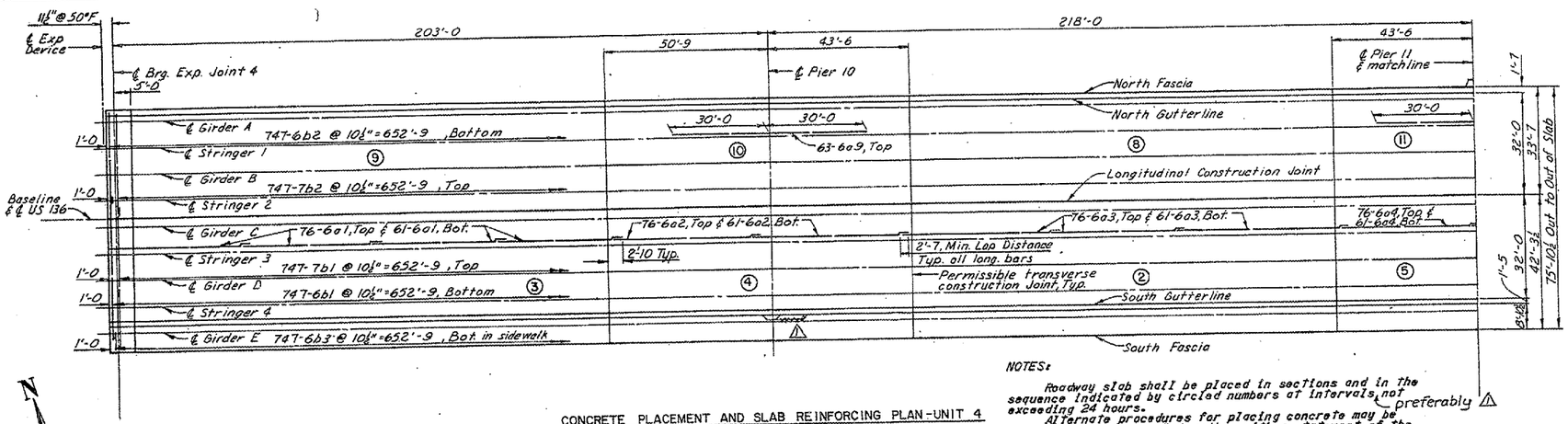
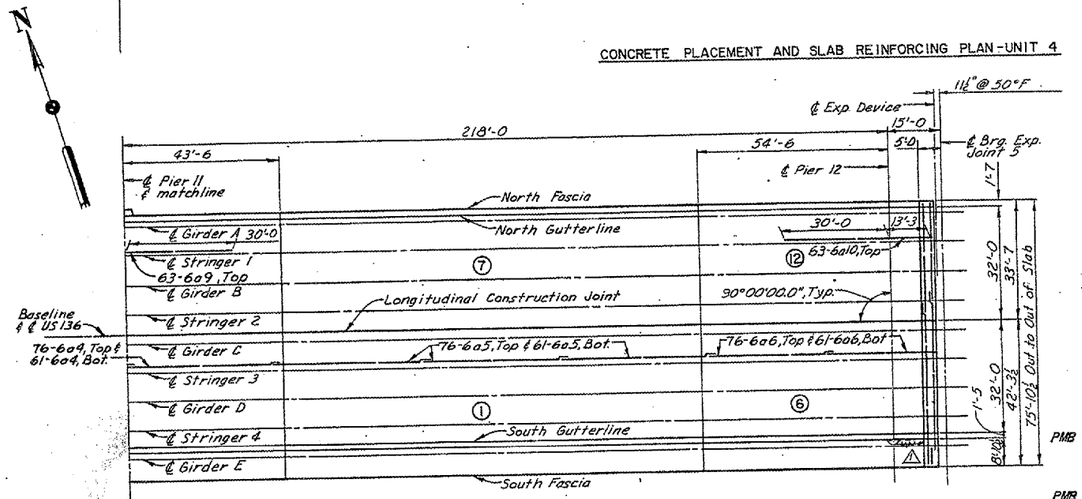
FEDERAL DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	IOWA			30	40
	ILLINOIS				



CONCRETE PLACEMENT AND SLAB REINFORCING PLAN - UNIT 4



CONCRETE PLACEMENT AND SLAB REINFORCING PLAN - UNIT 4

NOTES:

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

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.

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

For detail of slab construction joint, see Sheet 82

For detail of longitudinal bar spacing, see Sheet 82

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 ¼ points between Exp. Jt. and F.S. 19 and at 1/10 points between all field splices and at ¼ points between F.S. 24 and Exp. Jt.

F.S. denotes Field Splice.

5'-0 each side of Joint 4 shall be poured after both Unit 3 and 4 are completed and expansion joint is in place.

