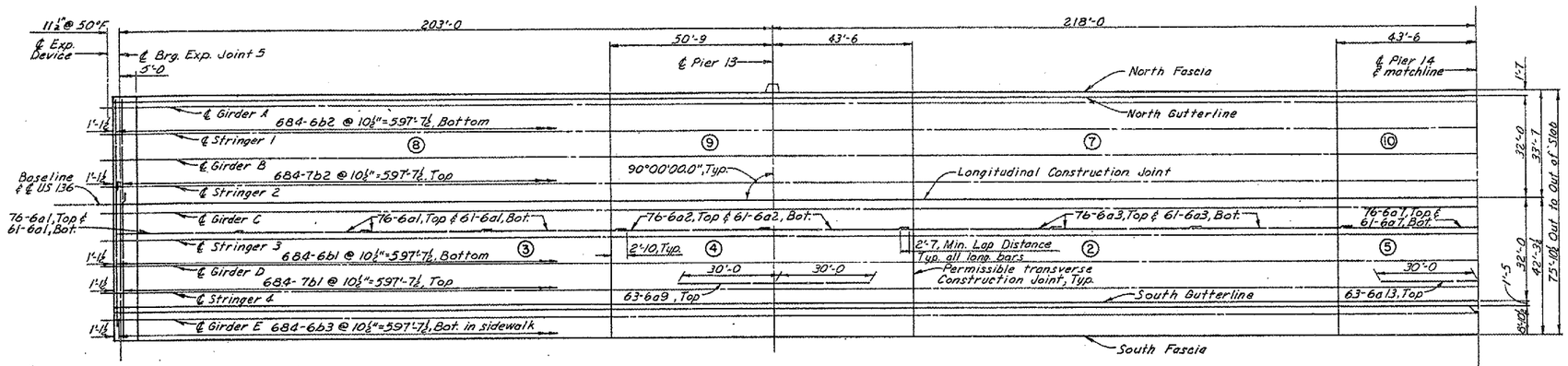
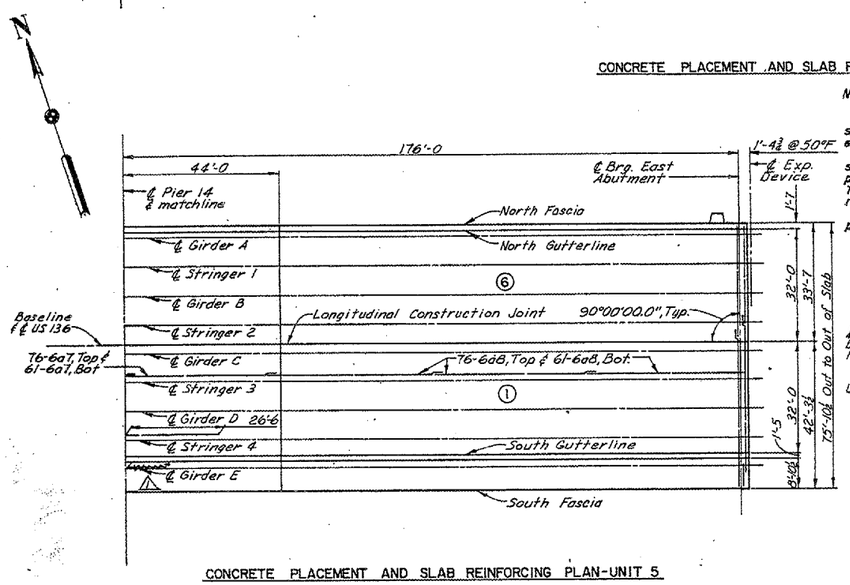
FEDERAL DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	IOWA			39	40
	ILLINOIS				



CONCRETE PLACEMENT AND SLAB REINFORCING PLAN-UNIT 5



CONCRETE PLACEMENT AND SLAB REINFORCING PLAN-UNIT 5

NOTES:

Roadway slab shall be placed in sections and in the sequence indicated by circled numbers of intervals, not exceeding 24 hours.

Alternate procedures for placing concrete may be submitted for approval together with a statement of the proposed method and evidence that the contractor possesses the necessary equipment and facilities to accomplish the required results. preferably ⚠

The transverse construction joints shall be placed parallel to the adjacent ℄ pier.

For detail of slab construction joint, see Sheet 86

For detail of longitudinal bar spacing, see Sheet 86

For "Light Pole Base Details", see Sheet 105 and 106
For "Drain Details", see Sheets 98 and 99
For location of drains see Sheet 28 and 29
"Top of Concrete Pavement Elevations" are shown at 4 points between Exp. Jt. and F.S. 25 and at 1/10 points between all field splices and at 1/10 points between F.S. 29 and East Abutment.
F.S. denotes Field Splice.
5'-0 each side of Joint shall be poured after both Unit 4 and 5 are completed and expansion joint is in place.

