

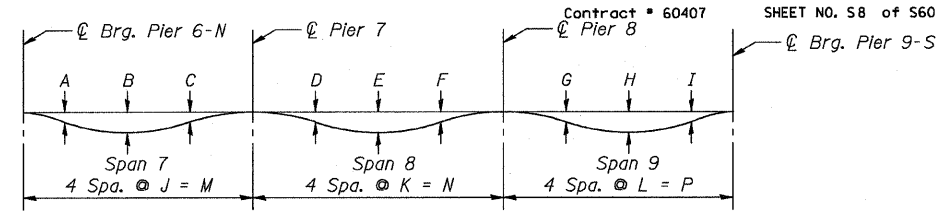
P.G.L. & CL STAGE CONSTRUCTION JOINT

GIRDER 1

GIRDER 2

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	465 VB-R-1	COOK	103	41
STA. 173+50 TO STA. 195+00		ILLINOIS FED. AID PROJECT		

Location	Station	Offset	Theor. Grade Elevations	Theor. Grade Elev. Adj. For Dead Load Deflection	Location	Station	Offset	Theor. Grade Elevations	Theor. Grade Elev. Adj. For Dead Load Deflection	Location	Station	Offset	Theor. Grade Elevations	Theor. Grade Elev. Adj. For Dead Load Deflection
⊖ Pier 6	181+46.05	0.00	678.33	678.33	⊖ Pier 6	181+46.05	-46.75	677.40	677.40	⊖ Pier 6	181+46.05	-38.25	677.57	677.57
⊖ Brg. Pier 6-N	181+47.30	0.00	678.36	678.36	⊖ Brg. Pier 6-N	181+47.30	-46.75	677.42	677.42	⊖ Brg. Pier 6-N	181+47.30	-38.25	677.59	677.59
V1	181+57.30	0.00	678.55	678.59	V1	181+57.30	-46.75	677.62	677.67	V1	181+57.30	-38.25	677.79	677.84
W1	181+67.30	0.00	678.74	678.81	W1	181+67.30	-46.75	677.80	677.91	W1	181+67.30	-38.25	677.97	678.08
X1	181+77.30	0.00	678.91	679.01	X1	181+77.30	-46.75	677.98	678.13	X1	181+77.30	-38.25	678.15	678.29
Y1	181+87.30	0.00	679.07	679.20	Y1	181+87.30	-46.75	678.14	678.32	Y1	181+87.30	-38.25	678.31	678.48
Z1	181+97.30	0.00	679.23	679.36	Z1	181+97.30	-46.75	678.29	678.49	Z1	181+97.30	-38.25	678.46	678.66
A2	182+07.30	0.00	679.37	679.49	A2	182+07.30	-46.75	678.44	678.65	A2	182+07.30	-38.25	678.61	678.81
B2	182+17.30	0.00	679.50	679.61	B2	182+17.30	-46.75	678.57	678.78	B2	182+17.30	-38.25	678.74	678.93
C2	182+27.30	0.00	679.63	679.71	C2	182+27.30	-46.75	678.69	678.89	C2	182+27.30	-38.25	678.86	679.04
D2	182+37.30	0.00	679.74	679.80	D2	182+37.30	-46.75	678.80	678.98	D2	182+37.30	-38.25	678.97	679.13
E2	182+47.30	0.00	679.84	679.88	E2	182+47.30	-46.75	678.90	679.05	E2	182+47.30	-38.25	679.07	679.19
F2	182+57.30	0.00	679.93	679.94	F2	182+57.30	-46.75	678.99	679.10	F2	182+57.30	-38.25	679.16	679.25
G2	---	---	---	---	G2	182+67.30	-46.75	679.08	679.14	G2	182+67.30	-38.25	679.25	679.30
H2	---	---	---	---	H2	182+77.30	-46.75	679.15	679.18	H2	182+77.30	-38.25	679.32	679.34
J2	---	---	---	---	J2	182+87.30	-46.75	679.21	679.21	J2	---	---	---	---
⊖ Pier 7	182+66.80	0.00	680.01	680.01	⊖ Pier 7	182+92.71	-46.75	679.23	679.23	⊖ Pier 7	182+88.00	-38.25	679.38	679.38
K2	182+76.80	0.00	680.08	680.07	K2	183+02.71	-46.75	679.28	679.27	K2	182+98.00	-38.25	679.43	679.42
L2	182+86.80	0.00	680.14	680.14	L2	183+12.71	-46.75	679.31	679.31	L2	183+08.00	-38.25	679.47	679.46
M2	182+96.80	0.00	680.19	680.20	M2	183+22.71	-46.75	679.33	679.34	M2	183+18.00	-38.25	679.50	679.50
