

Rm. for 6-29-79 setting 6-6-79

INDEX OF SHEETS

1. COVER SHEET
2. GENERAL PLAN & ELEVATION
3. HORIZONTAL CONTROL, BENCH MARKS & R.O.W.
4. STRUCTURAL STEEL PLAN - SPANS 15 THRU 23
5. STRUCTURAL STEEL GIRDERS - SPANS 15 THRU 23
6. STRUCTURAL STEEL GIRDERS - SPANS 15 THRU 23
7. STRUCTURAL STEEL DETAILS - SPANS 15 THRU 23
8. BEARINGS & CROSS FRAMES - SPANS 15 THRU 23
9. SUPERSTRUCTURE DETAILS
10. DIAGRAMS - D.L. DEF - CAMBER - SLAB. ELEV. - SPANS 15 THRU 23.
11. TOP OF SLAB ELEVATIONS - SPANS 15, 16 & 17
12. TOP OF SLAB ELEVATIONS - SPANS 18, 19 & 20
13. TOP OF SLAB ELEVATIONS - SPANS 21, 22 & 23
14. SUPERSTRUCTURE - SPANS 15 THRU 17

*15-25. SUBSTRUCTURE DETAILS

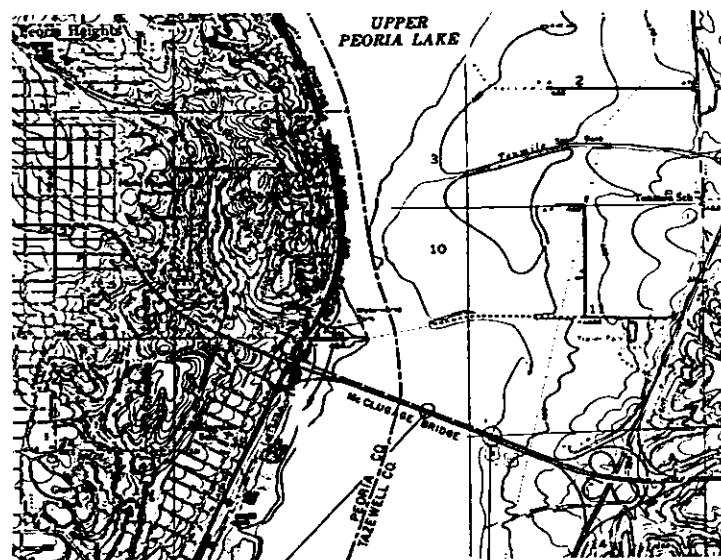
STANDARDS 2298-4 2299-7 2300-1

* Includes Sheet 23A.

SUMMARY OF QUANTITIES

QUANTITY	UNIT	ITEM	CODE NO.
1	L. SUM	FURNISHING & ERECTING STRUCTURAL STEEL	507001
1	L. SUM	MOBILIZATION	X04748
1000	HOURS	TRAINEES	Z10527

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANS FOR PROPOSED FEDERAL AID HIGHWAY F.A. ROUTE 49 SECTION 15-1(F&E) PROJECT BR-F-49(34) PEORIA-TAZEWELL COUNTIES C-94-107-79



PROPOSED PROJECT
BEGINS STA. 230+52.77
PIER 13

PROPOSED PROJECT
ENDS STA. 246+46.02
EAST ABUTMENT

NET LENGTH OF PROPOSED PROJECT
1593.25 LIN. FT. = 0.30 MI.

LAYOUT
SCALE = 1" = 2000'

THE PROPOSED IMPROVEMENT INCLUDES THE FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR SPANS 15 THRU 23 BEGINNING AT PIER 13 (STA. 230+52.77) THRU THE EAST ABUTMENT (STA. 246+46.02). THE STRUCTURAL STEEL INCLUDES PLATE GIRDERS, CROSS FRAMES, LATERAL BRACING AND BEARINGS.

AS REVISED

DESIGN DESIGNATION
3996 (94) MAJOR (PCC-20)

CONTRACT NO. 33871

As Revised 8-24-79 L.W.

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA-49	15-1 (F&E)	PEORIA AND TAZEWELL	25	1A
FED. ROAD DIST. NO. 7				
PROJECT			BR-F-49(34)	

P-94-107-69



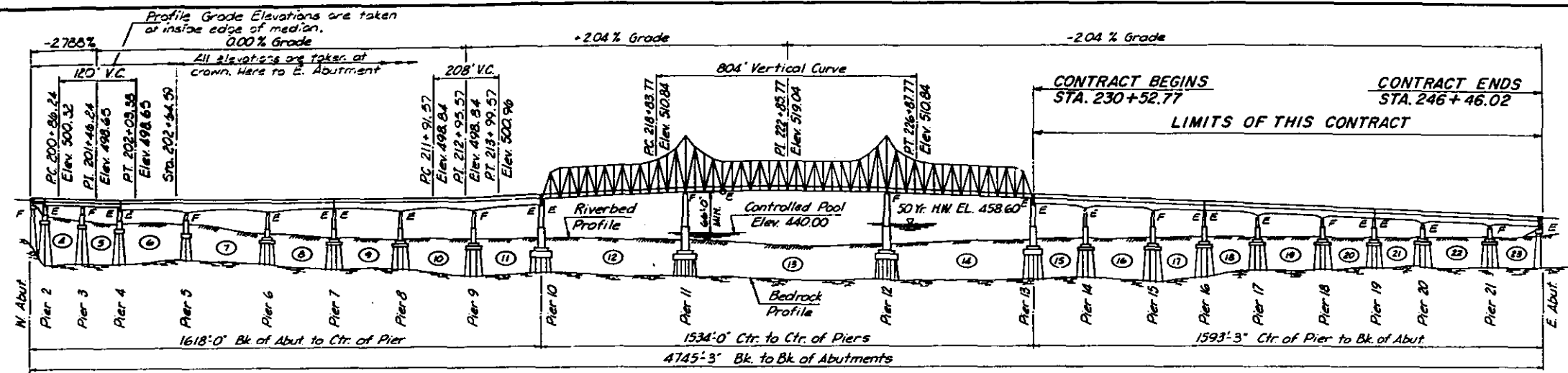
LOCATION OF SECTION INDICATED THUS

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
SUBMITTED	4-24-79
EXAMINED	7-14-79
PASSED	7-14-79
APPROVED	7-14-79
DISTRICT ENGINEER	
ENGINEER OF PLANS AND CONTRACTS	
ENGINEER OF DESIGN	
DIRECTOR OF HIGHWAYS	

SUBMITTED	
EXAMINED	
EXAMINED	7-14-79
DISTRICT ENGINEER	

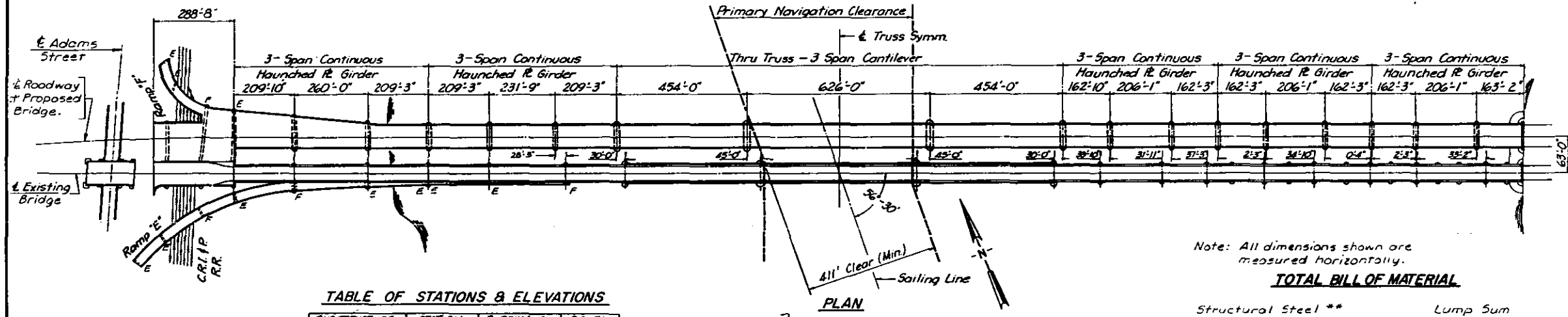
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	
DIVISION ADMINISTRATOR	DATE

REEL 4-129



Note:
Station Equation
Sta. 201+67.85 Back +
Sta. 201+64.59 Forward

ELEVATION



Note: All dimensions shown are measured horizontally.

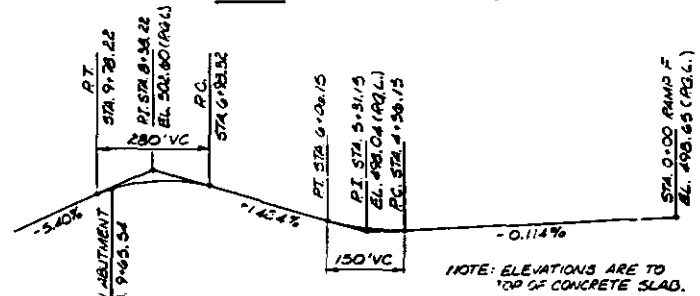
TOTAL BILL OF MATERIAL

Structural Steel ** Lump Sum
**Calculated Weight of Structural Steel:
M 183 365,960 Lbs.
M 223 3,105,760 Lbs.
Bearings 89,230 Lbs.

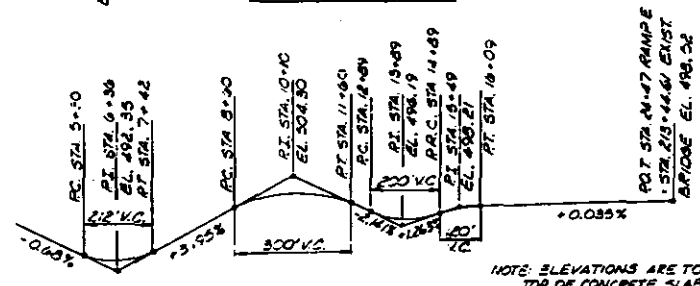
TABLE OF STATIONS & ELEVATIONS

SUBSTRUCTURE	STATION	EL. RDWY	PG EL.
BK. N. ABUTMENT	199+03.24		503.45
PIER 2	200+75.17		504.00
PIER 3	201+89.44		498.67
PIER 4	203+99.27	498.64	
PIER 5	205+25.27	498.64	
PIER 6	208+68.52	498.64	
PIER 7	210+77.77	498.64	
PIER 8	213+09.52	499.52	
PIER 9	215+18.77	503.89	
PIER 10	219+72.77	512.45	
PIER 11	225+98.77	512.45	
PIER 12	230+32.77	503.89	
PIER 13	232+15.60	500.07	
PIER 14	234+21.69	499.67	
PIER 15	235+83.04	498.56	
PIER 16	237+40.19	499.25	
PIER 17	239+52.27	495.04	
PIER 18	241+14.28	481.73	
PIER 19	242+76.77	478.42	
PIER 20	244+62.83	474.22	
PIER 21	246+49.02	470.89	
BK. E. ABUTMENT	9+63.54		495.71
PIER 22	8+55.80		499.81
BK. S. ABUTMENT	8+58.50		498.59
PIER 23	9+09		502.31
PIER 24	11+40		501.22
PIER 25	12+92.88		498.57
PIER 26	14+56.68		497.67
PIER 27	17+56.74		498.41
PIER 28	19+56.04		498.48
PIER 29	21+75.53		498.53
PIER 30	24+35.99		498.64

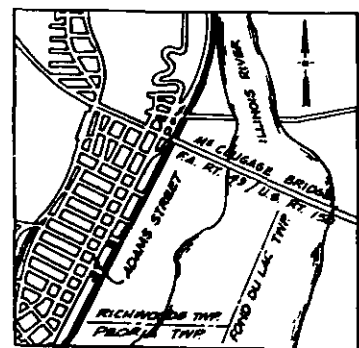
THESE ELEVATIONS ARE TO TOP OF CONCRETE SLAB TO TOP OF CLASS II SURFACE.



RAMP F PROFILE



RAMP E PROFILE



LOCATION MAP

GENERAL NOTES

Fasteners shall be high strength bolts. Bolts 7/8" open holes 1 1/8" unless otherwise noted. The basic lead silica chromate paint system shall be used for shop and field painting of structural steel.

Structural steel noted on the plans as M223 shall be Grade 50.

Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.

Anchor bolts shall be set before bolting diaphragms or cross frames over supports. It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.

The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges, webs and all splice plate material of the steel girders or wide flange beams.

Bearing seat surfaces shall be adjusted to the designated elevations within a tolerance of 1/8 inch. Adjustment shall be made by shimming the bearing. Two 1/2" adjusting shims of the dimensions of the bottom bearing plate shall be provided for each bearing in addition to all other plates or shims.

DESIGN STRESSES

STRUCTURAL STEEL	M183	M223	M222
THICKNESS OF PLATES	ALL UP TO 2"	UP TO 2"	UP TO 4"
	20,000 P.S.I.	27,000 P.S.I.	27,000 P.S.I.
REINFORCEMENT BARS	M51	Fy = 60,000 P.S.I.	
CONCRETE	1" C = 3,500 P.S.I.		

LOADING H5 20-44 E Future wearing surface of 25 lbs./sq. ft. A.A.S.H.T.O. SPECIFICATIONS 1973 & INTERIM 1974.

APPROVED
FOR STRU
Y ONLY

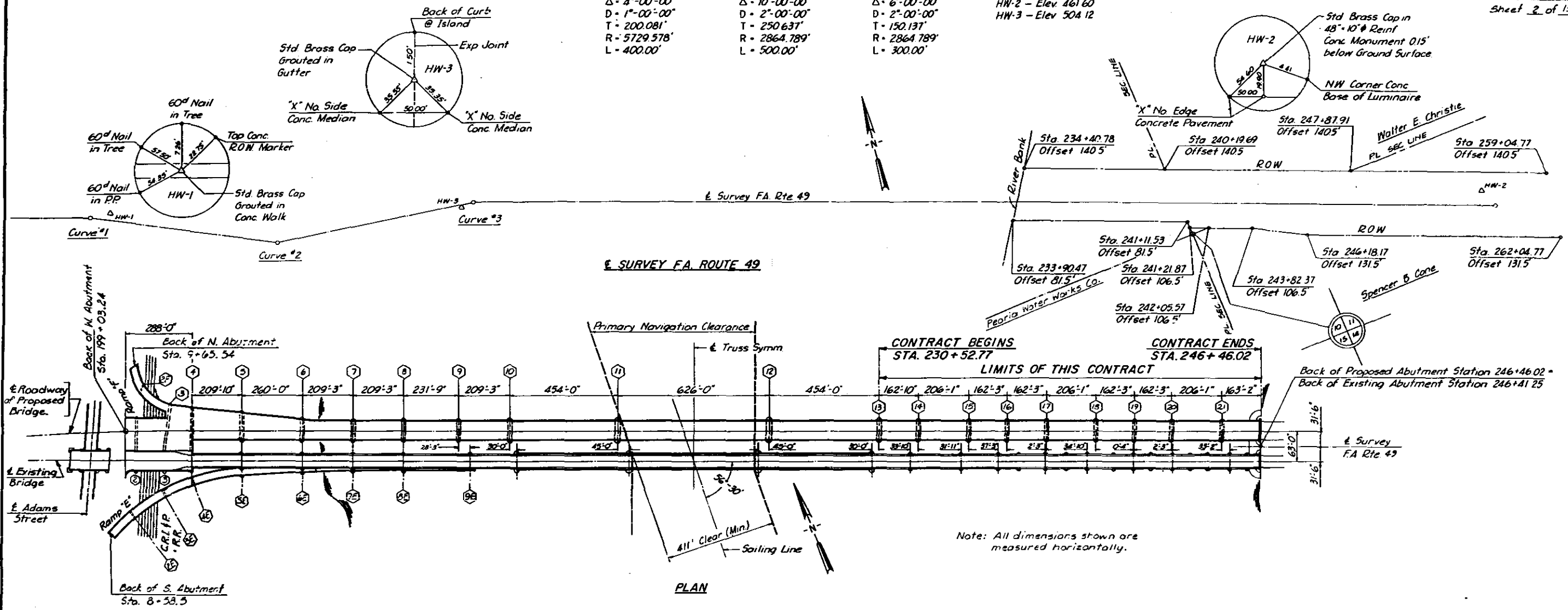
GENERAL PLAN & ELEVATION

M^cCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 49 SEC. 15-1 (F&E)
PEORIA & TAZEWELL COUNTIES

NO. OF SHEETS	SHEET NO.	PROJECT	DATE
13	13-1	PEORIA AND TAZEWELL	25
13	13-1	PEORIA AND TAZEWELL	25

Sheet 2 of 13

Curve #1	Curve #2	Curve #3	Bench Mark Data
PI = 183+00.081	PI = 191+00.637	PI = 199+35.06	HW-1 - Elev 562.11
Δ = 4°-00'-00"	Δ = 10°-00'-00"	Δ = 6°-00'-00"	HW-2 - Elev 461.60
D = 1°-00'-00"	D = 2°-00'-00"	D = 2°-00'-00"	HW-3 - Elev 504.12
T = 200.081'	T = 250.637'	T = 150.137'	
R = 5729.578'	R = 2864.789'	R = 2864.789'	
L = 400.00'	L = 500.00'	L = 300.00'	



RAMP F CURVE DATA		RAMP E CURVE DATA	
PI = 8+74.623	PI = 9+3.15	PI = 13+6.99	
Δ = 91°-59'-00.68"	Δ = 53°-30'-58.01"	Δ = 29°-08'-50.90"	
D = 27°-56'-56.98"	D = 12°-00'-00"	D = 7°-30'-00"	
T = 212.223'	T = 240.746'	T = 198.619'	
R = 205.0'	R = 477.465'	R = 763.944'	
L = 329.110'	L = 445.968'	L = 388.633'	

HORIZONTAL CONTROL, BENCH MARKS & ROW

M^{rs} CLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 49 SEC. 15-1 (F&E)
PEORIA & TAZEWELL COUNTIES

CRN
DLB
RAH
CRN

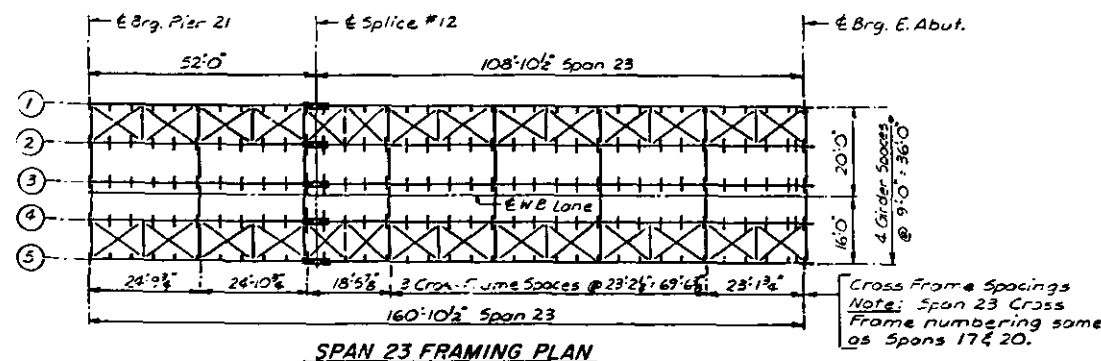
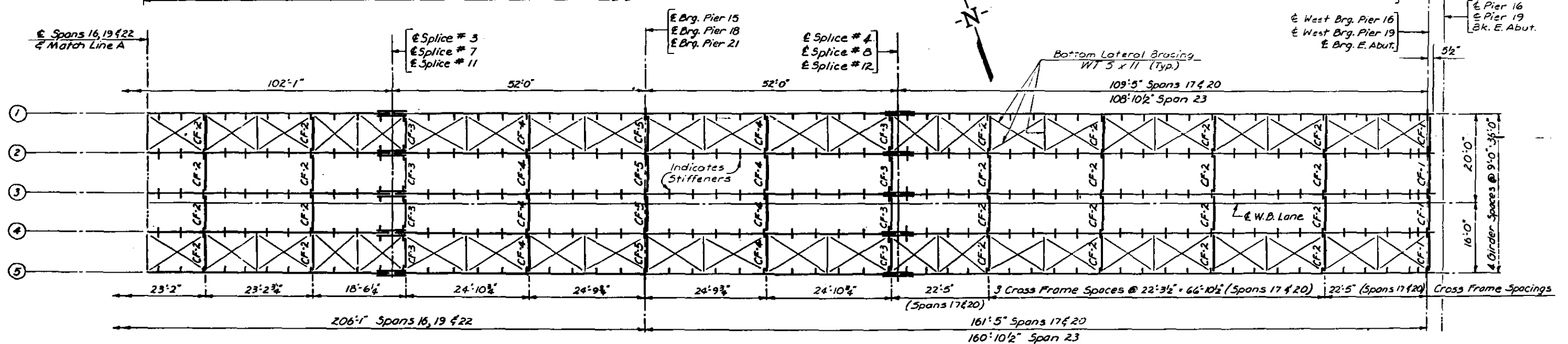
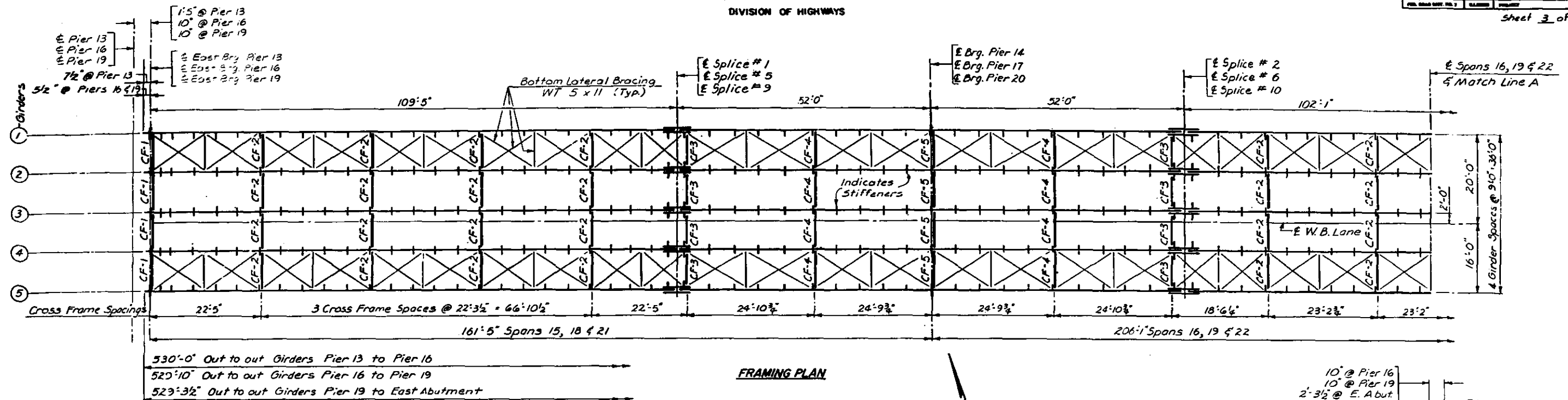
HANSON ENGINEERS
INCORPORATED
SPRINGFIELD, ILLINOIS PEORIA, ILLINOIS

74001
4-20-79

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

DATE	BY	CHECKED	SCALE	SHEET NO.
PA 49	15-1	15-1	25	4
PA 49	15-1	15-1	25	4
PA 49	15-1	15-1	25	4

Sheet 3 of 13



Note: All dimensions shown are measured horizontally.

STRUCTURAL STEEL PLAN
SPANS 15 THRU 23

M^o CLUGAGE BRIDGE

OVER THE ILLINOIS RIVER

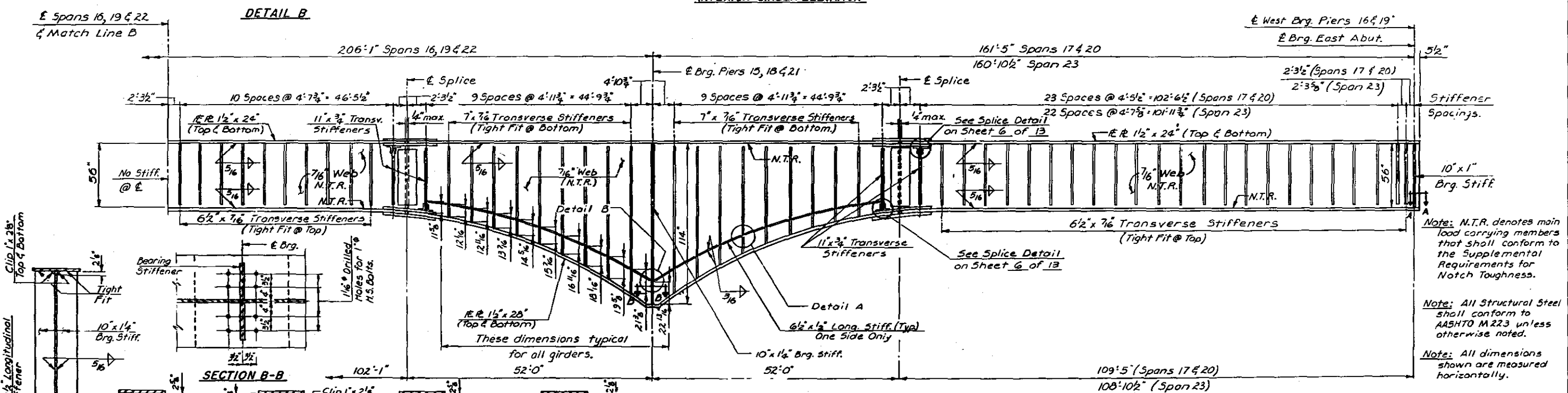
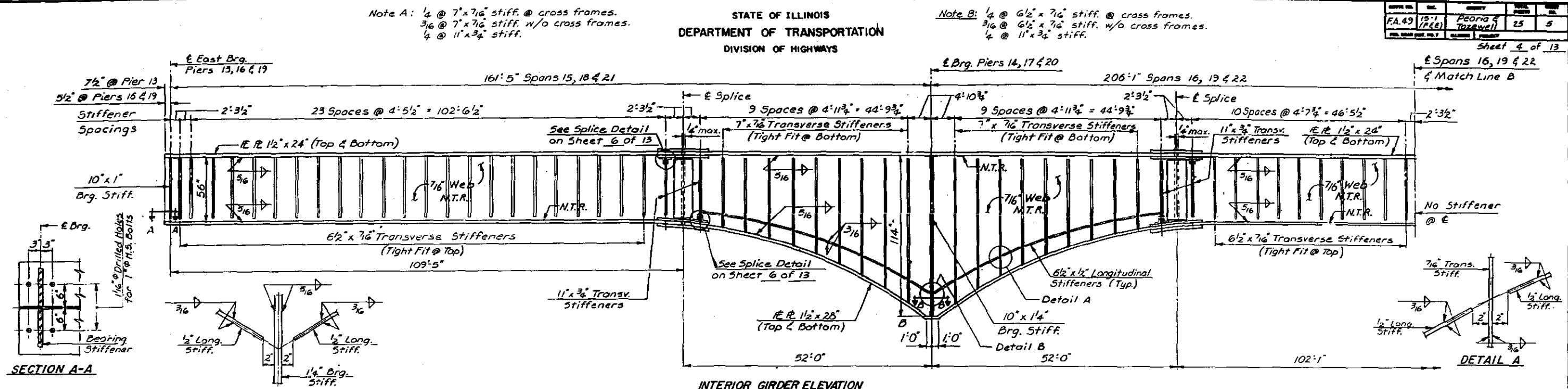
F.A. ROUTE 49 SEC. 15-1 (F&E)
PEORIA & TAZEWELL COUNTIES

D.L.B.	HANSON ENGINEERS	74001
C.E.N.	INCORPORATED	4-20-79
DAN	SPRINGFIELD, ILLINOIS	PEORIA, ILLINOIS
C.E.N.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.	DATE	BY	CHECKED
FA. 49	15-1 (P. 48)	Peoria & Tazewell	25	5

Sheet 4 of 13



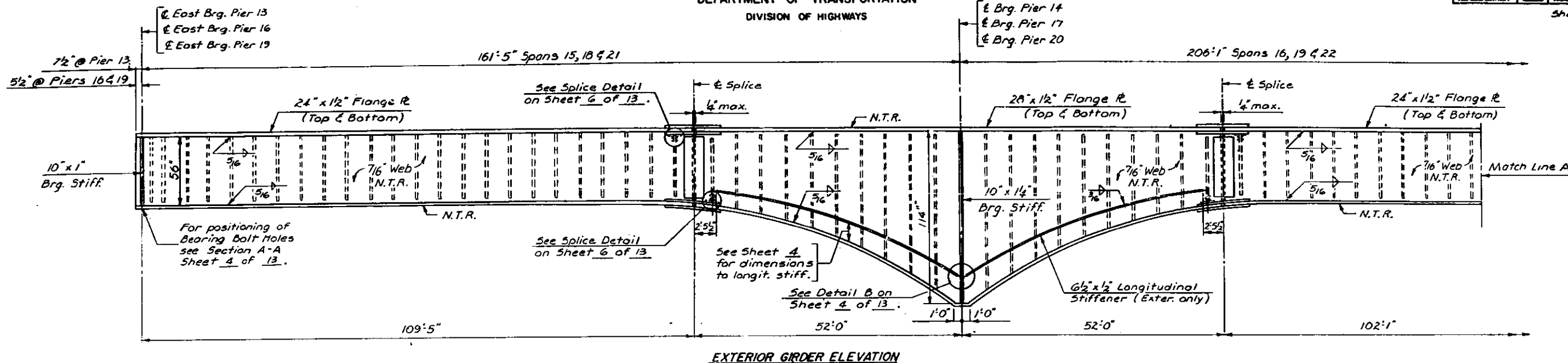
STRUCTURAL STEEL GIRDERS
SPANS 15 THRU 23

M^cCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 49 SEC. 15-1 (F&E)
PEORIA & TAZEWELL COUNTIES

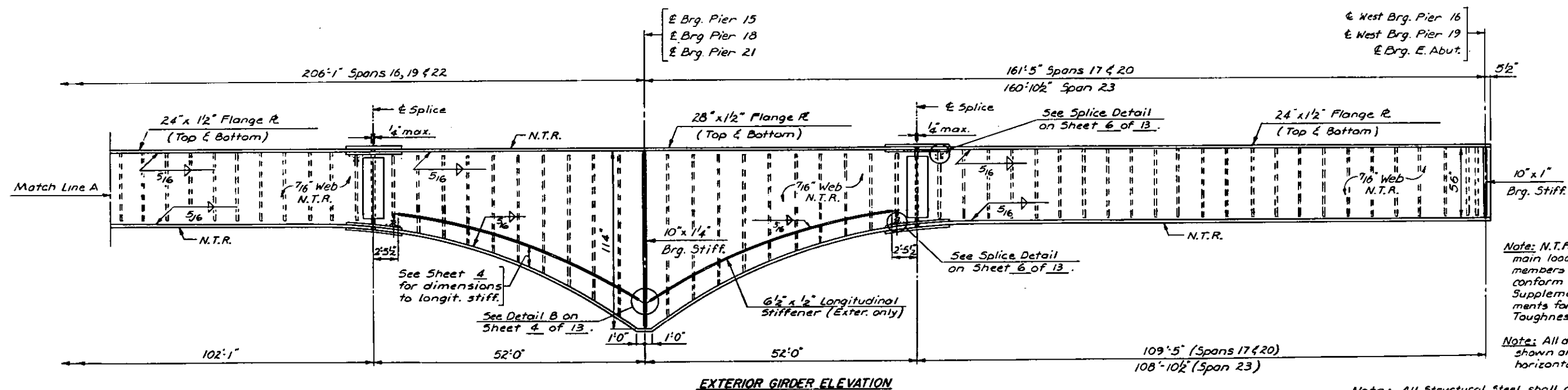
DLB
JEH
DAN
CRN

HANSON ENGINEERS
INCORPORATED

74001
4-20-79



EXTERIOR GIRDER ELEVATION

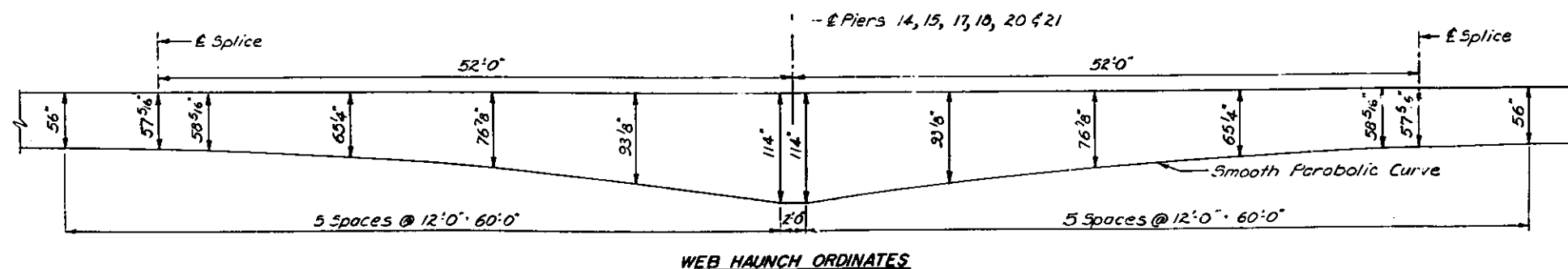


EXTERIOR GIRDER ELEVATION

Note: N.T.A. denotes main load carrying members that shall conform to the Supplemental Requirements for Notch Toughness.

Note: All dimensions shown are measured horizontally.

Note: All Structural Steel shall conform to AASHTO M 223 unless otherwise noted.



WEB HAUNCH ORDINATES

**STRUCTURAL STEEL GIRDERS
SPANS 15 THRU 23**

M^cCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 49 SEC. 15-1 (F8E)
PEORIA & TAZEWELL COUNTIES

DLB
JEM
DAN
CRM

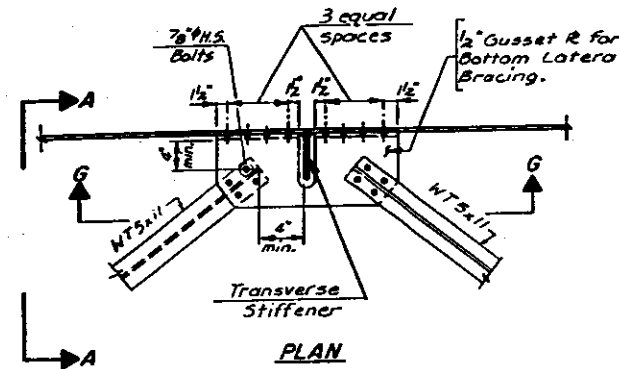


34001

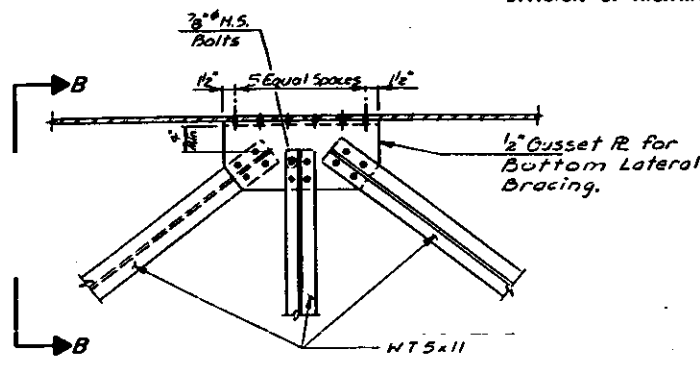
4-27-79

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

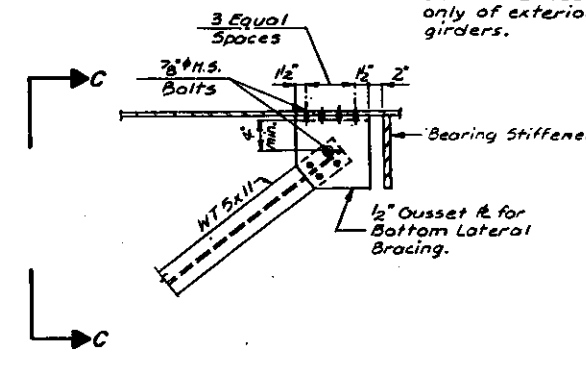
PROJECT NO. 15-1 (F&E)
F.A. 49
PEORIA & TAZEWELL COUNTIES
Sheet 6 of 13



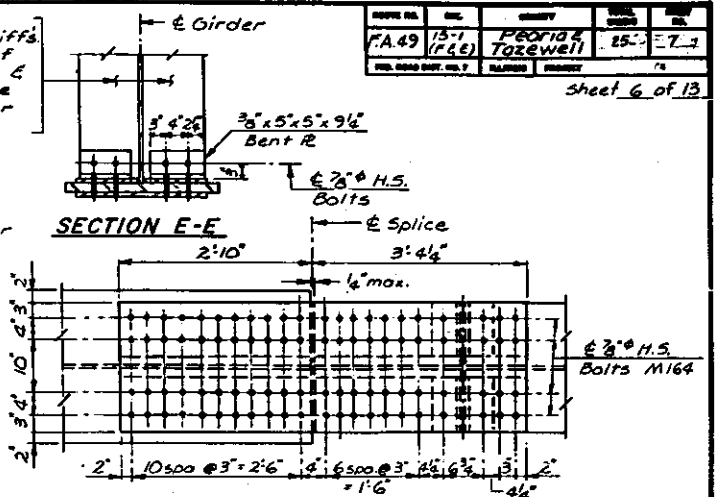
PLAN



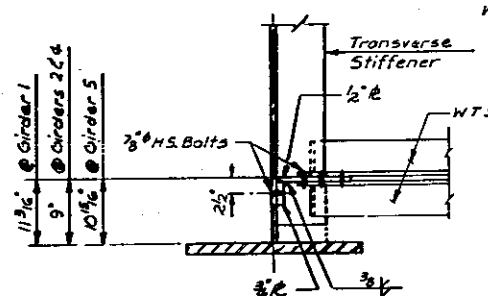
PLAN



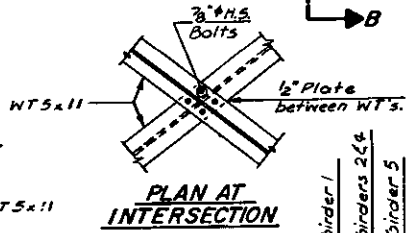
PLAN



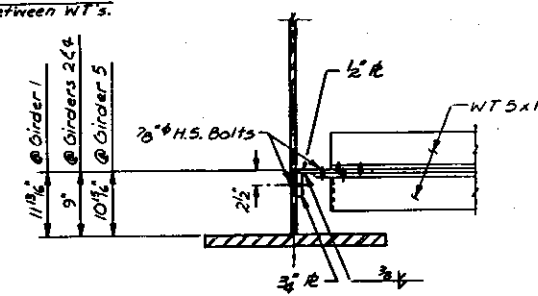
SECTION E-E



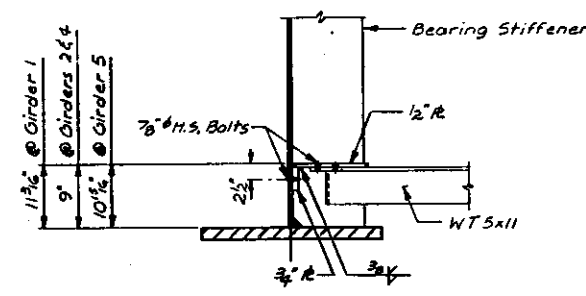
SECTION A-A
(At Transverse Stiffener)



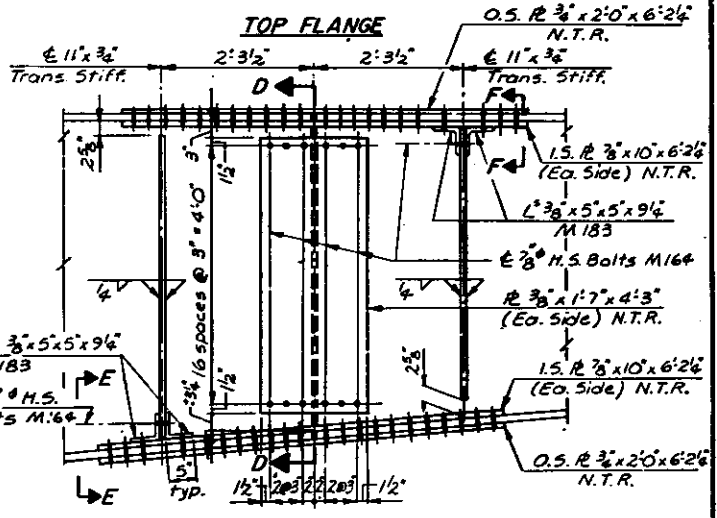
PLAN AT INTERSECTION



SECTION B-B
(At Girder Between Cross Frames)

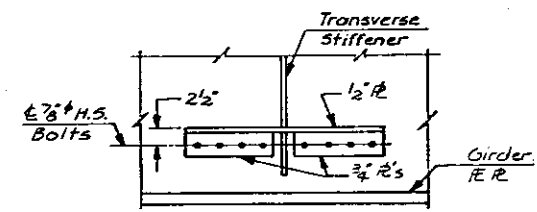


SECTION C-C
(At Bearing Stiffener)



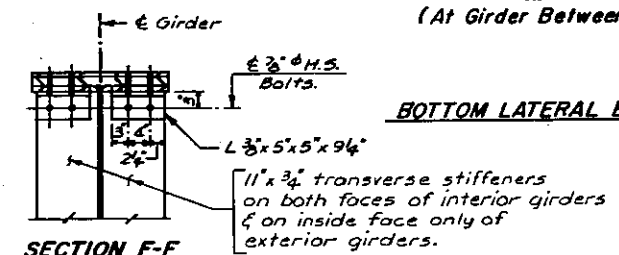
TOP FLANGE

BOTTOM FLANGE



SECTION G-G

Note: WT 5x11 not shown for clarity of section.