5'-0 each side of Joint 5 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

CONCRETE PLACEMENT QUANTITIES

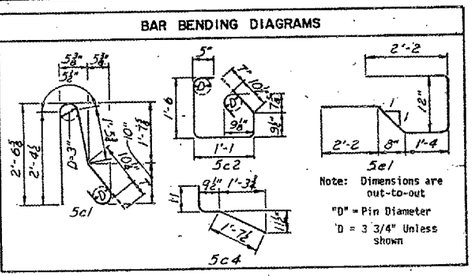
UNIT 4

POUR	CU. YDS.
1	134.5
2	145.9
3	174.4
4	104.9
5	97.1
6	77.5
7	111.3
8	120.9
9	144.5
10	87.0
11	80.5
12	64.4
Light Blisters	.5
Total	1343.4

BILL OF REINFORCEMENT

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
	NON-EPOXY COATED				
6a1	Longitudinal	—	244	40'-11	14985
6a2	Longitudinal	—	122	48'-2	8826
6a3	Longitudinal	—	183	47'-3	12987
6a4	Longitudinal	—	122	44'-7	8170
6a5	Longitudinal	—	183	43'-7	11980
6a6	Longitudinal	—	122	35'-5	6490
6b1	Transverse	—	747	44'-5	49835
6b2	Transverse	—	747	29'-3	32818
6b3	Transverse	—	747	6'-5	7199
			Total		153300
	EPOXY-COATED				
6a1	Longitudinal	—	304	40'-11	18683
6a2	Longitudinal	—	152	48'-2	10997
6a3	Longitudinal	—	228	47'-3	16181
6a4	Longitudinal	—	152	44'-7	10179
6a5	Longitudinal	—	228	43'-7	14925
6a6	Longitudinal	—	152	35'-5	8086
6a9	Long. over Pier	—	126	60'-0	11355
6a10	Long. over Pier	—	63	43'-3	4093
7b1	Transverse	—	747	45'-3	69091
7b2	Transverse	—	747	33'-9	51532
5c1	Curb, Transverse	⌐	1296	5'-9	7772
5c2	Curb, Transverse	⌐	1296	5'-3	7097
5c3	Curb, Transverse	—	1308	2'-7	3524
5c4	Curb, Transverse	⌐	1308	3'-4	4547
5d2	Curb, Longitudinal	—	336	42'-4	14836
5e1	End Beam	⌐	112	7'-7	886
5e2	End Beam	—	48	7'-9	388
			Total		254172

BAR BENDING DIAGRAMS



TOP OF CONCRETE PAVEMENT ELEVATIONS UNIT 4

LOCATION	EXP.JT.	.25	.50	.75	F.S.19	.10	.20	.30	.40	.50	.60	.70	.80	.90	F.S.20	.10	.20	.30	.40	.50	.60	.70	.80	.90	F.S.21	.10	.20	.30	.40
GIRDER A	543.50	543.30	543.11	542.91	542.72	542.50	542.28	542.06	541.85	541.63	541.41	541.19	540.97	540.75	540.54	540.31	540.08	539.85	539.62	539.39	539.17	538.94	538.71	538.48	538.25	538.09	537.92	537.75	537.58
STRINGER 1	543.66	543.47	543.27	543.08	542.88	542.67	542.45	542.23	542.01	541.79	541.57	541.36	541.14	540.92	540.70	540.47	540.24	540.02	539.79	539.56	539.33	539.10	538.88	538.65	538.42	538.25	538.08	537.92	537.75
GIRDER B	543.83	543.63	543.44	543.24	543.05	542.83	542.61	542.39	542.18	541.96	541.74	541.52	541.30	541.08	540.87	540.64	540.41	540.18	539.95	539.72	539.50	539.27	539.04	538.81	538.58	538.42	538.25	538.08	537.91
STRINGER 2	543.99	543.80	543.60	543.41	543.21	543.00	542.78	542.56	542.34	542.12	541.90	541.69	541.47	541.25	541.03	540.80	540.57	540.35	540.12	539.89	539.66	539.43	539.21	538.98	538.75	538.58	538.41	538.25	538.08
GIRDER C	544.05	543.86	543.66	543.47	543.27	543.05	542.83	542.61	542.40	542.18	541.96	541.74	541.52	541.30	541.08	540.85	540.63	540.40	540.17	530.94	539.72	539.49	539.26	539.03	538.80	538.64	538.47	538.30	538.13
STRINGER 3	543.89	543.69	543.50	543.30	543.11	542.89	542.67	542.45	542.23	542.01	541.80	541.58	541.36	541.14	540.92	540.69	540.47	540.24	540.01	539.78	539.55	539.32	539.10	538.87	538.64	538.47	538.30	538.14	537.97
GIRDER D	543.72	543.53	543.33	543.14	542.94	542.72	542.50	542.29	542.07	541.85	541.63	541.41	541.19	540.97	540.76	540.53	540.30	540.07	539.84	539.62	539.39	539.16	538.93	538.70	538.47	538.31	538.14	537.97	537.80
STRINGER 4	543.56	543.36	543.17	542.97	542.78	542.56	542.34	542.12	541.90	541.68	541.47	541.25	541.03	540.81	540.59	540.36	540.14	539.91	539.68	539.45	539.22	538.99	538.77	538.54	538.31	538.14	537.97	537.81	537.64
GIRDER E	543.39	543.20	543.00	542.81	542.61	542.39	542.17	541.96	541.74	541.52	541.30	541.08	540.86	540.64	540.43	540.20	539.97	539.74	539.51	539.29	539.06	538.83	538.60	538.37	538.14	537.98	537.81	537.64	537.47

