



Note: Offsets are given at 4 points between F.S. 5 and F.S. 6; at 4 points between F.S. 9 and F.S. 10; at 1/10 points between Exp. Jt. 2 and F.S. 3; at 1/10 points between Exp. Jt. 3 and F.S. 12 and at 1/10 points between all other field splices.

GIRDERS AS FABRICATED AND ERECTED DIAGRAM

Legend
 F.S. denotes field splice
 Exp. Jt. denotes expansion joint

NOTE:
 35% of the "Dead Load Deflections" is due to structural steel and 65% is due to concrete.

- BENCH MARKS
- PMB No. 2 Found chiseled "□" in T/Conc. @ east end of retaining wall, south side of Highway 136, east end of Keokuk-Hamilton River Bridge. Elev. 505.06
 - PMB No. 6 S.E. corner of light base on the N.W. corner of the intersection of Water and Main Street in Keokuk. Elev. 509.32
 - PMB No. 7 S.E. corner -- base of traffic light -- N.E. corner of 3rd and Main in Keokuk. Elev. 579.17

LOCATION	TOP OF CONCRETE PAVEMENT ELEVATIONS UNIT 2																										
	Exp. Jt.	.10	.20	.30	.40	.50	.60	.70	.80	.90	F.S. 3	.10	.20	.30	.40	.50	.60	.70	.80	.90	F.S. 4	.10	.20	.30	.40	.50	.60
Girder A	562.28	562.19	562.12	562.04	561.98	561.93	561.88	561.84	561.79	561.75	561.71	561.64	561.57	561.50	561.43	561.35	561.28	561.21	561.14	561.07	561.00	560.92	560.84	560.76	560.68	560.60	560.52
Stringer 1	563.08	562.98	562.88	562.78	562.68	562.64	562.54	562.48	562.43	562.38	562.32	562.25	562.18	562.11	562.04	561.97	561.89	561.82	561.75	561.68	561.61	561.53	561.45	561.37	561.29	561.21	561.13
Girder B	563.41	563.35	563.30	563.24	563.19	563.14	563.10	563.06	563.02	562.97	562.93	562.86	562.79	562.72	562.65	562.58	562.50	562.43	562.36	562.29	562.22	562.14	562.06	561.98	561.90	561.82	561.75
Stringer 2	563.98	563.93	563.89	563.84	563.79	563.75	563.71	563.67	563.63	563.59	563.54	563.47	563.40	563.33	563.26	563.19	563.11	563.04	562.97	562.90	562.83	562.75	562.67	562.59	562.51	562.43	562.36
Girder C	564.55	564.51	564.48	564.44	564.40	564.36	564.32	564.28	564.24	564.20	564.15	564.08	564.01	563.94	563.87	563.80	563.73	563.65	563.58	563.51	563.44	563.36	563.28	563.20	563.12	563.04	562.97
Stringer 3	565.12	565.09	565.07	565.04	565.00	564.97	564.93	564.89	564.85	564.81	564.77	564.69	564.62	564.55	564.48	564.41	564.34	564.26	564.19	564.12	564.05	563.97	563.89	563.81	563.73	563.66	563.58
Girder D	565.69	565.67	565.66	565.63	565.61	565.58	565.54	565.50	565.46	565.42	565.38	565.30	565.23	565.16	565.09	565.02	564.95	564.87	564.80	564.73	564.66	564.58	564.50	564.42	564.34	564.26	564.19
Stringer 4	566.25	566.25	566.25	566.23	566.21	566.18	566.15	566.11	566.07	566.03	565.99	565.91	565.84	565.77	565.70	565.63	565.56	565.49	565.41	565.34	565.27	565.19	565.11	565.03	564.96	564.88	564.80
Girder E	566.82	566.83	566.84	566.83	566.82	566.79	566.76	566.72	566.68	566.64	566.60	566.53	566.45	566.38	566.31	566.24	566.17	566.10	566.02	565.95	565.88	565.80	565.72	565.64	565.57	565.49	565.41
LOCATION	.70	.80	.90	F.S. 5	.25	.50	.75	F.S. 6	.10	.20	.30	.40	.50	.60	.70	.80	.90	F.S. 7	.10	.20	.30	.40	.50	.60	.70	.80	.90
Girder A	560.45	560.37	560.29	560.21	560.12	560.04	559.96	559.87	559.80	559.73	559.66	559.62	559.58	559.56	559.55	559.53	559.51	559.50	559.48	559.46	559.44	559.43	559.41	559.39	559.37	559.36	559.34
Stringer 1	561.06	560.98	560.90	560.82	560.74	560.65	560.57	560.48	560.41	560.34	560.27	560.22	560.17	560.14	560.11	560.07	560.04	560.01	559.98	559.94	559.91	559.87	559.84	559.80	559.77	559.74	559.70
Girder B	561.67	561.59	561.51	561.43	561.35	561.26	561.18	561.09	561.02	560.95	560.88	560.82	560.76	560.71	560.66	560.62	560.57	560.52	560.47	560.42	560.37	560.32	560.27	560.22	560.17	560.12	560.07
Stringer 2	562.28	562.20	562.12	562.04	561.96	561.87	561.79	561.70	561.63	561.56	561.49	561.42	561.35	561.29	561.22	561.16	561.10	561.03	560.97	560.90	560.83	560.77	560.70	560.63	560.56	560.50	560.43
Girder C	562.89	562.81	562.73	562.65	562.57	562.48	562.40	562.31	562.24	562.17	562.09	562.01	561.93	561.85	561.77	561.69	561.61	561.52	561.44	561.35	561.26	561.17	561.09	561.00	560.91	560.82	560.73
Stringer 3	563.50	563.42	563.34	563.26	563.18	563.09	563.01	562.92	562.85	562.78	562.70	562.61	562.51	562.40	562.29	562.18	562.07	561.96	561.85	561.73	561.62	561.50	561.39	561.27	561.15	561.03	560.91
Girder D	564.11	564.03	563.95	563.87	563.79	563.70	563.62	563.53	563.46	563.39	563.30	563.20	563.09	562.95	562.81	562.69	562.54	562.40	562.26	562.12	561.97	561.83	561.68	561.53	561.39	561.24	561.10
Stringer 4	564.72	564.64	564.56	564.48	564.40	564.31	564.23	564.15	564.07	564.00	563.90	563.79	563.65	563.50	563.33	563.17	563.01	562.84	562.67	562.50	562.33	562.15	561.98	561.80	561.63	561.45	561.28
Girder E	565.33	565.25	565.17	565.09	565.01	564.92	564.84	564.76	564.68	564.61	564.51	564.39	564.23	564.04	563.85	563.66	563.47	563.28	563.09	562.89	562.69	562.48	562.27	562.07	561.87	561.66	561.46

HOWARD NEEDLES TAMMEN & BERGENOFF HNTB
 MADE JEL DATE 7-82 CHECKED JMH DATE 7-82

Revised (12-8-83) Concrete pavement elev. over Stringer 1 corrected as marked by Δ.

MISSISSIPPI RIVER BRIDGE
 KEOKUK, IOWA - HAMILTON, ILLINOIS

STEEL ALTERNATE
 DESIGN FOR 0° SKEW
 3340' x 64' CONTINUOUS WELDED
 PLATE GIRDER BRIDGE

DEAD LOAD DEFLECTIONS-UNIT 2

STA. 50+00
 RIVER MILE 383.8
 LEE COUNTY, IOWA

PROJECT NO. BRP-15(13)-38-58
 HANCOCK COUNTY, ILLINOIS

DESIGN SHEET 70 OF

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