SECTION F-F

BOTTOM LATERAL BRACING DETAILS

INTERIOR GIRDER MOMENT TABLE				
	0.4 Point	Piers	0.5 Point	
Spans 15, 16, 17	17, 18, 20	18, 20	16, 19	
21	21	21	22	
I (in ⁴)	65,915	334,160	65,915	
I _e (in ⁴)	1.66	1.66	1.66	
M _e (K)	2,517	6,752	2,055	
M _t (K)	1,800	3,113	1,775	
Imp (K)	315	504	268	
M _{total} (K)	4,632	10,369	4,098	
f _s (KSI)	24.9	21.8	22.0	

Note: Reaction & Moment tables are based on a D.C. load of 25 #/sq. ft. of future wearing surface & 94 #/sq. ft. of concrete slab, plus the weight of the structural steel.

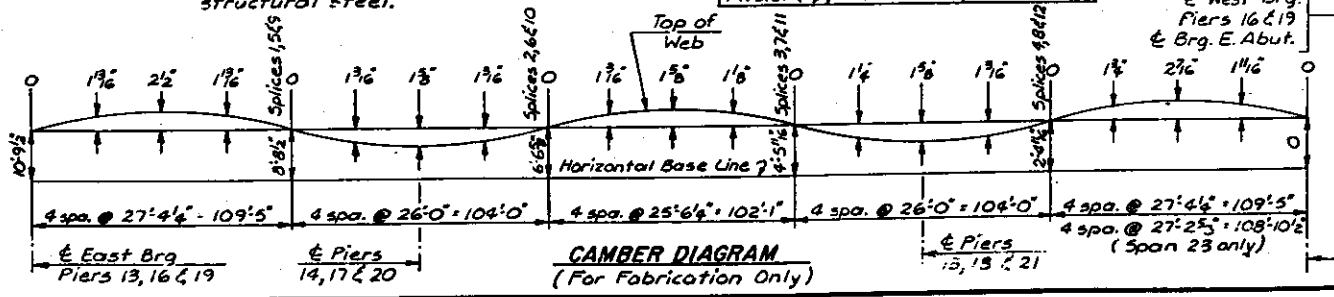
INTERIOR GIRDER REACTION TABLE		
	End Pier	Int. Pier
R _e (K)	91.7	346.6
R _t (K)	59.3	139.9
R _i (K)	10.4	22.7
R _{total} (K)	161.4	509.2

N.T.R. denotes material that shall conform to the Supplemental Requirements for Notch Toughness.

Steel Specifications this sheet:
Splice Plates — AASHTO M223
Lateral Bracing — AASHTO M183
Bolts — AASHTO M-164

TOP OF WEB ELEVATIONS *					
	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5
E Brg. Pier #13	502.133	502.315	502.456	502.378	502.216
E Splice #1	500.051	500.233	500.374	500.296	500.134
E Brg. Pier #14	498.840	499.022	499.163	499.085	498.923
E Splice #2	497.897	498.079	498.220	498.142	497.980
E Splice #3	495.815	495.997	496.138	496.060	495.898
E Brg. Pier #15	494.636	494.818	494.959	494.881	494.719
E Splice #4	493.732	493.914	494.055	493.977	493.815
E W Brg. Pier #16	491.343	491.525	491.666	491.588	491.426
E E Brg. Pier #16	491.309	491.491	491.632	491.554	491.392
E Splice #5	489.227	489.409	489.550	489.472	489.310
E Brg. Pier #17	488.06	488.198	488.339	488.261	488.099
E Splice #6	487.073	487.255	487.396	487.318	487.156
E Splice #7	484.991	485.173	485.314	485.236	485.074
E Brg. Pier #18	483.812	483.994	484.135	484.057	483.895
E Splice #8	482.908	483.090	483.231	483.153	482.991
E W Brg. Pier #19	480.519	480.701	480.842	480.764	480.602
E E Brg. Pier #19	480.485	480.667	480.808	480.730	480.568
E Splice #9	478.414	478.596	478.737	478.659	478.497
E Brg. Pier #20	477.192	477.374	477.515	477.437	477.275
E Splice #10	476.260	476.442	476.583	476.505	476.343
E Splice #11	474.178	474.360	474.501	474.423	474.261
E Brg. Pier #21	472.988	473.170	473.311	473.233	473.071
E Splice #12	472.095	472.277	472.418	472.340	472.178
E Brg. E. Abut.	469.706	469.888	470.029	469.951	469.789

* Elevations include camber for dead load deflections and are for fabrication only.



CAMBER DIAGRAM
(For Fabrication Only)

STRUCTURAL STEEL DETAILS
SPANS 15 THRU 23

M^cCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 49 SEC. 15-1 (F&E)
PEORIA & TAZEWELL COUNTIES

DLB.
CRN.
DAN.
CRN.

HANSON ENGINEERS
INCORPORATED
SPRINGFIELD, ILLINOIS

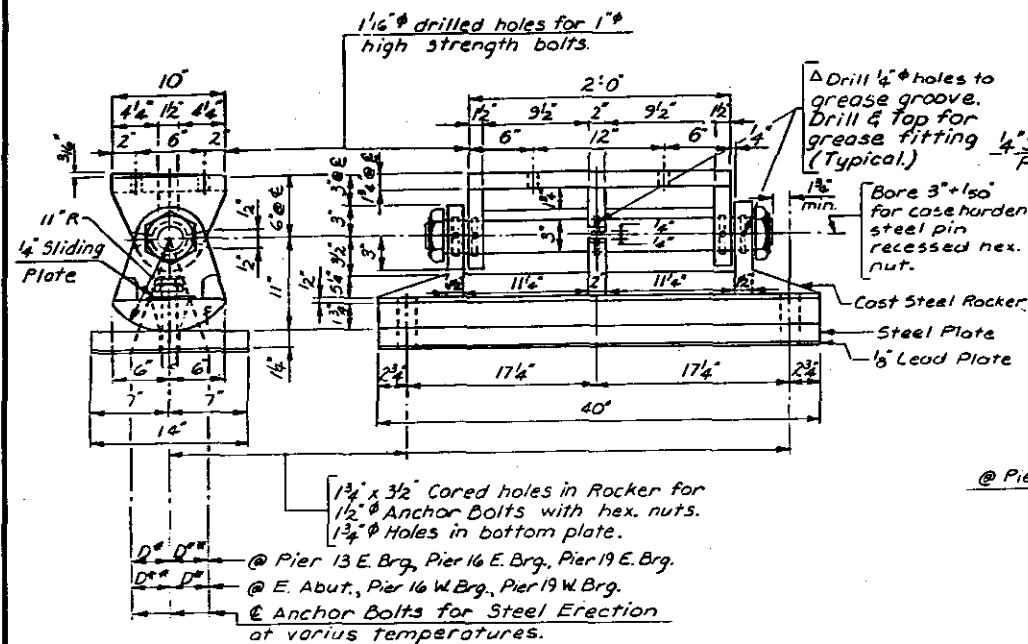
74001
4-20-79

Note: Structural steel weldments of M-223 Or. 50 or M-222 may be substituted for the castings subject to approval by the Engineer prior to fabrication. No additional compensation will be allowed.

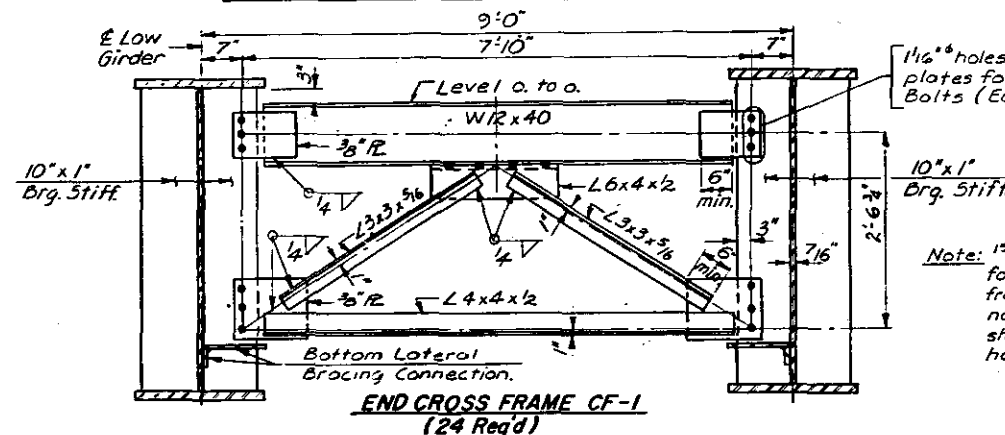
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT	NO.	DATE	BY	CHKD.	APP'D.
F.A. 49	15-1 (F&E)	PEORIA & TAZEWELL	25	5	

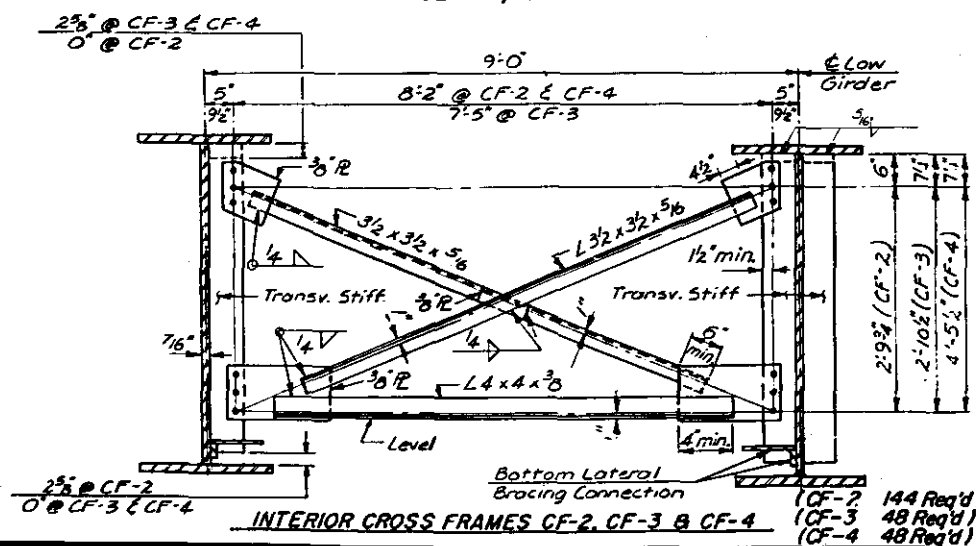
Sheet 7 of 13



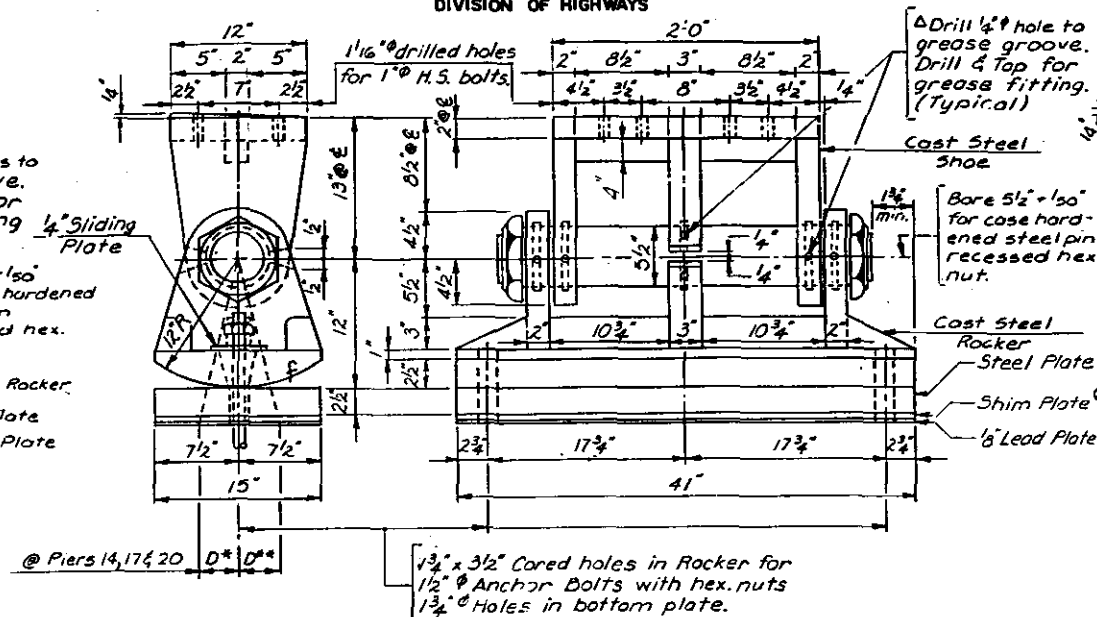
EXPANSION BEARING AT PIERS 13, 16, 19, & EAST ABUTMENT



END CROSS FRAME CF-1
(24 Req'd)

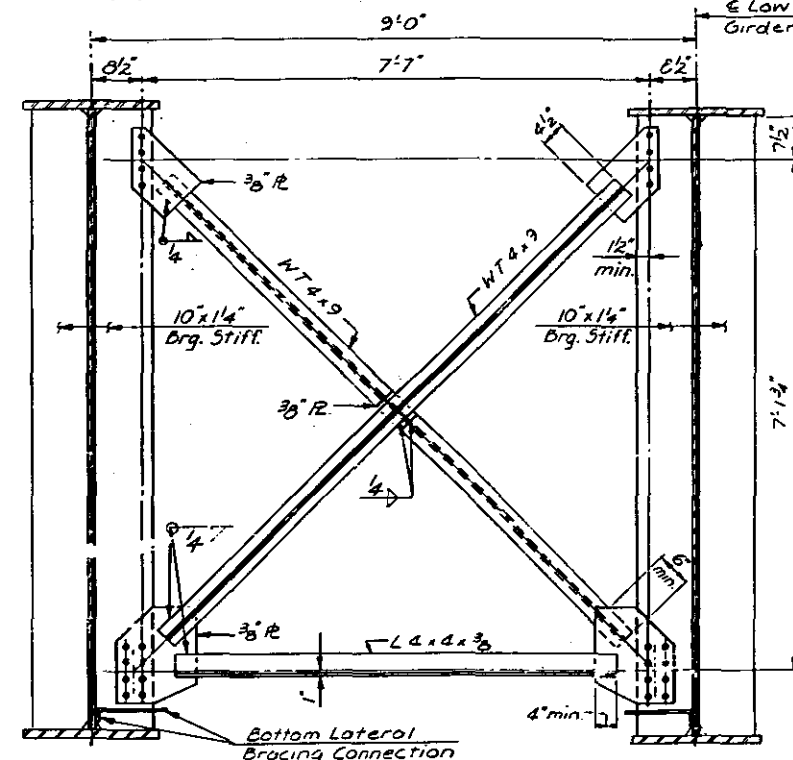


INTERIOR CROSS FRAMES CF-2, CF-3 & CF-4
(CF-2 144 Req'd)
(CF-3 48 Req'd)
(CF-4 48 Req'd)

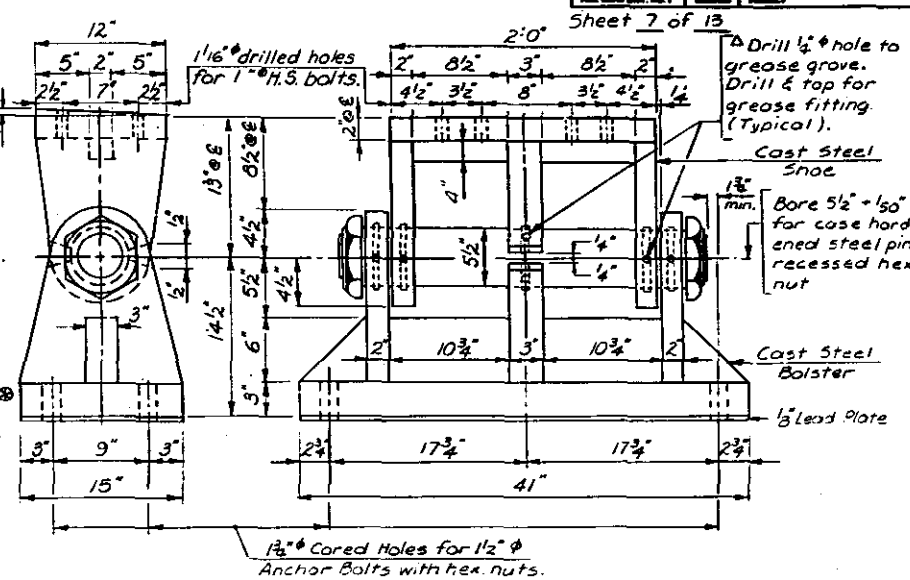


EXPANSION BEARING AT PIERS 14, 17 & 20

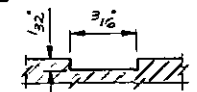
- ⊕ NOTES ON SHIM PLATES FOR BEARINGS:
- Provide 14\"/>



INTERIOR CROSS FRAME CF-5
(24 Req'd)



FIXED BEARING AT PIERS 15, 18 & 21



GREASE GROOVE ON SADDLE
Note: Grease bearing assembly with molybdenum grease before installation.

NOTES FOR SETTING OF ANCHOR BOLTS
AT EXPANSION BEARINGS

- D* (Side of Bearing away from fixed Bearing)
D* = 1/8\"/>
- After Girders have been erected and dimensions D* & D** determined, holes shall be drilled & anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

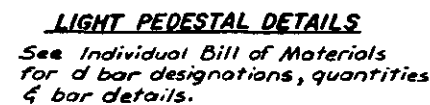
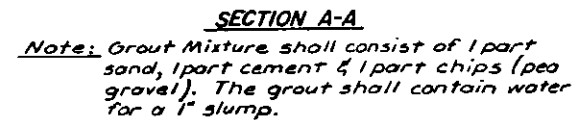
Steel Specifications this sheet:

Bearing Plate Material - AASHTO M-222 or M-223
Cross Frames - AASHTO M-183
Cross Frame Bolts - AASHTO M-164
Cast Steel Bearings - AASHTO M-192 Class 120

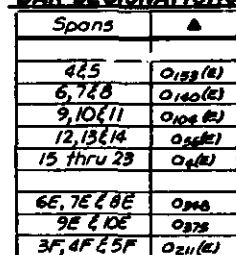
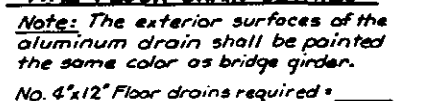
BEARINGS & CROSS FRAMES
SPANS 15 THRU 23

M^C CLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 49 SEC. 15-1 (F&E)
PEORIA & TAZEWELL COUNTIES

D.L.B.	CRN.	D.A.N.	CRN.	HANSON ENGINEERS	74001
				SPRINGFIELD, ILLINOIS	PEORIA, ILLINOIS



Spans	*	*X
3	d177	d178
6, 7, 8	d127	d128
9, 10, 11	d102	d103
15 - 23	d2	d3
3E, 4E, 5E	d302	d303
6E, 7E, 8E	d302	d303
9E, 10E	d302	d303
3F, 4F, 5F	d302	d303



SECTION F-F



Note: The details on this sheet are not to be included in this contract.

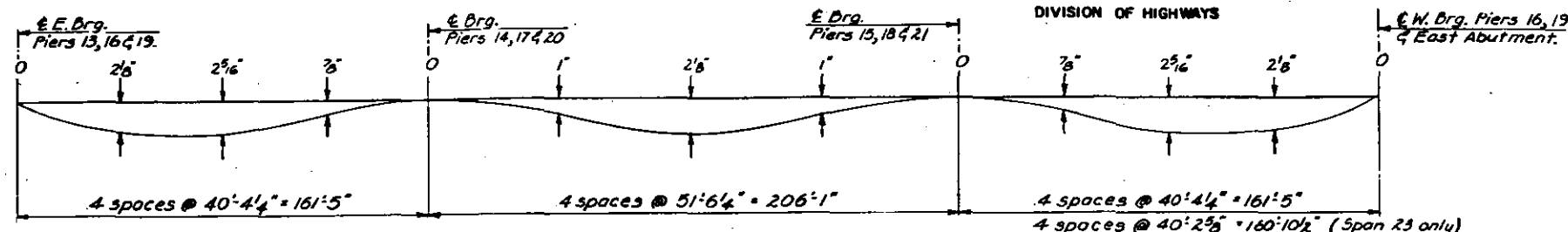
M^C CLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 49 SEC. 15-1 (F&E)
PEORIA & TAZEWELL COUNTIES

DESIGNED CRN CHECKED WDL DRAWN DAN CADD CRN	 HANSON ENGINEERS INCORPORATED	FILE NO 74001 DATE 4-20-79
--	---	---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

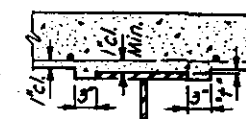
PROJECT NO.	15-1 (F&E)	SECTION	25	SHEET	10
DATE	10/2/51	BY		CHECKED	

Sheet 9 of 13

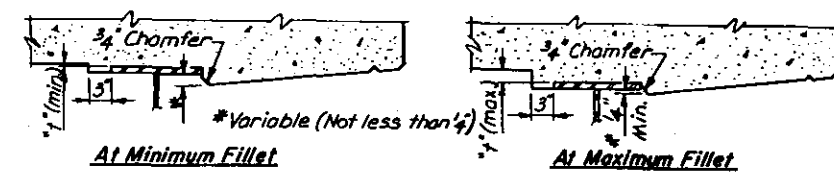


DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete slab.)

Note: The above deflections are not to be used in the field if the Engineer is working from the grade elevations (Elev. D) of the "Top of Concrete" table. (Sheets 10 thru 12.)



INTERIOR BEAMS

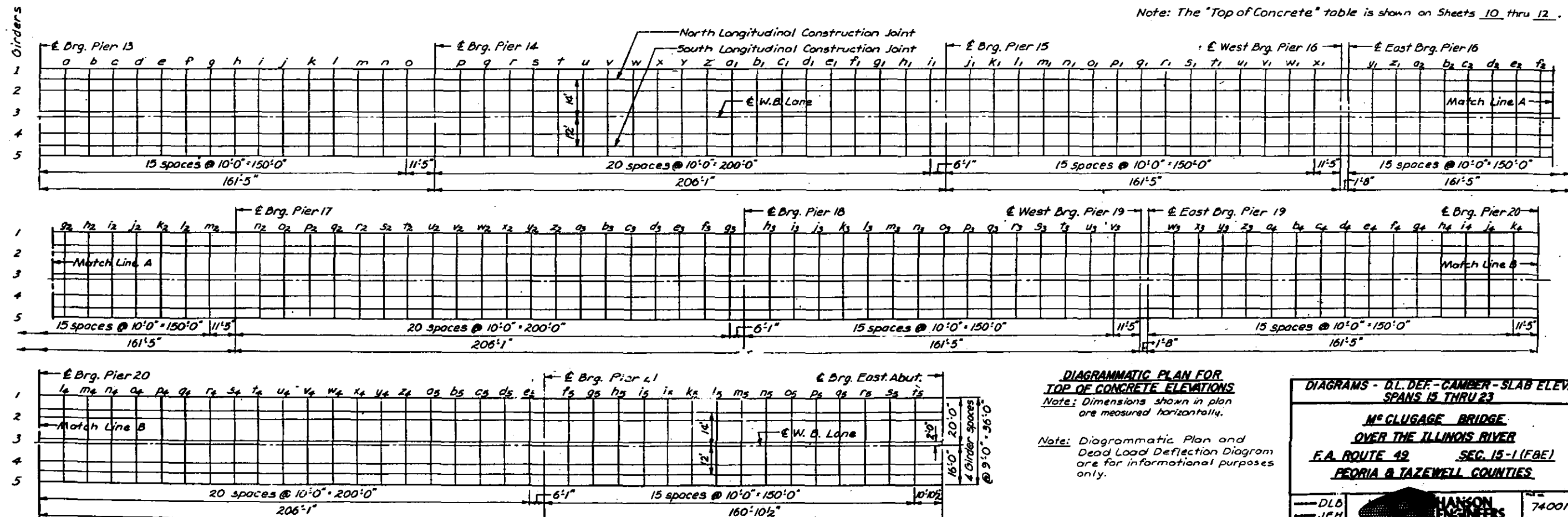


EXTERIOR BEAMS

METHOD OF DETERMINING FILLET HEIGHTS "Y"

After all Structural Steel has been erected, elevations of the top flanges of the beams shall be taken at the stations shown in the "Top of Concrete" table. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown in the "Top of Concrete" table, minus floor thickness equals the fillet heights above top flange of beams.

Note: The "Top of Concrete" table is shown on Sheets 10 thru 12.



DIAGRAMMATIC PLAN FOR TOP OF CONCRETE ELEVATIONS

Note: Dimensions shown in plan are measured horizontally.

Note: Diagrammatic Plan and Dead Load Deflection Diagram are for informational purposes only.

DIAGRAMS - D.L. DEF.-CAMBER-SLAB ELEV. SPANS 15 THRU 23

M^cCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 49 SEC. 15-1 (F&E)
PEORIA & TAZEWELL COUNTIES



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	DATE	COUNTY	TOTAL SHEETS	SHEET NO.
FA. 49 (15-1) (FBE)	1980	PEORIA & TAZEWELL	25	11

Sheet 10 of 13

										NORTH LONGITUDINAL										SOUTH LONGITUDINAL																																																	
GIRDER 1										GIRDER 2										GIRDER 3										GIRDER 4										GIRDER 5										BONDED CONSTRUCTION JOINT										BONDED CONSTRUCTION JOINT									
STATION		ELEV A		ELEV B		STATION		ELEV A		ELEV B		STATION		ELEV A		ELEV B		STATION		ELEV A		ELEV B		STATION		ELEV A		ELEV B		STATION		ELEV A		ELEV B		STATION		ELEV A		ELEV B																													
E.E. Brg. Pier 13	230+54.190	503.010	503.010	230+54.190	503.192	503.192	230+54.190	503.333	503.333	230+54.190	503.255	503.255	230+54.190	503.093	503.093	230+54.190	503.135	503.135	230+54.190	503.177	503.177	230+54.190	503.177	503.177	230+54.190	503.093	503.093	230+54.190	503.135	503.135	230+54.190	503.177	503.177	230+54.190	503.177	503.177	230+54.190	503.177	503.177																														
	230+64.190	502.806	502.806	230+64.190	502.988	502.988	230+64.190	503.129	503.129	230+64.190	503.051	503.051	230+64.190	502.889	502.889	230+64.190	502.931	502.931	230+64.190	502.973	502.973	230+64.190	502.973	502.973	230+64.190	502.889	502.889	230+64.190	502.931	502.931	230+64.190	502.973	502.973	230+64.190	502.973	502.973	230+64.190	502.973	502.973																														
	230+74.190	502.602	502.602	230+74.190	502.784	502.784	230+74.190	502.925	502.925	230+74.190	502.847	502.847	230+74.190	502.685	502.685	230+74.190	502.727	502.727	230+74.190	502.769	502.769	230+74.190	502.769	502.769	230+74.190	502.685	502.685	230+74.190	502.727	502.727	230+74.190	502.769	502.769	230+74.190	502.769	502.769	230+74.190	502.769	502.769																														
	230+84.190	502.398	502.398	230+84.190	502.580	502.580	230+84.190	502.721	502.721	230+84.190	502.643	502.643	230+84.190	502.481	502.481	230+84.190	502.523	502.523	230+84.190	502.565	502.565	230+84.190	502.565	502.565	230+84.190	502.481	502.481	230+84.190	502.523	502.523	230+84.190	502.565	502.565	230+84.190	502.565	502.565	230+84.190	502.565	502.565																														
	230+94.190	502.194	502.194	230+94.190	502.376	502.376	230+94.190	502.517	502.517	230+94.190	502.439	502.439	230+94.190	502.277	502.277	230+94.190	502.319	502.319	230+94.190	502.361	502.361	230+94.190	502.361	502.361	230+94.190	502.277	502.277	230+94.190	502.319	502.319	230+94.190	502.361	502.361	230+94.190	502.361	502.361	230+94.190	502.361	502.361																														
	231+04.190	501.990	501.990	231+04.190	502.172	502.172	231+04.190	502.313	502.313	231+04.190	502.235	502.235	231+04.190	502.073	502.073	231+04.190	502.115	502.115	231+04.190	502.157	502.157	231+04.190	502.157	502.157	231+04.190	502.073	502.073	231+04.190	502.115	502.115	231+04.190	502.157	502.157	231+04.190	502.157	502.157	231+04.190	502.157	502.157																														
	231+14.190	501.786	501.786	231+14.190	501.968	501.968	231+14.190	502.109	502.109	231+14.190	502.031	502.031	231+14.190	501.869	501.869	231+14.190	501.911	501.911	231+14.190	501.953	501.953	231+14.190	501.953	501.953	231+14.190	501.786	501.786	231+14.190	501.968	501.968	231+14.190	501.953	501.953	231+14.190	501.953	501.953	231+14.190	501.953	501.953																														
	231+24.190	501.582	501.582	231+24.190	501.764	501.764	231+24.190	501.905	501.905	231+24.190	501.827	501.827	231+24.190	501.665	501.665	231+24.190	501.707	501.707	231+24.190	501.749	501.749	231+24.190	501.749	501.749	231+24.190	501.582	501.582	231+24.190	501.764	501.764	231+24.190	501.749	501.749	231+24.190	501.749	501.749	231+24.190	501.749	501.749																														
	231+34.190	501.378	501.378	231+34.190	501.560	501.560	231+34.190	501.701	501.701	231+34.190	501.623	501.623	231+34.190	501.461	501.461	231+34.190	501.503	501.503	231+34.190	501.545	501.545	231+34.190	501.545	501.545	231+34.190	501.378	501.378	231+34.190	501.560	501.560	231+34.190	501.545	501.545	231+34.190	501.545	501.545	231+34.190	501.545	501.545																														
	231+44.190	501.174	501.174	231+44.190	501.356	501.356	231+44.190	501.497	501.497	231+44.190	501.419	501.419	231+44.190	501.257	501.257	231+44.190	501.299	501.299	231+44.190	501.341	501.341	231+44.190	501.341	501.341	231+44.190	501.174	501.174	231+44.190	501.356	501.356	231+44.190	501.341	501.341	231+44.190	501.341	501.341	231+44.190	501.341	501.341																														
231+54.190	500.970	500.970	231+54.190	501.152	501.152	231+54.190	501.293	501.293	231+54.190	501.215	501.215	231+54.190	501.053	501.053	231+54.190	501.095	501.095	231+54.190	501.137	501.137	231+54.190	501.137	501.137	231+54.190	500.970	500.970	231+54.190	501.152	501.152	231+54.190	501.137	501.137	231+54.190	501.137	501.137	231+54.190	501.137	501.137																															
231+64.190	500.766	500.766	231+64.190	500.948	500.948	231+64.190	501.089	501.089	231+64.190	501.011	501.011	231+64.190	500.849	500.849	231+64.190	500.891	500.891	231+64.190	500.933	500.933	231+64.190	500.933	500.933	231+64.190	500.766	500.766	231+64.190	500.948	500.948	231+64.190	500.933	500.933	231+64.190	500.933	500.933	231+64.190	500.933	500.933																															
231+74.190	500.562	500.562	231+74.190	500.744	500.744	231+74.190	500.885	500.885	231+74.190	500.807	500.807	231+74.190	500.645	500.645	231+74.190	500.687	500.687	231+74.190	500.729	500.729	231+74.190	500.729	500.729	231+74.190	500.562	500.562	231+74.190	500.744	500.744	231+74.190	500.729	500.729	231+74.190	500.729	500.729	231+74.190	500.729	500.729																															
231+84.190	500.358	500.358	231+84.190	500.540	500.540	231+84.190	500.681	500.681	231+84.190	500.603	500.603	231+84.190	500.441	500.441	231+84.190	500.483	500.483	231+84.190	500.525	500.525	231+84.190	500.525	500.525	231+84.190	500.358	500.358	231+84.190	500.540	500.540	231+84.190	500.525	500.525	231+84.190	500.525	500.525	231+84.190	500.525	500.525																															
231+94.190	500.154	500.154	231+94.190	500.336	500.336	231+94.190	500.477	500.477	231+94.190	500.399	500.399	231+94.190	500.237	500.237	231+94.190	500.279	500.279	231+94.190	500.321	500.321	231+94.190	500.321	500.321	231+94.190	500.154	500.154	231+94.190	500.336	500.336	231+94.190	500.321	500.321	231+94.190	500.321	500.321	231+94.190	500.321	500.321																															
232+04.190	499.950	499.950	232+04.190	500.132	500.132	232+04.190	500.273	500.273	232+04.190	500.195	500.195	232+04.190	500.033	500.033	232+04.190	500.075	500.075	232+04.190	500.117	500.117	232+04.190	500.117	500.117	232+04.190	499.950	499.950	232+04.190	500.132	500.132	232+04.190	500.117	500.117	232+04.190	500.117	500.117	232+04.190	500.117	500.117																															
E Brg. Pier 14	232+15.600	499.717	499.717	232+15.600	499.899	499.899	232+15.600	500.040	500.040	232+15.600	499.962	499.962	232+15.600	499.800	499.800	232+15.600	499.842	499.842	232+15.600	499.884	499.884	232+15.600	499.884	499.884	232+15.600	499.717	499.717	232+15.600	499.899	499.899	232+15.600	499.884	499.884	232+15.600	499.884	499.884	232+15.600	499.884	499.884																														
	232+25.600	499.513	499.513	232+25.600	499.695	499.695	232+25.600	499.836	499.836	232+25.600	499.758	499.758	232+25.600	499.596	499.596	232+25.600	499.638	499.638	232+25.600	499.680	499.680	232+25.600	499.680	499.680	232+25.600	499.513	499.513	232+25.600	499.695	499.695	232+25.600	499.680	499.680	232+25.600	499.680	499.680	232+25.600	499.680	499.680																														
	232+35.600	499.309	499.309	232+35.600	499.491	499.491	232+35.600	499.632	499.632	232+35.600	499.554	499.554	232+35.600	499.392	499.392	232+35.600	499.434	499.434	232+35.600	499.476	499.476	232+35.600	499.476	499.476	232+35.600	499.309	499.309	232+35.600	499.491	499.491	232+35.600	499.476	499.476	232+35.600	499.476	499.476	232+35.600	499.476	499.476																														
	232+45.600	499.105	499.105	232+45.600	499.287	499.287	232+45.600	499.428																																																													

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.	DATE	BY	CHECKED BY
FA 49	15-1	1960	25	12