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

TOP OF CONCRETE PAVEMENT ELEVATIONS UNIT 5

LOCATION	EXP. JT.	.25	.50	.75	F.S. 25	.10	.20	.30	.40	.50	.60	.70	.80	.90	F.S. 26	.10	.20	.30	.40	.50	.60	.70	.80	.90	F.S. 27	.10	.20	.30	.40
GIRDER A	530.75	530.55	530.36	530.16	529.97	529.75	529.53	529.31	529.09	528.87	528.66	528.44	528.22	528.00	527.78	527.57	527.35	527.13	526.92	526.70	526.48	526.27	526.05	525.83	252.62	525.42	525.21	525.01	524.81
STRINGER 1	530.91	530.72	530.52	530.33	530.13	529.91	529.69	529.48	529.26	529.04	528.82	528.60	528.38	528.17	527.95	527.73	527.51	527.30	527.08	526.87	526.65	526.43	526.22	526.00	525.78	525.58	525.38	525.17	524.97
GIRDER B	531.08	530.88	530.69	530.49	530.30	530.08	529.86	529.64	529.42	529.20	528.99	528.77	528.55	528.33	528.11	527.90	527.68	527.46	527.25	527.03	526.81	526.60	526.38	526.16	525.95	525.75	525.54	525.34	525.14
STRINGER 2	531.24	531.05	530.85	530.66	530.46	530.24	530.02	529.81	529.59	529.37	529.15	528.93	528.71	528.50	528.28	528.06	527.84	527.63	527.41	527.20	526.98	526.76	526.55	526.33	526.11	525.91	525.71	525.50	525.30
GIRDER C	531.30	531.10	530.91	530.71	530.52	530.30	530.08	529.86	529.64	529.43	529.21	528.99	528.77	528.55	528.33	528.12	527.90	527.68	527.47	527.25	527.03	526.82	526.60	526.39	526.17	525.97	525.76	525.56	525.36
STRINGER 3	531.13	530.94	530.74	530.55	530.35	530.13	529.92	529.70	529.48	529.26	529.04	528.82	528.61	528.39	528.17	527.95	527.74	527.52	527.30	527.09	526.87	526.65	526.44	526.22	526.00	525.80	525.60	525.40	525.19
GIRDER D	530.97	530.77	530.58	530.38	530.19	529.97	529.75	529.53	529.31	529.10	528.88	528.66	528.44	528.22	528.00	527.79	527.57	527.35	527.14	526.92	526.70	526.49	526.27	526.06	525.84	525.64	525.43	525.23	525.03
STRINGER 4	530.80	530.61	530.41	530.22	530.02	529.80	529.59	529.37	529.15	528.93	528.71	528.49	528.28	528.06	527.84	527.62	527.41	527.19	526.97	526.76	526.54	526.32	526.11	525.89	525.67	525.47	525.27	525.07	524.86
GIRDER E	530.64	530.44	530.25	530.05	529.86	529.64	529.42	529.20	528.98	528.77	528.55	528.33	528.11	527.89	527.67	527.46	527.24	527.02	526.81	526.59	526.37	526.16	525.94	525.73	525.51	525.31	525.10	524.90	524.70