N2	183+06.80	0.00	680.23	680.25	N2	183+32.71	-46.75	679.35	679.37	N2	183+28.00	-38.25	679.51	679.53
P2	183+16.80	0.00	680.26	680.28	P2	183+42.71	-46.75	679.35	679.39	P2	183+38.00	-38.25	679.52	679.55
R2	183+26.80	0.00	680.28	680.31	R2	183+52.71	-46.75	679.34	679.39	R2	183+48.00	-38.25	679.52	679.56
S2	183+36.80	0.00	680.29	680.32	S2	183+62.71	-46.75	679.33	679.38	S2	183+58.00	-38.25	679.50	679.55
T2	183+46.80	0.00	680.28	680.32	T2	183+72.71	-46.75	679.30	679.35	T2	183+68.00	-38.25	679.48	679.53
U2	183+56.80	0.00	680.27	680.30	U2	183+82.71	-46.75	679.26	679.30	U2	183+78.00	-38.25	679.45	679.49
V2	183+66.80	0.00	680.25	680.26	V2	183+92.71	-46.75	679.21	679.24	V2	183+88.00	-38.25	679.40	679.43
W2	183+76.80	0.00	680.22	680.22	W2	184+02.71	-46.75	679.15	679.17	W2	183+98.00	-38.25	679.35	679.37
X2	183+86.80	0.00	680.17	680.17	X2	184+12.71	-46.75	679.08	679.09	X2	184+08.00	-38.25	679.28	679.29
Y2	183+96.80	0.00	680.12	680.12	Y2	184+22.71	-46.75	679.00	679.00	Y2	184+18.00	-38.25	679.21	679.21
⊖ Pier 8	184+02.55	0.00	680.09	680.09	⊖ Pier 8	184+31.16	-46.75	678.92	678.92	⊖ Pier 8	184+25.96	-38.25	679.14	679.14
Z2	---	---	---	---	Z2	---	---	---	---	Z2	---	---	---	---
A3	---	---	---	---	A3	---	---	---	---	A3	---	---	---	---
B3	---	---	---	---	B3	---	---	---	---	B3	---	---	---	---
C3	184+13.94	0.00	680.01	680.02	C3	---	---	---	---	C3	---	---	---	---
D3	184+23.94	0.00	679.92	679.97	D3	---	---	---	---	D3	---	---	---	---
E3	184+33.94	0.00	679.83	679.90	E3	---	---	---	---	E3	184+33.94	-38.25	679.07	679.07
F3	184+43.94	0.00	679.73	679.82	F3	184+43.94	-46.75	678.80	678.81	F3	184+43.94	-38.25	678.97	678.98
G3	184+53.94	0.00	679.62	679.73	G3	184+53.94	-46.75	678.68	678.71	G3	184+53.94	-38.25	678.85	678.89
H3	184+63.94	0.00	679.50	679.62	H3	184+63.94	-46.75	678.56	678.60	H3	184+63.94	-38.25	678.73	678.78
J3	184+73.94	0.00	679.36	679.49	J3	184+73.94	-46.75	678.43	678.48	J3	184+73.94	-38.25	678.60	678.66
K3	184+83.94	0.00	679.22	679.34	K3	184+83.94	-46.75	678.29	678.34	K3	184+83.94	-38.25	678.46	678.52
L3	184+93.94	0.00	679.07	679.17	L3	184+93.94	-46.75	678.13	678.18	L3	184+93.94	-38.25	678.30	678.36
M3	185+03.94	0.00	678.90	678.97	M3	185+03.94	-46.75	677.97	678.01	M3	185+03.94	-38.25	678.14	678.18
N3	185+13.94	0.00	678.73	678.76	N3	185+13.94	-46.75	677.79	677.81	N3	185+13.94	-38.25	677.96	677.98
⊖ Brg. Pier 9-S	185+22.05	0.00	678.58	678.58	⊖ Brg. Pier 9-S	185+22.05	-46.75	677.64	677.64	⊖ Brg. Pier 9-S	185+22.05	-38.25	677.81	677.81
⊖ Pier 9	185+23.30	0.00	678.56	678.56	⊖ Pier 9	185+23.30	-46.75	677.62	677.62	⊖ Pier 9	185+23.30	-38.25	677.79	677.79



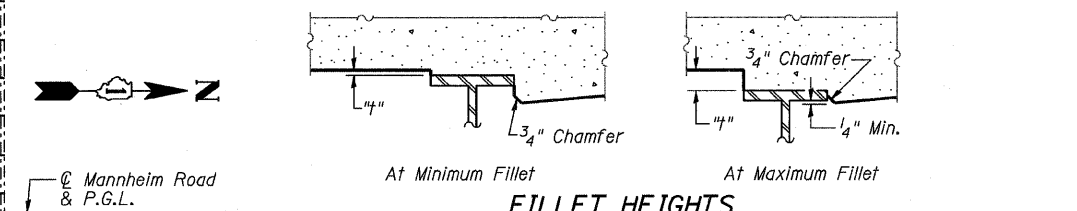
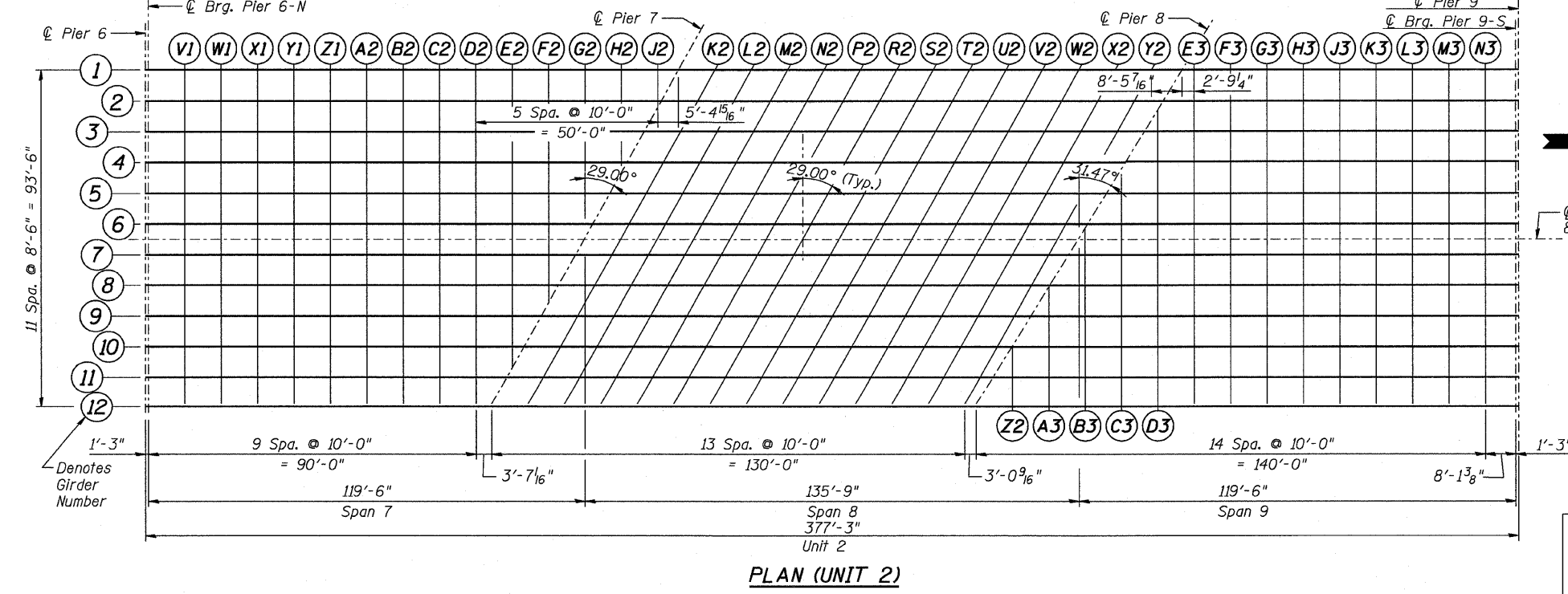
DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)
 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. All elevations and offsets are in feet.

DEAD LOAD DEFLECTION VARIABLES

Girder #	A	B	C	D	E	F	G	H	I
1	-2"	-2 1/2"	-1 3/8"	-0 1/2"	-0 5/8"	-0 3/8"	-0 3/8"	-0 5/8"	-0 1/2"
2	-1 1/2"	-2 3/8"	-1 1/8"	-0 1/2"	-0 3/8"	-0 3/8"	-0 3/8"	-0 3/8"	-0 5/8"
3	-1 3/4"	-2 1/2"	-1 1/8"	-0 1/2"	-0 3/8"	-0 3/8"	-0 3/8"	-0 3/8"	-0 5/8"
4	-1 5/8"	-2"	-1"	-0 1/2"	-0 3/8"	-0 3/8"	-0 3/8"	-0 3/8"	-0 5/8"
5	-1 1/2"	-1 3/4"	-0 7/8"	-0 1/2"	-0 3/8"	-0 3/8"	-0 3/8"	-0 3/8"	-0 5/8"
6	-1 1/4"	-1 5/8"	-0 3/4"	-0 1/2"	-0 3/8"	-0 3/8"	-0 3/8"	-0 3/8"	-0 5/8"
7	-1 1/8"	-1 3/8"	-0 3/4"	-0 1/2"	-0 3/8"	-0 3/8"	-0 3/8"	-0 3/8"	-0 5/8"
8	-1"	-1 1/4"	-0 5/8"	-0 1/2"	-0 3/8"	-0 3/8"	-0 3/8"	-0 3/8"	-0 5/8"
9	-0 7/8"	-1"	-0 5/8"	-0 1/2"	-0 3/8"	-0 3/8"	-0 3/8"	-0 3/8"	-0 5/8"
10	-0 5/8"	-0 7/8"	-0 1/2"	-0 1/2"	-0 3/8"	-0 3/8"	-0 3/8"	-0 3/8"	-0 5/8"
11	-0 5/8"	-0 3/4"	-0 3/8"	-0 1/2"	-0 3/8"	-0 3/8"	-0 3/8"	-0 3/8"	-0 5/8"
12	-0 5/8"	-0 3/4"	-0 3/8"	-0 1/2"	-0 3/8"	-0 3/8"	-0 3/8"	-0 3/8"	-0 5/8"

Girder #	J	K	L	M	N	P
1	36'-4 1/2"	34'-7 3/8"	22'-8 5/8"	145'-4 1/2"	138'-5 1/2"	90'-10 5/8"
2	35'-2 1/2"	34'-5 7/8"	24'-0 1/4"	140'-8 1/2"	137'-11 1/2"	96'-11 1/2"
3	32'-9 3/8"	34'-4 3/8"	25'-3 1/8"	135'-11 1/2"	137'-5 5/8"	101'-3 1/2"
4	31'-7 1/2"	34'-2 1/2"	26'-7 1/2"	131'-3 3/4"	136'-11 3/4"	106'-5 5/8"
5	30'-5 9/16"	34'-1 1/2"	27'-11 1/2"	126'-6 3/8"	136'-5 1/2"	111'-8 9/8"
6	29'-10 1/2"	33'-11 1/4"	29'-2 1/2"	121'-10 1/4"	135'-11 1/4"	116'-10 1/4"
7	29'-3 1/2"	33'-10 1/2"	30'-6 5/8"	117'-1 3/4"	135'-6 1/2"	122'-1 3/4"
8	28'-1 5/8"	33'-9 1/2"	31'-9 1/2"	112'-5 3/8"	135'-0 3/8"	127'-3 5/8"
9	26'-11 3/8"	33'-7 9/8"	33'-1 1/2"	107'-8 5/8"	134'-6 1/4"	132'-6 1/2"
10	25'-9"	33'-6 1/2"	34'-5 1/2"	103'-0 1/2"	134'-0 3/8"	137'-8 1/2"
11	24'-6 1/2"	33'-4 5/8"	35'-8 3/4"	98'-3 3/8"	133'-6 1/2"	142'-10 1/2"
12	23'-4 3/4"	33'-3 1/8"	37'-0 3/8"	93'-7 1/2"	133'-0 1/2"	148'-1 1/2"



To determine "f": After all structural steel has been erected, elevations of the top flanges of the girders shall be taken at intervals shown left. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown here and on Sheets S9-S11, minus slab thickness, equals the fillet heights "f" above top flange of girders.

Note: I. Work this sheet with Sheets S8-S11.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION TOP OF SLAB ELEVATIONS II FAP 330 US 12/45 (MANNHEIM RD.) OVER 500 LINE RR & FRANKLIN AVE. STRUCTURE NO. 016-2815 SECTION 465 VB-R-1 STA. 183+33.30 DATE 7/2009
NAME	DATE	

EARTH TECH | AECOM

COOK COUNTY
 DRAWN BY JHR
 CHECKED BY DEV