Sheet 11 of 13

GIRDER 1						GIRDER 2						GIRDER 3						GIRDER 4						GIRDER 5						NORTH LONGITUDINAL BONDED CONSTRUCTION JOINT						SOUTH LONGITUDINAL BONDED CONSTRUCTION JOINT					
STATION		ELEV A	ELEV B	STATION		ELEV A	ELEV B	STATION		ELEV A	ELEV B	STATION		ELEV A	ELEV B	STATION		ELEV A	ELEV B	STATION		ELEV A	ELEV B	STATION		ELEV A	ELEV B	STATION		ELEV A	ELEV B										
E.E. Brg. Pier 16	235+24.770	492.186	492.186	235+24.770	492.368	492.368	235+24.770	492.509	492.509	235+24.770	492.431	492.431	235+24.770	492.269	492.269	235+24.770	492.311	492.311	235+24.770	492.353	492.353	16	235+24.770	492.110	492.110	235+24.770	492.107	492.107	235+24.770	492.149	492.149										
	235+24.770	491.982	492.026	235+24.770	492.164	492.209	235+24.770	492.305	492.350	235+24.770	492.227	492.272	235+24.770	492.065	492.110	235+24.770	492.051	492.096	235+24.770	492.093	492.138		235+24.770	491.950	491.995	235+24.770	491.892	491.937	235+24.770	491.834	491.879										
	236+04.770	491.778	491.867	236+04.770	491.960	492.049	236+04.770	492.101	492.190	236+04.770	492.023	492.112	236+04.770	491.861	491.950	236+04.770	491.793	491.882	236+04.770	491.735	491.824		236+04.770	491.657	491.746	236+04.770	491.599	491.688	236+04.770	491.541	491.630										
	236+14.770	491.574	491.707	236+14.770	491.756	491.890	236+14.770	491.897	492.030	236+14.770	491.819	491.952	236+14.770	491.657	491.790	236+14.770	491.599	491.732	236+14.770	491.541	491.674		236+14.770	491.463	491.596	236+14.770	491.405	491.494	236+14.770	491.347	491.436										
	236+24.770	491.370	491.548	236+24.770	491.562	491.730	236+24.770	491.693	491.871	236+24.770	491.615	491.792	236+24.770	491.453	491.631	236+24.770	491.395	491.573	236+24.770	491.337	491.515		236+24.770	491.259	491.437	236+24.770	491.201	491.379	236+24.770	491.143	491.321										
	236+34.770	491.166	491.348	236+34.770	491.348	491.531	236+34.770	491.489	491.672	236+34.770	491.411	491.594	236+34.770	491.249	491.432	236+34.770	491.191	491.374	236+34.770	491.133	491.316		236+34.770	491.055	491.237	236+34.770	490.997	491.179	236+34.770	490.939	491.122										
	236+44.770	490.962	491.146	236+44.770	491.144	491.331	236+44.770	491.285	491.471	236+44.770	491.207	491.393	236+44.770	491.045	491.232	236+44.770	490.887	491.073	236+44.770	490.829	491.015		236+44.770	490.751	490.937	236+44.770	490.693	490.879	236+44.770	490.635	490.821										
	236+54.770	490.758	490.948	236+54.770	490.940	491.131	236+54.770	491.081	491.271	236+54.770	491.003	491.193	236+54.770	490.845	491.035	236+54.770	490.687	490.877	236+54.770	490.629	490.819		236+54.770	490.571	490.761	236+54.770	490.513	490.703	236+54.770	490.455	490.645										
	236+64.770	490.554	490.748	236+64.770	490.736	490.930	236+64.770	490.673	490.869	236+64.770	490.595	490.791	236+64.770	490.437	490.633	236+64.770	490.279	490.475	236+64.770	490.221	490.417		236+64.770	490.163	490.359	236+64.770	490.105	490.301	236+64.770	490.047	490.243										
	236+74.770	490.350	490.546	236+74.770	490.532	490.728	236+74.770	490.475	490.671	236+74.770	490.397	490.593	236+74.770	490.239	490.435	236+74.770	490.081	490.277	236+74.770	490.023	490.219		236+74.770	490.065	490.261	236+74.770	490.007	490.203	236+74.770	490.049	490.245										
236+84.770	490.146	490.282	236+84.770	490.328	490.465	236+84.770	490.265	490.403	236+84.770	490.187	490.325	236+84.770	490.029	490.167	236+84.770	490.025	490.163	236+84.770	490.025	490.163	236+84.770	490.025	490.163	236+84.770	490.025	490.163	236+84.770	490.025	490.163												
236+94.770	489.942	490.082	236+94.770	490.122	490.263	236+94.770	490.061	490.202	236+94.770	490.003	490.144	236+94.770	490.003	490.144	236+94.770	490.003	490.144	236+94.770	490.003	490.144	236+94.770	490.003	490.144	236+94.770	490.003	490.144	236+94.770	490.003	490.144												
237+04.770	489.738	489.878	237+04.770	489.920	490.061	237+04.770	489.857	490.000	237+04.770	489.779	489.922	237+04.770	489.621	489.764	237+04.770	489.563	489.706	237+04.770	489.505	489.648	237+04.770	489.447	489.590	237+04.770	489.389	489.532	237+04.770	489.331	489.474												
237+14.770	489.534	489.674	237+14.770	489.716	489.857	237+14.770	489.653	489.796	237+14.770	489.595	489.738	237+14.770	489.537	489.680	237+14.770	489.479	489.622	237+14.770	489.421	489.564	237+14.770	489.363	489.506	237+14.770	489.305	489.448	237+14.770	489.247	489.390												
237+24.770	489.330	489.470	237+24.770	489.512	489.653	237+24.770	489.449	489.592	237+24.770	489.391	489.534	237+24.770	489.333	489.476	237+24.770	489.275	489.418	237+24.770	489.217	489.360	237+24.770	489.159	489.302	237+24.770	489.101	489.244	237+24.770	489.043	489.186												
237+34.770	489.126	489.266	237+34.770	489.308	489.449	237+34.770	489.250	489.393	237+34.770	489.191	489.334	237+34.770	489.133	489.276	237+34.770	489.075	489.218	237+34.770	489.017	489.160	237+34.770	488.959	489.102	237+34.770	488.901	489.044	237+34.770	488.843	489.086												
E. Brg. Pier 17	237+46.190	488.893	488.893	237+46.190	489.075	489.075	237+46.190	489.216	489.216	237+46.190	489.357	489.357	237+46.190	489.498	489.498	237+46.190	489.639	489.639	237+46.190	489.780	489.780	17	237+46.190	488.722	488.722	237+46.190	488.863	488.863	237+46.190	488.904	488.904										
	237+56.190	488.689	488.689	237+56.190	488.871	488.871	237+56.190	489.012	489.012	237+56.190	489.153	489.153	237+56.190	489.294	489.294	237+56.190	489.435	489.435	237+56.190	489.576	489.576		237+56.190	489.617	489.617	237+56.190	489.658	489.658													
	237+66.190	488.485	488.485	237+66.190	488.663	488.663	237+66.190	488.804	488.804	237+66.190	488.945	488.945	237+66.190	489.086	489.086	237+66.190	489.227	489.227	237+66.190	489.368	489.368		237+66.190	489.409	489.409	237+66.190	489.450	489.450													
	237+76.190	488.281	488.281	237+76.190	488.459	488.459	237+76.190	488.599	488.599	237+76.190	488.740	488.740	237+76.190	488.881	488.881	237+76.190	489.022	489.022	237+76.190	489.163	489.163		237+76.190	489.204	489.204	237+76.190	489.245	489.245													
	237+86.190	488.077	488.077	237+86.190	488.255	488.255	237+86.190	488.396	488.396	237+86.190	488.537	488.537	237+86.190	488.678	488.678	237+86.190	488.819	488.819	237+86.190	488.960	488.960		237+86.190	489.101	489.101	237+86.190	489.242	489.242													
	237+96.190	487.873	487.873	237+96.190	488.051	488.051	237+96.190	488.192	488.192	237+96.190	488.333	488.333	237+96.190	488.474	488.474	237+96.190	488.615	488.615	237+96.190	488.756	488.756		237+96.190	488.897	488.897	237+96.190	489.038	489.038													
	238+06.190	487.669	487.669	238+06.190	487.847	487.847	238+06.190	487.988	487.988	238+06.190	488.129	488.129	238+06.190	488.270	488.270	238+06.190	488.411	488.411	238+06.190	488.552	488.552		238+06.190	488.693	488.693	238+06.190	488.834	488.834													
	238+16.190	487.465	487.465	238+16.190	487.643	487.643	238+16.190	487.784	487.784	238+16.190	487.925	487.925	238+16.190	488.066	488.066	238+16.190	488.207	488.207	238+16.190	488.348	488.348		238+16.190	488.489	488.489	238+16.190	488.630	488.630													
	238+26.190	487.261	487.261	238+26.190	487.439	487.439	238+26.190	487.580	487.580	238+26.190	487.721	487.721	238+26.190	487.862	487.862	238+26.190	488.003	488.003	238+26.190	488.144	488.144		238+26.190	488.285	488.285	238+26.190	488.426	488.426													
	238+36.190	487.057	487.057	238+36.190	487.235	487.235	238+36.190	487.376	487.376	238+36.190																															

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

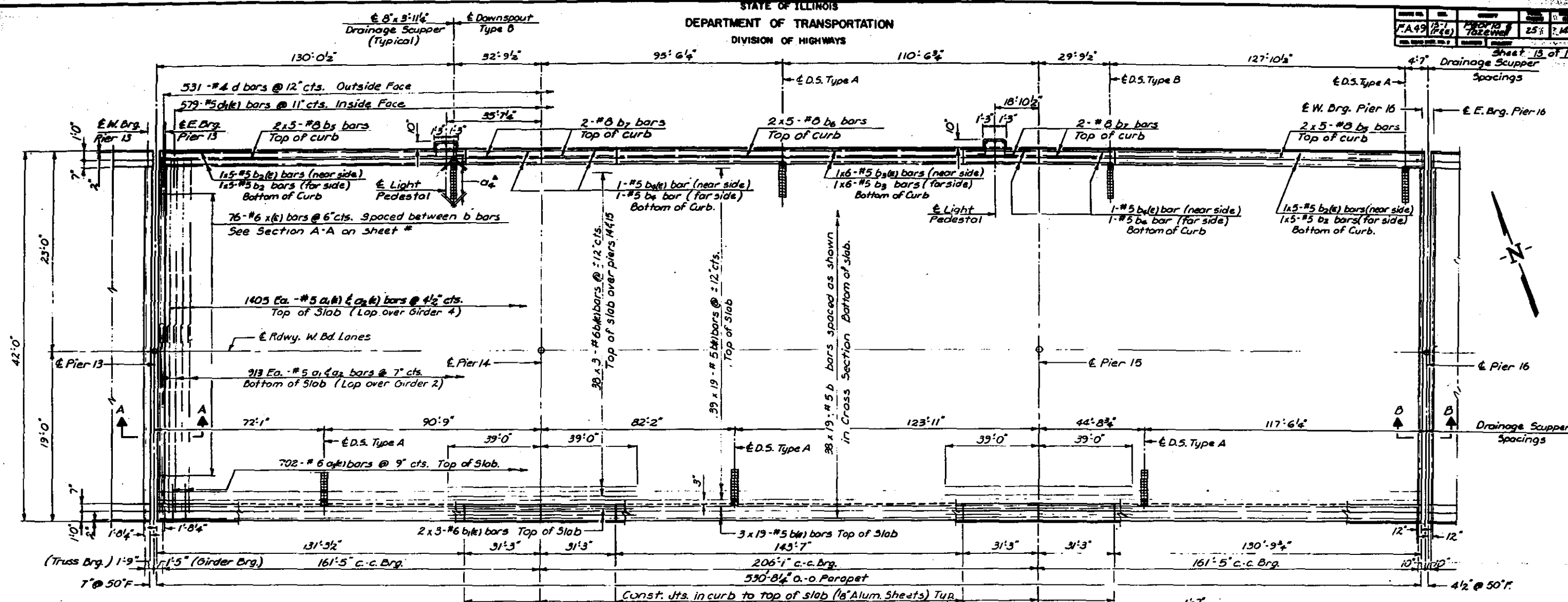
PROJECT NO.	SHEET NO.	COUNTY	TOTAL SHEETS	DATE
FA. 49	12	Peoria & Tazewell	25	13

Sheet 12 of 13

GIRDER 1			GIRDER 2			GIRDER 3			GIRDER 4			GIRDER 5			NORTH LONGITUDINAL BONDED CONSTRUCTION JOINT		SOUTH LONGITUDINAL BONDED CONSTRUCTION JOINT	
STATION	ELEV A	ELEV B	STATION	ELEV A	ELEV B	STATION	ELEV A	ELEV B	STATION	ELEV A	ELEV B	STATION	ELEV A	ELEV B	STATION	ELEV A	ELEV B	
E.E. Brg. Pier 19	241+15.350	481.362	481.362	241+15.350	481.344	481.344	241+15.350	481.685	481.685	241+15.350	481.607	481.607	241+15.350	481.446	481.446	241+15.350	481.487	481.487
19	241+15.350	481.158	481.293	241+25.350	481.340	481.395	241+25.350	481.481	481.526	241+25.350	481.403	481.446	241+25.350	481.242	481.286	241+25.350	481.328	481.328
19	241+35.350	480.954	481.043	241+35.350	481.136	481.255	241+35.350	481.277	481.366	241+35.350	481.199	481.288	241+35.350	481.036	481.125	241+35.350	481.121	481.210
19	241+45.350	480.750	480.803	241+45.350	480.932	481.066	241+45.350	481.073	481.204	241+45.350	480.995	481.128	241+45.350	480.834	480.967	241+45.350	480.875	481.008
19	241+55.350	480.546	480.724	241+55.350	480.728	480.869	241+55.350	480.869	481.047	241+55.350	480.791	480.969	241+55.350	480.630	480.807	241+55.350	480.671	480.849
19	241+65.350	480.342	480.525	241+65.350	480.524	480.666	241+65.350	480.666	480.845	241+65.350	480.587	480.770	241+65.350	480.426	480.608	241+65.350	480.467	480.650
19	241+75.350	480.138	480.325	241+75.350	480.320	480.507	241+75.350	480.461	480.648	241+75.350	480.383	480.569	241+75.350	480.222	480.408	241+75.350	480.263	480.450
19	241+85.350	479.934	480.124	241+85.350	480.116	480.307	241+85.350	480.257	480.447	241+85.350	480.179	480.369	241+85.350	480.018	480.208	241+85.350	480.059	480.249
19	241+95.350	479.730	479.924	241+95.350	479.912	480.106	241+95.350	480.053	480.247	241+95.350	479.975	480.169	241+95.350	479.814	480.007	241+95.350	479.855	480.049
19	242+05.350	479.526	479.720	242+05.350	479.708	479.895	242+05.350	479.849	480.015	242+05.350	479.771	479.937	242+05.350	479.610	479.776	242+05.350	479.651	479.818
19	242+15.350	479.322	479.519	242+15.350	479.504	479.641	242+15.350	479.645	479.782	242+15.350	479.567	479.703	242+15.350	479.406	479.542	242+15.350	479.447	479.584
19	242+25.350	479.118	479.225	242+25.350	479.300	479.407	242+25.350	479.441	479.548	242+25.350	479.363	479.469	242+25.350	479.202	479.308	242+25.350	479.243	479.350
19	242+35.350	478.914	478.991	242+35.350	479.096	479.173	242+35.350	479.233	479.310	242+35.350	479.155	479.236	242+35.350	478.998	479.074	242+35.350	479.039	479.116
19	242+45.350	478.710	478.767	242+45.350	478.892	478.950	242+45.350	479.035	479.090	242+45.350	478.955	479.012	242+45.350	478.794	478.851	242+45.350	478.833	478.892
19	242+55.350	478.506	478.545	242+55.350	478.688	478.727	242+55.350	478.829	478.868	242+55.350	478.751	478.790	242+55.350	478.590	478.628	242+55.350	478.631	478.670
19	242+65.350	478.302	478.323	242+65.350	478.484	478.505	242+65.350	478.621	478.646	242+65.350	478.547	478.568	242+65.350	478.386	478.406	242+65.350	478.427	478.448
E Brg. Pier 20	242+76.770	478.069	478.069	242+76.770	478.252	478.252	242+76.770	478.392	478.392	242+76.770	478.314	478.314	242+76.770	478.153	478.153	242+76.770	478.194	478.194
20	242+86.770	477.865	477.865	242+86.770	478.048	478.048	242+86.770	478.188	478.204	242+86.770	478.110	478.110	242+86.770	477.949	477.949	242+86.770	477.990	477.990
20	242+96.770	477.661	477.661	242+96.770	477.854	477.854	242+96.770	477.994	478.016	242+96.770	477.916	477.938	242+96.770	477.755	477.776	242+96.770	477.796	477.818
20	243+06.770	477.457	477.505	243+06.770	477.640	477.687	243+06.770	477.780	477.828	243+06.770	477.702	477.750	243+06.770	477.541	477.588	243+06.770	477.624	477.660
20	243+16.770	477.253	477.317	243+16.770	477.436	477.499	243+16.770	477.576	477.639	243+16.770	477.498	477.561	243+16.770	477.337	477.400	243+16.770	477.378	477.442
20	243+26.770	477.049	477.128	243+26.770	477.232	477.311	243+26.770	477.372	477.451	243+26.770	477.294	477.373	243+26.770	477.133	477.212	243+26.770	477.174	477.253
20	243+36.770	476.845	476.944	243+36.770	477.028	477.126	243+36.770	477.168	477.267	243+36.770	477.090	477.189	243+36.770	476.929	477.027	243+36.770	476.970	477.069
20	243+46.770	476.641	476.760	243+46.770	476.824	476.942	243+46.770	476.964	477.083	243+46.770	476.886	477.004	243+46.770	476.725	476.843	243+46.770	476.766	476.885
20	243+56.770	476.437	476.566	243+56.770	476.620	476.758	243+56.770	476.760	476.898	243+56.770	476.682	476.820	243+56.770	476.521	476.659	243+56.770	476.562	476.701
20	243+66.770	476.233	476.391	243+66.770	476.416	476.574	243+66.770	476.556	476.714	243+66.770	476.478	476.636	243+66.770	476.317	476.475	243+66.770	476.358	476.516
20	243+76.770	476.029	476.207	243+76.770	476.212	476.390	243+76.770	476.352	476.530	243+76.770	476.274	476.452	243+76.770	476.113	476.291	243+76.770	476.154	476.332
20	243+86.770	475.825	475.996	243+86.770	476.008	476.178	243+86.770	476.148	476.318	243+86.770	476.070	476.240	243+86.770	475.909	476.079	243+86.770	475.950	476.121
20	243+96.770	475.621	475.792	243+96.770	475.804	475.954	243+96.770	475.944	476.095	243+96.770	475.866	476.016	243+96.770	475.705	475.855	243+96.770	475.746	475.897
20	244+06.770	475.417	475.548	244+06.770	475.600	475.730	244+06.770	475.740	475.871	244+06.770	475.662	475.793	244+06.770	475.501	475.632	244+06.770	475.542	475.673
20	244+16.770	475.213	475.324	244+16.770	475.396	475.506	244+16.770	475.536	475.647	244+16.770	475.458	475.569	244+16.770	475.297	475.407	244+16.770	475.338	475.449
20	244+26.770	475.009	475.100	244+26.770	475.192	475.282	244+26.770	475.332	475.423	244+26.770	475.254	475.345	244+26.770	475.093	475.183	244+26.770	475.134	475.225
20	244+36.770	474.805	474.878	244+36.770	474.988	475.061	244+36.770	475.128	475.201	244+36.770	475.050	475.123	244+36.770	474.889	474.962	244+36.770	474.930	475.003
20	244+46.770	474.601	474.658	244+46.770	474.784	474.841	244+46.770	474.924	474.981	244+46.770	474.846	474.903	244+46.770	474.685	474.742	244+46.770	474.726	474.783
20	244+56.770	474.397	474.439	244+56.770	474.580	474.621	244+56.770	474.720	474.761	244+56.770	474.642	474.683	244+56.770	474.481	474.522	244+56.770	474.523	474.564
20	244+66.770	474.193	474.235	244+66.770	474.376	474.401	244+66.770	474.516	474.542	244+66.770	474.438	474.464	244+66.770	474.277	474.302	244+66.770	474.318	474.344
20	244+76.770	473.989	473.999	244+76.770	474.172	474.181	244+76.770	474.312	474.322	244+76.770	474.234	474.244	244+76.770	474.073	474.082	244+76.770	474.114	474.124
E Brg. Pier 21	244+82.850	473.865	473.865	244+82.850	474.047	474.047	244+82.850	474.188	474.188	244+82.850	474.110	474.110	244+82.850	473.949	473.949	244+82.850	473.990	473.990
21	244+92.850	473.661	473.679	244+92.850	473.843	473.862	244+92.850	473.984	474.002	244+92.850	473.906	473.924	244+92.850	473.745	473.763	244+92.850	473.786	473.804
21	245+02.850	473.457	473.494	245+02.850	473.639	473.676	245+02.850	473.780	473.817	245+02.850								

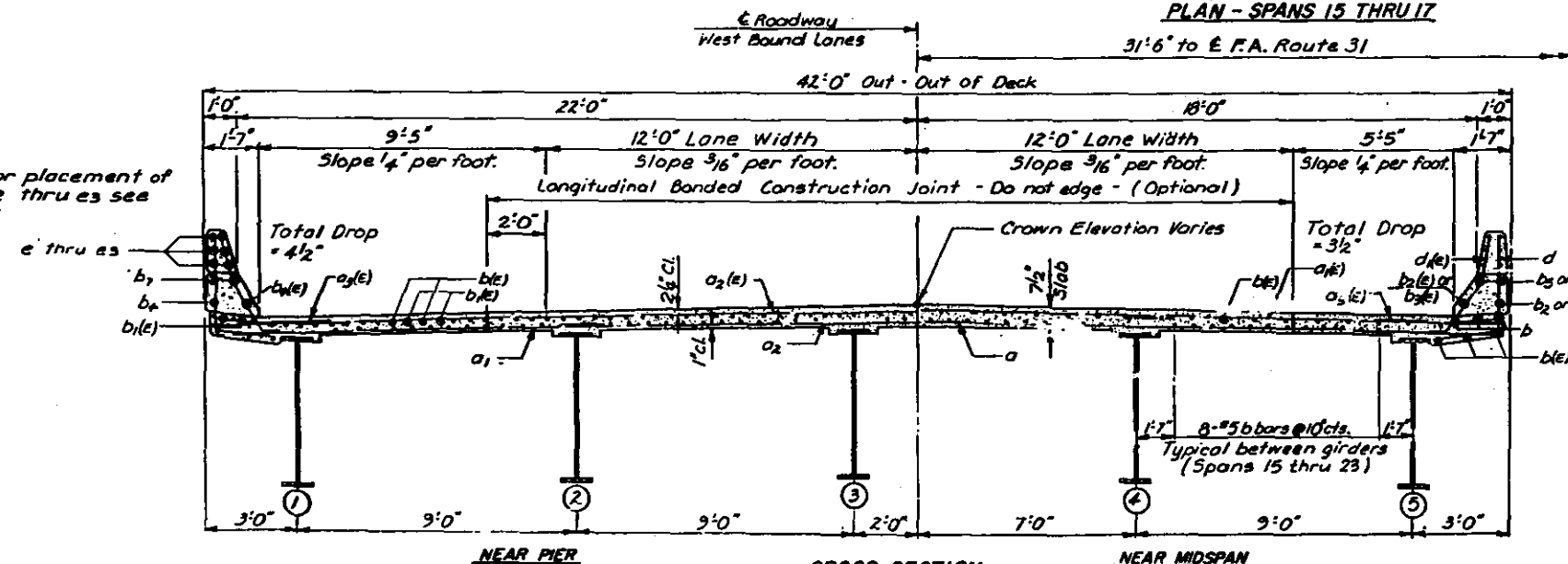
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	150010	DATE	7/14/77
SHEET NO.	15 OF 15	DESIGNED BY	7/14/77



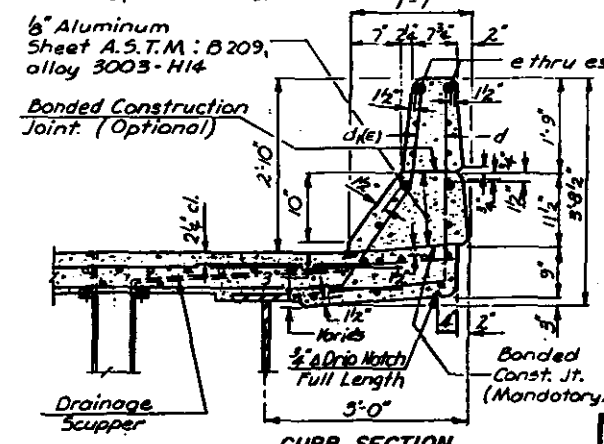
PLAN - SPANS 15 THRU 17

Note: For placement of bars e thru es see sheet



CROSS SECTION
LOOKING EAST

Note: This sheet included for informational purposes only showing a typical cross section of completed structure.



CURB SECTION

Cost of Aluminum Sheets shall be incidental to Class X Concrete.

Bar Size	Minimum Lap Distance
#4, #6	1'-6"
#8	2'-0"

Notes:
Bars indicated thus: 20x3-#5 etc indicates 20 lines of bars with 3 lengths per line.
See Sheet of for Bill of Material for Spans 15-23 incl.
For Section A-A see Sheet of.
For Section B-B see Sheet of.
For Light Pedestal Details see Sheet of.
For Drainage Scupper Details see Sheets and.
For Reinforcement & configuration of slab @ Scupper see Sheet of.
Reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.
D.S. = Downspout.
All dimensions shown are measured horizontally.

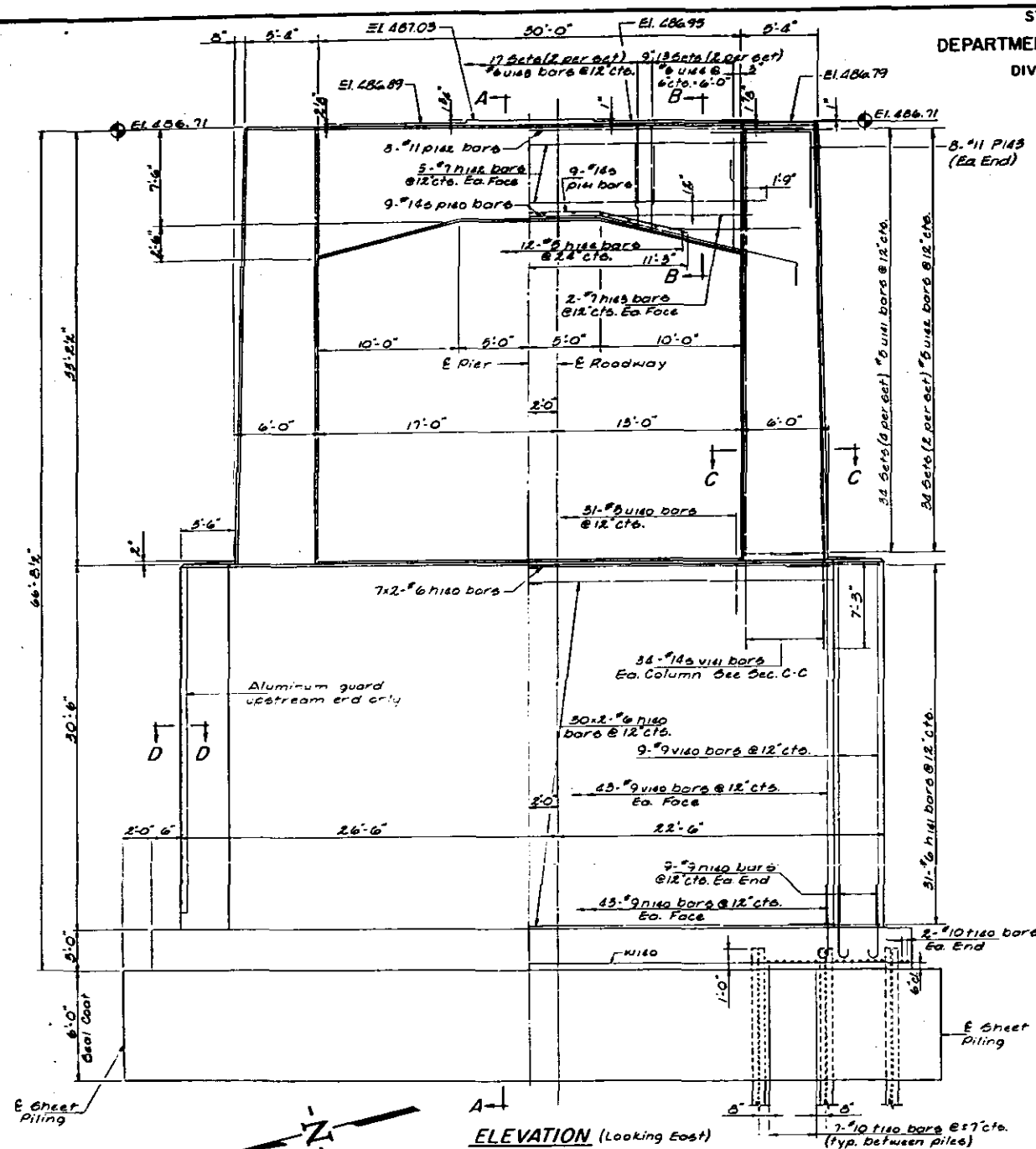
SUPERSTRUCTURE
SPANS 15 THRU 17

M^cCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 49 SEC. 15-1 (F&E)
PEORIA & TAZEWELL COUNTIES

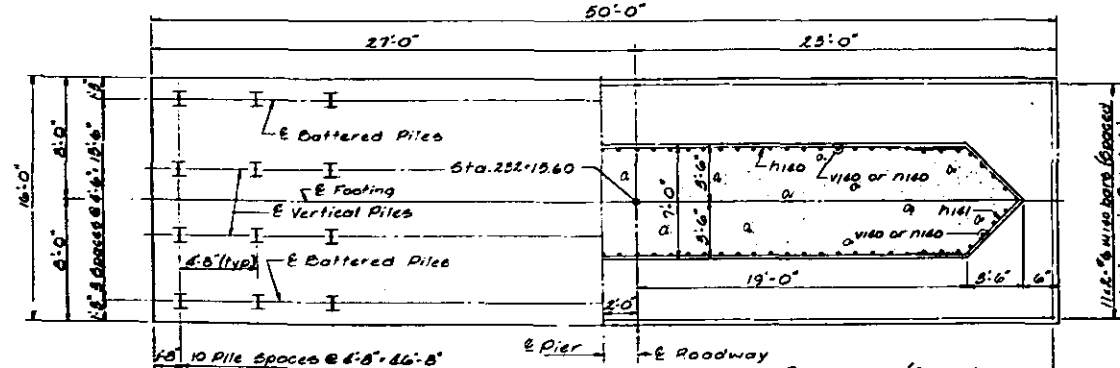
DAN	HANSON ENGINEERS	74001
S.C.O.	INCORPORATED	
DAN		
S.C.O.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	DATE	PROJECT	SCALE	DATE
FA 49	12-1 (P&H)	Peoria & Tazewell	25	10
FILE NO. 1	12-1	12-1	12-1	12-1

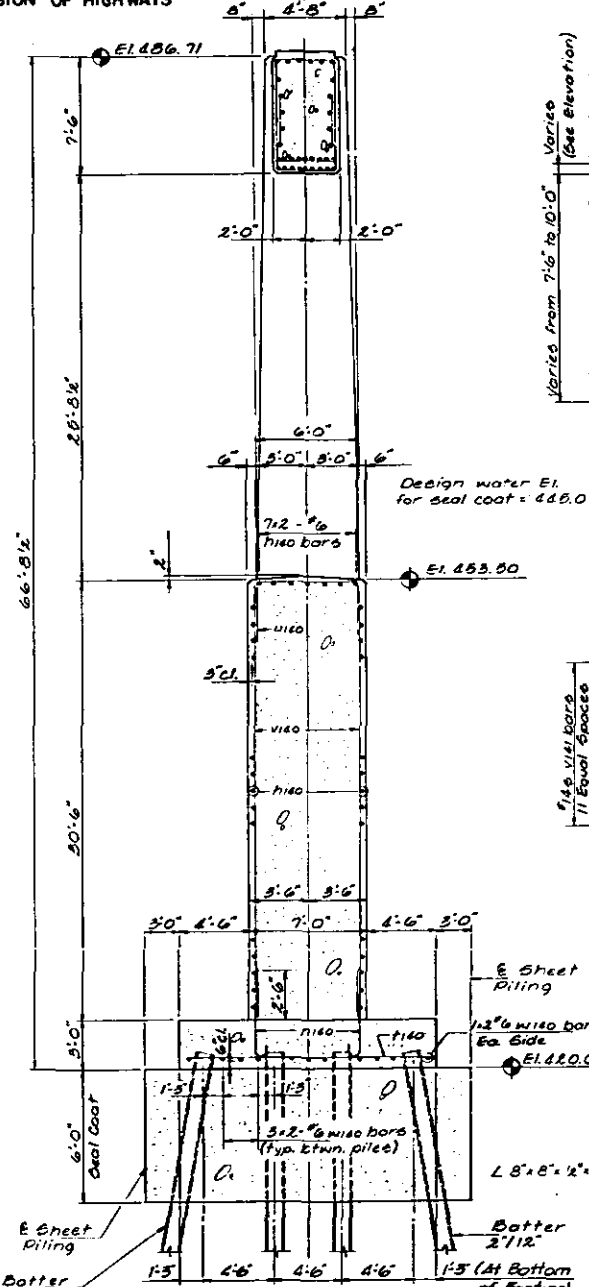


ELEVATION (Looking East)

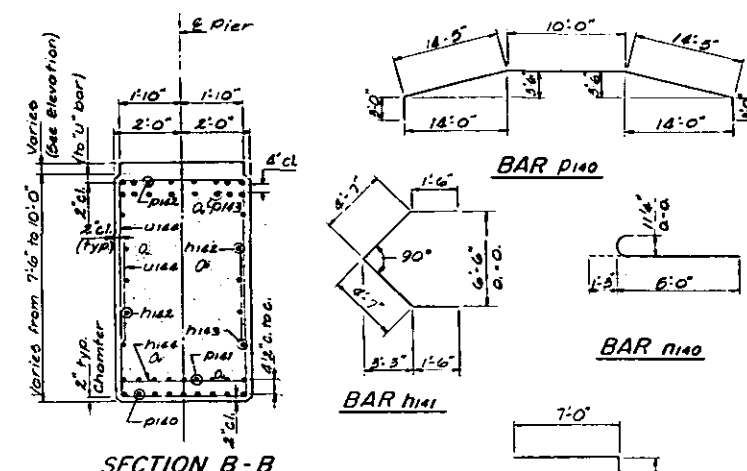


HALF PILE PLAN

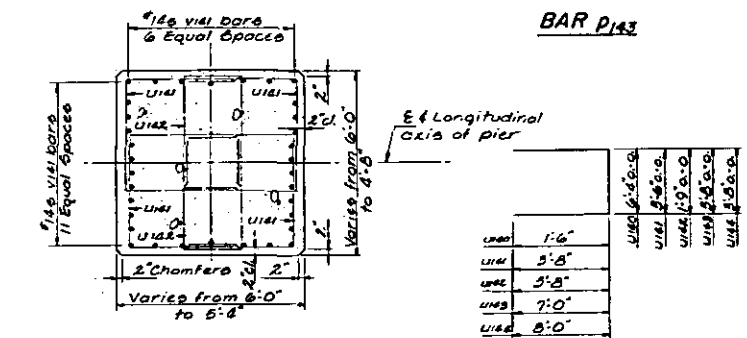
HALF FOOTING PLAN



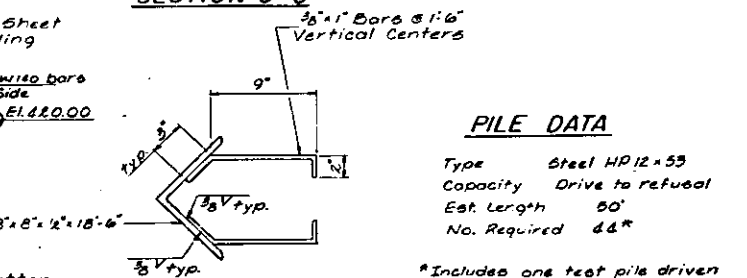
SECTION A-A



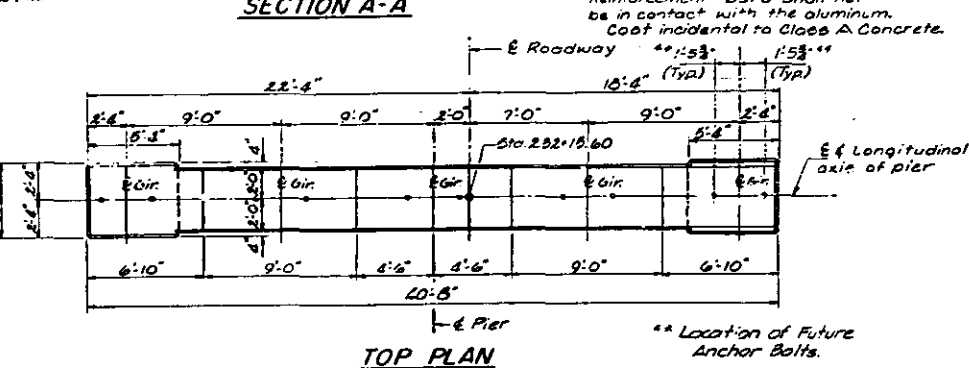
SECTION B-B



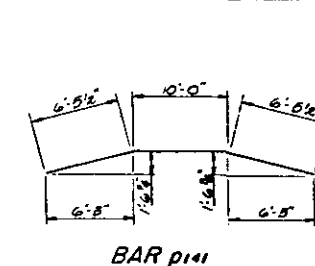
SECTION C-C



SECTION D-D



TOP PLAN



PIER 14
BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	SHAPE
#140	136	21'-9"	—
#141	62	12'-2"	—
#142	10	33'-6"	—
#143	8	10'-0"	—
#144	12	5'-8"	—
#145	108	6'-5"	—
#146	9	44'-10"	—
#147	9	22'-11"	—
#148	8	40'-0"	—
#149	16	14'-0"	—
#150	74	15'-6"	—
#151	51	9'-4"	—
#152	272	10'-10"	—
#153	136	9'-1"	—
#154	34	17'-8"	—
#155	52	19'-8"	—
#156	108	30'-5"	—
#157	68	40'-5"	—
#158	22	25'-6"	—

PILE DATA

Type Steel HP 12x53
Capacity Drive to refusal
Est. Length 50'
No. Required 44*

*Includes one test pile driven in a permanent location.

Bars #140, #141, #142, #143 & #144 shall be Grade 60 Steel Reinforcement Bars.

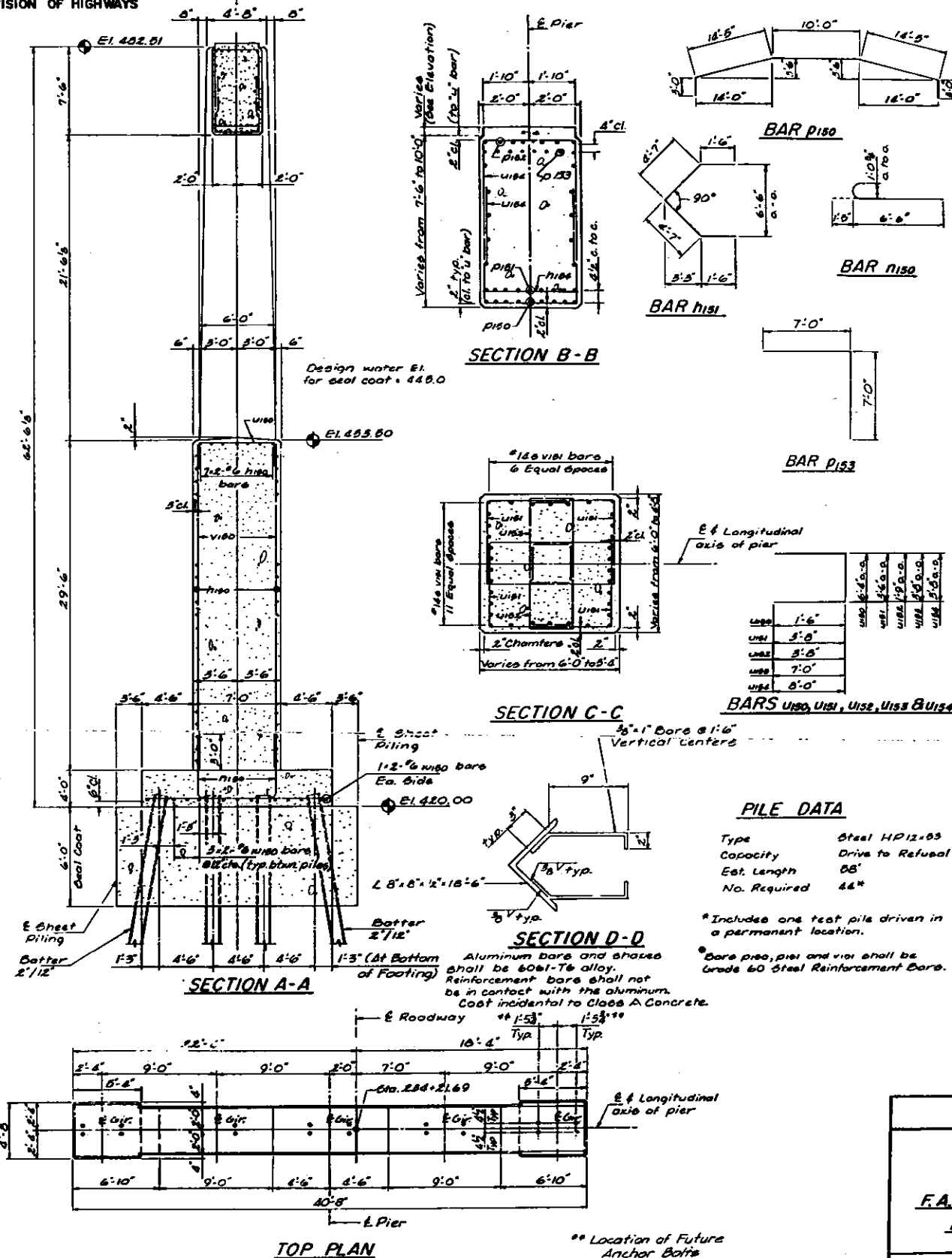
Class A Concrete	Cu. Yds.	561.9
Reinforcement Bars	Lbs.	60690
Seal Coat Concrete	Cu. Yds.	264.0
Steel Piles HP 12x53	Lin. Ft.	2,150
Test Pile HP 12x53	Each	1
Cofferdam Excavation	Cu. Yds.	999
Cofferdam	Each	1

PIER 14

M^cCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15 B-1
PEORIA & TAZEWELL COUNTIES

DESIGNED C.R.N.	CHECKED O.L.B.	DATE 12-31-74
APPROVED D.A.B.	DATE 12-31-74	
CHECKED C.R.N.		