TOP OF CONCRETE PAVEMENT ELEVATIONS UNIT 5

LOCATION	.50	.60	.70	.80	.90	F.S. 28	.10	.20	.30	.40	.50	.60	.70	.80	.90	F.S. 29	.10	.20	.30	.40	.50	.60	.70	.80	.90	E.Abut.
GIRDER A	524.60	524.40	524.20	524.00	523.79	523.59	523.38	523.16	522.95	522.73	522.52	522.30	522.09	521.87	521.66	521.45	521.21	520.98	520.74	520.51	520.28	520.04	519.81	519.57	519.34	519.11
STRINGER 1	524.77	524.57	524.36	524.16	523.96	523.76	523.54	523.33	523.11	522.90	522.68	522.47	522.25	522.04	521.82	521.61	521.38	521.14	520.91	520.67	520.44	520.21	519.97	519.74	519.50	519.27
GIRDER B	524.93	524.73	524.53	524.33	524.12	523.92	523.71	523.49	523.28	523.06	522.85	522.63	522.42	522.20	521.99	521.78	521.54	521.31	521.07	520.84	520.61	520.37	520.14	519.90	519.67	519.44
STRINGER 2	525.10	524.90	524.69	524.49	524.29	524.09	523.87	523.66	523.44	523.23	523.01	522.80	522.58	522.37	522.15	521.94	521.71	521.47	521.24	521.00	520.77	520.54	520.30	520.07	519.83	519.60
GIRDER C	525.15	524.95	524.75	524.55	524.34	524.14	523.93	523.71	523.50	523.28	523.07	522.85	522.64	522.42	522.21	522.00	521.76	521.53	521.29	521.06	520.83	520.59	520.36	520.12	519.89	519.66
STRINGER 3	524.99	524.79	524.58	524.38	524.18	523.98	523.76	523.55	523.33	523.12	522.90	522.69	522.47	522.26	522.05	521.83	521.60	521.36	521.13	520.89	520.66	520.43	520.19	519.96	519.72	519.49
GIRDER D	524.82	524.62	524.42	524.22	524.01	523.81	523.60	523.38	523.17	522.95	522.74	522.52	522.31	522.09	521.88	521.67	521.43	521.20	520.96	520.73	520.50	520.26	520.03	519.79	519.56	519.33
STRINGER 4	524.66	524.46	524.25	524.05	523.85	523.65	523.43	523.22	523.00	522.79	522.57	522.36	522.14	521.93	521.72	521.50	521.27	521.03	520.80	520.57	520.33	520.10	519.86	519.63	519.40	519.16
GIRDER E	524.49	524.29	524.09	523.89	523.68	523.48	523.27	523.05	522.84	522.62	522.41	522.19	521.98	521.76	521.55	521.34	521.10	520.87	520.63	520.40	520.17	519.93	519.70	519.46	519.23	519.00

CONCRETE PLACEMENT QUANTITIES

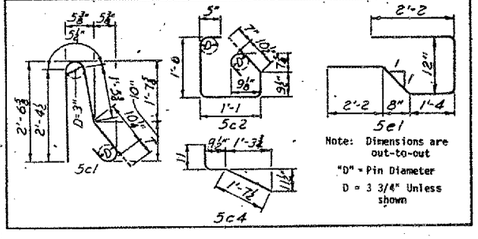
UNIT 5

POUR	CU. YDS.
1	150.4
2	146.0
3	174.4
4	104.9
5	97.9
6	124.8
7	121.0
8	144.5
9	86.9
10	81.1
Light Blisters	.5
Total	1232.4

BILL OF REINFORCEMENT

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
NON-EPOXY COATED					
6a1	Longitudinal	——	244	40'-11	14995
6a2	Longitudinal	——	122	48'-2	8826
6a3	Longitudinal	——	183	47'-3	12987
6a7	Longitudinal	——	122	44'-10	8215
6a8	Longitudinal	——	183	47'-0	12919
6b1	Transverse	——	684	44'-5	45632
6b2	Transverse	——	684	29'-3	30051
6b3	Transverse	——	684	6'-5	6592
			Total		140217
EPOXY-COATED					
6a1	Longitudinal	——	304	40'-11	18683
6a2	Longitudinal	——	152	48'-2	10997
6a3	Longitudinal	——	228	47'-3	16181
6a7	Longitudinal	——	152	44'-10	10236
6a8	Longitudinal	——	228	47'-0	16095
6a9	Long. over Pier	——	63	60'-0	5678
6a13	Long. over Pier	——	63	56'-6	5346
7b1	Transverse	——	684	45'-3	63264
7b2	Transverse	——	684	33'-9	47186
5c1	Curb, Transverse		1192	5'-9	7149
5c2	Curb, Transverse		1192	5'-3	6527
5c3	Curb, Transverse	——	1198	2'-7	3228
5c4	Curb, Transverse		1198	3'-4	4165
5d1	Curb, Longitudinal	——	315	41'-3	13552
5e1	End Beam		112	7'-7	886
5e2	End Beam	——	48	7'-9	388
			Total		229,561

BAR BENDING DIAGRAMS



MISSISSIPPI RIVER BRIDGE
KEOKUK, IOWA - HAMILTON, ILLINOIS

STEEL ALTERNATE

DESIGN FOR 0° SKEW
3340' × 64' CONTINUOUS WELDED PLATE GIRDER BRIDGE

SLAB PLAN - UNIT 5

STA. 80+40.00
RIVER MILE 363.8
LEE COUNTY, IOWA

PROJECT NO. BRF-19-1(3)--38-56
HANCOCK COUNTY, ILLINOIS

DESIGN SHEET 85 OF

DESIGN NO. 282 LEE COUNTY FILE 26723 SHEET 91 OF 227

Revision (5-31-83) Telephone conduit base deleted & 1st paragraph of Notes revised as marked by ⚠.

HOWARD NEEDLES TAMMEN & BERGENDOFF HNTB

DRAWN JMH DATE 5-82 CHECKED DLM DATE 7-82

6767-25-00

FOR INFORMATION ONLY