

EAST STRUCTURE

INTERIOR GIRDER MOMENT TABLE

	Q4 Span 1	Pier	Q4 Span 2
I _s (in ⁴)	16218.1	23944.9	13261.3
I _c (in ⁴)	48836.8	—	36975.0
S _s (in ³)	906.7	1049.6	640.5
S _c (in ³)	1301.2	—	935.6
r (K/1)	0.98	1.20	0.91
M ₀ (K)	803.3	1455.1	431.7
s ₀ (K/1)	0.29	—	0.29
M ₀ (K)	302.5	367.2	193.3
M ₁ (K)	1036.2	722.1	840.3
M _{imp} (K)	217.6	158.8	193.3
S ₁ (M ₀ +I) (K)	2089.7	1468.2	1722.7
M ₀ (K)	4154.2	4282.9	3052.0
M ₁ (K)	4970.3	4373.3	3636.5
f _{s0} non-comp (k.s.i)	10.6	16.7	8.1
f _{s0} comp (k.s.i)	2.8	4.2	2.5
f _{s0} [(k+1)] (k.s.i)	19.3	16.8	2.2
f _s (Overload) (k.s.i)	32.7	37.7	32.7
f _s (Total) (k.s.i)	42.5	49.0	42.5
VR (K)	59.0	—	58.7

INTERIOR GIRDER REACTION TABLE

	S. Abut	Pier	N. Abut
R ₀ (K)	52.3	162.7	38.9
R ₁ (K)	51.2	78	461
Imp (K)	10.7	17.2	10.6
R _{total} (K)	114.3	257.9	95.6

WEST STRUCTURE

INTERIOR GIRDER MOMENT TABLE

	Q4 Span 1	Pier	Q4 Span 2
I _s (in ⁴)	16218.1	23944.9	13261.3
I _c (in ⁴)	48836.8	—	36975.0
S _s (in ³)	906.7	1049.6	640.5
S _c (in ³)	1301.2	—	935.6
r (K/1)	0.98	1.31	0.98
M ₀ (K)	795.94	1482.3	462.4
s ₀ (K/1)	0.33	—	0.33
M ₀ (K)	322.1	396.2	218.3
M ₁ (K)	1058.6	730.6	894.4
M _{imp} (K)	226.6	160.7	202.6
S ₁ (M ₀ +I) (K)	2142.3	1485.5	1831.7
M ₀ (K)	4238.4	4373.2	3268.1
M ₁ (K)	4971.1	4373.3	3617.6
f _{s0} non-comp (k.s.i)	10.5	16.9	8.7
f _{s0} comp (k.s.i)	3.0	4.5	2.8
f _{s0} [(k+1)] (k.s.i)	19.8	17.0	23.5
f _s (Overload) (k.s.i)	33.3	38.4	35.0
f _s (Total) (k.s.i)	43.3	49.9	45.5
VR (K)	61.5	—	60.9

INTERIOR GIRDER REACTION TABLE

	S. Abut	Pier	N. Abut
R ₀ (K)	53.6	171.7	42.2
R ₁ (K)	52.9	81.8	52.0
Imp (K)	11.3	18.0	11.7
R _{total} (K)	117.8	271.5	105.9

TOP OF WEB ELEVATIONS

LOCATION	GDR 1	GDR 2	GDR 3	GDR 4	GDR 5	GDR 6	GDR 7	GDR 8	GDR 9	GDR 10	GDR 11	GDR 12	GDR 13	GDR 14
q Brg. S. Abutment	740.49	740.66	740.78	740.90	741.02	741.14	741.13	741.00	740.87	740.74	740.61	740.48	740.35	740.22
q Splice No. 1	740.82	741.00	741.12	741.25	741.38	741.51	741.51	741.39	741.27	741.15	741.04	740.92	740.80	740.68
q Brg. Pier	740.78	740.86	741.08	741.21	741.34	741.47	741.47	741.35	741.23	741.11	741.00	740.88	740.76	740.64
q Splice No. 2	740.74	740.92	741.04	741.17	741.30	741.43	741.43	741.31	741.19	741.07	740.96	740.84	740.72	740.60
q Brg. N. Abutment	740.53	740.71	740.84	740.97	741.10	741.23	741.23	741.12	741.01	740.90	740.79	740.68	740.57	740.46

For fabrication only, does not include dead load deflection

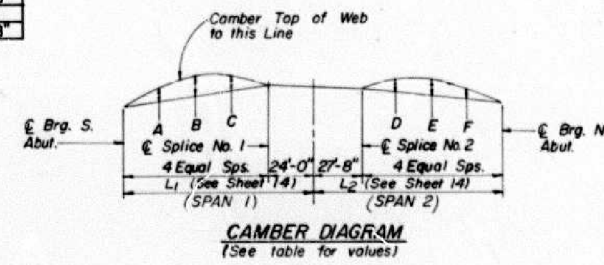
TOP OF WEB CAMBER VALUES

LOCATION	GDR 1	GDR 2	GDR 3	GDR 4	GDR 5	GDR 6	GDR 7	GDR 8	GDR 9	GDR 10	GDR 11	GDR 12	GDR 13	GDR 14
A at 1st Quarter Pt.	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	3"	3"	3"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"
B at 2nd Quarter Pt.	3 1/4"	3 1/4"	3 1/4"	3 1/4"	3 1/4"	3 1/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	3 3/4"
C at 3rd Quarter Pt.	3"	3"	3"	3"	3"	3"	3 5/8"	3 5/8"	3 5/8"	3 5/8"	3 5/8"	3 5/8"	3 5/8"	3 5/8"
D at 1st Quarter Pt.	2 1/8"	2 1/8"	2 1/8"	2 1/8"	2 1/8"	2 1/8"	2 1/8"	2 1/8"	2 1/8"	2 1/8"	2 1/8"	2 1/8"	2 1/8"	2 1/8"
E at 2nd Quarter Pt.	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2"	2"	2"	2"	2"	2"	2"	2"
F at 3rd Quarter Pt.	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"

Camber for concrete deck slab and steel dead load only

NOTES TO FABRICATOR:

See sheet 14 for framing details.
See sheet 14 for individual girder lengths.
Girders 1 thru 6 are parallel to each other.
Girders 7 thru 14 are skewed to each other.
Diaphragms D located between 7 & 8 are perpendicular to q.
Diaphragms D₁ located between 8 & 9 are perpendicular to q.
Diaphragms D₂ are skewed to girders, Diag. D₁ are perpendicular to q Roadway.



DESIGNED L.L. VIELEY
CHECKED D.L.M.
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CHECKED L.L.V.

DECK FRAMING PLAN

FAI 74 & FAU 6729
SECTION (90-15-1, 15-1HB, 15W)-1
TAZEWELL COUNTY
STATION 36+49.87

FOR INFORMATION ONLY