PIER 15				
BILL OF MATERIAL				
BAR	NO.	SIZE	LENGTH	SHAPE
h100	130	#6	21'-9"	—
h101	60	#6	12'-2"	C
h102	10	#7	33'-6"	—
h103	8	#7	10'-0"	—
h104	12	#8	3'-8"	—
n100	104	#10	7'-11"	C
p100 ^o	9	#10	44'-10"	—
p101 ^o	9	#10	22'-11"	—
p102	5	#11	40'-0"	—
p103	16	#11	13'-0"	7
t100	86	#9	18'-6"	—
u100	31	#8	9'-5"	J
u101	282	#8	10'-10"	J
u102	116	#8	9'-1"	J
u103	54	#6	17'-5"	J
u104	62	#6	19'-0"	J
v100	104	#10	29'-3"	—
v101 ^o	68	#10	36'-0"	—
w100	22	#6	25'-6"	—
Class A Concrete			Cu Yds.	870.3
Reinforcement Bars			Lbs.	60,890
Best Coat Concrete			Cu Yds.	274.0
Steel Pipe HP12x88			Lin. Ft.	2494
Reef Pile HP12x88			Each	1
Cofferdam Excavation			Cu Yds.	4088
Cofferdam			Each	1

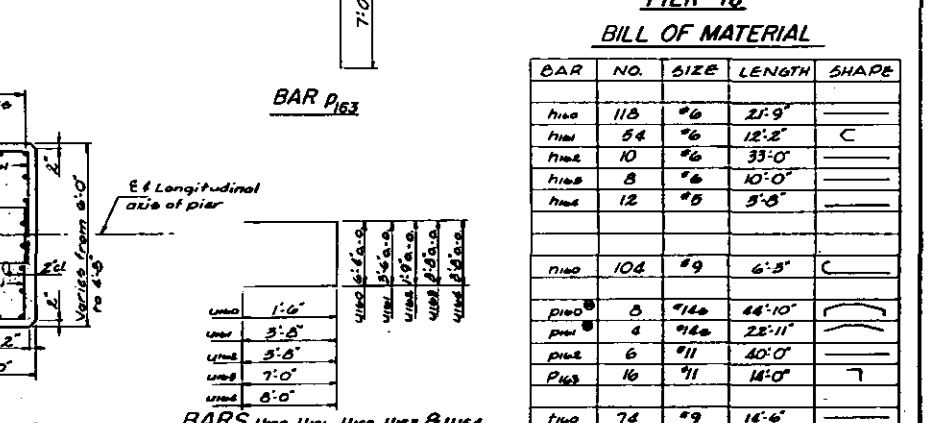
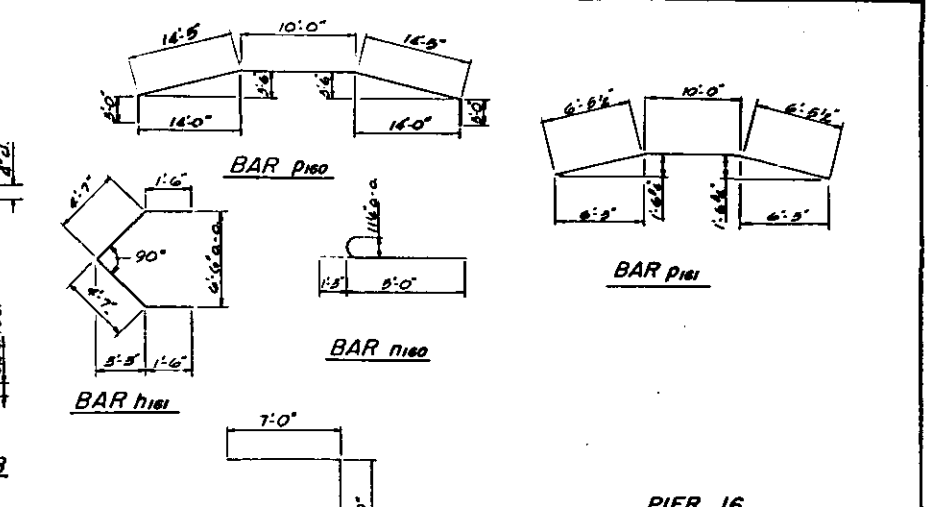
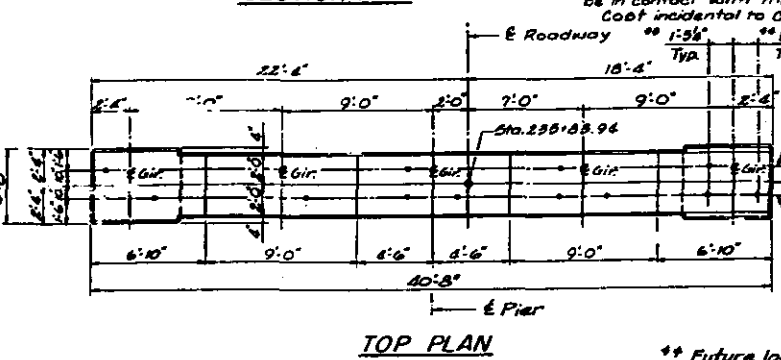
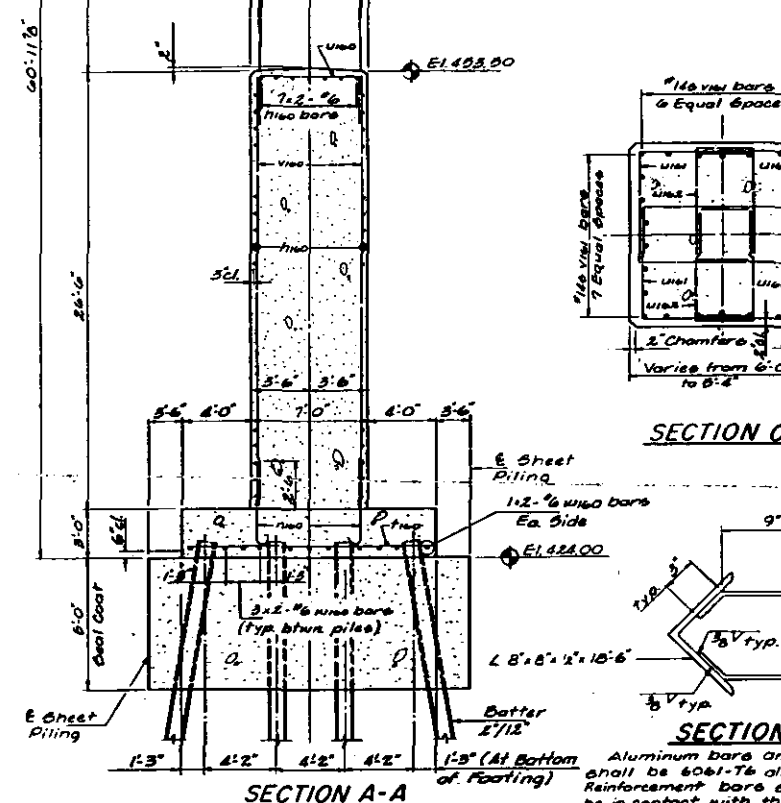
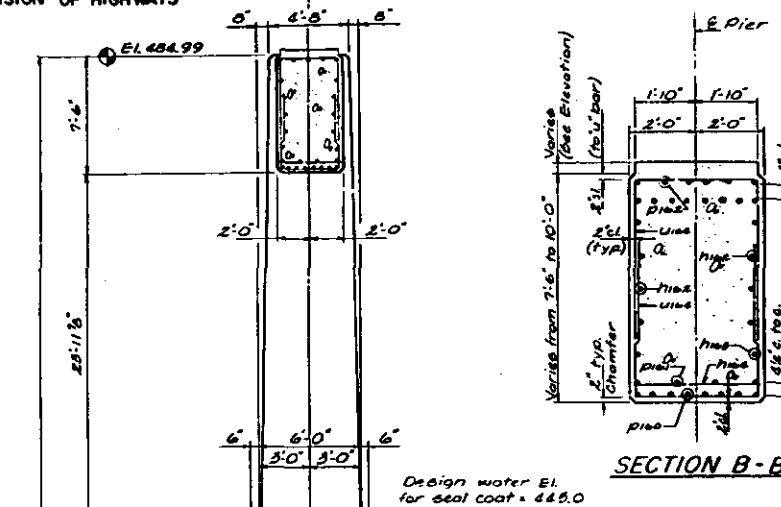
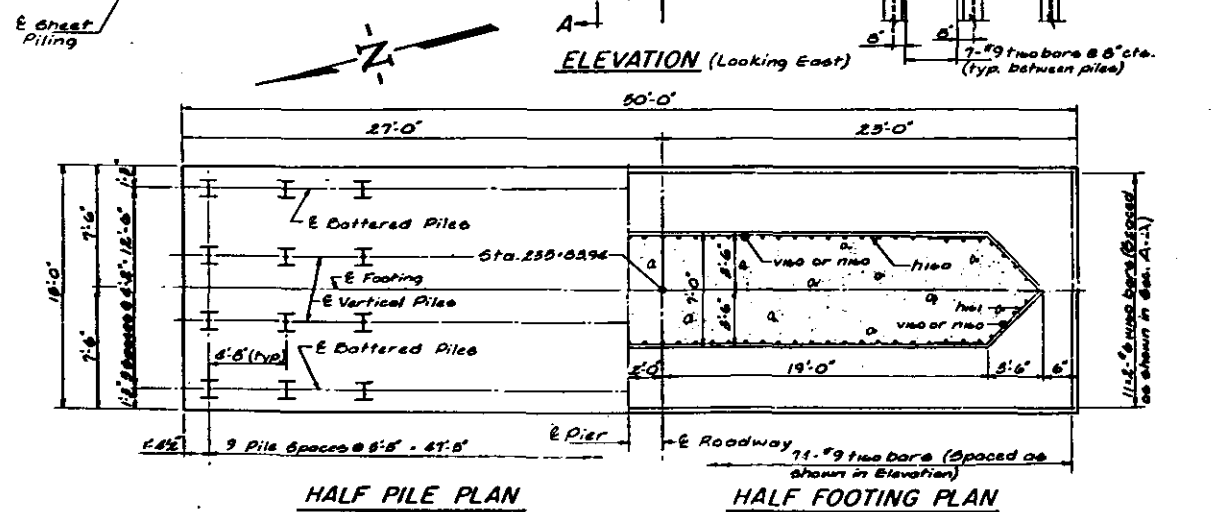
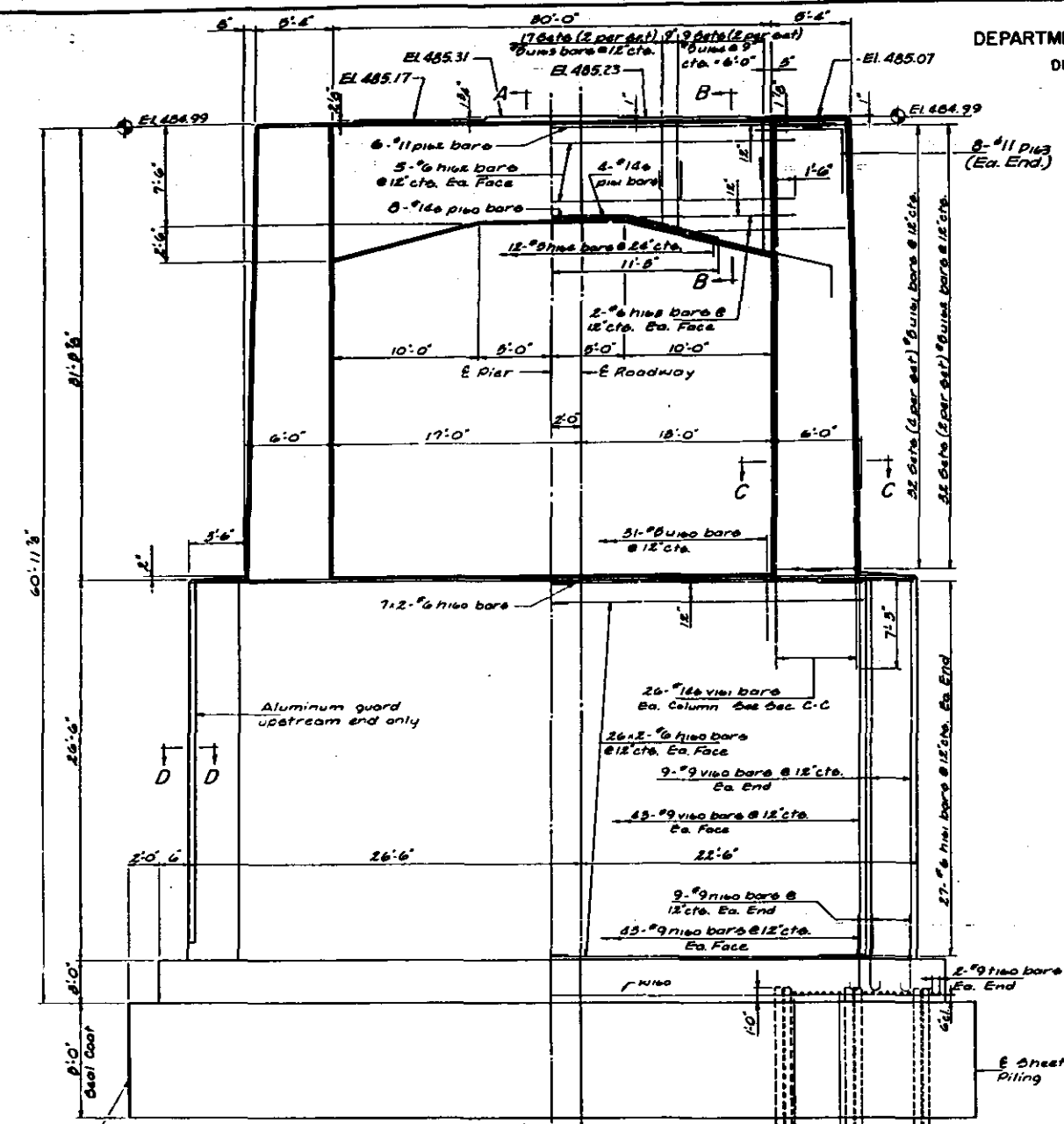
PIER 15

M^CCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15 B-1
PEORIA & TAZEWELL COUNTIES

CHERRY CRN CHERRY OLB CHERRY OAB CHERRY CRN	 HANSON ENGINEERS INCORPORATED	P.L. NO. 74001 DATE 12-18-74
SPRINGFIELD, ILLINOIS		PEORIA, ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROUTE NO.	REL.	SHEET	TOTAL SHEETS	DATE
FA 49	15-B	15-B-1	25	12



PIER 16
BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	SHAPE
11B	#11	21'-9"	
12B	#12	12'-2"	C
13B	#13	33'-0"	
14B	#14	10'-0"	
15B	#15	5'-8"	
16B	#16	6'-5"	
17B	#17	14'-0"	
18B	#18	16'-6"	
19B	#19	9'-6"	
20B	#20	10'-10"	
21B	#21	9'-1"	
22B	#22	17'-8"	
23B	#23	19'-8"	
24B	#24	26'-3"	
25B	#25	30'-6"	
26B	#26	29'-6"	
27B	#27	505.5	
28B	#28	484.0	
29B	#29	230.0	
30B	#30	2,028	
31B	#31	1	
32B	#32	798	
33B	#33	1	

PILE DATA

Type	Steel	HP10-42
Capacity	Drive to refusal	
Est. Length	52'	
No. Required	40"	

* Includes one test pile driven in a permanent location.

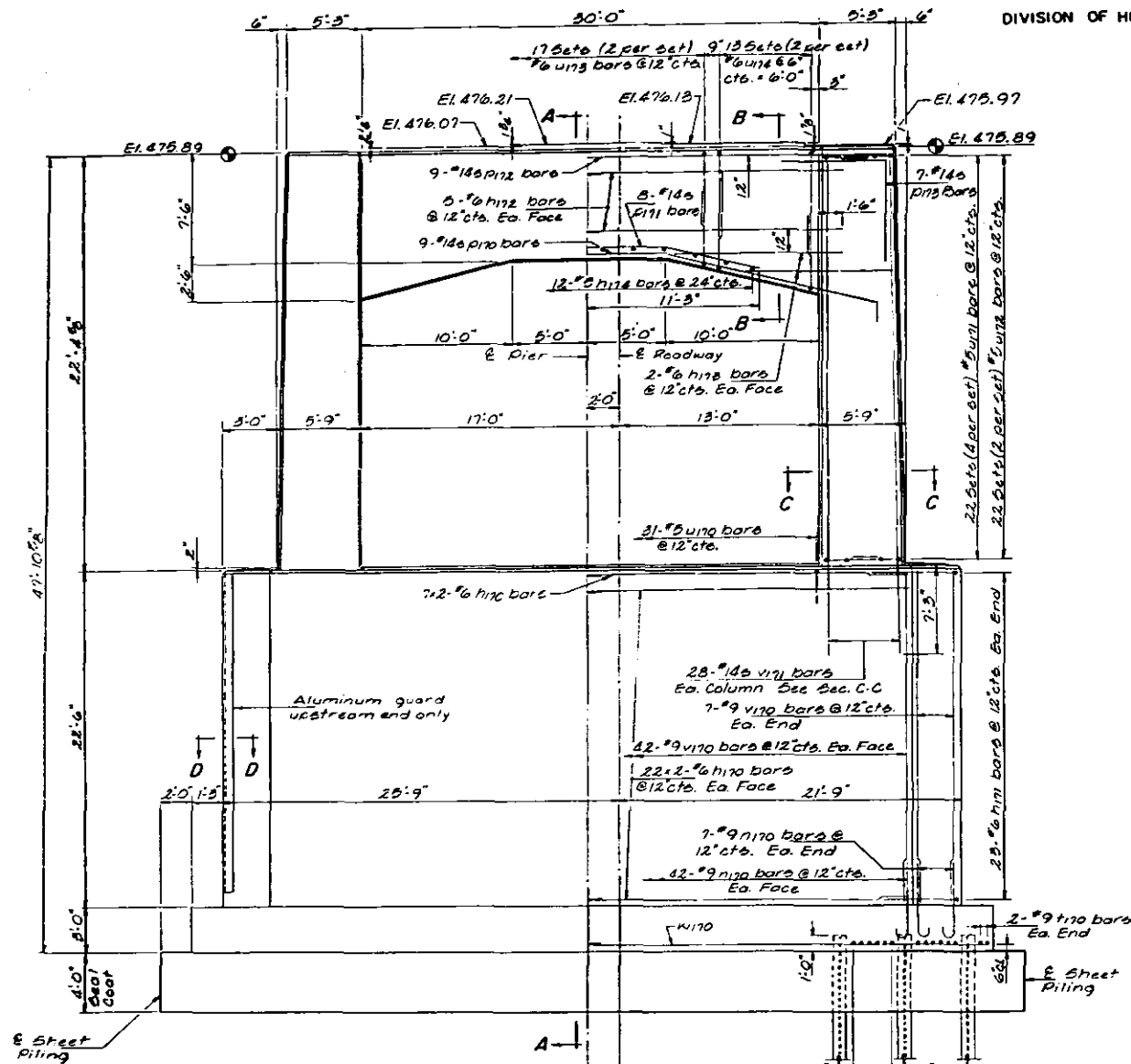
† Bars p10, p11 and v10 shall be Grade 60 Steel Reinforcement Bars.

PIER 16
M^oCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15 B-1
PEORIA & TAZEWELL COUNTIES

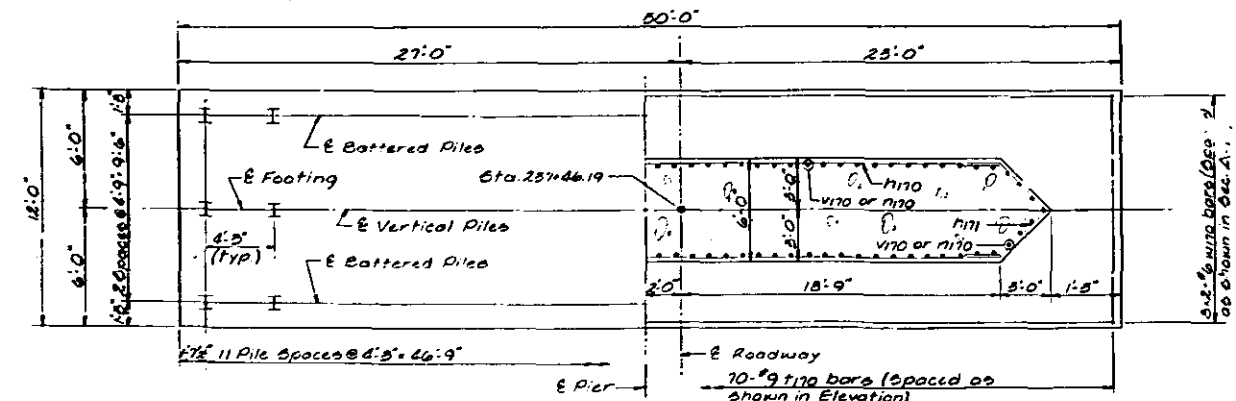
CRN	DLB	DAB	CRN
73001			
12-21-74			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.	SHEET TOTAL	DATE
FAA9	15-1	25	12
PEORIA & TAZEWELL COUNTIES			

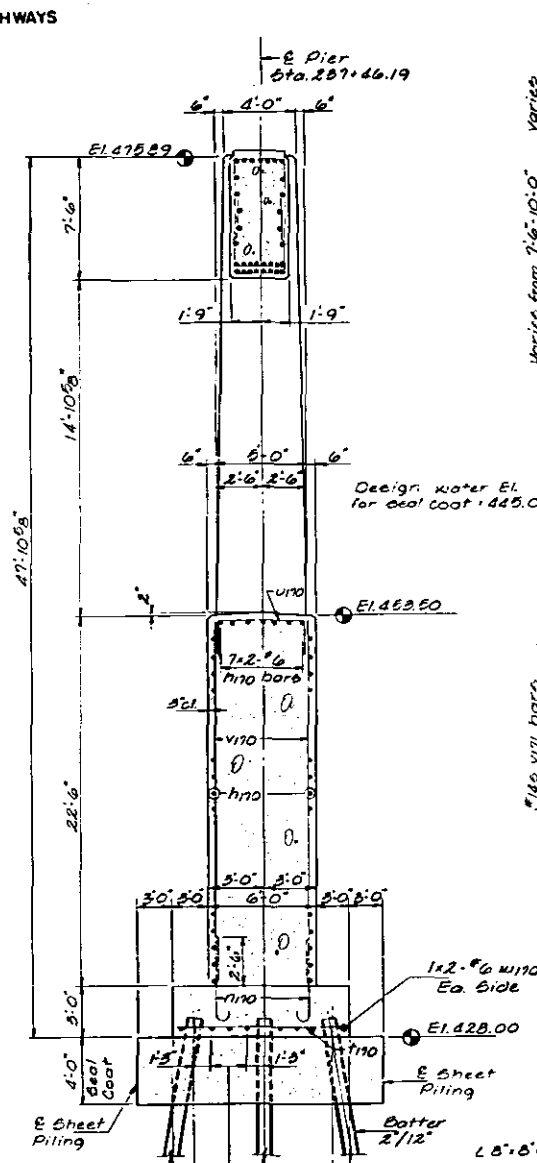


ELEVATION (Looking East)

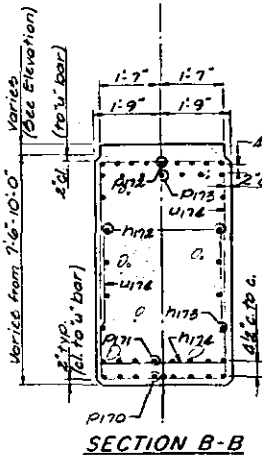


HALF PILE PLAN

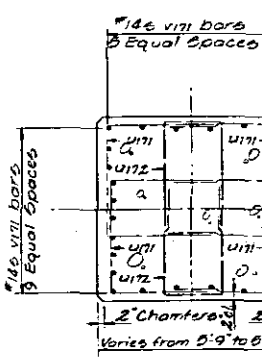
HALF FOOTING PLAN



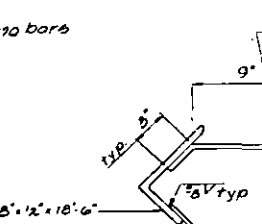
SECTION A-A



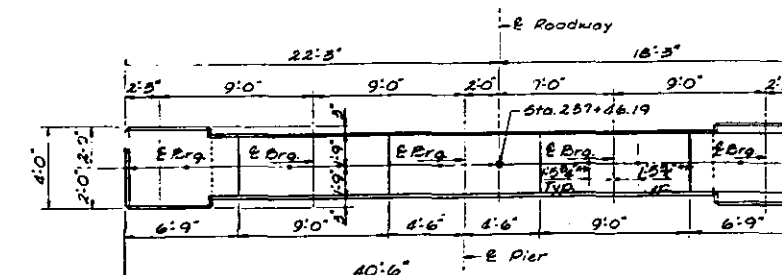
SECTION B-B



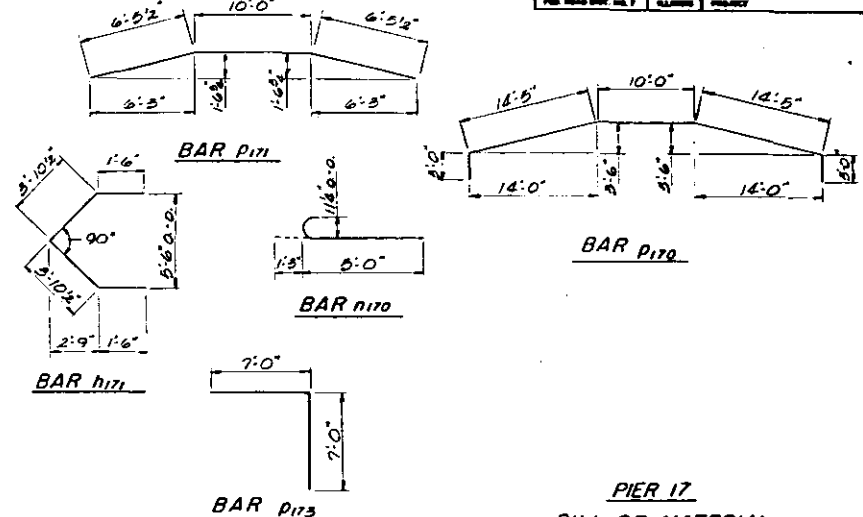
SECTION C-C



SECTION D-D



TOP PLAN



PIER 17

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
#170	102	#6	21'-6"	
#171	46	#6	10'-9"	C
#172	10	#6	23'-0"	
#173	8	#6	10'-0"	
#174	12	#6	5'-5"	
#175	98	#9	6'-5"	C
#176	9	#14	44'-10"	
#177	8	#14	22'-11"	
#178	9	#14	40'-0"	
#179	14	#14	16'-0"	
#180	70	#9	11'-6"	
#181	31	#5	8'-4"	
#182	176	#5	10'-7"	
#183	83	#5	8'-8"	
#184	34	#6	17'-2"	
#185	52	#6	19'-2"	
#186	93	#9	22'-5"	
#187	56	#14	29'-5"	
#188	16	#6	25'-6"	
Class A Concrete				Cu Yds. 564.1
Reinforcement Bars				Lbs. 44,270
Steel Piles HP 12x53				Cu Yds. 144.0
Test Pile HP 12x53				Each 1
Cofferdam Excavation Cu Yds.				450
Cofferdam				Each 1

PILE DATA

Type Steel HP 12x53
Capacity Drive to Refusal
Est. Length 40'
No. Required 56

* Includes one test pile driven in a permanent location.
* Bars #170, #171, #172 & #173 shall be Grade 60 Steel Reinforcement Bars.

PIER 17

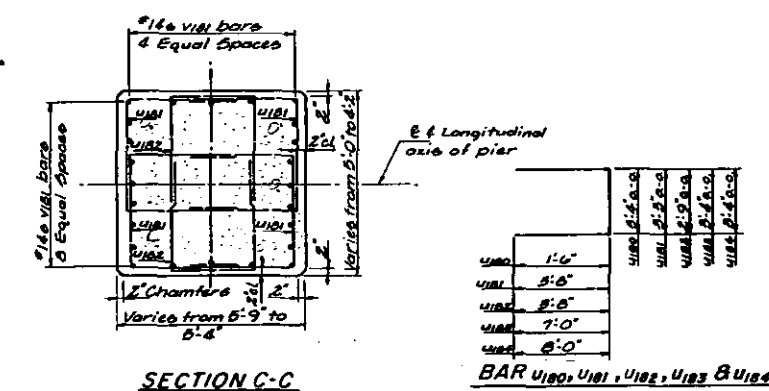
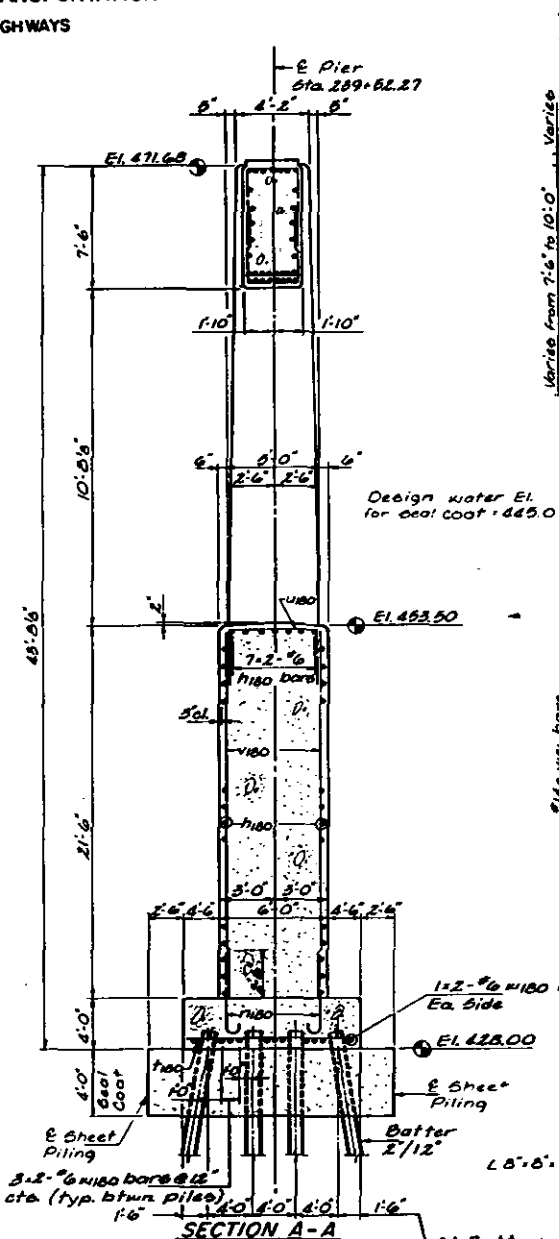
McCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15 B-1
PEORIA & TAZEWELL COUNTIES

DESIGNED CRN	CHECKED D.L.B.	DATE
DATE	DATE	DATE
DATE	DATE	DATE



74001
12-31-76

ROUTE NO.	SEC.	CATEGORY	TOTAL POINTS	GRADE NO.
FA.49	15-1 (F15)	Pooria & Tavernall	25	20
VEH. GRAD. DIST. VOL. 2		PLANNING	PROJECT	



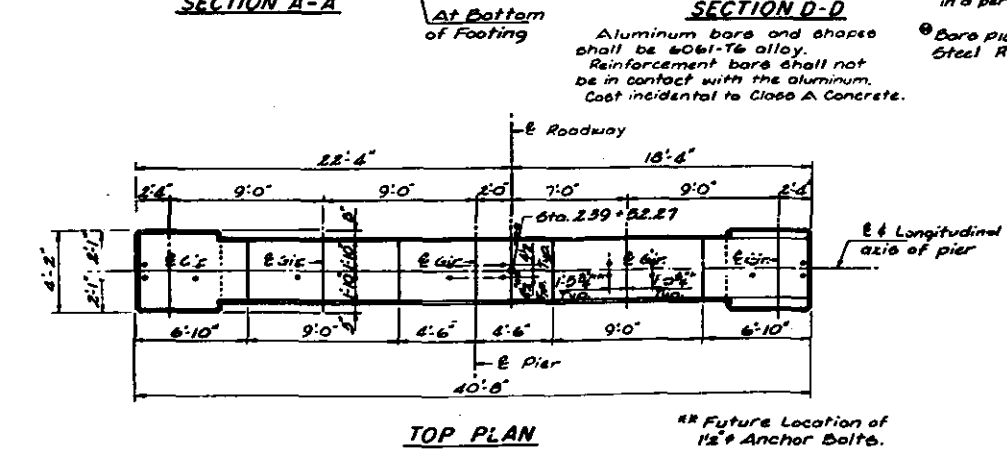
BAR	NO.	SIZE	LENGTH	SHAPE
#180	98	#6	21'-6"	—
#181	44	#6	10'-9"	C
#182	10	#6	35'-0"	—
#183	8	#6	10'-0"	—
#184	12	#6	5'-5"	—
#180	98	#9	7'-5"	C
#180 ^②	9	#14	44'-10"	U
#181 ^②	8	#16	22'-11"	U
#182 ^②	9	#16	40'-0"	—
#183	14	#16	14'-0"	7
#180	58	#10	14'-9"	—

PILE DATA

Type	Steel HP 12x33
Capacity	Drive to refusal
Est. Length	45'
No. Required	40*

* Includes one test pile driven in a permanent location.

