

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	215+18.01	-20.15	549.42	549.42
CL W. Abut.	215+19.54	-20.11	549.40	549.40
A	215+29.43	-19.87	549.30	549.32
B	215+39.32	-19.68	549.21	549.24
C	215+49.21	-19.55	549.11	549.17
D	215+59.10	-19.47	549.02	549.09
E	215+69.00	-19.45	548.93	549.00
F	215+78.89	-19.48	548.84	548.91
G	215+88.78	-19.57	548.76	548.82
H	215+98.67	-19.71	548.68	548.73
I	216+08.56	-19.91	548.60	548.64
J	216+18.45	-20.16	548.52	548.54
CL E. Abut.	216+27.24	-20.43	548.46	548.46
Bk. E. Abut.	216+28.78	-20.49	548.45	548.45

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	215+16.49	-15.02	549.19	549.19
CL W. Abut.	215+18.03	-14.98	549.18	549.18
A	215+27.95	-14.73	549.08	549.10
B	215+37.87	-14.54	548.98	549.02
C	215+47.79	-14.40	548.89	548.94
D	215+57.71	-14.31	548.79	548.86
E	215+67.63	-14.28	548.71	548.78
F	215+77.55	-14.31	548.62	548.69
G	215+87.47	-14.39	548.53	548.60
H	215+97.39	-14.52	548.45	548.50
I	216+07.31	-14.71	548.37	548.41
J	216+17.22	-14.96	548.29	548.31
CL E. Abut.	216+26.04	-15.22	548.23	548.23
Bk. E. Abut.	216+27.58	-15.27	548.22	548.22

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	215+14.97	-9.90	548.97	548.97
CL W. Abut.	215+16.51	-9.86	548.96	548.96
A	215+26.46	-9.60	548.86	548.88
B	215+36.40	-9.39	548.76	548.80
C	215+46.35	-9.25	548.66	548.72
D	215+56.30	-9.15	548.57	548.64
E	215+66.25	-9.12	548.48	548.55
F	215+76.20	-9.13	548.39	548.46
G	215+86.15	-9.21	548.31	548.37
H	215+96.10	-9.34	548.22	548.28
I	216+06.04	-9.52	548.14	548.18
J	216+15.99	-9.76	548.07	548.09
CL E. Abut.	216+24.83	-10.02	548.00	548.00
Bk. E. Abut.	216+26.37	-10.07	547.99	547.99

BEAM 4

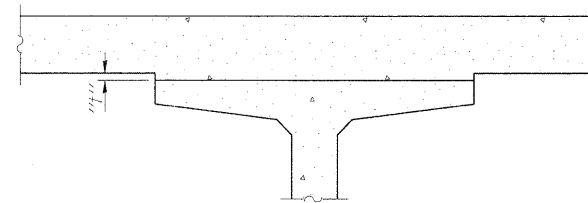
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	215+13.44	-4.78	548.75	548.75
CL W. Abut.	215+14.99	-4.73	548.73	548.73
A	215+24.96	-4.46	548.63	548.65
B	215+34.93	-4.25	548.53	548.57
C	215+44.91	-4.10	548.44	548.49
D	215+54.88	-4.00	548.35	548.41
E	215+64.86	-3.95	548.25	548.33
F	215+74.84	-3.96	548.17	548.24
G	215+84.82	-4.03	548.08	548.15
H	215+94.79	-4.15	548.00	548.05
I	216+04.77	-4.32	547.92	547.95
J	216+14.74	-4.56	547.84	547.86
CL E. Abut.	216+23.61	-4.81	547.77	547.77
Bk. E. Abut.	216+25.16	-4.86	547.76	547.76

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	215+12.00	0.00	548.54	548.54
CL W. Abut.	215+13.57	0.00	548.53	548.53
A	215+23.64	0.00	548.44	548.46
B	215+33.71	0.00	548.35	548.39
C	215+43.75	0.00	548.26	548.32
D	215+53.78	0.00	548.17	548.24
E	215+63.79	0.00	548.08	548.15
F	215+73.80	0.00	547.99	548.06
G	215+83.78	0.00	547.90	547.97
H	215+93.75	0.00	547.82	547.87
I	216+03.70	0.00	547.73	547.76
J	216+13.65	0.00	547.64	547.66
CL E. Abut.	216+22.48	0.00	547.56	547.56
Bk. E. Abut.	216+24.02	0.00	547.55	547.55

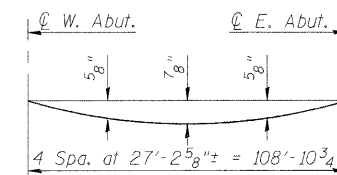
BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	215+10.35	5.46	548.31	548.31
CL W. Abut.	215+11.91	5.51	548.29	548.29
A	215+21.93	5.80	548.19	548.21
B	215+31.96	6.03	548.09	548.13
C	215+42.00	6.20	547.99	548.05
D	215+52.03	6.31	547.90	547.96
E	215+62.07	6.38	547.80	547.88
F	215+72.10	6.38	547.71	547.79
G	215+82.14	6.33	547.63	547.69
H	215+92.17	6.22	547.54	547.60
I	216+02.20	6.06	547.46	547.50
J	216+12.23	5.84	547.38	547.40
CL E. Abut.	216+21.15	5.60	547.31	547.31
Bk. E. Abut.	216+22.71	5.56	547.30	547.30



To determine "t": After all precast prestressed beams have 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 Deflections" show below, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM  
(Includes weight of concrete, excluding beams).

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.

DESIGNED - LJB
CHECKED - CMM
DRAWN - GJS
CHECKED - CMM

**LOCHNER**  
H.W. LOCHNER, INC.  
CONSULTING ENGINEERS & PLANNERS  
20 NORTH WACKER DRIVE SUITE 1200  
CHICAGO, IL 60606

SHEET NO. 4 OF 19 SHEETS	RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	(32,47-4) HBK-4 & G(N)	GRUNDY	351	317
CONTRACT NO. 66408					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

\* FAI 80 & FAS 297 / FAU 392

TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 032-0117

T:\182\struct\dgm\0320117-66408-004-EL01.dgn