

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GIRDER G1.11

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Ⓢ G1.8	198+67.89	24.00	625.32	625.34
F1	198+69.33	24.87	625.34	625.36
G1	198+79.33	30.91	625.45	625.47
H1	198+89.33	36.96	625.56	625.58
I1	198+99.33	43.01	625.68	625.68
Ⓢ G22	199+04.78	46.30	625.73	625.73

P.G.L. RAMP 1 FLARE

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Bk. of R1 Abut.	197+33.33	0.00	623.02	623.02
Ⓢ Joint R1 Abut.	197+35.58	0.00	623.06	623.06
Ⓢ E. Brg. R1 Abut.	197+36.33	0.00	623.08	623.08
U	197+46.33	0.00	623.27	623.31
V	197+56.33	0.00	623.47	623.53
W	197+66.33	0.00	623.67	623.75
X	197+76.33	0.00	623.86	623.96
Y	197+86.33	0.00	624.06	624.16
Z	197+96.33	0.00	624.26	624.35
A1	198+06.33	0.00	624.45	624.53
B1	198+16.33	0.00	624.65	624.71
C1	198+26.33	0.00	624.85	624.88
Ⓢ R1 Pier	198+39.33	0.00	625.10	625.12
D1	198+49.33	0.00	625.30	625.31
E1	198+59.33	0.00	625.49	625.51
F1	198+69.33	0.00	625.69	625.71
G1	198+79.33	0.00	625.89	625.91
H1	198+89.33	0.00	626.08	626.11
I1	198+99.33	0.00	626.28	626.31
J1	199+09.33	0.00	626.48	626.50
K1	199+19.33	0.00	626.67	626.69
Ⓢ G22	199+23.16	0.00	626.75	626.76

GIRDER G1.20

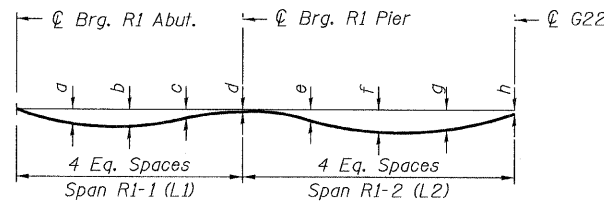
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Ⓢ FB-1.9	198+24.39	-28.00	625.23	625.23
C1	198+26.33	-28.00	625.27	625.27
Ⓢ R1 Pier	198+39.33	-28.00	625.52	625.52
D1	198+49.33	-28.00	625.70	625.72
E1	198+59.33	-28.00	625.89	625.92
F1	198+69.33	-28.00	626.07	626.11
G1	198+79.33	-28.00	626.26	626.31
H1	198+89.33	-28.00	626.44	626.49
I1	198+99.33	-28.00	626.62	626.67
J1	199+09.33	-28.00	626.81	626.85
K1	199+19.33	-28.00	626.99	627.02
L1	199+29.33	-28.00	627.18	627.19
Ⓢ G22	199+34.28	-28.00	627.27	627.27

GIRDER G1.12

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Bk. of R1 Abut.	197+33.33	-21.50	623.34	623.34
Ⓢ Joint R1 Abut.	197+35.58	-21.50	623.38	623.38
Ⓢ E. Brg. R1 Abut.	197+36.33	-21.50	623.40	623.40
U	197+46.33	-21.84	623.60	623.61
V	197+56.33	-22.47	623.81	623.82
W	197+66.33	-23.34	624.02	624.03
X	197+76.33	-24.44	624.23	624.24
Y	197+86.33	-25.77	624.45	624.46
Z	197+96.33	-27.35	624.67	624.67
A1	198+06.33	-29.16	624.89	624.89
B1	198+16.33	-31.22	625.12	625.12
C1	198+26.33	-33.52	625.35	625.35
Ⓢ R1 Pier	198+39.33	-36.89	625.65	625.66
D1	198+49.33	-39.77	625.87	625.90
E1	198+59.33	-42.92	626.10	626.15
F1	198+69.33	-46.34	626.32	626.39
G1	198+79.33	-50.03	626.53	626.62
H1	198+89.33	-54.01	626.75	626.85
I1	198+99.33	-58.27	626.96	627.07
J1	199+09.33	-62.84	627.18	627.29
K1	199+19.33	-67.71	627.39	627.49
L1	199+29.33	-72.91	627.60	627.68
M1	199+39.33	-78.45	627.79	627.86
N1	199+49.33	-84.34	627.98	628.01
Ⓢ G22	199+59.06	-90.42	628.15	628.16

GIRDER G1.17

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Ⓢ FB-1.6	198+81.39	-47.50	626.54	626.64
H1	198+89.33	-47.50	626.67	626.78
I1	198+99.33	-47.50	626.84	626.96
J1	199+09.33	-47.50	627.02	627.13
K1	199+19.33	-47.50	627.19	627.28
L1	199+29.33	-47.50	627.36	627.43
M1	199+39.33	-47.50	627.53	627.57
Ⓢ G22	199+42.02	-47.50	627.58	627.60



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 above.