② Each pier, pier i/pier shall be Grade 60
Steel Reinforcement Bars



Class A Concrete	Cu Yds.	591.2
Reinforcement Bars	Lbs.	53,690
Seal Coat Concrete	Cu Yds.	1070
Steel Pile HP12x53	Lm. Ft.	4,765
Test Pile HP12x53	Each	1
Cofferdam Excavation	Cu Yds.	691
Cofferdam	Each	1

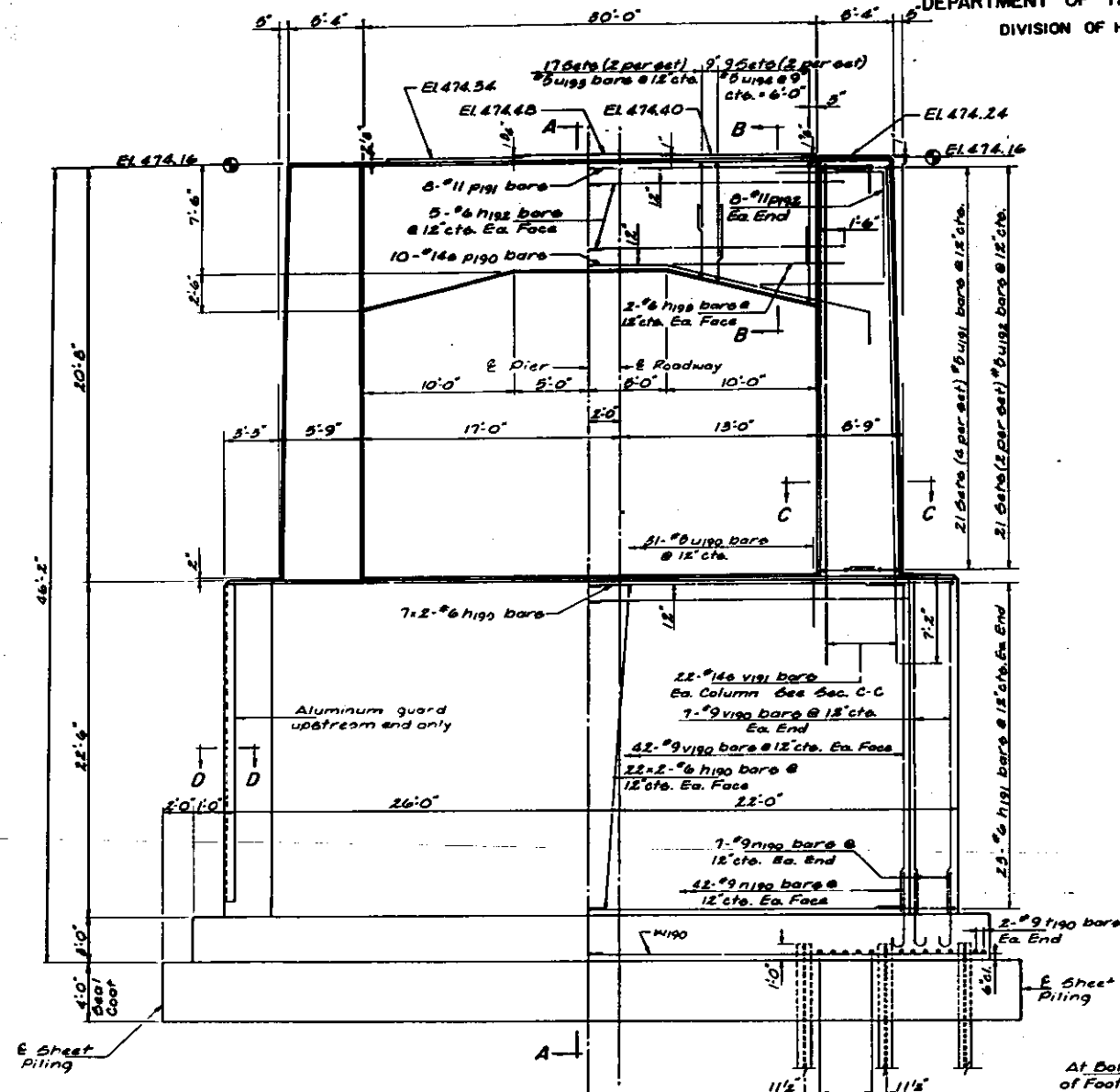
PIER 18

M^CCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15B-1
PEORIA & TAZEWELL COUNTIES

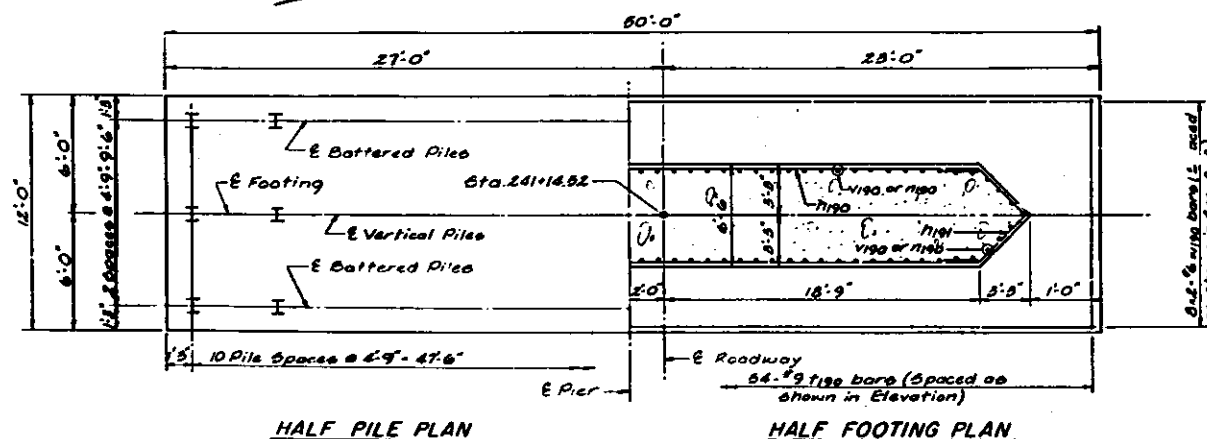
DESIGNED D.L.B.	 HANSON ENGINEERS INCORPORATED	FILE NO. 74001
CHECKED CRN		DATE
DRAWN D.A.B.		12-31-74
DATE CRN		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.	DATE	BY	CHKD.
FA 49	15-B-1	12-81	GRN	QLB
PEORIA, ILL.	15-B-1	12-81	GRN	QLB

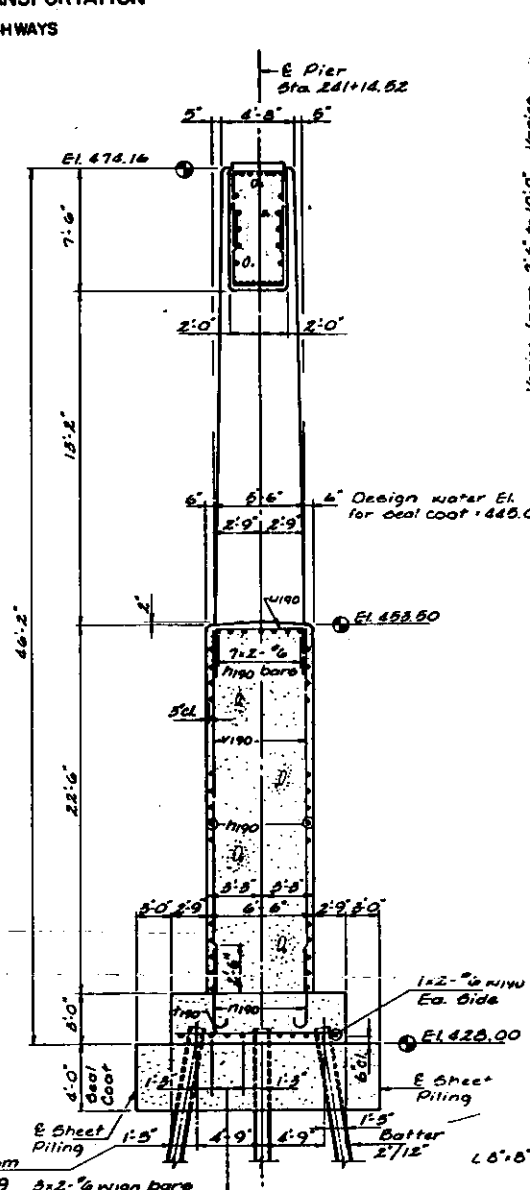


ELEVATION (Looking East)

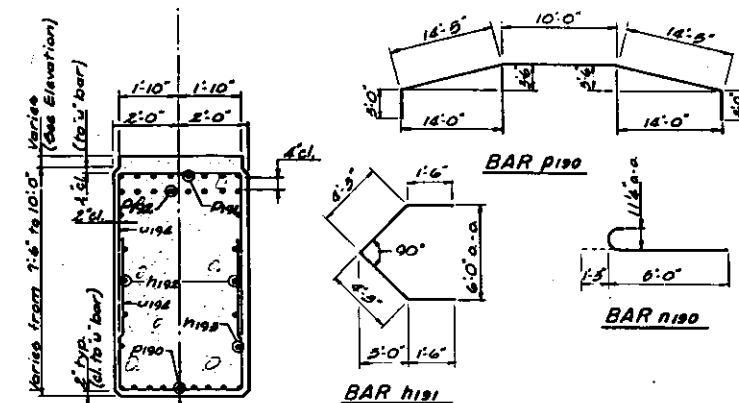


HALF PILE PLAN

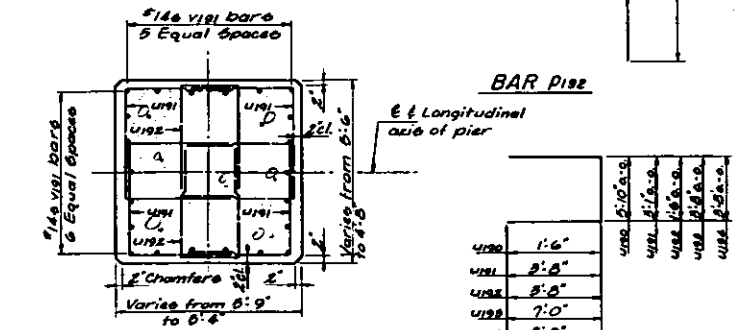
HALF FOOTING PLAN



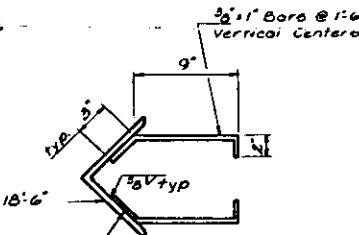
SECTION A-A



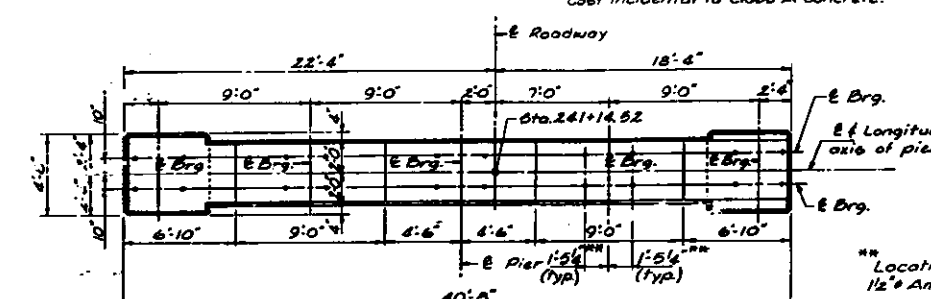
SECTION B-B



SECTION C-C



SECTION D-D



TOP PLAN

PILE DATA

Type	Steel HP 10x42
Capacity	Drive to refusal
Est. Length	42'
No. Required	85*

*Includes one test pile driven in a permanent location.
*Bars prep & vial shall be Grade 60 Steel Reinforcement Bars.

PIER 19
BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	GRADE
h190	102	21'-9"	
h191	46	11'-6"	
h192	10	35'-0"	
h193	8	10'-0"	
h194	98	6'-3"	
p190	10	44'-10"	
p191	8	40'-0"	
p192	16	14'-0"	
f190	54	11'-6"	
u190	31	8'-10"	
u191	168	10'-8"	
u192	84	8'-10"	
u193	38	17'-8"	
u194	36	19'-8"	
v190	98	22'-8"	
v191	44	27'-6"	
w190	16	20'-6"	
Class A Concrete	Cu Yds.	390.9	
Reinforcement Bars	Lbs.	56,790	
Seal Coat Concrete	Cu Yds.	144.0	
Steel Piles HP 10x42	Lin. Ft.	1544	
Test Pile HP 10x42	Each	1	
Cofferdam Excavation	Cu Yds.	497	
Cofferdam	Each	1	

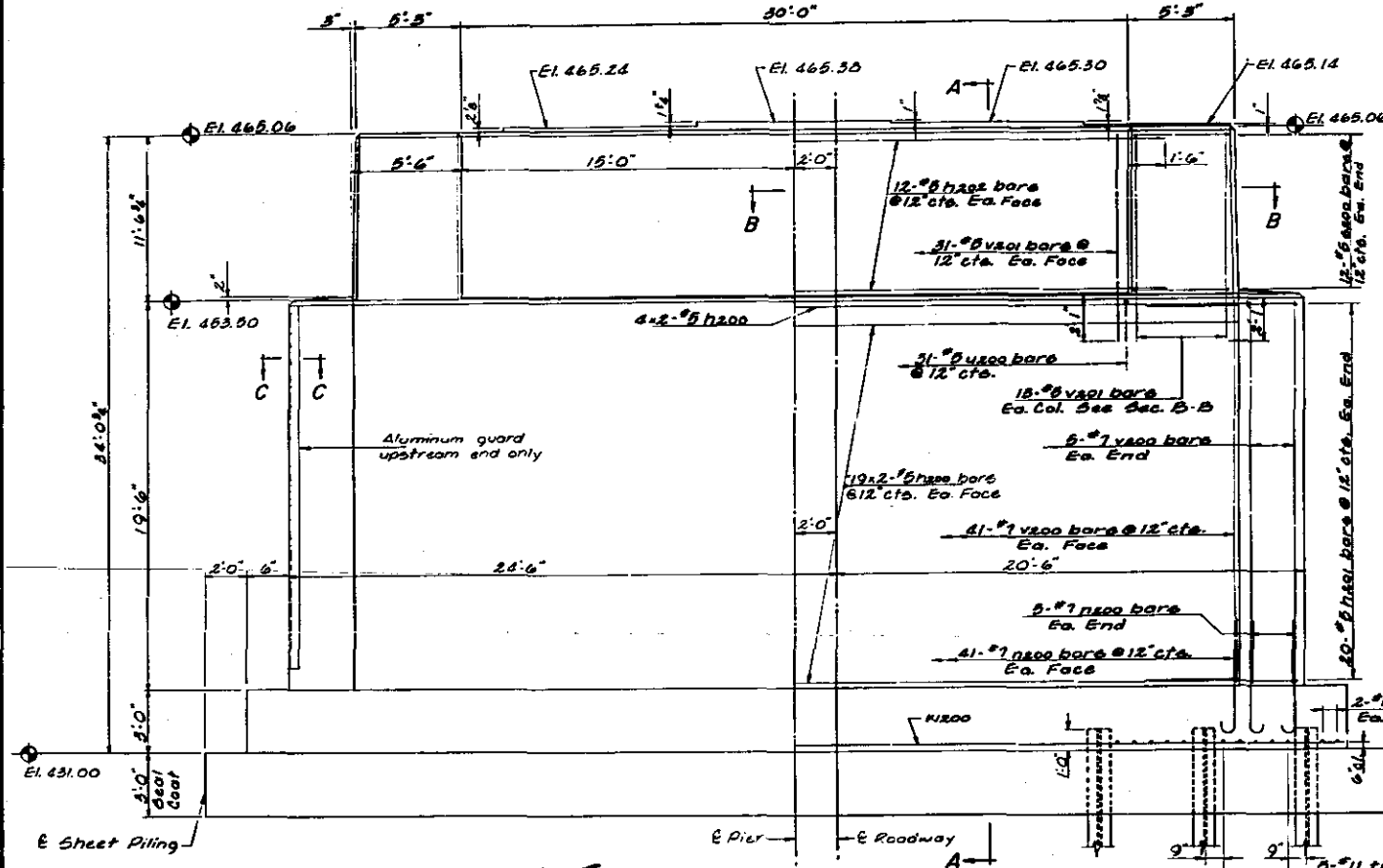
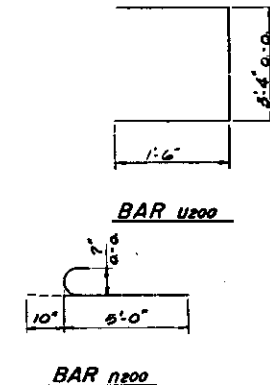
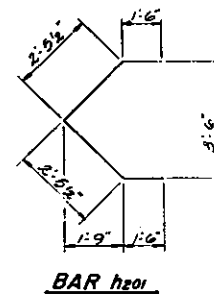
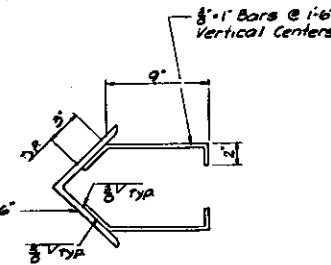
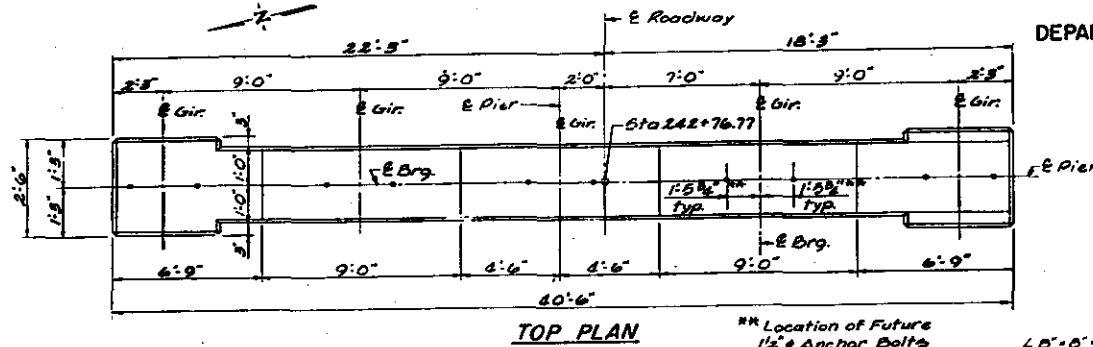
PIER 19

M^C CLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15 B-1
PEORIA & TAZEWELL COUNTIES

DESIGNED BY	GRN	CHECKED BY	QLB
APPROVED BY	QAB	DATE	12-81-74
PROJECT NO.	74001	SHEET NO.	15-B-1

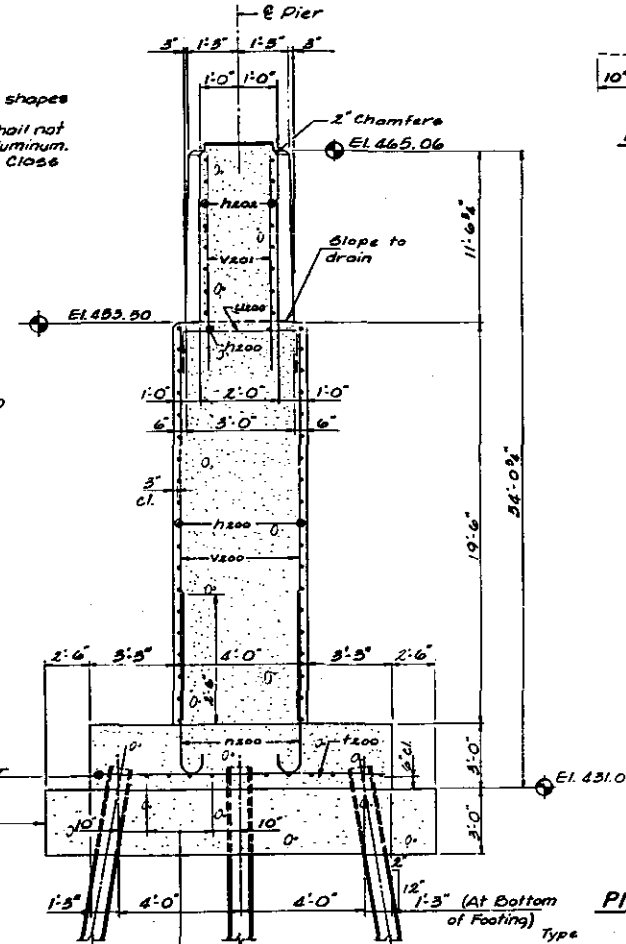
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	DATE	REVISION	BY	CHKD.
FA49	15-1	Peoria & Tazewell	25	22
FA49	15-1	(F&E)		
FOR ROAD DIST. ONLY				



Aluminum bars and shapes shall be 6061-T6 alloy. Reinforcement bars shall not be in contact with the aluminum. Cost incidental to Class A Concrete.

Design Water El. for Seal Coat = 445.0



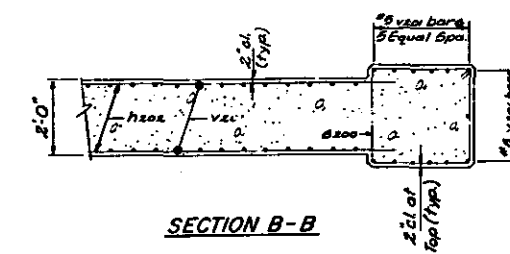
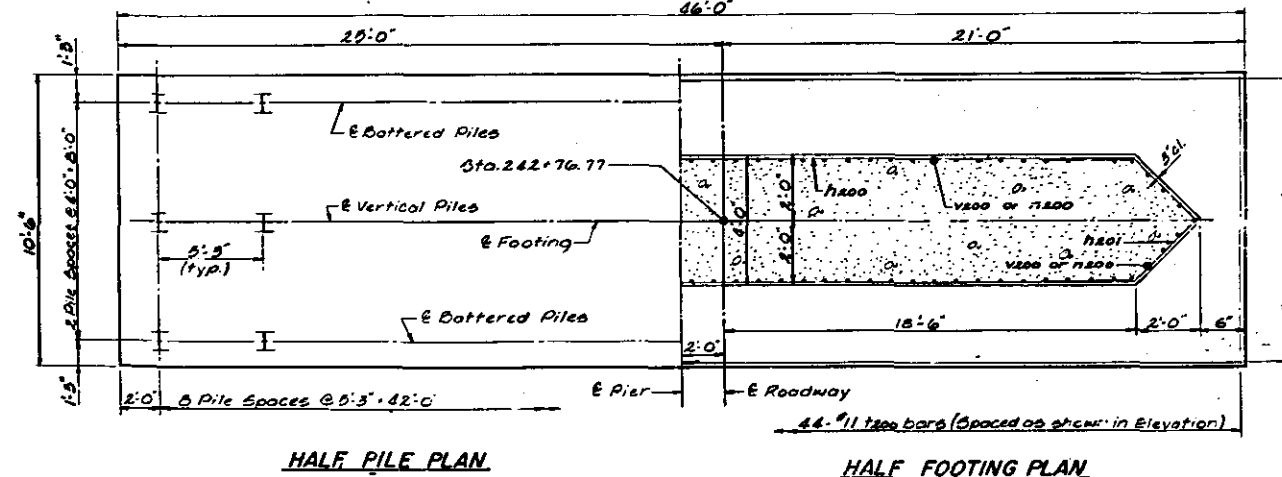
PILE DATA

Type HP 12x55
Capacity Drive to Refusal
Est. Length 45'
No. Required 27*

* Includes one test pile driven in a permanent location.

PIER 20
BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	SHAPE
h200	34	21'-5"	
h201	40	7'-11"	
h202	24	33'-0"	
u200	92	5'-10"	
s200	24	12'-11"	
t200	44	10'-0"	
u200	31	6'-4"	
v200	92	19'-4"	
v201	88	15'-6"	
h200	20	25'-6"	
Class A Concrete	Cu. Yds.	216.7	
Reinforcement Bars	Lbs.	12,610	
Seal Coat Concrete	Cu. Yds.	86.1	
Steel Piles HP 12x55	Lin. Ft.	1170	
Test Pile HP 12x55	Each	1	
Cofferdam Excavation	Cu. Yds.	301	
Cofferdam	Each	1	



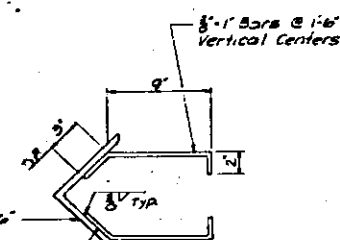
PIER 20

M^cCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15B-1
PEORIA & TAZEWELL COUNTIES

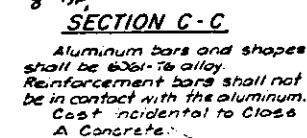
DESIGNED BY D.L.B.
CHECKED BY G.R.N.
DRAWN BY D.A.B.
APPROVED BY D.L.B.

HANSON ENGINEERS
INCORPORATED
SPRINGFIELD, ILLINOIS

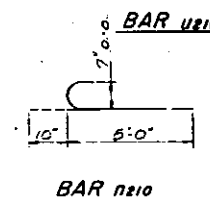
FILE NO. 74001
DATE 12-31-74



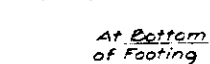
** Location of Future
1/2" Anchor Bolts.



Aluminum bars and shapes shall be 6061-T6 alloy. Reinforcement bars shall not be in contact with the aluminum. Cost incidental to Class A Concrete.



BAR n210



ELEVATION (Looking East)



SECTION B-B



HALF PILE PLAN

[illegible]

PILE DATA

Type	HP 12 x 55
Capacity	Refusal
Est. Length	48'
No. Required	27*

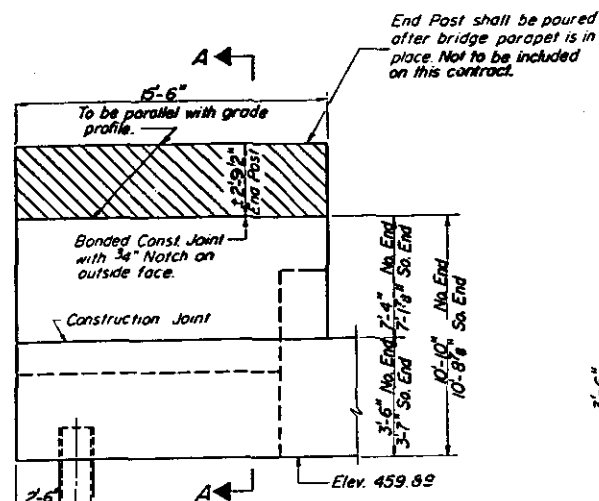
*Includes one test pile driven in a permanent location

PIER 21

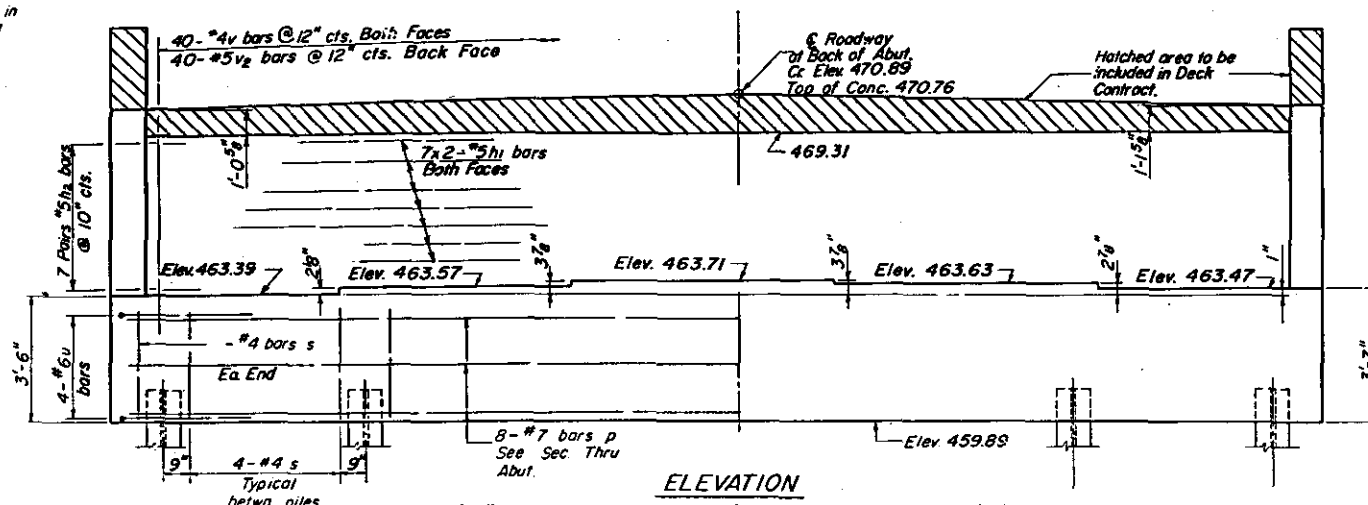
M^C CLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15 B-1
PEORIA & TAZEWELL COUNTIES

DESIGNED <u>DLE</u> CHECKED <u>C.R.N.</u> DRAWN <u>O.A.B.</u> QUANTITY <u>01.0</u>	 HANSON ENGINEERS INCORPORATED SPRINGFIELD, ILLINOIS PEORIA, ILLINOIS	FILE NO. <u>7400</u> DATE <u>12-21-74</u>
---	--	--

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
49	15-B	Peoria & Tazewell	25	24

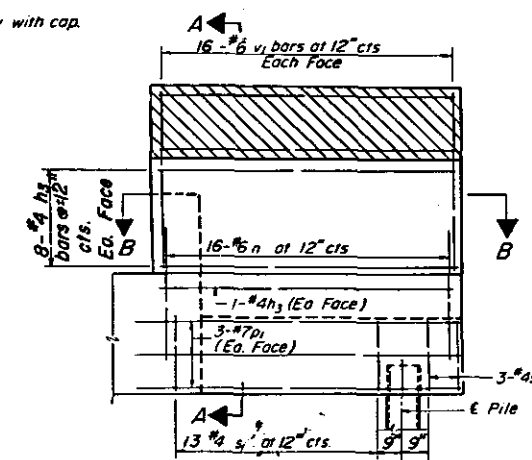


WING WALL ELEVATION

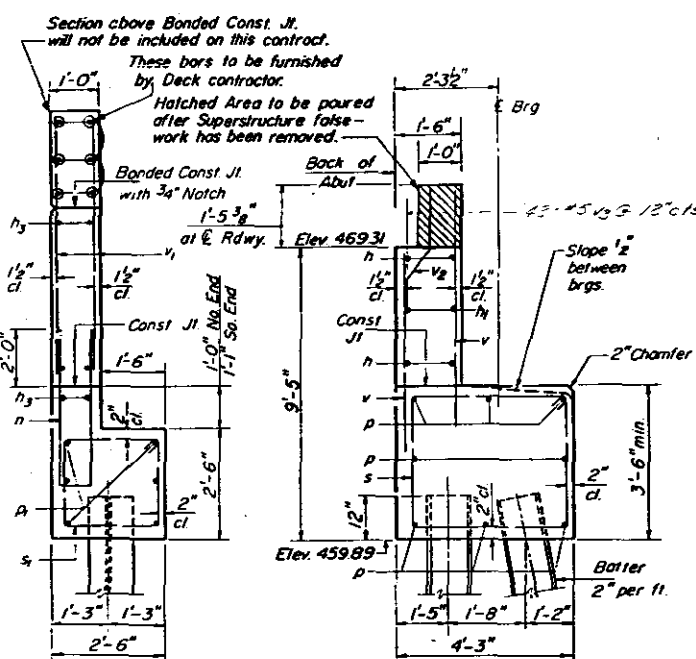


ELEVATION

Four steps monolithically with cap.

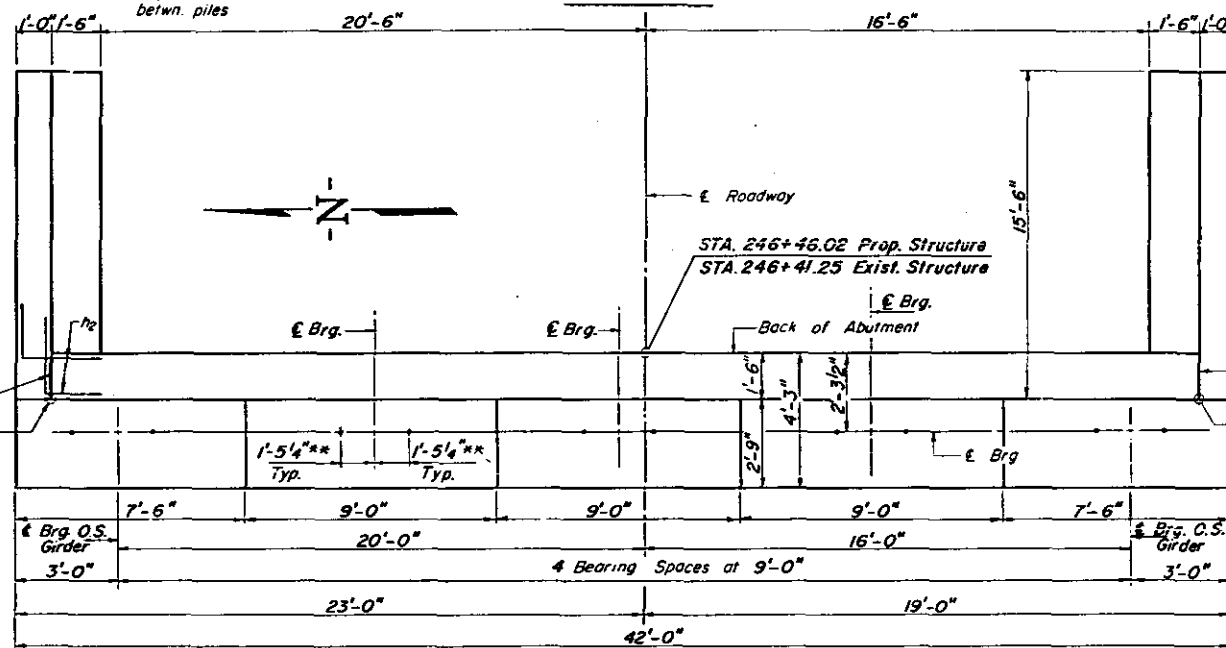


WING WALL ELEVATION Reinforcement

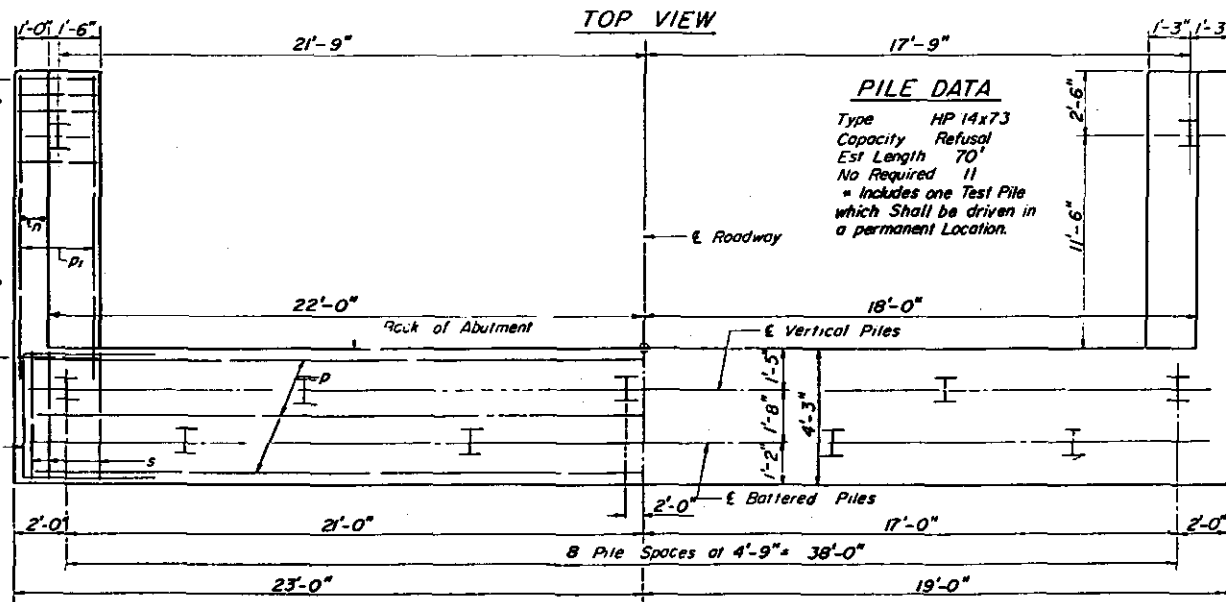


SEC. A-A

SEC. THRU ABUT.



TOP VIEW

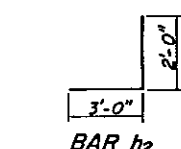


PLAN-PILE CAP

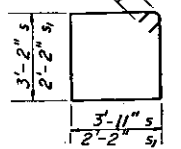
PILE DATA

Type HP 14x73
Capacity Refusal
Est Length 70'
No Required 11
Includes one Test Pile which Shall be driven in a permanent Location.

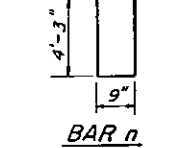
** Location of Future 1/2" Anchor Bolts.



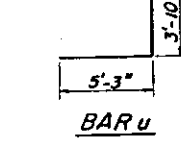
BAR h2



BAR s s1



BAR n



BAR u

EAST ABUTMENT BILL OF MATERIAL

Bar	No	Size	Length	Shape
h1	28	#5	2'-0"	—
h2	28	#5	5'-0"	—
h3	36	#4	15'-0"	—
n	32	#6	9'-3"	U
p	8	#7	4'-6"	—
pi	12	#7	16'-0"	—
s	36	#4	14'-11"	□
s1	26	#4	9'-5"	□
u	8	#6	14'-4"	U
u2	32	#5	3'-0"	—
v	80	#4	8'-9"	—
v1	64	#6	9'-9"	—
v2	40	#4	3'-3"	—
Class X Concrete			Cu Yds.	52.9
Reinforcement Bars			Lbs.	4960
Steel Piles HP 14 x 73			Lin. Ft.	700
Test Piles HP 14 x 73			Ea.	1

EAST ABUTMENT

M^C CLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15B-1
PEORIA & TAZEWELL COUNTIES

DESIGNED BY
DLB
CHECKED BY
CRN
DATE
12-51-74



PROJECT NO.
74001
DATE
12-51-74

TYPICAL HP PILE ENCASEMENT

See Detail E-1 from 4700 to 4710 1-31-75 L.D.

See Detail E-2 from 4710 to 4760 7-29-75 D.D.

For Informational Purposes Only -
Not Included In This Contract

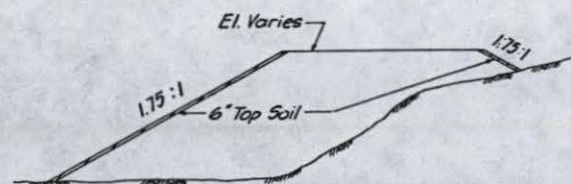
Rev. 7-31-75

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA 49	15-1 (Fix)	PEORIA AND TAZEWELL	25	25
FOR ROAD DIST. NO. 1				

Note: Class II Seeding shall be applied to all areas which receive Top Soil.
Mulch Method 3 shall be used on all Class II Seeded areas.

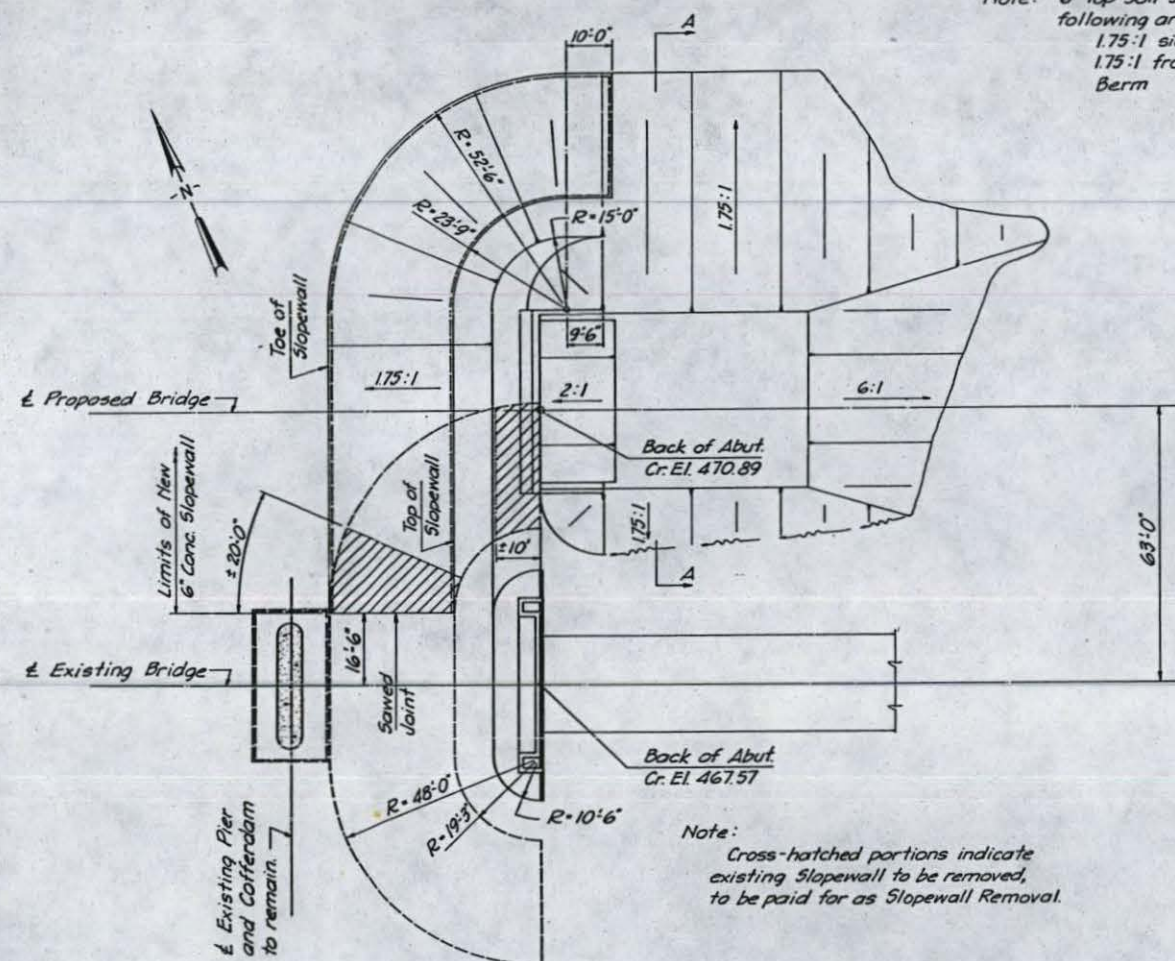
Note: Fertilizer Nutrients to be used as follows.

Type	Class II Seeding
Nitrogen	120 lbs./acre
Phosphorous	72 lbs./acre
Potassium	48 lbs./acre



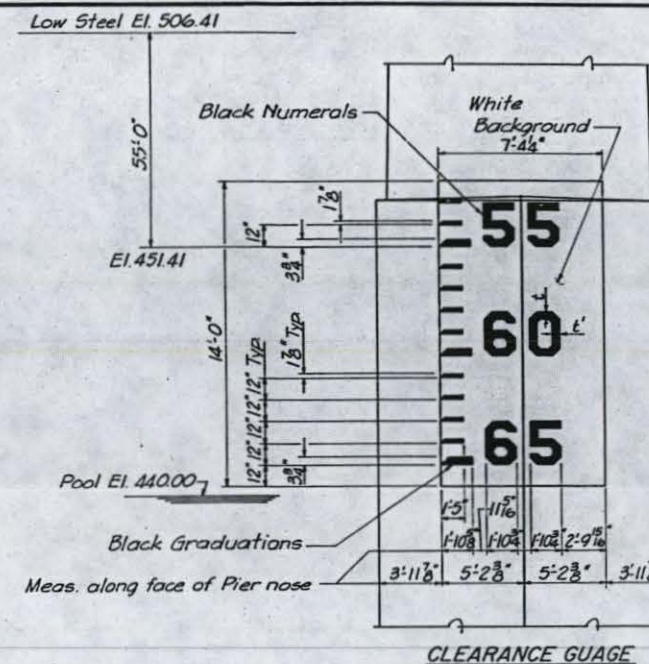
SECTION A-A

Note: 6" Top Soil shall be provided on the following areas.
1.75:1 side slopes
1.75:1 front slope above slope wall
Berm



PLAN

Note: Cross-hatched portions indicate existing Slope wall to be removed, to be paid for as Slope wall Removal.