TOP OF CONCRETE PAVEMENT ELEVATIONS UNIT 4

LOCATION	.50	.60	.70	.80	.90	F.S.22	.10	.20	.30	.40	.50	.60	.70	.80	.90	F.S. 23	.10	.20	.30	.40	.50	.60	.70	.80	.90	F.S. 24	.25	.50	.75	Exp.Jt.
GIRDER A	537.42	537.25	537.08	536.91	536.74	536.58	536.34	536.11	535.88	535.64	535.41	535.17	534.94	534.71	534.47	534.24	534.00	533.77	533.54	533.30	533.07	532.83	532.60	532.37	532.13	531.90	531.61	531.32	531.03	530.75
STRINGER 1	537.58	537.41	537.25	537.08	536.91	536.74	536.51	536.27	536.04	535.81	535.57	535.34	535.10	534.87	534.64	534.40	534.17	533.93	533.70	533.47	533.23	533.00	532.76	532.53	532.30	532.06	531.77	531.49	531.20	530.91
GIRDER B	537.75	537.58	537.41	537.24	537.07	536.91	536.67	536.44	536.21	535.97	535.74	535.50	535.27	535.04	534.80	534.57	534.33	534.10	533.87	533.63	533.40	533.16	532.93	532.70	532.46	532.23	531.94	531.65	531.36	531.08
STRINGER 2	537.91	537.74	537.58	537.41	537.24	537.07	536.84	536.60	536.37	536.14	535.90	535.67	535.43	535.20	534.97	534.73	534.50	534.26	534.03	533.80	533.56	533.33	533.09	532.86	532.63	532.39	532.10	531.82	531.53	531.24
GIRDER C	537.97	537.80	537.63	537.46	537.30	537.13	536.89	536.66	536.43	536.19	535.96	535.72	535.49	535.26	535.02	534.79	534.55	534.32	534.09	533.85	533.62	533.38	533.15	532.92	532.68	532.45	532.16	531.87	531.59	531.30
STRINGER 3	537.80	537.63	537.47	537.30	537.13	536.96	536.73	536.49	536.26	536.03	535.79	535.56	535.32	535.09	534.86	534.62	534.39	534.15	533.92	533.69	533.45	533.22	532.98	532.75	532.52	532.28	532.00	531.71	531.42	531.13
GIRDER D	537.64	537.47	537.30	537.13	536.97	536.80	536.56	536.33	536.10	535.86	535.63	535.39	535.16	534.93	534.69	534.46	534.22	533.99	533.76	533.52	533.29	533.05	532.82	532.59	532.35	532.12	531.83	531.54	531.26	530.97
STRINGER 4	537.47	537.30	537.14	536.97	536.80	536.63	536.40	536.17	535.93	535.70	535.46	535.23	535.00	534.76	534.53	534.29	534.06	533.83	533.59	533.36	533.12	532.89	532.66	532.42	532.19	531.95	531.67	531.38	531.09	530.80
GIRDER E	537.31	537.14	536.97	536.80	536.64	536.47	536.23	536.00	535.77	535.53	535.30	535.06	534.83	534.60	534.36	534.13	533.89	533.66	533.43	533.19	532.96	532.72	532.49	532.26	532.02	531.79	531.50	531.21	530.93	530.64

Revision (5-31-83) Telephone conduit bases deleted & 1st paragraph in Notes revised as marked by △.

MISSISSIPPI RIVER BRIDGE
KEOKUK, IOWA - HAMILTON, ILLINOIS

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

SLAB PLAN - UNIT 4

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

PROJECT NO. BRF-18-1(3)--38-56
HANCOCK COUNTY, ILLINOIS

DESIGN SHEET 81 OF

HOWARD NEEDLES TAMMEN & BERGENDOFF HNTB

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

6767-25-00

DESIGN NO. 282 LEE COUNTY FILE 26723 SHEET 87 OF 227

FOR INFORMATION ONLY