GIRDER G1.13

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Ⓢ FB-1.2	199+38.38	-73.50	627.75	627.81
M1	199+39.33	-73.50	627.76	627.82
N1	199+49.33	-73.50	627.91	627.94
Ⓢ G22	199+52.34	-73.50	627.95	627.97

GIRDER G1.14

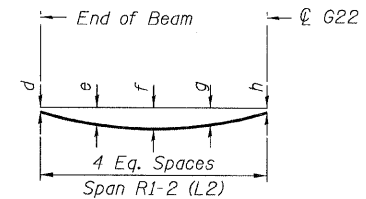
LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Ⓢ FB-1.3	199+26.38	-67.00	627.49	627.58
L1	199+29.33	-67.00	627.54	627.62
M1	199+39.33	-67.00	627.70	627.76
N1	199+49.33	-67.00	627.86	627.89
Ⓢ G22	199+49.76	-67.00	627.87	627.89

GIRDER G1.18

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Ⓢ FB-1.7	198+66.39	-41.00	626.20	626.27
F1	198+69.33	-41.00	626.25	626.32
G1	198+79.33	-41.00	626.42	626.52
H1	198+89.33	-41.00	626.60	626.72
I1	198+99.33	-41.00	626.77	626.90
J1	199+09.33	-41.00	626.95	627.06
K1	199+19.33	-41.00	627.12	627.21
L1	199+29.33	-41.00	627.30	627.36
M1	199+39.33	-41.00	627.48	627.51
Ⓢ G22	199+39.44	-41.00	627.48	627.50

Girder	a	b	c	d	e	f	g	h	L1	L2
G1.1*	2"	1/8"	0	1/4"	1/2"	3/8"	0	60'-0"	92'-3 3/4"	
G1.2	1/8"	1/8"	0	1/8"	1/4"	1/4"	0	103'-0"	89'-8 3/4"	
G1.3	1/8"	1/8"	1/8"	1/8"	1/4"	1/4"	1/8"	103'-0"	87'-1 1/4"	
G1.4	1/8"	1/8"	5/8"	1/4"	1/4"	3/8"	1/8"	103'-0"	84'-6 7/8"	
G1.5	1/8"	1/8"	5/8"	1/4"	1/4"	3/8"	1/8"	103'-0"	81'-11 1/2"	
G1.6	1/8"	1/8"	1/8"	1/4"	1/4"	3/8"	1/4"	103'-0"	79'-4 1/8"	
G1.7	1/8"	1/8"	1/8"	1/4"	1/4"	3/8"	1/4"	103'-0"	76'-9 7/8"	
G1.8	1/4"	1 3/8"	1/2"	0	1/8"	1/4"	1/4"	103'-0"	74'-3"	
G1.9	-	-	-	1/4"	-	1/4"	-	10"	10'-9 3/4"	
G1.10	-	-	-	3/8"	-	1/4"	-	-	21'-6 1/8"	
G1.10A	-	-	-	3/8"	-	1/4"	-	-	32'-4"	
G1.11	-	-	-	1/4"	1/4"	1/4"	0	-	43'-1 1/4"	
G1.12	1/8"	1/8"	0	1/8"	1/8"	1 3/8"	1"	104'-4 1/8"	131'-7 1/8"	
G1.13	-	-	-	3/4"	-	1/2"	-	-	13'-11 1/2"	
G1.14	-	-	-	1"	-	3/4"	-	-	23'-4 1/2"	
G1.15	-	-	-	1 1/4"	1 1/8"	1"	5/8"	-	35'-9 1/2"	
G1.16	-	-	-	1 5/8"	1 1/4"	1 1/8"	1/4"	-	48'-2 5/8"	
G1.17	-	-	-	1 3/4"	1 3/8"	1 1/8"	1/4"	-	60'-7 5/8"	
G1.18	-	-	-	3/4"	1 3/8"	1 1/2"	1"	-	73'-0 5/8"	
G1.19	-	-	-	3/8"	7/8"	1"	3/4"	-	85'-5 5/8"	
G1.20	-	-	-	0	3/8"	5/8"	1/2"	0	94'-10 3/4"	

* For G1.1 only, b is end of girder and c is midspan



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

TOP OF SLAB ELEV. - 2
RAMP 1 FLARE
STRUCTURE NO. 016-0724

TYLIN INTERNATIONAL	DESIGNED - JPM, EKH	REVISIONS		SHEET NO. 22 137 SHEETS	F.A.I. RTE. 55	SECTION 0711.2R & 1011.1BR	COUNTY COOK	TOTAL SHEETS 200	SHEET NO. 52
	CHECKED - AMD,	NAME	DATE						
	DRAWN - JPM, EKH								
	CHECKED - AMD,								
	DATE - 08/02/10								

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CONTRACT NO. 60L39