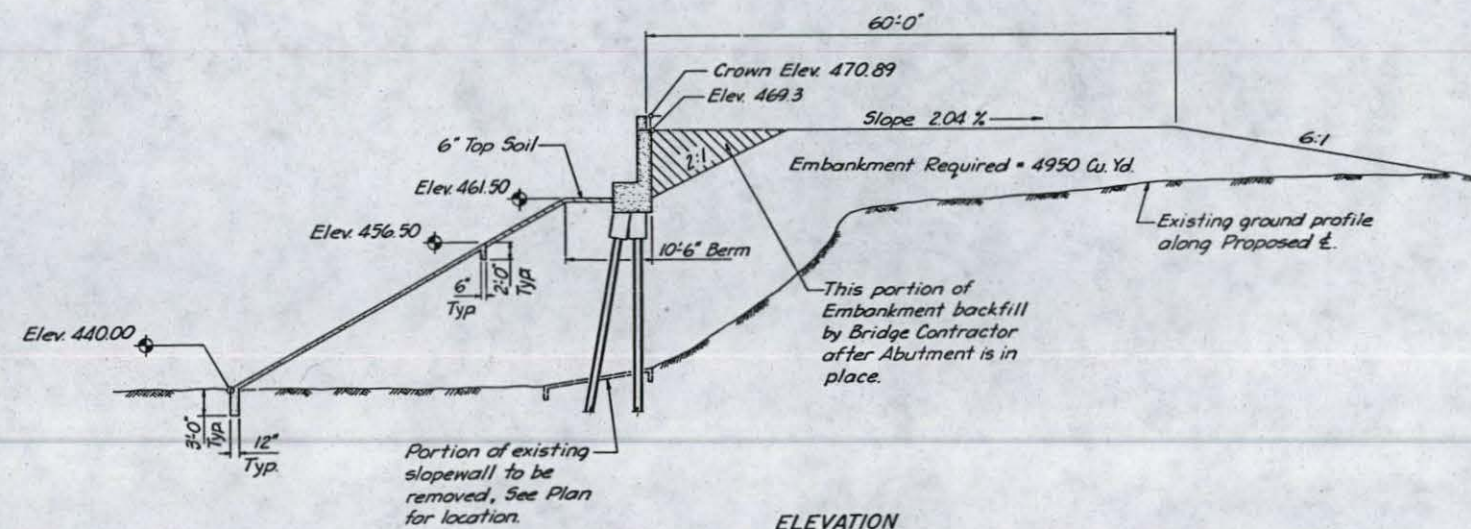


Note: Location - Pier II on Upstream Face.
For painting see Special Provisions - Cost Incidental.

Numerals shall conform to the 24" Series D standard numerals as set forth in the Coast Guard publication "Bridge Clearance Gauges". The size, type and spacing of the numerals shall conform to the publication "Standard Alphabets for Highway Signs", Bureau of Public Roads, Department of Transportation.

$$t = 3\frac{3}{4}"$$

$$t' = 5\frac{1}{4}"$$



ELEVATION

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Embankment	Cu. Yd.	4950.0
Slope wall Removal	Sq. Yd.	89.5
Slope wall 6 Inch	Sq. Yd.	603.8
Top Soil Placement 6"	Sq. Yd.	811
Seeding Class II	Acre	0.2
Nitrogen Fert. Nutr.	Lbs.	24
Phosphorous Fert. Nutr.	Lbs.	14.4
Potassium Fert. Nutr.	Lbs.	9.6
Mulch Method 3	Ton	1

CLEARANCE GAUGE
AND
SLOPE WALL EAST ABUTMENT

M^cCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15B-1
PEORIA & TAZEWELL COUNTIES

DESIGNED BY	CRN		FILE NO. 74001 DATE 5-15-75
DRAWN BY	DLB		
CHECKED BY	RAH		
APPROVED BY	CRN		

REVISED 8-25-75

For Informational Purposes Only - Not Included In This Contract

STATE NO.	REL.	QUANTITY	REEL NO.	REEL
F.A. 49	15B-2	PEORIA	56	1
FED. ROAD DIST. NO. 7				
PROJECT F-49(22)				

P-94-156-69

INDEX OF SHEETS

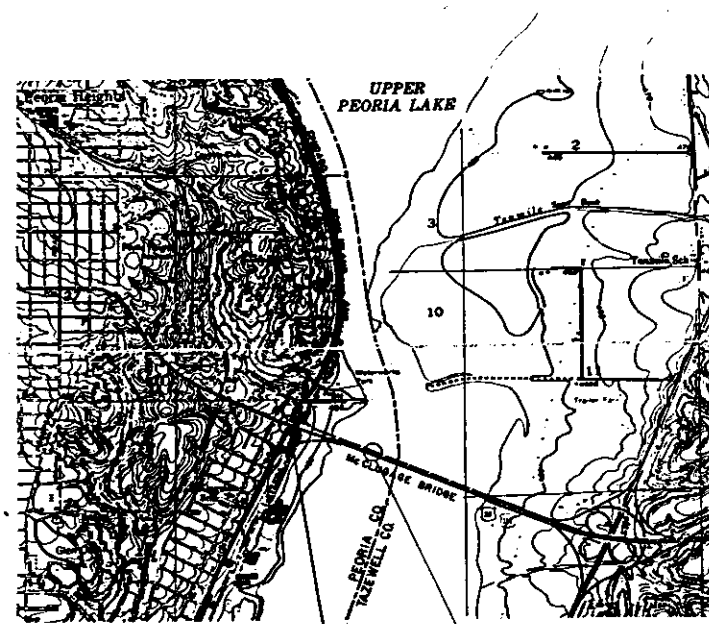
- 1 TITLE SHEET
 - 2 SUMMARY OF QUANTITIES
 - 3 TYPICAL SECTIONS
 - 4 PLAN - RAMP A
 - 5 FENCING DETAIL & ACCESS ROAD
 - 6A TRAFFIC CONTROL & PROTECTION & CONCRETE FOUNDATION DETAILS
 - 7 CROSS SECTIONS
 - 8 CROSS SECTIONS
 - 9 CROSS SECTIONS
 - 10 CROSS SECTIONS
 - 11 GENERAL PLAN & ELEVATION
 - 12 HORIZONTAL CONTROL, BENCH MARKS & R.O.W.
 - 13 FOOTING LAYOUT - MAIN LINE & RAMP F
 - 14 FOOTING LAYOUT - MAIN LINE
 - 15 FOOTING LAYOUT - RAMP E
 - 16 STEEL PLATE BEAM GUARD RAIL - REMOVAL OF SUPERSTRUCTURE
 - 17 WEST ABUTMENT
 - 18 WEST ABUTMENT EMBANKMENT & SHEETING
 - 19 PIER 2
 - 20 PIER 3
 - 21 PIER 4
 - 22 PIER 5
 - 23 PIER 6
 - 24 PIER 7
 - 25 PIER 8
 - 26 PIER 9
 - 27 NORTH ABUTMENT
 - 28 NORTH ABUTMENT EMBANKMENT & SHEETING
 - 29 RAMP F EARTH EXCAVATION CROSS SECTIONS
 - 30 PIER 2F
 - 31 SOUTH ABUTMENT
 - 32 SOUTH ABUTMENT EMBANKMENT
 - 33 RAMP E EARTH EXCAVATION CROSS SECTIONS
 - 34 PIER 2E
 - 35 PIER 3E
 - 36 PIER 4E
 - 37 PIER 5E
 - 38 PIER 6E
 - 39 PIER 7E
 - 40 PIER 8E
 - 41 PIER 9E
 - 42 CONCRETE PILE STANDARD
 - 43 BORING PLAN
 - 44 BORING PLAN
 - 45-52 BORINGS
 - 53-55 MONITORING SYSTEM
 - 56 UTILITY & RIGHT OF WAYS
 - 56A TRAFFIC BARRIER TERMINAL DETAILS
- | | | |
|--------|---------|--------|
| 1683-4 | 2214-4 | 2302-3 |
| 1686-4 | 2217-3 | 2303-4 |
| 2130-5 | 2230-11 | 2305-3 |
| 2169-8 | 2298-4 | 2323-3 |
| 2169-6 | 2299-7 | 2337 |
| 2176-1 | 2300-1 | |

DESIGN DESIGNATION
3996 (94) MAJOR (PCC-20)

CONTRACT NO. 82887

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANS FOR PROPOSED FEDERAL AID HIGHWAY F.A. ROUTE 49 (F.A. RTE. 31) SECTION 15B-2 PROJECT F-49(22) PEORIA COUNTY

C-94-121-76



PROPOSED PROJECT
BEGINS STA. 199+00.77

PROPOSED PROJECT
ENDS STA. 213+37.77

NET LENGTH OF PROPOSED IMPROVEMENT & PROJECT
1437 LIN. FT. = 0.272 MI.

LAYOUT
SCALE = 1" = 200'

PROPOSED IMPROVEMENT INCLUDES COMPLETE CONSTRUCTION OF PIERS 2 THRU 9 INCLUSIVE, PIER 2F, PIERS 2E THRU 9E INCLUSIVE, WEST ABUTMENT, NORTH ABUTMENT AND SOUTH ABUTMENT. THESE PIERS WILL EVENTUALLY SUPPORT A TWO LANE CANTILEVER TRUSS WITH PLATE GIRDER APPROACHES, AN EXIT RAMP FROM THE NEW STRUCTURE AND AN ENTRANCE RAMP TO THE EXISTING STRUCTURE. THE IMPROVEMENT WILL CARRY F.A. ROUTE 31 (U.S. RT. 24) OVER THE ILLINOIS RIVER AT PEORIA. ALSO INCLUDED ARE PAVEMENT REMOVAL, WIDENING, AND RESURFACING OF RAMPA AND WIDENING ON ADAMS ST.

REVISED SET
12-20-77

SUBMITTED	July 31, 1977
EXAMINED	June 30, 1977
EXAMINED	June 24, 1977
EXAMINED	July 7, 1977
DATE	2-22-77



LOCATION OF SECTION INDICATED THUS —

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
SUBMITTED	7-22-77
EXAMINED	8-6-77
PASSED	8-6-77
APPROVED	9-6-77
DISTRICT ENGINEER	
ENGINEER OF PLANS AND CONTRACTS	
ENGINEER OF DESIGN	
DIRECTOR OF HIGHWAYS	

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	DATE
DIVISION ADMINISTRATOR	

Revised 10-18-77

Rev. 12-20-77
Rev. 7-30-77

REEL 4-123

SUMMARY OF QUANTITIES

CONSTR TYPE CODE			
CODE NO	ITEM	UNIT	TOTAL QUANTITY
201001	TREE REMOVAL (6 TO 15 INCH DIAMETER)	IN.DIA.	584
201002	TREE REMOVAL (OVER 15 INCH DIAMETER)	IN.DIA.	580
202001	EARTH EXCAVATION	CU.YD.	1808
308007	BITUMINOUS BASE COURSE 10 INCHES	SQ.YD.	424
306008	BITUMINOUS CONCRETE BASE COURSE WIDENING 10 INCHES	SQ.YD.	467
406006	LEVELING BINDER (HAND METHOD)	TON	22
406013	BITUMINOUS CONCRETE SURFACE COURSE, CLASS 1, MIX D	TON	156
501015	REMOVAL OF EXISTING SUPERSTRUCTURE	EACH	1
501024	CONCRETE REMOVAL	CU.YD.	9.6
501038	EXPANSION BOLTS 7/8"	EACH	347
502001	STRUCTURE EXCAVATION	CU.YD.	2,391
502003	COFFERDAM EXCAVATION	CU.YD.	2,046
502014	COFFERDAM PIER 9	EACH	1
502013	COFFERDAM PIER 8	EACH	1
502012	COFFERDAM PIER 7	EACH	1
502011	COFFERDAM PIER 6	EACH	1
X06188	COFFERDAM PIER 9 E	EACH	1
X06186	COFFERDAM PIER 8 E	EACH	1
X06184	COFFERDAM PIER 7 E	EACH	1
X06182	COFFERDAM PIER 6 E	EACH	1
502009	COFFERDAM PIER 4	EACH	1
504002	CLASS A CONCRETE	CU.YD.	4452.9
504003	CLASS X CONCRETE	CU.YD.	165.2
504004	SEAL COAT CONCRETE	CU.YD.	519.1
504008	CLASS X CONCRETE (OUTLETS)	CU.YD.	1.0
512001	REINFORCEMENT BARS	LBS.	457,060
513014	FURNISHING STEEL PILES HP 10 X 42	LIN.FT.	2,538
513015	FURNISHING STEEL PILES HP 10 X 36	LIN.FT.	8,047
513016	FURNISHING STEEL PILES HP 12 X 53	LIN.FT.	909
513018	FURNISHING STEEL PILES HP 14 X 73	LIN.FT.	10,213
513022	FURNISHING CONCRETE PILES (12" DIA.)	LIN.FT.	13,058
513027	DRIVING STEEL PILES	LIN.FT.	10,213
513028	DRIVING CONCRETE PILES	EACH	2
513034	TEST PILE - STEEL HP 10 X 42	EACH	4
513035	TEST PILE - STEEL HP 10 X 36	EACH	2
513036	TEST PILE - STEEL HP 12 X 53	EACH	11
513038	TEST PILE - STEEL HP 14 X 73	EACH	4,017
513042	TEST PILE - 12" CONCRETE	SQ.FT.	1,950
513049	STEEL SHEET PILING	SQ.FT.	2
513052	TEMPORARY STEEL SHEET PILING	EACH	1
612357	INLETS, TYPE A, TYPE 3 FRAME & GRATE	EACH	4
612362	INLETS, TYPE A, TYPE 8 GRATE	EACH	1
615003	FILLING EXISTING INLETS	EACH	140
616038	COMBINATION CONCRETE CURB & GUTTER, TYPE B-612	LIN.FT.	356
616050	COMBINATION CONCRETE CURB & GUTTER, TYPE B-624	LIN.FT.	27
616086	COMBINATION CONCRETE CURB & GUTTER, TYPE H-606	LIN.FT.	160
616104	COMBINATION CONCRETE CURB & GUTTER, TYPE H-624	LIN.FT.	200
616035	COMBINATION CONCRETE CURB & GUTTER, TYPE B-606	SO.YD.	702
617001	PAVEMENT REMOVAL	LIN.FT.	1,945
617005	COMB. CURB & GUTTER REMOVAL	SQ.YD.	187
617010	BITUMINOUS CONCRETE SURFACE REMOVAL	SQ.FT.	150
617031	MEDIAN REMOVAL	SQ.FT.	29
620062	PAVEMENT REMOVAL & PORTLAND CEMENT CONCRETE REPLACEMENT SPECIAL 9"	IN.FT.	320
X62837	STEEL PLATE BEAM GUARD RAIL, TYPE A	LIN.FT.	299
628005	STEEL PLATE BEAM GUARD RAIL, SINGLE RAIL (SPECIAL)	LIN.FT.	150
629003	CHAIN LINK FENCE, 6'	LIN.FT.	209
629119	TEMPORARY FENCE	LIN.FT.	214
633001	METAL PLATE GUARD RAIL REMOVAL	LIN.FT.	400
633004	CABLE ROAD GUARD REMOVAL	ACRE	0.7
642002	SEEDING, CLASS II	CAL. NO	20
646004	ENGINEER'S FIELD OFFICE, TYPE A	EACH	1
LO3200	HANDHOLE	LIN.FT.	65
LO4300	TRENCH & BACKFILL	EACH	1
LO5678	POLE, METAL 30 FT. 10" TO 12" DIA. 1ST ARM	EACH	1
LO2200	POLE FOUNDATION	EACH	1

SUMMARY OF QUANTITIES

CONSTR TYPE CODE			
CODE NO	ITEM	UNIT	TOTAL QUANTITY
LO2781	ELECTRIC CABLE, UNIT DUCT, 2-600 VXLK #6; 1 INCH POLYETHYLENE	LIN.FT.	65
LO5180	ELECTRIC CONDUCTOR (DARE ANNEALED COPPER) NO.6	LIN.FT.	65
LO5676	LAMP, 250 WATT HPS	EACH	1
LO5508	LUMINAIRE, SODIUM VAPOR, W/BUILT IN REGULATOR BALLAST 250 WATT	EACH	1
Z10019	BARRICADES (TYPE III)	LIN.FT.	85
T50101	THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS	SQ.FT.	78
T50102	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	LIN.FT.	4,447
T50105	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	LIN.FT.	155
T50106	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	LIN.FT.	246
X06258	DISMANTLE MONITORING SYSTEM	L.SUM	1
648018	TRAFFIC CONTROL & PROTECTION SPECIAL	EACH	2
628031	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	1
628032	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1
T50202	PAINT PAVEMENT MARKING - LINE 4"	LIN.FT.	1320
X06237	WELLS 6"	LIN.FT.	311
X06240	WELLS 12"	LIN.FT.	69
X06241	PUMPS	L.SUM	1
X06242	MONITORING EQUIPMENT	L.SUM	1
X06243	SETTLEMENT MONUMENT	LIN.FT.	47
Z10527	TRAINEES	HOURL	3,000

* SPECIALTY ITEMS

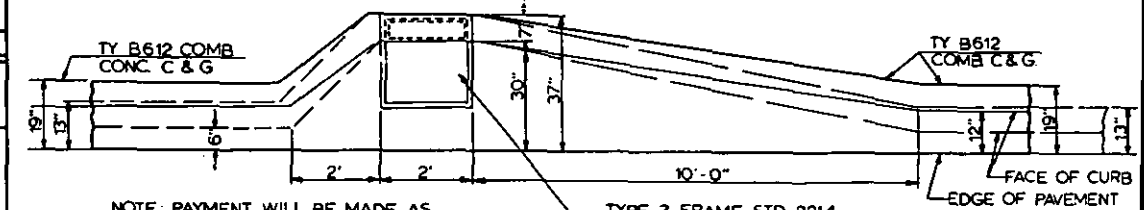
RESURFACING AND WIDENING QUANTITIES

LOCATION	LENGTH (FT)	WIDTH (FT)	BIT CONC. SURF. CSE. CLASS 1 MIX D (12 LBS/SQ YD)	BASE CSE. WIDENING (SQ YD)	BASE CSE. (SQ YD)	PRIME COAT * (GAL)	LEVELING BINDER HAND METHOD (TONS)	AGGREGATE * PRIME COAT 4 LBS/SQ YD (LBS)
ADAMS STREET								
STA. 56+15.00-57+65	150.00	0 TO 7.05	3.20	58.1	-	-	-	-
STA. 57+65-58+27.8	62.80	7.05 TO 10.0	5.31	54.4	-	.66	-	35
STA. 58+27.8-59+90.7	162.90	10	15.21	67.4	-	8.49	-	453
STA. 59+90.7-62+12	349.30	10	20.73	261.4	-	7.63	-	419
RAMP 'A'								
STA. 0+00 - 1+00 LT.	100	VAR.	9.66	-	115	86.25	10.0	-
STA. 1+00 - 2+00 LT.	100	VAR.	2.77	33	-	24.25	-	-
STA. 0+00 - 0+35	35.00	10'	13.34	-	18.0	11.90	-	-
STA. 0+35 - 1+54	119.00	15	20.00	-	-	17.85	-	-
STA. 1+54 - 3+27.08	173.08	12	30.69	-	-	27.40	-	-
STA. 3+27.08 - 5+35.8	209.72	VAR.	21.49	-	291.4	-	12.0	-
STA. 5+35.8 - 5+39.8	40.0	-	.99	11.81	-	-	-	-
TOTAL			155.4	466.6	424.6	184.6	22.0	500

* FOR INFORMATION ONLY

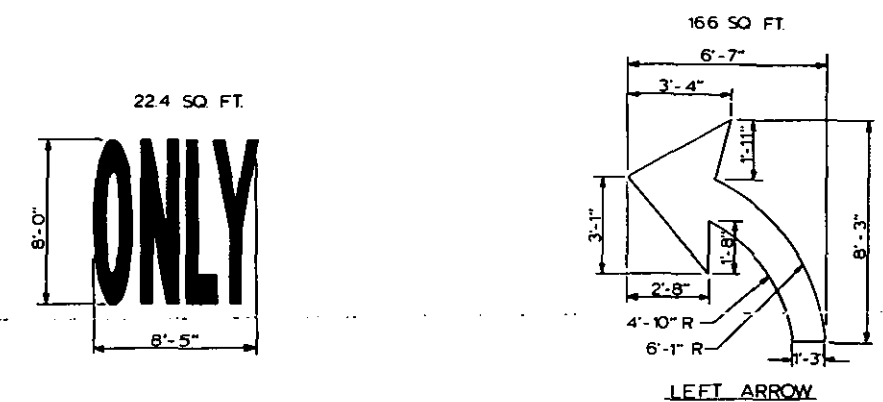
OUTLET - STATION 61+10: 30' RT.

QUANTITIES
CLASS X CONCRETE = 10 CY.



NOTE: PAYMENT WILL BE MADE AS CLASS X (OUTLET) AND PER EACH INLET TYPE A WITH TYPE 3 FRAME & GRATE. SEE STDS. 2214 & 1683-1. USE 1/2" Ø STEEL TIE BARS @ 2'-6" CTRS. (INCIDENTAL TO CLASS X (OUTLET))

ARROW DETAILS



EARTH EXCAVATION

N. ABUT. 869 CUYD
S. ABUT. 465 CUYD
ADAMS ST. 500 CUYD
RAMP 'A' EXT. 124 CUYD

EARTH EMBANKMENT

95 CUYD
17 CUYD

METAL PLATE BEAM GUARD RAIL REMOVAL

W. ABUT. 44 L.F.
N. ABUT. 170 L.F.

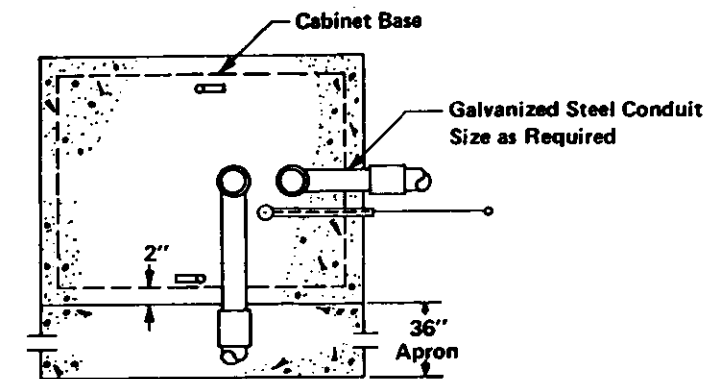
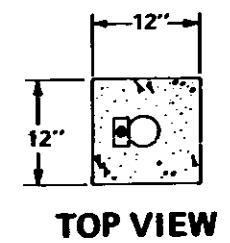
SEEDING CLASS II

W. ABUT. 0 ACRE
N. ABUT. 0 ACRE
S. ABUT. 0 ACRE
RAMP 'A' EXT. 0.1 ACRE

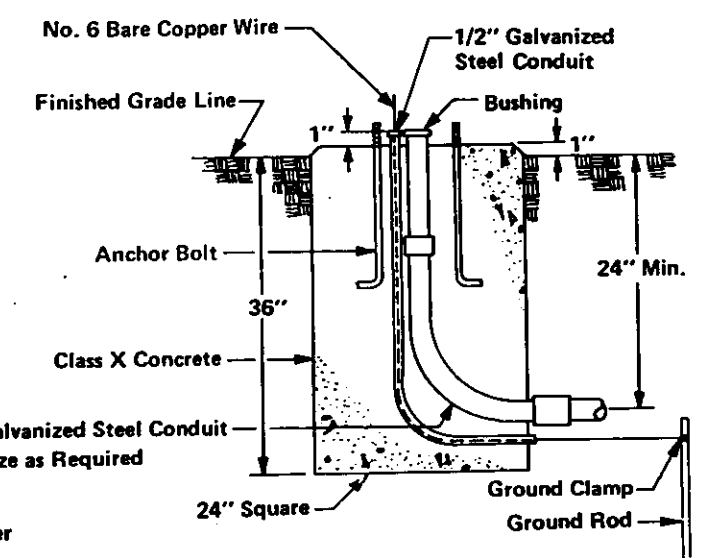
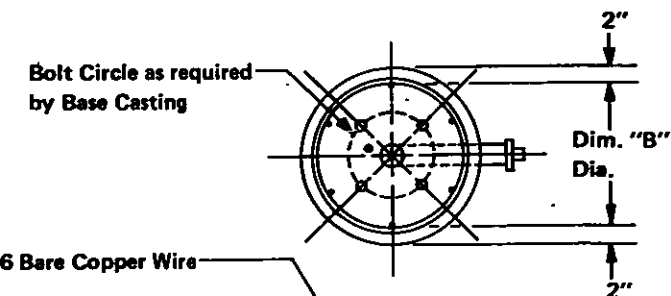
FA 31 - SECTION 158-2
SUMMARY OF QUANTITIES
RESURFACING AND
WIDENING QUANTITIES
ARROW DETAILS
OUTLET DETAIL

REVISED 9-20-77

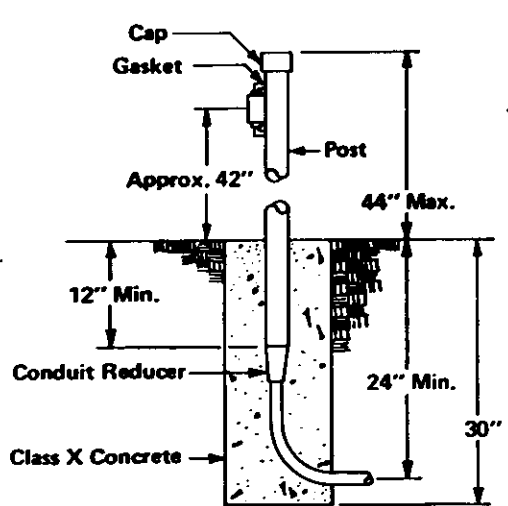
Mast Arm Length	Dim. "A"	Dim. "B"	Number of No. 5 Rebars
Less Than 30'	24"	20"	6
30' and Longer	30"	26"	8



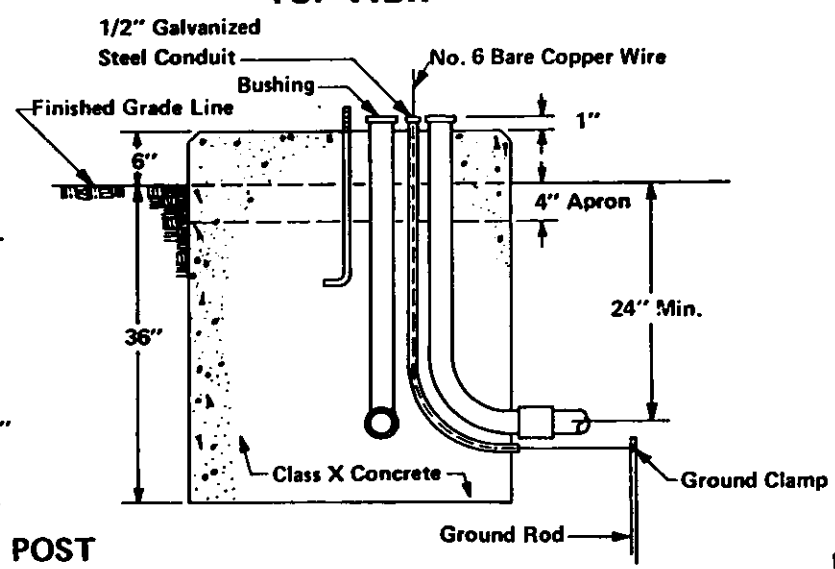
TOP VIEW



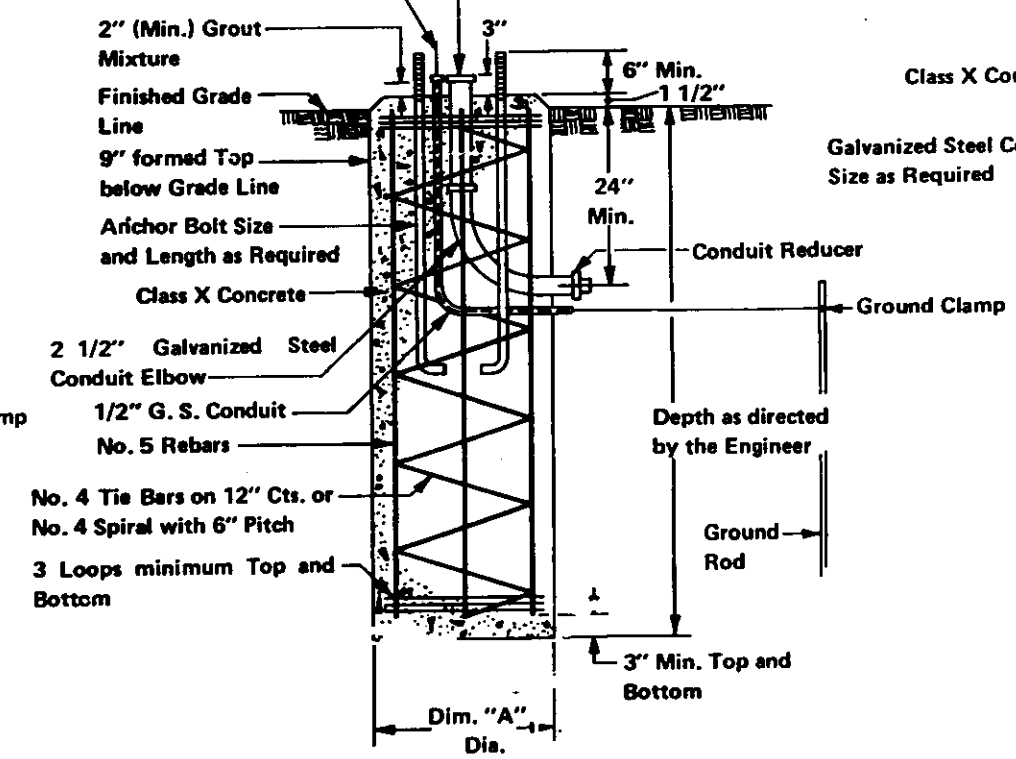
TYPE "A" FOUNDATION



PEDESTRIAN PUSHBUTTON POST INSTALLATION



TYPE "D" FOUNDATION FOR GROUND MOUNTED CONTROLLER CABINET



TYPE "E" FOUNDATION

NOTES

1. The dimensions of the type "D" foundation shall be 4" wider and longer than the base dimensions of the controller cabinet.
2. The ground rod shall be installed in the bottom of conduit trench.

DETAILS OF CONCRETE FOUNDATIONS

APPROVED <i>[Signature]</i> 1977 APPROVED <i>[Signature]</i> 1977	ISSUED 1-1-77 REVISOR BY DATE
---	--

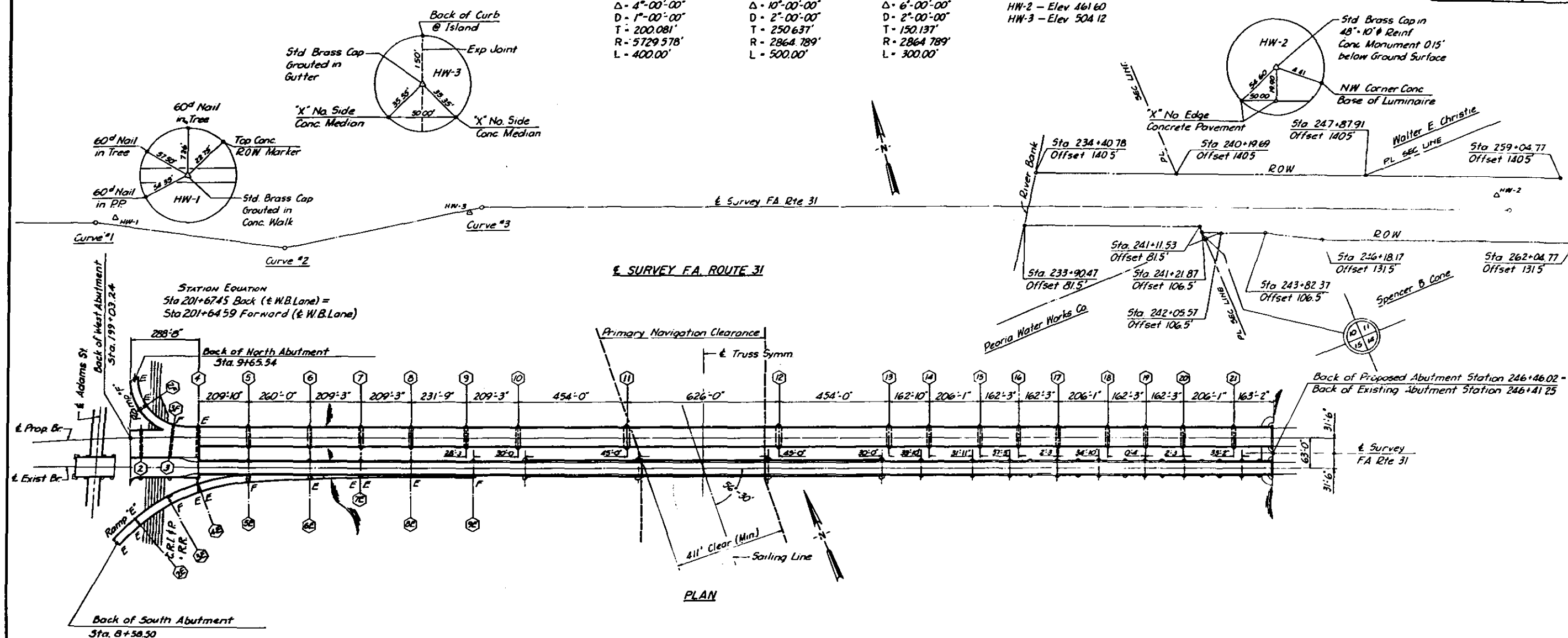
PROJECT NO.	DATE	BY	CHECKED	DATE
FA 31	158-2	PEORIA AND TAZEWELL	54	12

Curve #1
 PI = 183+00.081
 $\Delta = 4^{\circ}-00'-00''$
 $D = 1^{\circ}-00'-00''$
 $T = 200.081'$
 $R = 5729.578'$
 $L = 400.00'$

Curve #2
 PI = 191+00.637
 $\Delta = 10^{\circ}-00'-00''$
 $D = 2^{\circ}-00'-00''$
 $T = 250.637'$
 $R = 2864.789'$
 $L = 500.00'$

Curve #3
 PI = 199+35.06
 $\Delta = 6^{\circ}-00'-00''$
 $D = 2^{\circ}-00'-00''$
 $T = 150.137'$
 $R = 2864.789'$
 $L = 300.00'$

Bench Mark Data
 HW-1 - Elev 562.11
 HW-2 - Elev 461.60
 HW-3 - Elev 504.12



RAMP F CURVE DATA
 PI = 8+74.623
 $\Delta = 94^{\circ}-59'-00.68''$
 $D = 27^{\circ}-56'-58.98''$
 $T = 212.223'$
 $R = 203.0'$
 $L = 329.110'$

RAMP E CURVE DATA
 PI = 9+3.15
 $\Delta = 53^{\circ}-30'-58.01''$
 $D = 7^{\circ}-30'-00.00''$
 $T = 240.748'$
 $R = 477.483'$
 $L = 445.968'$

RAMP D CURVE DATA
 PI = 13+6.99
 $\Delta = 29^{\circ}-08'-50.90''$
 $D = 7^{\circ}-30'-00.00''$
 $T = 109.619'$
 $R = 763.944'$
 $L = 388.633'$

HORIZONTAL CONTROL, BENCH MARKS & ROW

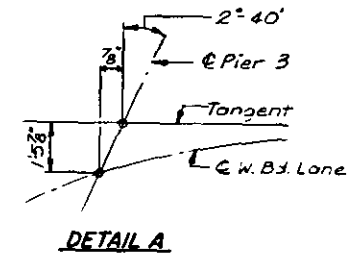
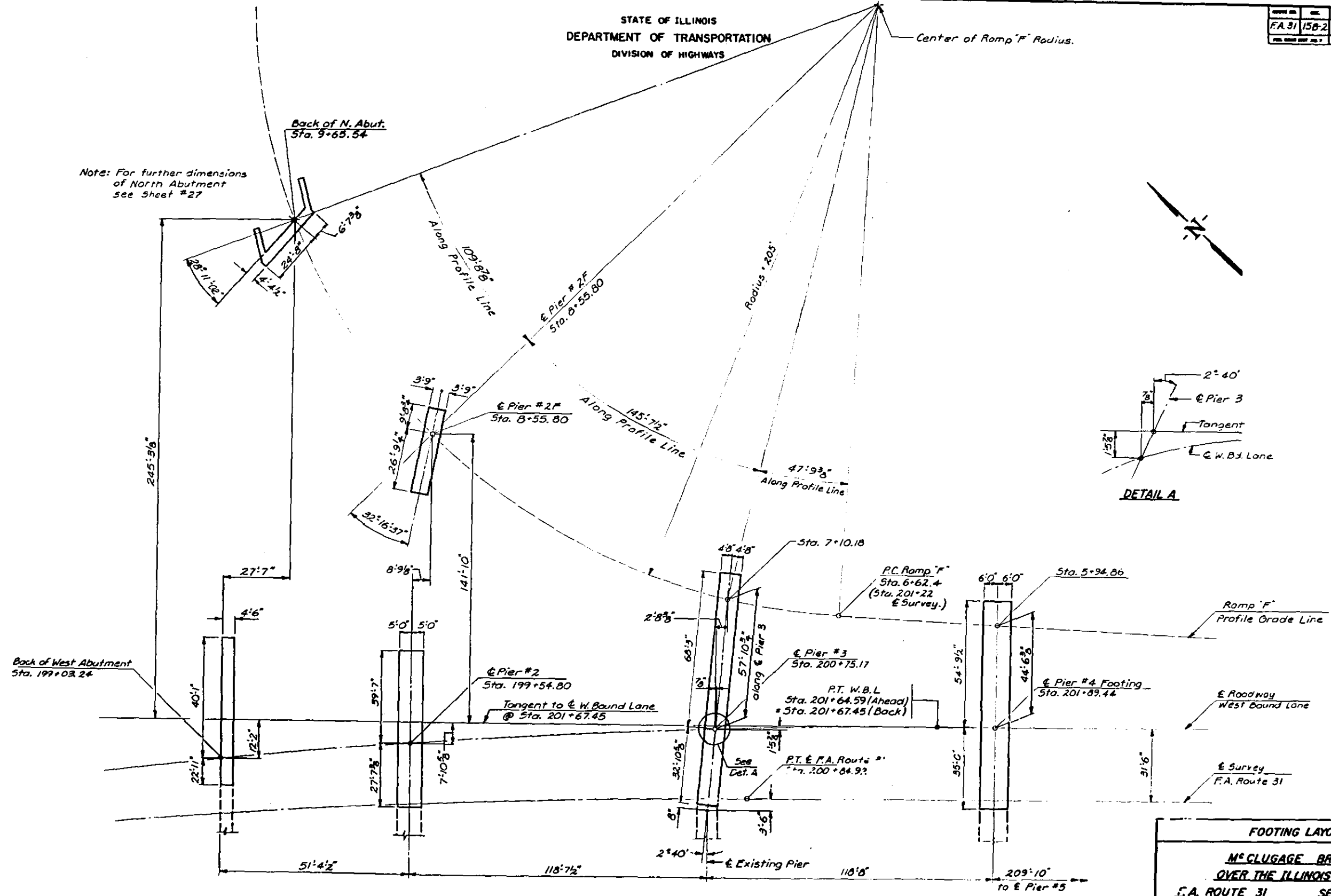
M.C. CLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15B-2
PEORIA & TAZEWELL COUNTIES

CRN
 DLB
 RAH
 CRN

HANSON ENGINEERS
 INCORPORATED
 74001
 6-22-76

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	FA 31 15B-2	DESIGNER	Peoria & Tazewell	SHEET	56	13
DATE	1958	BY	W. J. HANSON	CHECKED		

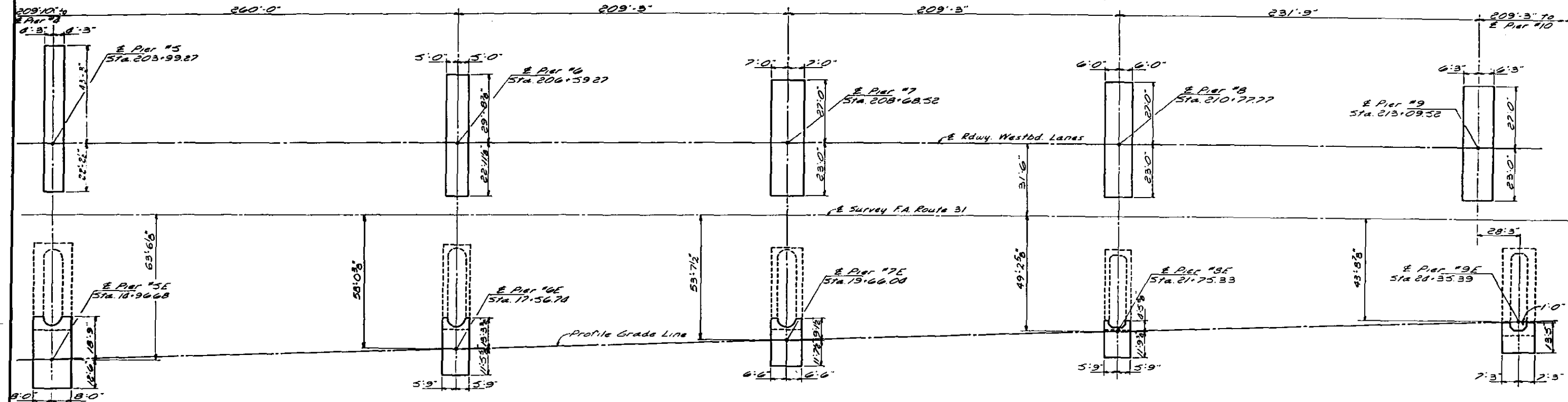


FOOTING PLAN - PIERS 2F, 2, 3, 4, N. & W. ABUTS.

