40
A	311+28.75	10.00'	584.40	584.47
B	311+38.75	10.00'	584.41	584.53
C	311+48.75	10.00'	584.42	584.56
D	311+58.75	10.00'	584.42	584.58
E	311+68.75	10.00'	584.43	584.56
F	311+78.75	10.00'	584.44	584.52
☉ Brg. N. Abut.	311+91.25	10.00'	584.45	584.45
Bk. N. Abut.	311+92.50	10.00'	584.45	584.45

GIRDER 3 & 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	311+17.50	3.33'	584.50	584.50
☉ Brg. S. Abut.	311+18.75	3.33'	584.50	584.50
A	311+28.75	3.33'	584.51	584.57
B	311+38.75	3.33'	584.51	584.63
C	311+48.75	3.33'	584.52	584.67
D	311+58.75	3.33'	584.53	584.68
E	311+68.75	3.33'	584.54	584.66
F	311+78.75	3.33'	584.54	584.62
☉ Brg. N. Abut.	311+91.25	3.33'	584.55	584.55
Bk. N. Abut.	311+92.50	3.33'	584.55	584.55

(Sheet 2 of 3)

E-S
BENTON & ASSOCIATES, INC. 7-1-10

FILE NAME = P:\071828-2\ Design\ Plans\ Structure Sheets\ 0608511-72866-086-Elev2.dgn

USER NAME =	DESIGNED - MBH	REVISD -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 068-0511

SHEET NO. 6 OF 20 SHEETS

F.A.P. RTE. 42	SECTION 105B-1	COUNTY MONTGOMERY	TOTAL SHEETS 63	SHEET NO. 27
CONTRACT NO. 72B66			FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT	