

BEAMS 3 & 10

Location	Station	Offset	Theor. Grade Elevations	Theor. Grade Elev. Adj. For Dead Load Deflection
Centerline Pier 9	185+23.30	29.75	677.96	677.96
Centerline Brg. Pier 9-N	185+24.47	29.75	677.94	677.94
P3	185+34.47	29.75	677.74	677.78
R3	185+44.47	29.75	677.54	677.60
S3	185+54.47	29.75	677.32	677.40
T3	185+64.47	29.75	677.09	677.16
U3	185+74.47	29.75	676.86	676.91
V3	185+84.47	29.75	676.61	676.63
W3	185+94.47	29.75	676.35	676.36
Centerline Pier 10	186+00.84	29.75	676.18	676.18
X3	186+10.84	29.75	675.91	675.92
Y3	186+20.84	29.75	675.62	675.66
Z3	186+30.84	29.75	675.33	675.39
A4	186+40.84	29.75	675.02	675.10
B4	186+50.84	29.75	674.71	674.79
C4	186+60.84	29.75	674.38	674.45
D4	186+70.84	29.75	674.04	674.10
E4	186+80.84	29.75	673.70	673.72
F4	186+90.84	29.75	673.34	673.34
Centerline Pier 11	186+95.84	29.75	673.16	673.16
G4	187+05.84	29.75	672.79	672.79
H4	187+15.84	29.75	672.40	672.43
J4	187+25.84	29.75	672.01	672.06
K4	187+35.84	29.75	671.61	671.68
L4	187+45.84	29.75	671.21	671.29
M4	187+55.84	29.75	670.82	670.88
N4	187+65.84	29.75	670.42	670.46
P4	187+75.84	29.75	670.02	670.04
R4	187+85.84	29.75	669.62	669.62
Centerline Pier 12	187+90.84	29.75	669.42	669.42
S4	188+00.84	29.75	669.03	669.04
T4	188+10.84	29.75	668.63	668.68
U4	188+20.84	29.75	668.23	668.31
V4	188+30.84	29.75	667.83	667.94
W4	188+40.84	29.75	667.44	667.55
X4	188+50.84	29.75	667.04	667.14
Y4	188+60.84	29.75	666.64	666.72
Z4	188+70.84	29.75	666.24	666.29
A5	188+80.84	29.75	665.85	665.86
Centerline Pier 13	188+85.84	29.75	665.65	665.65
B5	188+95.84	29.75	665.25	665.24
C5	189+05.84	29.75	664.85	664.84
D5	189+15.84	29.75	664.45	664.45
E5	189+25.84	29.75	664.06	664.06
Centerline Brg. N. Abut.	189+34.59	29.75	663.71	663.71
Bk. N. Abut.	189+37.59	29.75	663.59	663.59

BEAMS 4 & 9

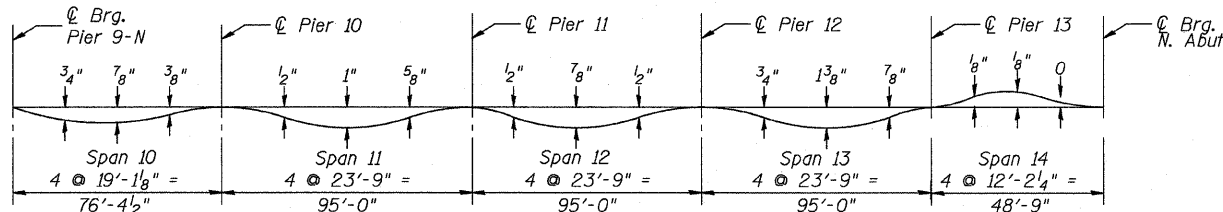
Location	Station	Offset	Theor. Grade Elevations	Theor. Grade Elev. Adj. For Dead Load Deflection
Centerline Pier 9	185+23.30	21.25	678.13	678.13
Centerline Brg. Pier 9-N	185+24.47	21.25	678.11	678.11
P3	185+34.47	21.25	677.91	677.95
R3	185+44.47	21.25	677.71	677.77
S3	185+54.47	21.25	677.49	677.57
T3	185+64.47	21.25	677.26	677.33
U3	185+74.47	21.25	677.03	677.08
V3	185+84.47	21.25	676.78	676.80
W3	185+94.47	21.25	676.52	676.53
Centerline Pier 10	186+00.84	21.25	676.35	676.35
X3	186+10.84	21.25	676.08	676.09
Y3	186+20.84	21.25	675.79	675.83
Z3	186+30.84	21.25	675.50	675.56
A4	186+40.84	21.25	675.19	675.27
B4	186+50.84	21.25	674.88	674.96
C4	186+60.84	21.25	674.55	674.62
D4	186+70.84	21.25	674.21	674.27
E4	186+80.84	21.25	673.87	673.89
F4	186+90.84	21.25	673.51	673.51
Centerline Pier 11	186+95.84	21.25	673.33	673.33
G4	187+05.84	21.25	672.96	672.96
H4	187+15.84	21.25	672.57	672.60
J4	187+25.84	21.25	672.18	672.23
K4	187+35.84	21.25	671.78	671.85
L4	187+45.84	21.25	671.38	671.46
M4	187+55.84	21.25	670.99	671.05
N4	187+65.84	21.25	670.59	670.63
P4	187+75.84	21.25	670.19	670.21
R4	187+85.84	21.25	669.79	669.79
Centerline Pier 12	187+90.84	21.25	669.59	669.59
S4	188+00.84	21.25	669.20	669.21
T4	188+10.84	21.25	668.80	668.85
U4	188+20.84	21.25	668.40	668.48
V4	188+30.84	21.25	668.00	668.11
W4	188+40.84	21.25	667.61	667.72
X4	188+50.84	21.25	667.21	667.31
Y4	188+60.84	21.25	666.81	666.89
Z4	188+70.84	21.25	666.41	666.46
A5	188+80.84	21.25	666.02	666.03
Centerline Pier 13	188+85.84	21.25	665.82	665.82
B5	188+95.84	21.25	665.42	665.41
C5	189+05.84	21.25	665.02	665.01
D5	189+15.84	21.25	664.62	664.62
E5	189+25.84	21.25	664.23	664.23
Centerline Brg. N. Abut.	189+34.59	21.25	663.88	663.88
Bk. N. Abut.	189+37.59	21.25	663.76	663.76

BEAMS 5 & 8

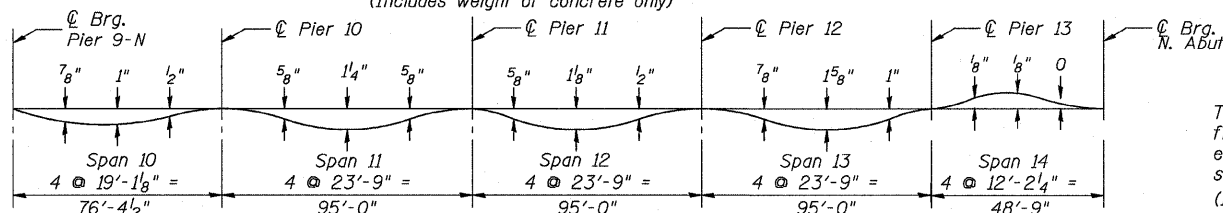
Location	Station	Offset	Theor. Grade Elevations	Theor. Grade Elev. Adj. For Dead Load Deflection
Centerline Pier 9	185+23.30	12.75	678.30	678.30
Centerline Brg. Pier 9-N	185+24.47	12.75	678.28	678.28
P3	185+34.47	12.75	678.08	678.12
R3	185+44.47	12.75	677.88	677.94
S3	185+54.47	12.75	677.66	677.74
T3	185+64.47	12.75	677.43	677.50
U3	185+74.47	12.75	677.20	677.25
V3	185+84.47	12.75	676.95	676.97
W3	185+94.47	12.75	676.69	676.70
Centerline Pier 10	186+00.84	12.75	676.52	676.52
X3	186+10.84	12.75	676.25	676.26
Y3	186+20.84	12.75	675.96	676.00
Z3	186+30.84	12.75	675.67	675.73
A4	186+40.84	12.75	675.36	675.44
B4	186+50.84	12.75	675.05	675.13
C4	186+60.84	12.75	674.72	674.79
D4	186+70.84	12.75	674.38	674.44
E4	186+80.84	12.75	674.04	674.06
F4	186+90.84	12.75	673.68	673.68
Centerline Pier 11	186+95.84	12.75	673.50	673.50
G4	187+05.84	12.75	673.13	673.13
H4	187+15.84	12.75	672.74	672.77
J4	187+25.84	12.75	672.35	672.40
K4	187+35.84	12.75	671.95	672.02
L4	187+45.84	12.75	671.55	671.63
M4	187+55.84	12.75	671.16	671.22
N4	187+65.84	12.75	670.76	670.80
P4	187+75.84	12.75	670.36	670.38
R4	187+85.84	12.75	669.96	669.96
Centerline Pier 12	187+90.84	12.75	669.76	669.76
S4	188+00.84	12.75	669.37	669.38
T4	188+10.84	12.75	668.97	669.02
U4	188+20.84	12.75	668.57	668.65
V4	188+30.84	12.75	668.17	668.28
W4	188+40.84	12.75	667.78	667.89
X4	188+50.84	12.75	667.38	667.48
Y4	188+60.84	12.75	666.98	667.06
Z4	188+70.84	12.75	666.58	666.63
A5	188+80.84	12.75	666.19	666.20
Centerline Pier 13	188+85.84	12.75	665.99	665.99
B5	188+95.84	12.75	665.59	665.58
C5	189+05.84	12.75	665.19	665.18
D5	189+15.84	12.75	664.79	664.79
E5	189+25.84	12.75	664.40	664.40
Centerline Brg. N. Abut.	189+34.59	12.75	664.05	664.05
Bk. N. Abut.	189+37.59	12.75	663.93	663.93

BEAMS 6 & 7

Location	Station	Offset	Theor. Grade Elevations	Theor. Grade Elev. Adj. For Dead Load Deflection
Centerline Pier 9	185+23.30	4.25	678.47	678.47
Centerline Brg. Pier 9-N	185+24.47	4.25	678.45	678.45
P3	185+34.47	4.25	678.25	678.29
R3	185+44.47	4.25	678.05	678.11
S3	185+54.47	4.25	677.83	677.91
T3	185+64.47	4.25	677.60	677.67
U3	185+74.47	4.25	677.37	677.42
V3	185+84.47	4.25	677.12	677.14
W3	185+94.47	4.25	676.86	676.87
Centerline Pier 10	186+00.84	4.25	676.69	676.69
X3	186+10.84	4.25	676.42	676.43
Y3	186+20.84	4.25	676.13	676.17
Z3	186+30.84	4.25	675.84	675.90
A4	186+40.84	4.25	675.53	675.61
B4	186+50.84	4.25	675.22	675.30
C4	186+60.84	4.25	674.89	674.96
D4	186+70.84	4.25	674.55	674.61
E4	186+80.84	4.25	674.21	674.23
F4	186+90.84	4.25	673.85	673.85
Centerline Pier 11	186+95.84	4.25	673.67	673.67
G4	187+05.84	4.25	673.30	673.30
H4	187+15.84	4.25	672.91	672.94
J4	187+25.84	4.25	672.52	672.57
K4	187+35.84	4.25	672.12	672.19
L4	187+45.84	4.25	671.72	671.80
M4	187+55.84	4.25	671.33	671.39
N4	187+65.84	4.25	670.93	670.97
P4	187+75.84	4.25	670.53	670.55
R4	187+85.84	4.25	670.13	670.13
Centerline Pier 12	187+90.84	4.25	669.93	669.93
S4	188+00.84	4.25	669.54	669.55
T4	188+10.84	4.25	669.14	669.19
U4	188+20.84	4.25	668.74	668.82
V4	188+30.84	4.25	668.34	668.45
W4	188+40.84	4.25	667.95	668.06
X4	188+50.84	4.25	667.55	667.65
Y4	188+60.84	4.25	667.15	667.23
Z4	188+70.84	4.25	666.75	666.80
A5	188+80.84	4.25	666.36	666.37
Centerline Pier 13	188+85.84	4.25	666.16	666.16
B5	188+95.84	4.25	665.76	665.75
C5	189+05.84	4.25	665.36	665.35
D5	189+15.84	4.25	664.96	664.96
E5	189+25.84	4.25	664.57	664.57
Centerline Brg. N. Abut.	189+34.59	4.25	664.22	664.22
Bk. N. Abut.	189+37.59	4.25	664.10	664.10



DEAD LOAD DEFLECTION DIAGRAM-INTERIOR BEAM
(Includes weight of concrete only)



DEAD LOAD DEFLECTION DIAGRAM-EXTERIOR BEAM
(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. (Includes weight of concrete only)

Notes:
1. Work this sheet with Sheet S12.
2. See Sheet S14 for top of slab elevations at north approach.

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