FOOTING LAYOUT	
M ^c CLUGAGE BRIDGE OVER THE ILLINOIS RIVER F.A. ROUTE 31 SEC. 15B-2 PEORIA & TAZEWELL COUNTIES	
SCD CRN DAM CRN	 HANSON ENGINEERS INCORPORATED PEORIA, ILLINOIS
74001	6-22-76

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

DATE	BY	CHECKED	SCALE	SHEET NO.
1/15/76	WOL	CRN	56	14



FOOTING PLAN - PIERS 5, 5E, 6, 6E, 7, 7E, 8, 8E, 9, 9E

FOOTING LAYOUT

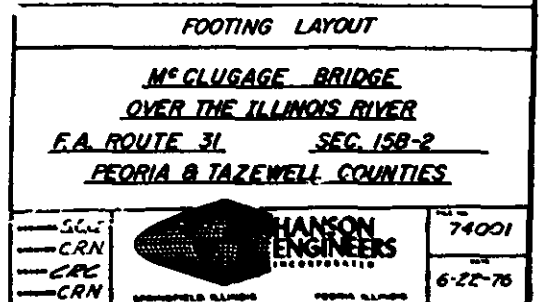
McCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
S.A. ROUTE 31 SEC. 15B-2
PEORIA & TAZEWELL COUNTIES

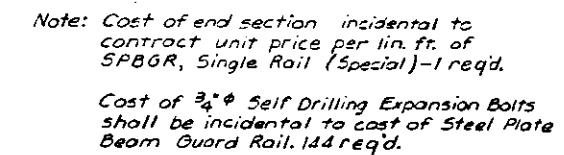
CRN
WOL
CEC
CRN

HANSON ENGINEERS
INCORPORATED
SPRINGFIELD, ILLINOIS

74001
6-22-76

REPORT NO.	REL.	COUNTY	FILE NO.	FILE NO.
FA 31	158-2	Peoria / Tazewell	56	75
FOR SEND BY NO. 7	STATUS	PROJECT		





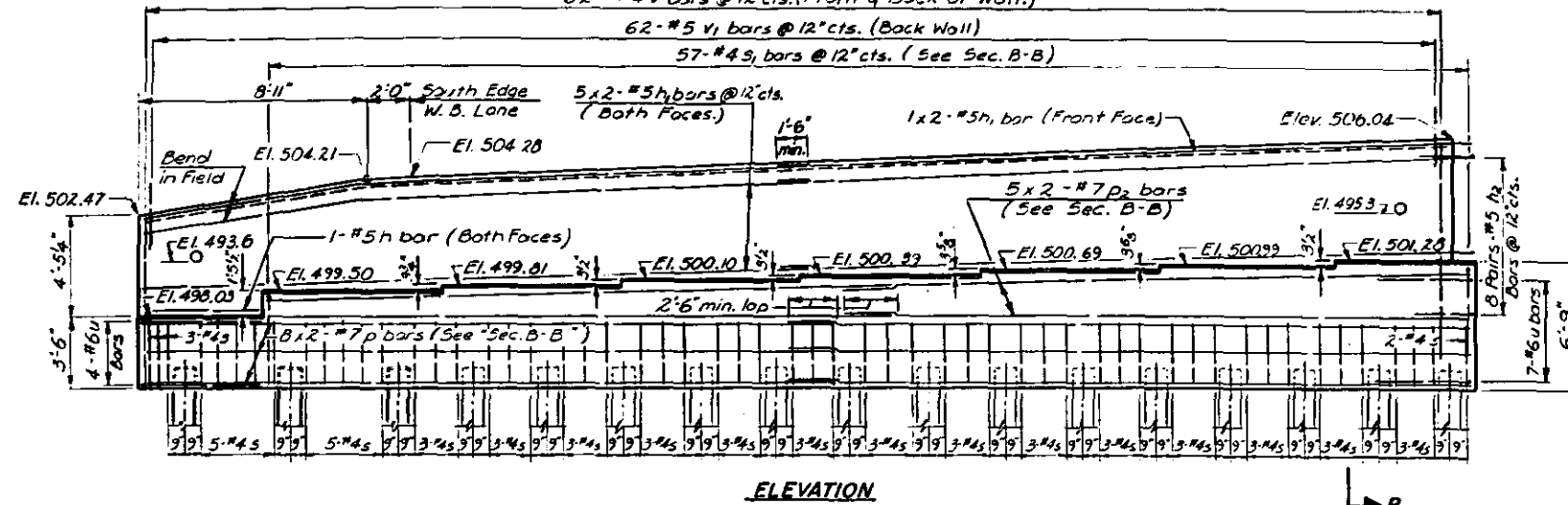
<u>BILL OF MATERIAL</u>		
Item	Unit	Total
Removal Exist Superstructure	Each	One
Steel Plate Beam Guard Rail - Single Rail (Special)	Lin. Ft.	299

STEEL PLATE BEAM GUARD RAIL &
REMOVAL LIMITS OF EXIST. SUPERSTRUCTURE

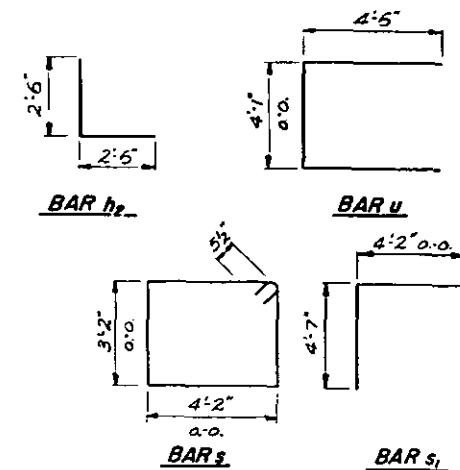
M^CCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 158-2
PEORIA & TAZEWELL COUNTIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS
62 - #4 v bars @ 12" cts. (Front & Back of Wall.)
62 - #5 v₁ bars @ 12" cts. (Back Wall)
57 - #4 s₁ bars @ 12" cts. (See Sec. B-B)



ELEVATION



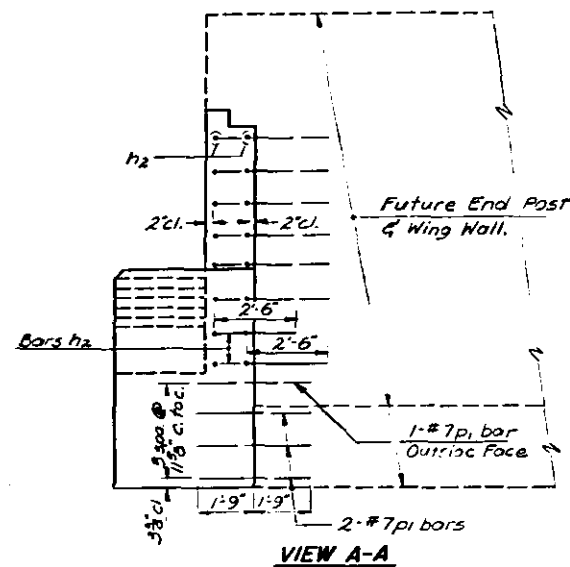
WEST ABUTMENT
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h	2	#5	5'-6"	
h ₁	22	#5	32'-0"	
h ₂	16	#5	5'-0"	L
p	16	#7	32'-6"	
p ₁	7	#7	3'-6"	
p ₂	10	#7	29'-6"	
s	57	#4	15'-7"	
s ₁	57	#4	13'-4"	
u	11	#6	13'-1"	
v	124	#4	6'-3"	
v ₁	62	#5	2'-8"	

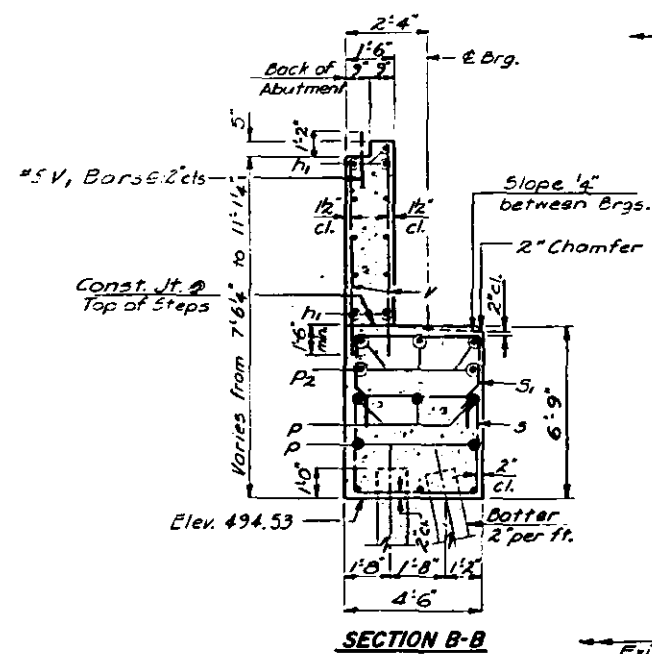
Test Pile 12" Conc.	Each	1
Class A Concrete	Cu. Yds.	74.4
Reinforcement Bars	Lbs.	4,530
Concrete Piles 12" Lin. Ft.		420
Structure Excavation	Cu. Yds.	152
Concrete Removal	Cu. Yds.	9.6
Steel Sheet Piling	Sq. Ft.	1,482

WEST ABUTMENT

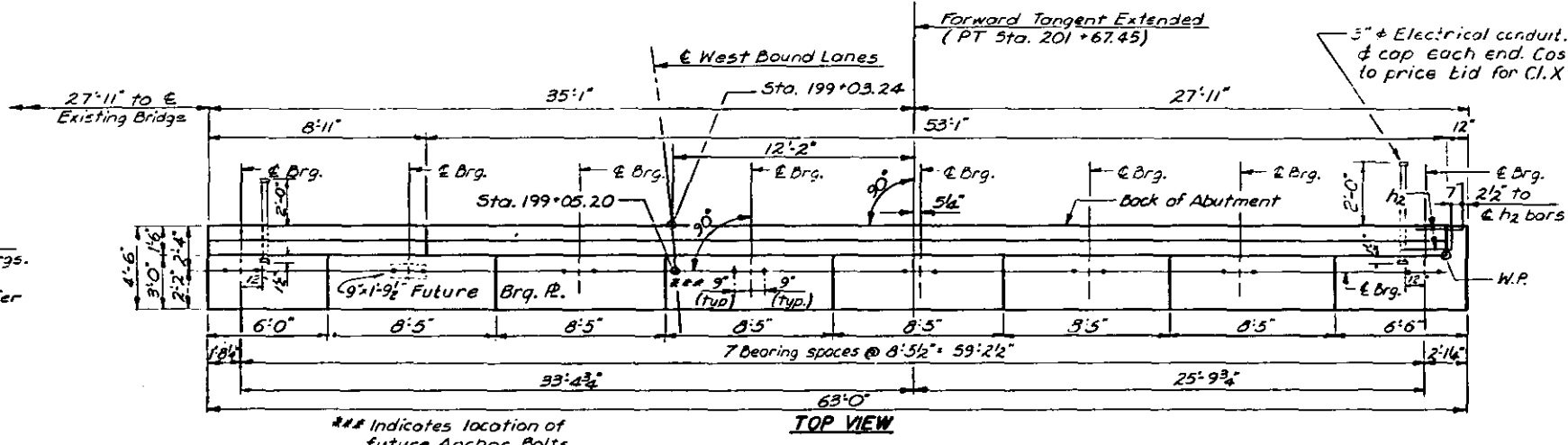
MCCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15-B-2
PEORIA & TAZEWELL COUNTIES



VIEW A-A

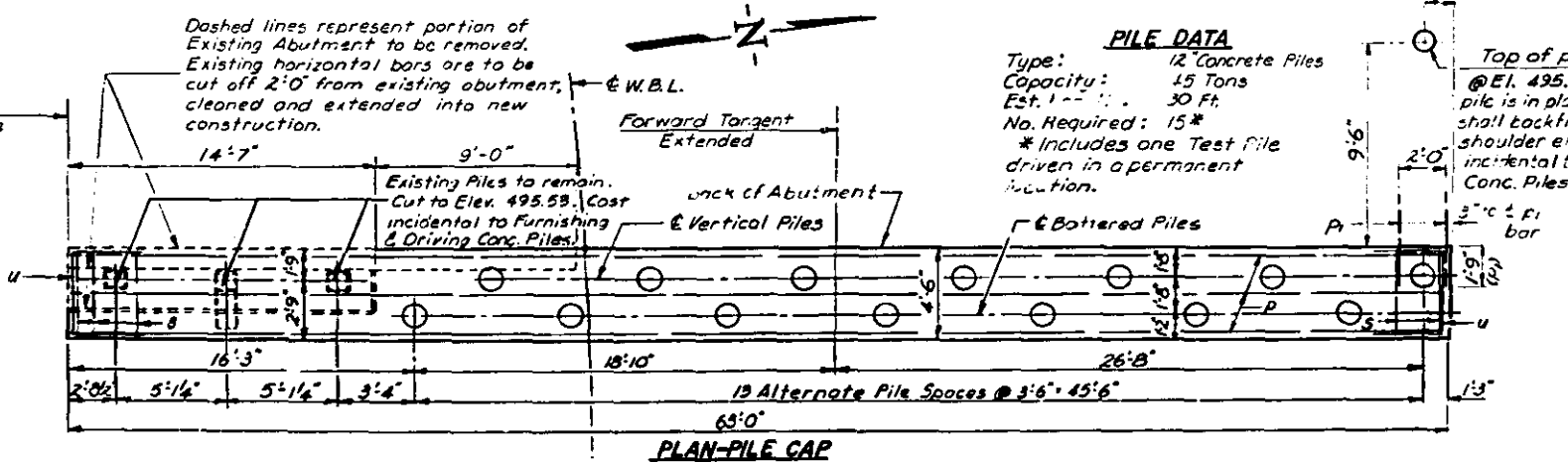


SECTION B-B

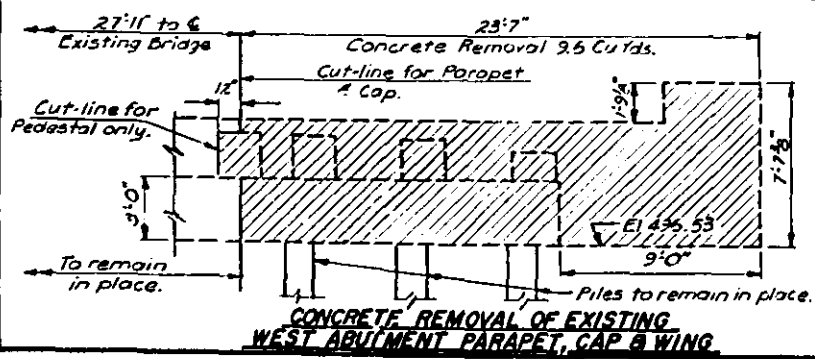


TOP VIEW

Note: See Sheet 18 for Steel Sheet Piling.



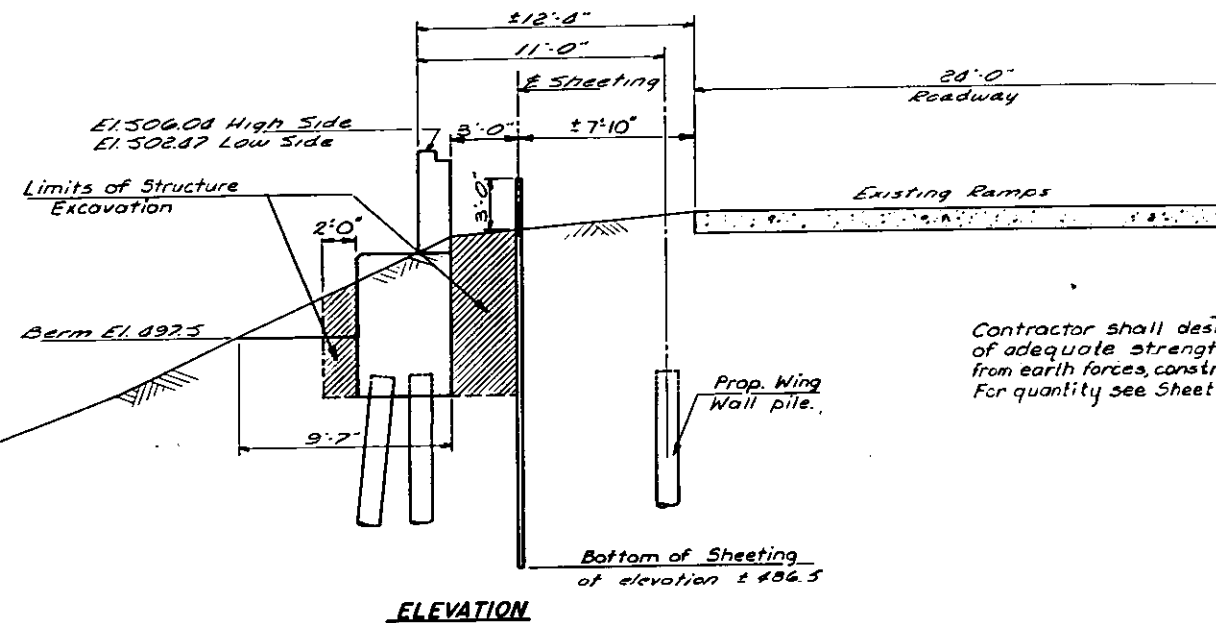
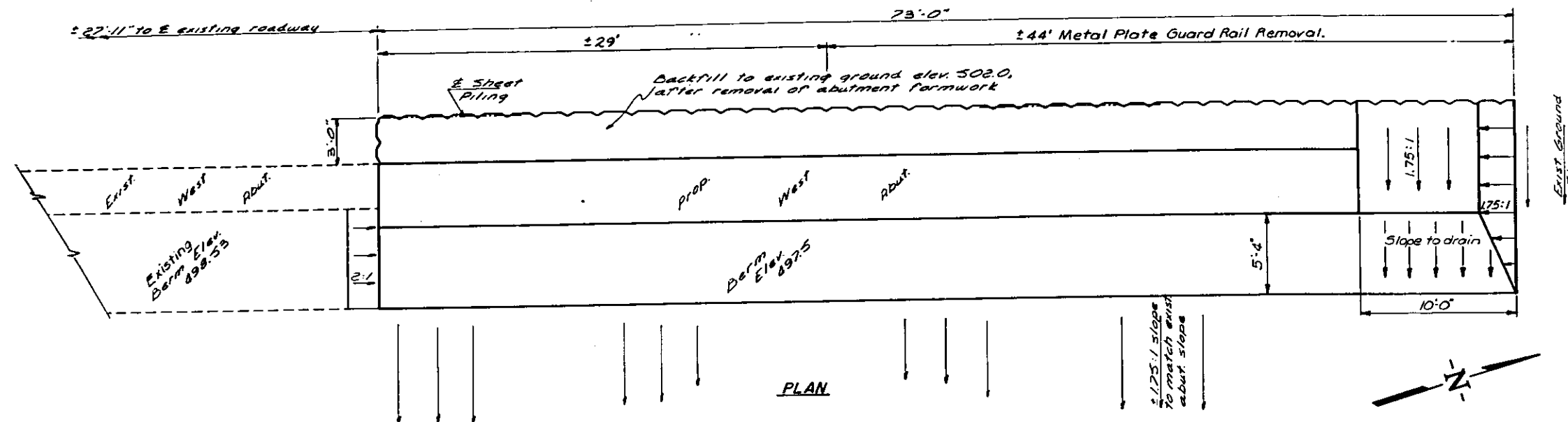
PLAN-PILE CAP



CONCRETE REMOVAL OF EXISTING WEST ABUTMENT PARAPET, CAP & WING

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	FA-31	SECTION	15B-2	SHEET	56	OF	18
DATE	6-22-75	DESIGNED BY	WDL	CHECKED BY	CRN	IN CHARGE	WDL

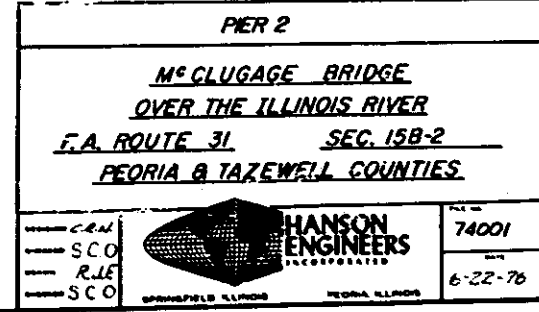


Note:
Contractor shall design & construct sheet piling of adequate strength to protect excavation from earth forces, construction equipment and traffic. For quantity see Sheet 17. Also see Special Provisions.

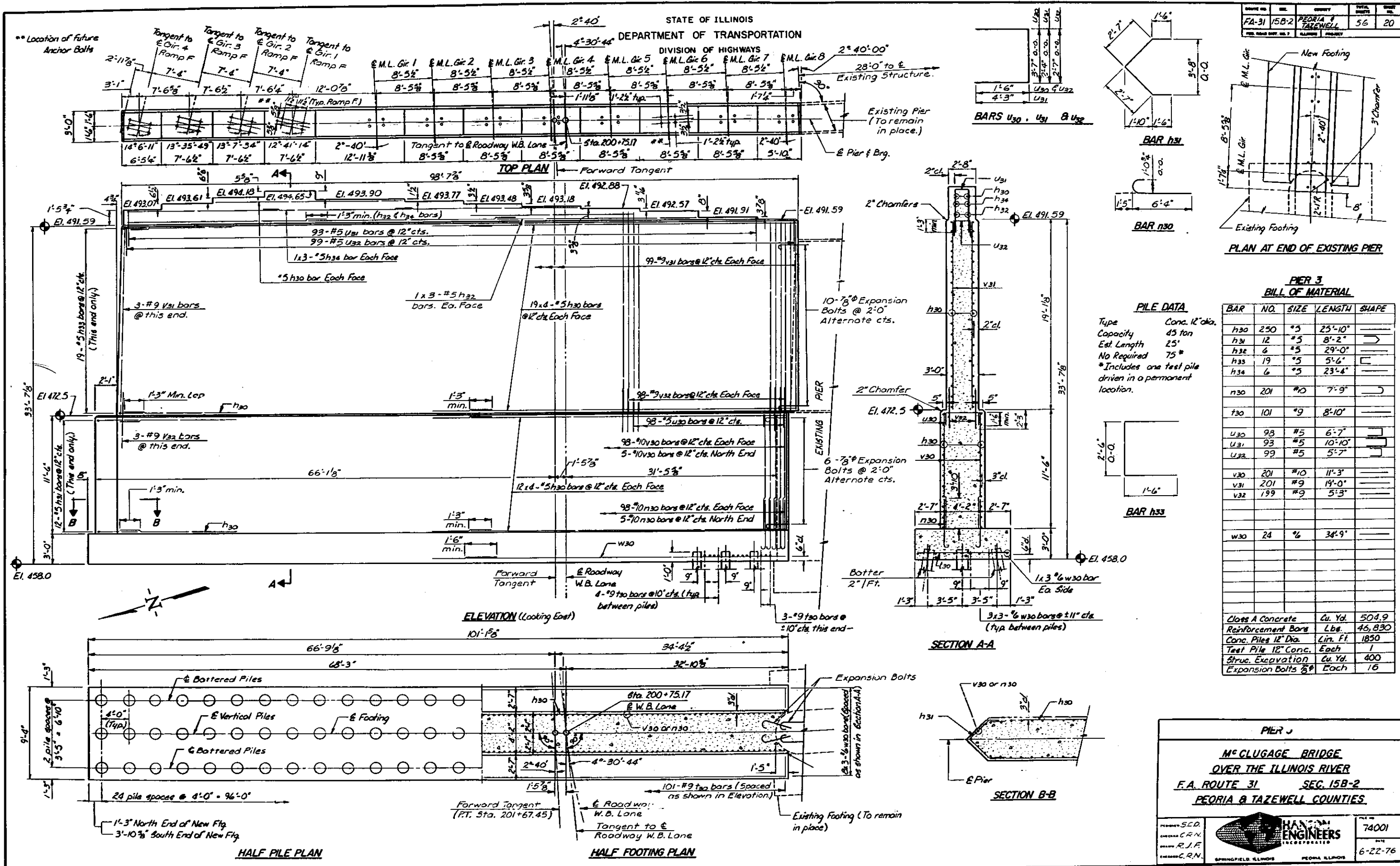
SHEET PILING & EMBANKMENT-WEST ABUT.

M^cCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15B-2
PEORIA & TAZEWELL COUNTIES

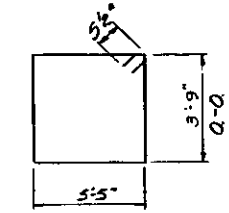
DESIGNED BY	WDL	CHECKED BY	CRN	IN CHARGE	WDL
DATE	6-22-75	PROJECT NO.	FA-31	SECTION	15B-2
SHEET	56	OF	18		



DATE	NO.	COUNTY	TOTAL SHEETS	SHEET NO.
FA-31	158-2	PEORIA & TAZEWELL	56	20
REV. ROAD DIST. NO. 7		ILLINOIS		

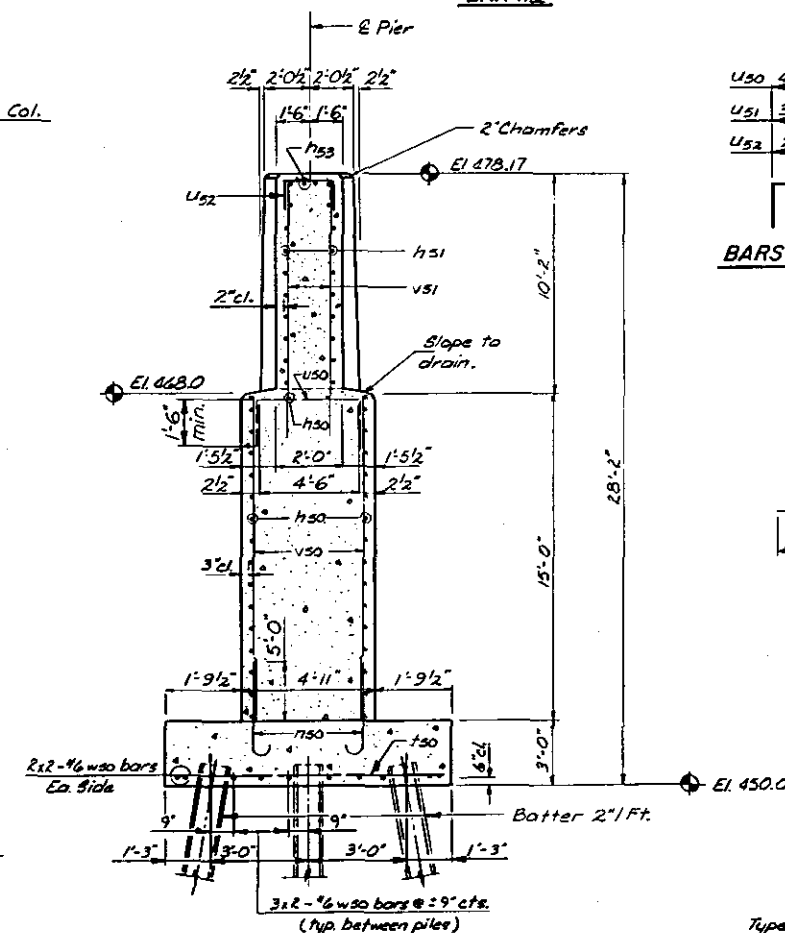






BAR 530

** Location of Future
1/2" & Anchor Bolts

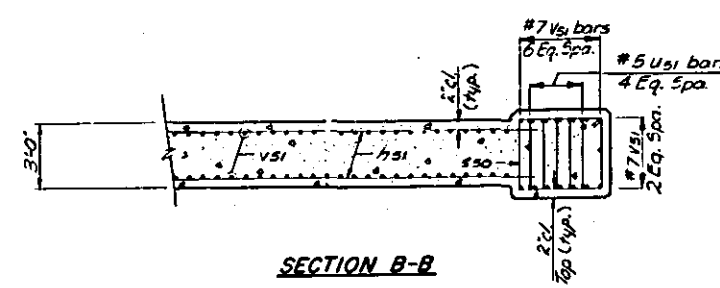


PILE DATA

BAR	NQ.	SIZE	LENGTH	SHAPE
H50	68	*5	30'-2"	—
H51	40	*5	25'-9"	—
H52	32	*5	9'-3"	C
H53	4	*9	53'-0"	—
H50	130	*10	8'-11"	C
H50	22	*5	19'-3"	D
H50	72	*7	8'-0"	—
U50	48	*5	7'-3"	—
U51	10	*5	7'-5"	—
U52	47	*5	5'-8"	—
V50	130	*10	18'-9"	—
V51	144	*7	12'-0"	—
W50	20	*6	33'-5"	—
Class A Concrete			Cu. Yds.	302.6
Reinforcement Bars			Lbs.	24,361
Steel Pile HP12 x 53			Lin. Ft.	3,078
Test Pile HP12 x 53			Each	1
Struct. Exc.			Cu. Yds.	273
Temporary Steel Sheet Piling.			Sq. Ft.	1,950

Type	HP 12 x 53
Capacity	Drive to Refusal
Est. Length	58'
No. Required	34*

* Includes one test pile driven in a permanent location.



HALF FOOTING PLAN

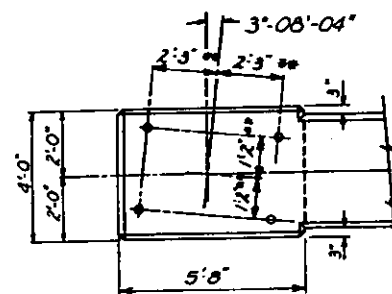
Note:
Contractor shall design sheet piling to protect infiltration pit from all foreign material present during construction of pier. The sheeting shall be of sufficient strength to protect excavation from construction methods and equipment. See Special Provisions.

PIER 5

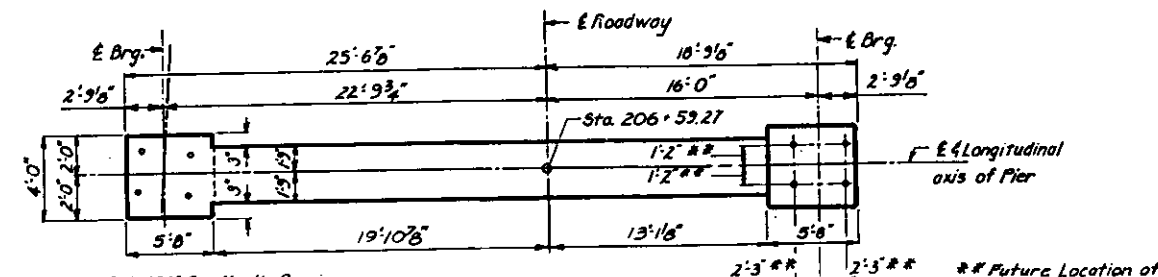
M^C CLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
I.A. ROUTE 31 SEC. 15B-2
PEORIA & TAZEWELL COUNTIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

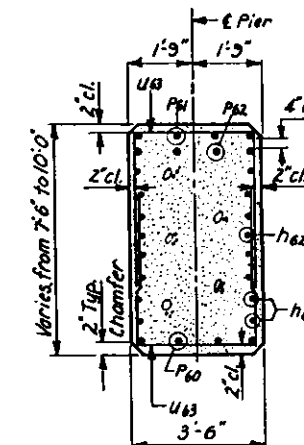
PROJECT NO.	SHEET NO.	PROJECT NAME	SHEET TOTAL	DATE
FA-31	15B-2	Peoria & Tazewell	56	23



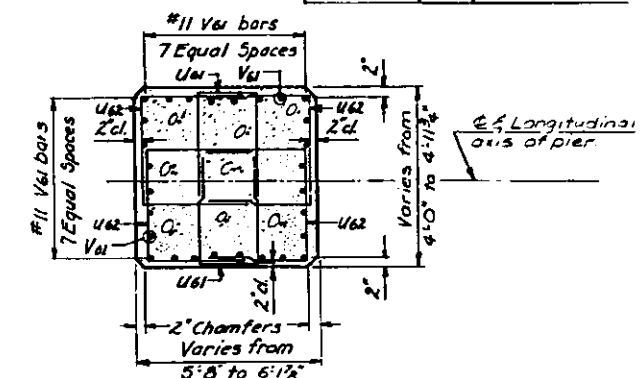
DETAIL "A"



TOP PLAN



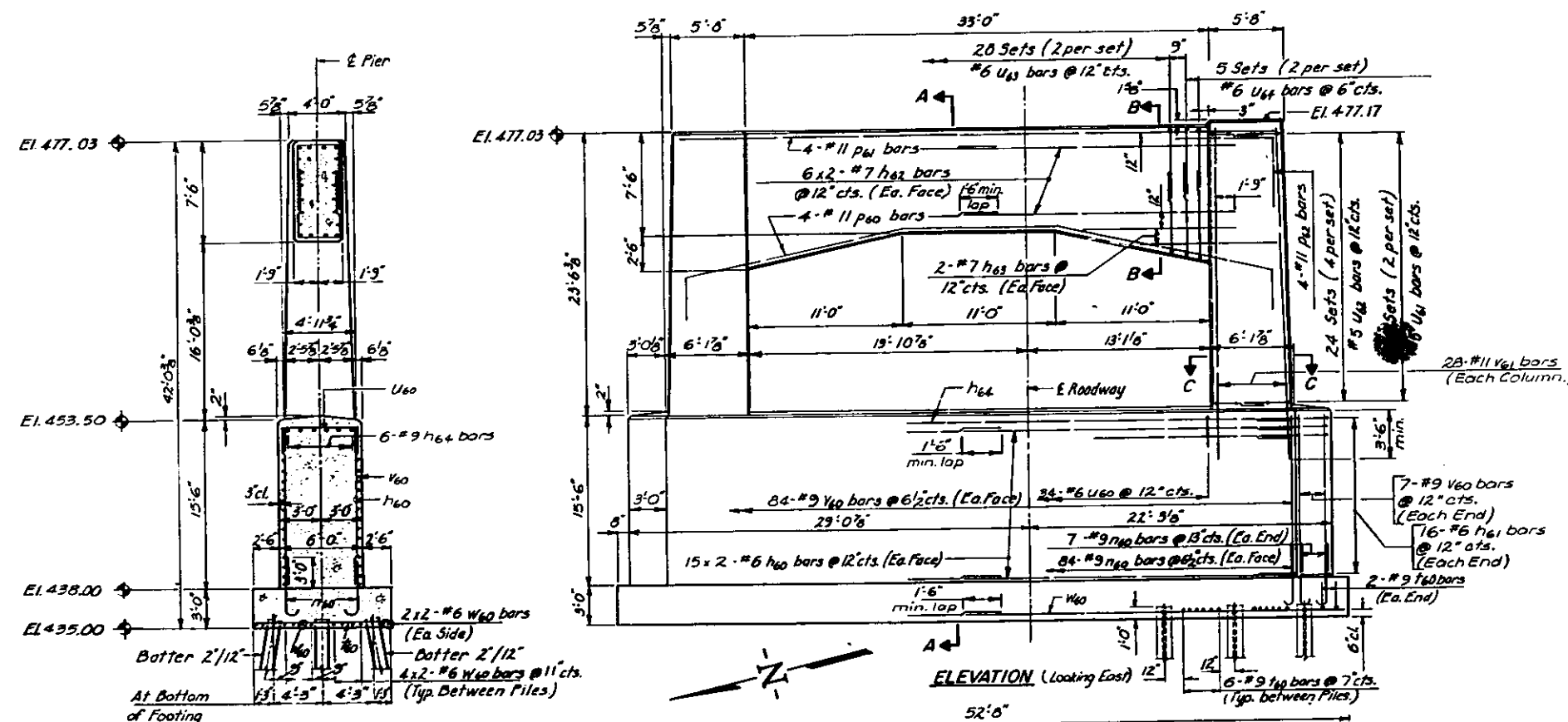
SECTION B-B



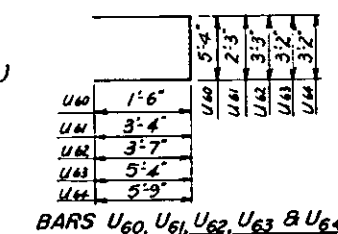
SECTION C-C

PIER 6
BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	SHAPE
h60	60	#6	29'-5"
h61	32	#6	10'-9"
h62	24	#7	19'-0"
h63	8	#7	11'-0"
h64	6	#9	45'-4"
h60	182	#9	6'-9"
P60	4	#11	48'-0"
P61	4	#11	49'-4"
P62	8	#11	12'-0"
T60	4	#9	10'-6"
U60	34	#6	8'-4"
U61	36	#5	8'-11"
U62	192	#5	10'-5"
U63	56	#6	13'-10"
U64	20	#6	14'-8"
V60	182	#9	15'-3"
V61	56	#11	27'-0"
W60	24	#6	27'-0"
Class A Concrete			Cu. Yds. 313.1
Reinforcement Bars			Lbs. 37,130
Steel Piles HP 10x57			Lin. Ft. 1,568
Test Pile HP 10x57			Each 1
Cofferdam Excav.			Cu. Yds. 189
Cofferdam			Each One

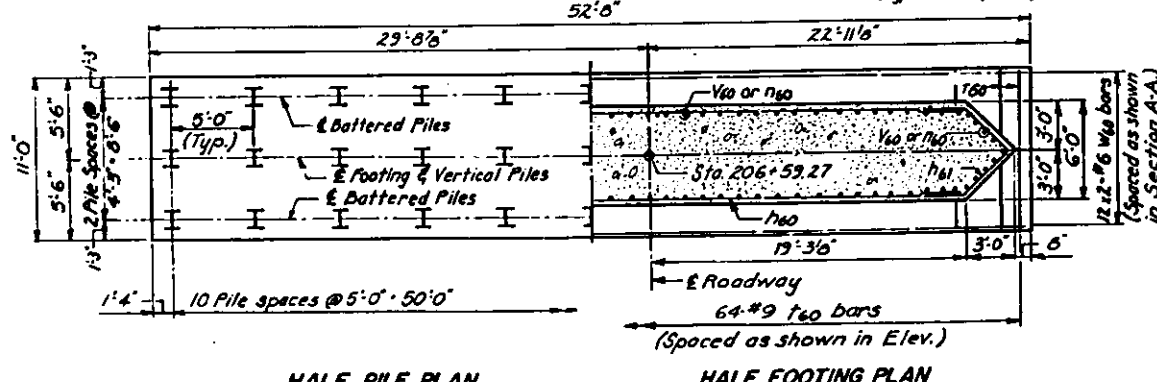


ELEVATION (Looking East)



BARS U60, U61, U62, U63 & U64

SECTION A-A



HALF PILE PLAN

HALF FOOTING PLAN

FILE DATA
Type Steel HP 10 x 57
Capacity Drive to refusal.
Est. Length 49'-0"
No. Required 33 *
* Includes one test pile driven in a permanent position.

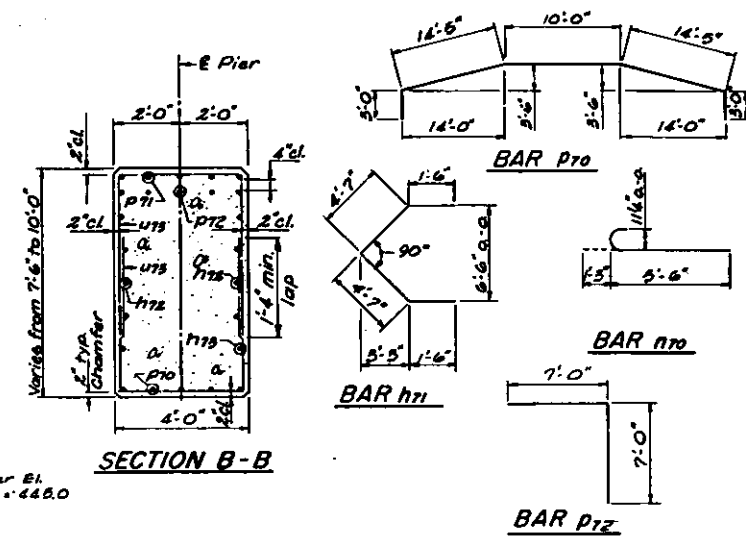
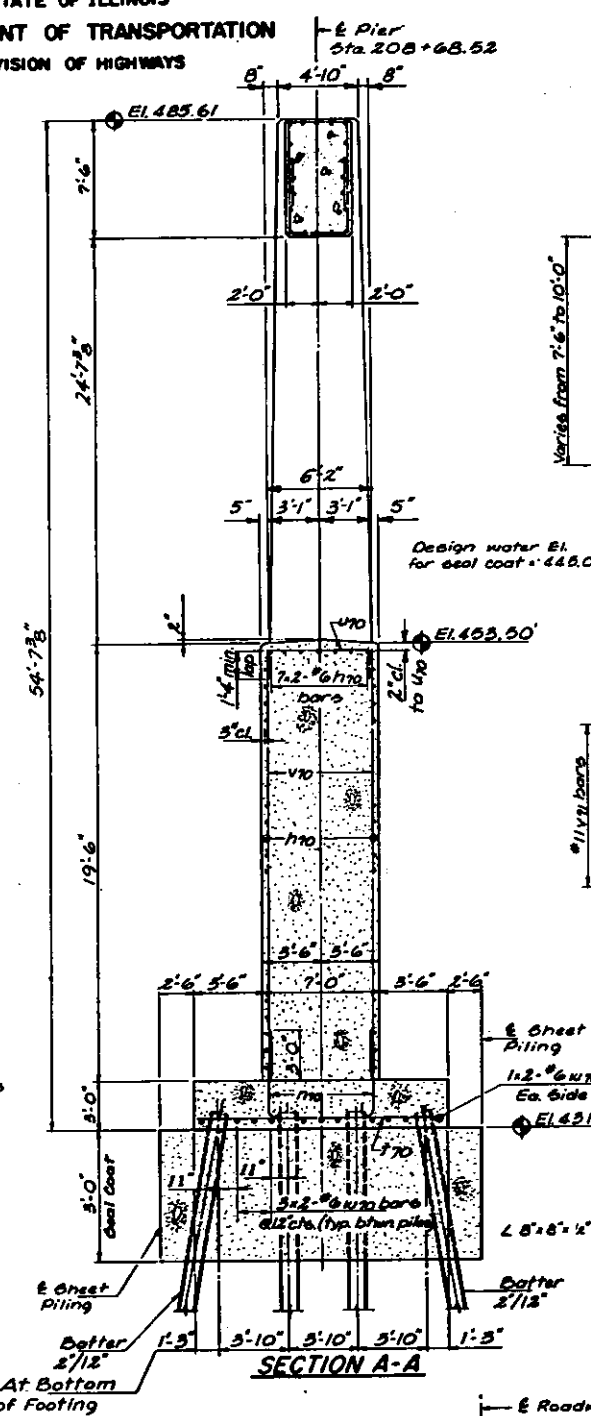
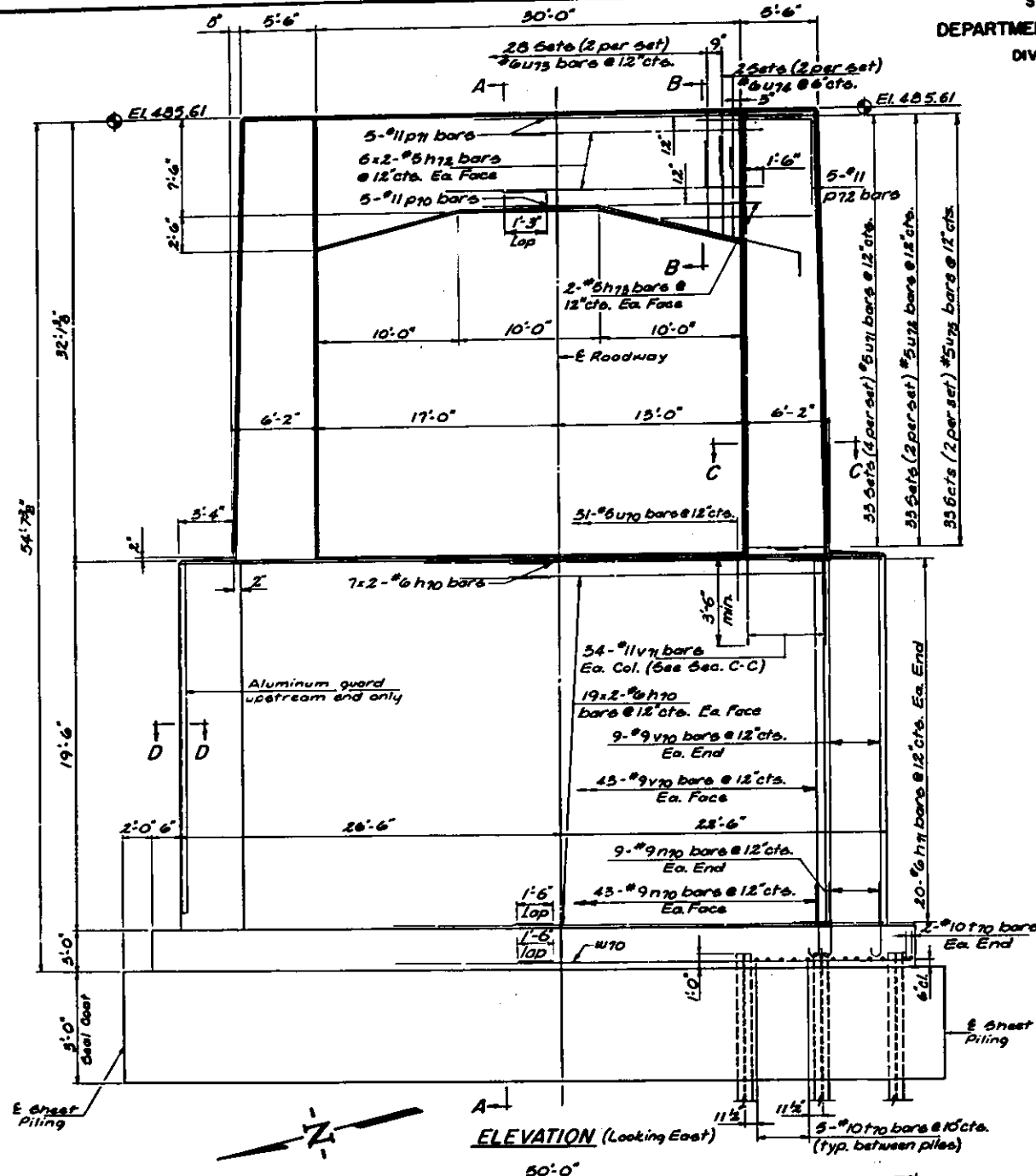
PIER 6
M^cCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15B-2
PEORIA & TAZEWELL COUNTIES

HANSON ENGINEERS
INCORPORATED
SPRINGFIELD, ILLINOIS
PEORIA, ILLINOIS

74001
6-22-76

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

DATE	REV.	REVISION	BY	CHK.
FA 31 1982		PIER 7 & TAZEWELL	S	24
REV. 1000				



PIER 7

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h70	90	#6	21'-9"	
h71	40	#6	12'-2"	C
h72	24	#6	17'-2"	
h73	8	#6	10'-0"	
h74	104	#9	6'-9"	
p70	6	#11	44'-10"	
p71	6	#11	40'-0"	
p72	10	#11	14'-0"	
t70	49	#10	13'-6"	
u70	31	#5	9'-2"	
u71	264	#5	9'-7"	
u72	182	#5	9'-10"	
u73	96	#5	14'-4"	
u74	8	#5	15'-2"	
u75	132	#5	10'-7"	
v70	104	#9	19'-3"	
v71	68	#11	35'-0"	
u76	22	#6	25'-6"	
Class A Concrete	Cu Yds.	422.6		
Reinforcement Bars	Lbs.	36,600		
Coat Coat Concrete	Cu Yds.	114.0		
Steel Pile HP 10x42	Lin. Ft.	1855		
Test Pile HP 10x42	Each	1		
Cofferdam Excavation	Cu Yds.	988		
Cofferdam	Each	1		

PILE DATA

Type	Steel HP 10x42
Capacity	Drive to refusal
Est. Length	47'
No. Required	40*

*Includes one test pile driven in a permanent location.

SECTION D-D

Aluminum bars and shapes shall be 6061-T6 alloy. Reinforcement bars shall not be in contact with the aluminum. Cost incidental to Class A Concrete.

SECTION A-A

At Bottom of Footing

At Bottom of Footing

At Bottom of Footing

At Bottom of Footing

At Bottom of Footing

At Bottom of Footing

At Bottom of Footing

At Bottom of Footing

At Bottom of Footing

At Bottom of Footing

At Bottom of Footing

At Bottom of Footing

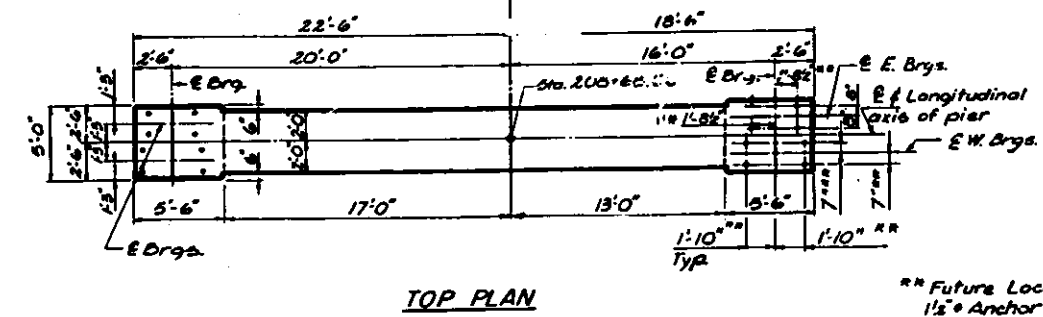
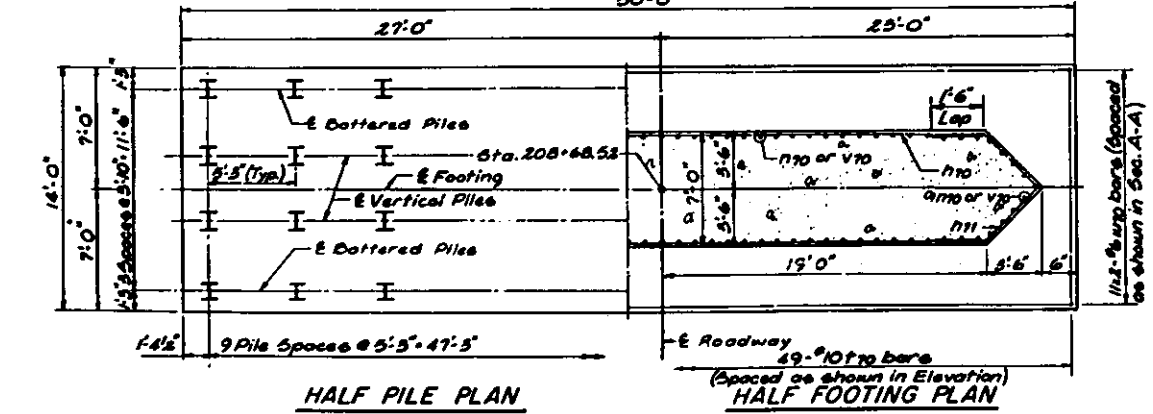
PIER 7

M^CCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.4 ROUTE 31 SEC. 15 B-2
PEORIA & TAZEWELL COUNTIES

CRN	14001
MEB	
DAB	
CRN	



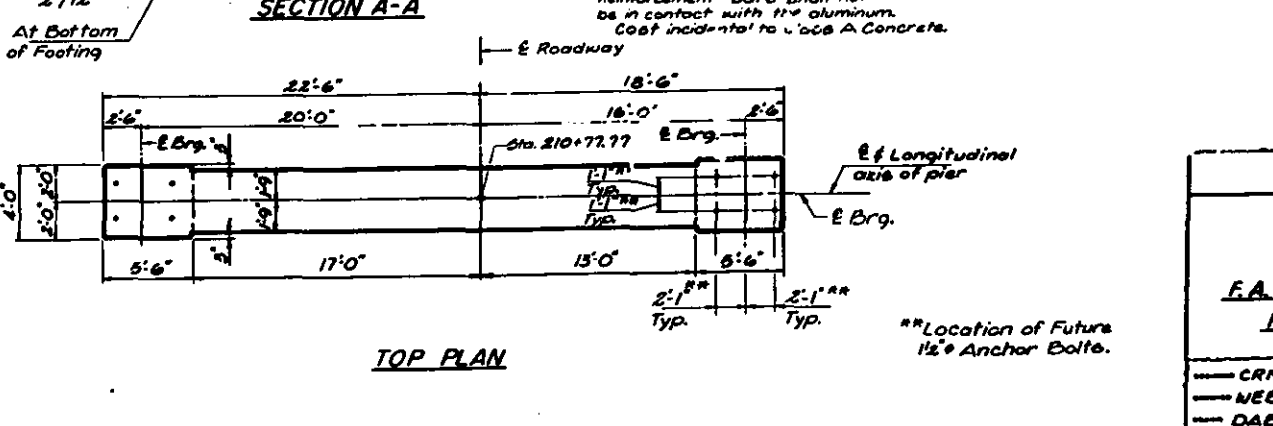
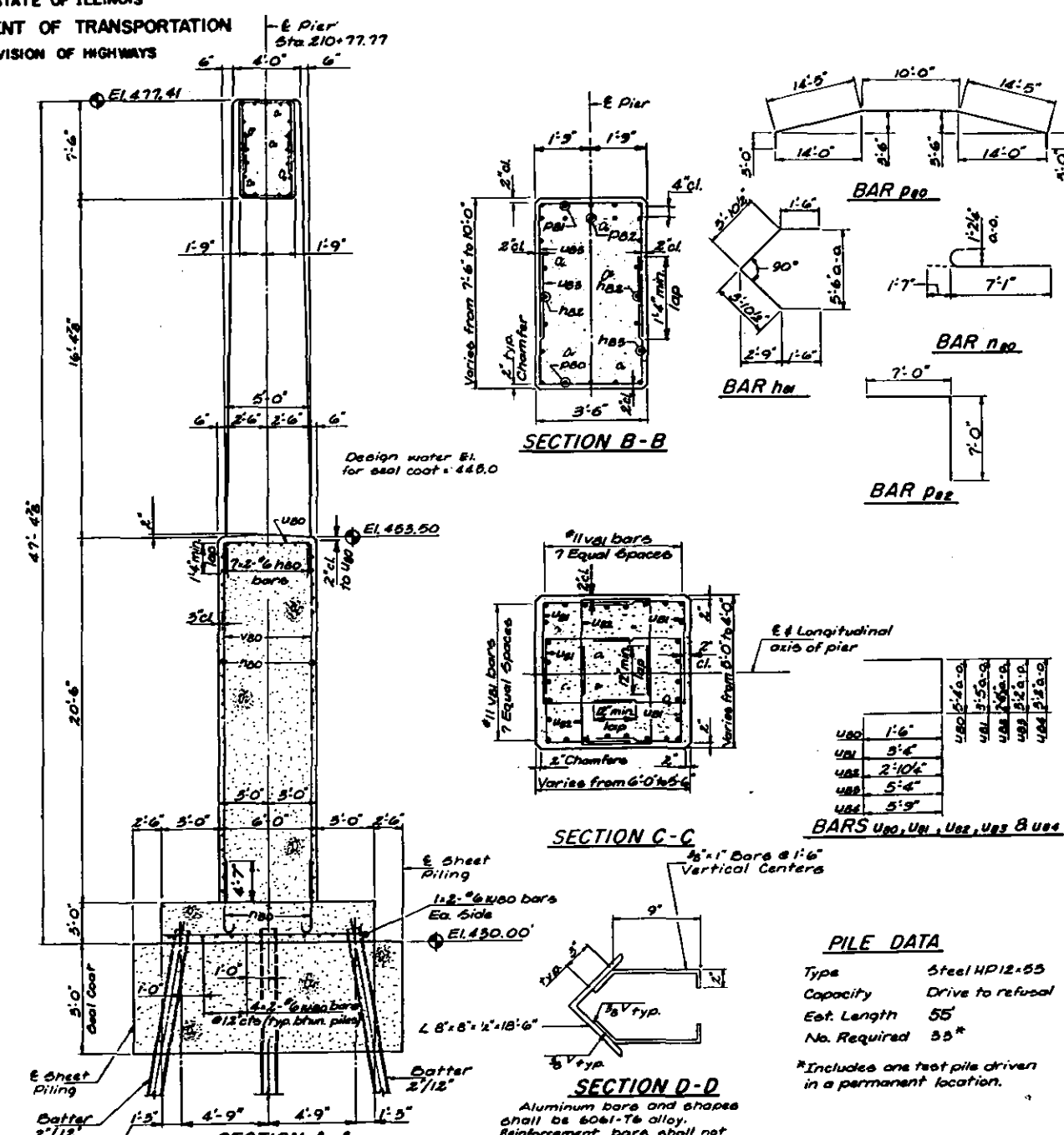
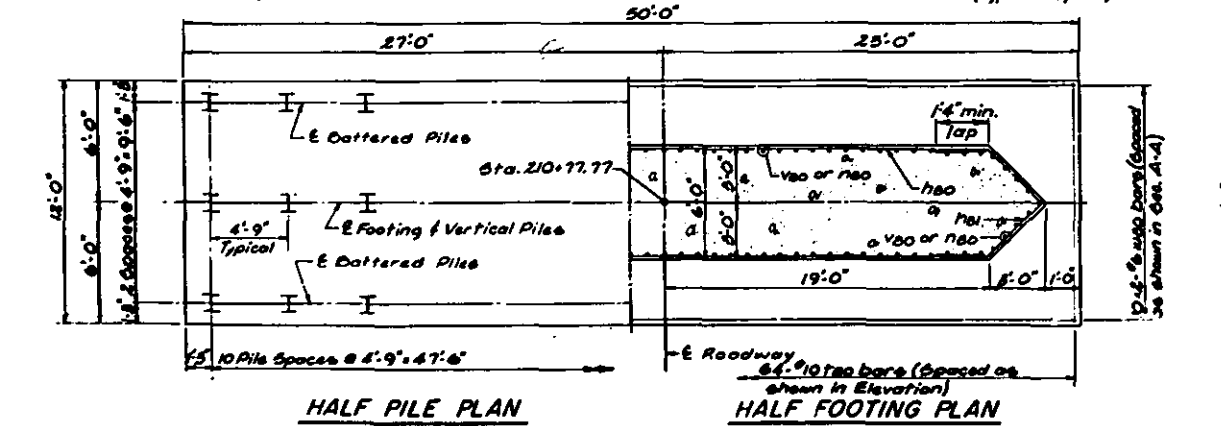
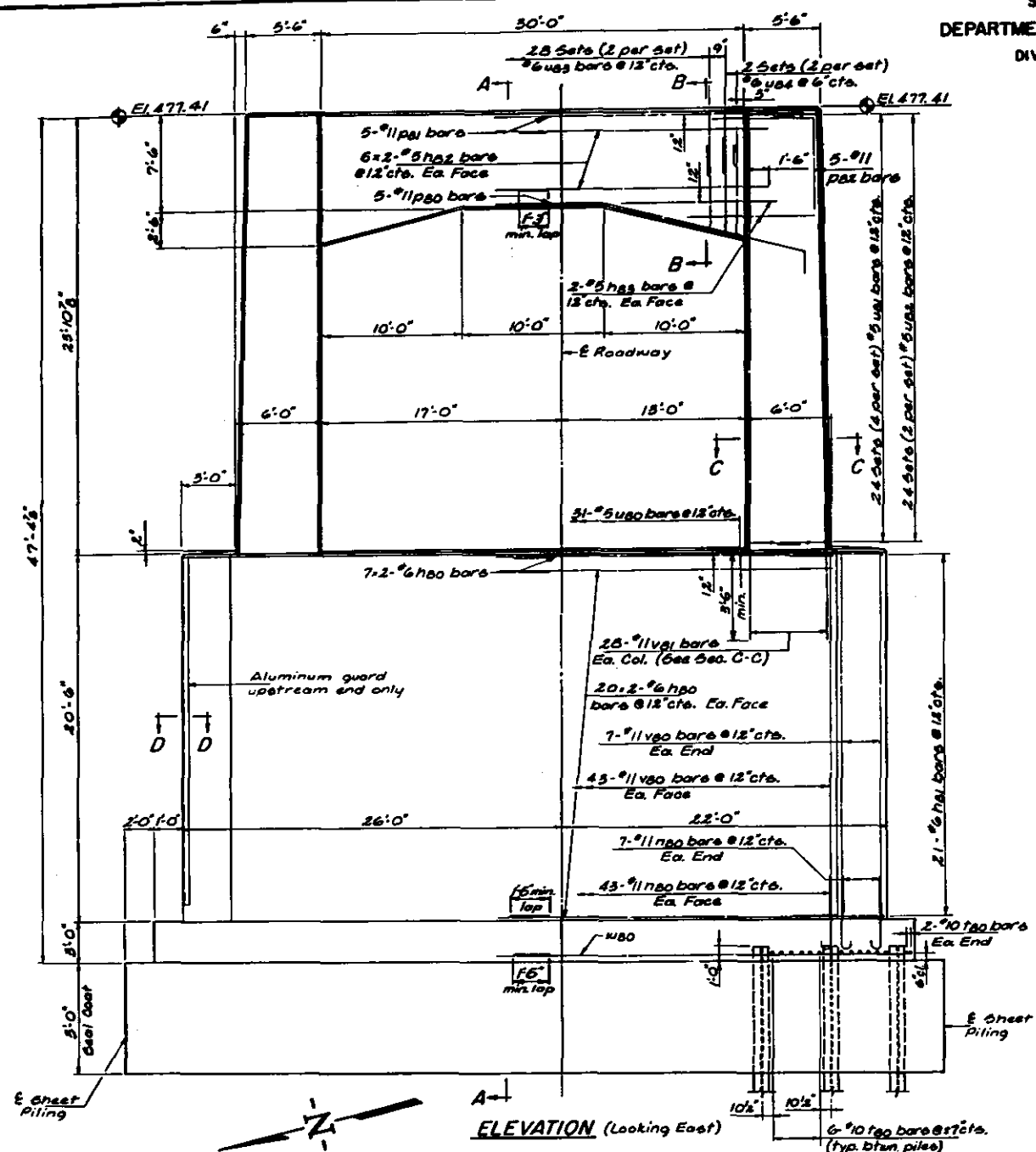
14001
6-22-76



** Future Location of 1/2" Anchor Bolts.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	FA. 31 150-2	PROJECT NAME	Peoria & Tazewell	SHEET NO.	5	TOTAL SHEETS	25
-------------	--------------	--------------	-------------------	-----------	---	--------------	----



PIER 8
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h80	94	#6	21'-9"	
h81	42	#6	10'-9"	C
h82	24	#6	17'-2"	
h83	8	#6	10'-0"	
h80	100	#11	8'-8"	
p80	5	#11	44'-10"	
p81	5	#11	40'-0"	
p82	10	#11	14'-0"	
p80	64	#10	11'-6"	
u80	31	#5	5'-4"	
u81	192	#5	10'-1"	
u82	96	#5	8'-3"	
u83	56	#6	14'-8"	
u84	8	#6	17'-2"	
v80	100	#11	20'-5"	
v81	56	#11	27'-5"	
u80	20	#6	28'-6"	
Class A Concrete	Cu Yds.	385.7		
Reinforcement Bars	Lbs.	59,220		
Seal Coat Concrete	Cu Yds.	102.0		
Steel Piles HP 12x55	Lin. Ft.	1,760		
Test Pile HP 12x55	Each	1		
Cofferdam Excavation	Cu Yds.	313		
Cofferdam	Each	1		

PILE DATA

Type	Steel HP 12x55
Capacity	Drive to refusal
Est. Length	55'
No. Required	35*

*Includes one test pile driven in a permanent location.

PIER 8
M^cCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15 B-2
PEORIA & TAZEWELL COUNTIES

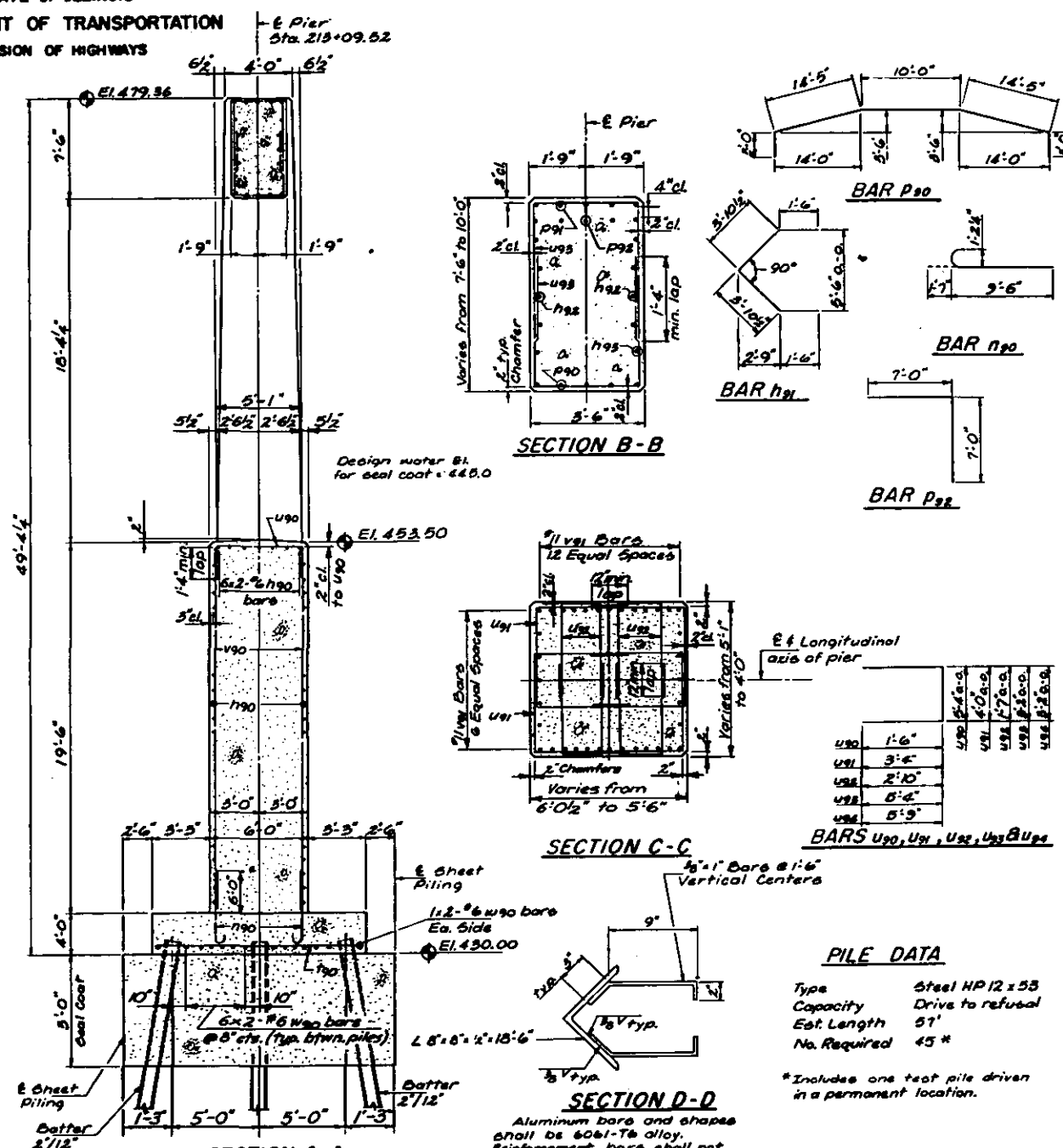
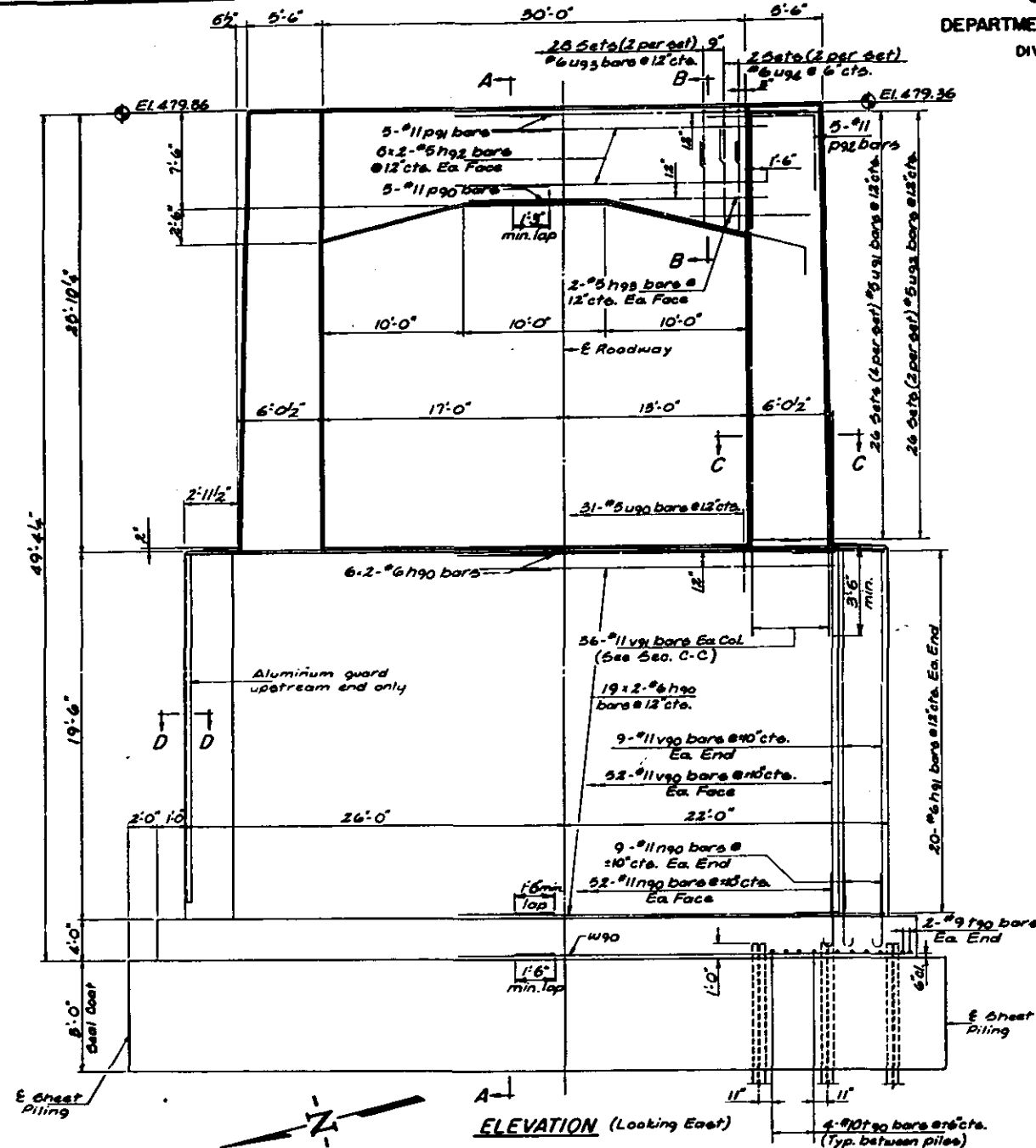
CRN
NEB
DAB
CRN

HANSON
ENGINEERS
INCORPORATED

14001
6-22-76

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FA.31	1958-2	Peoria & Tazewell	52	26
-------	--------	-------------------	----	----



PIER 9

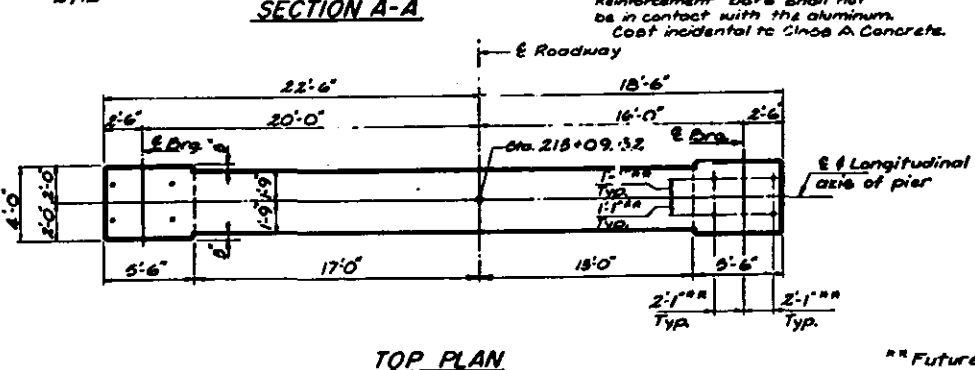
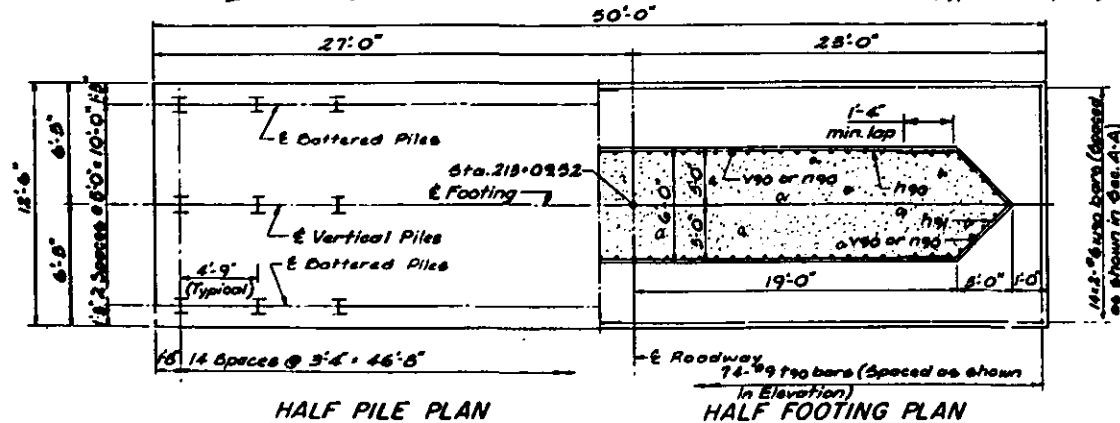
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h90	88	#6	21'-9"	—
h91	40	#6	10'-9"	C
h92	24	#6	17'-2"	—
h93	8	#6	10'-0"	—
h90	122	#11	11'-1"	—
p90	5	#11	44'-10"	—
p91	5	#11	40'-0"	—
p92	10	#11	14'-0"	—
f90	74	#9	12'-0"	—
u90	31	#5	8'-4"	—
u91	208	#5	10'-8"	—
u92	104	#5	7'-3"	—
u93	56	#6	15'-10"	—
u94	8	#6	14'-8"	—
v90	122	#11	19'-2"	—
v91	72	#11	29'-5"	—
u90	28	#6	29'-6"	—
Class A Concrete		Cu. Yds.		370.4
Reinforcement Bars		Lbs.		46,610
Seal Coat Concrete		Cu. Yds.		105.0
Steel Piles HP 12 x 53		Lin. Ft.		2,508
Test Pile HP 12 x 53		Each		1
Cofferdam Excavation		Cu. Yds.		335
Cofferdam		Each		1

PILE DATA

Type	Steel HP 12 x 53
Capacity	Drive to refusal
Est. Length	51'
No. Required	45 *

* Includes one test pile driven in a permanent location.



PIER 9

**M^C CLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
S.A. ROUTE 31 SEC. 15 B-2
PEORIA & TAZEWELL COUNTIES**

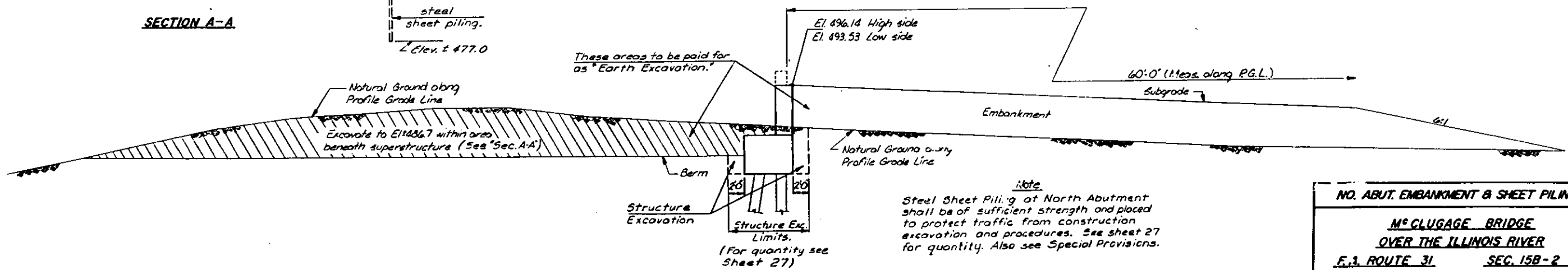
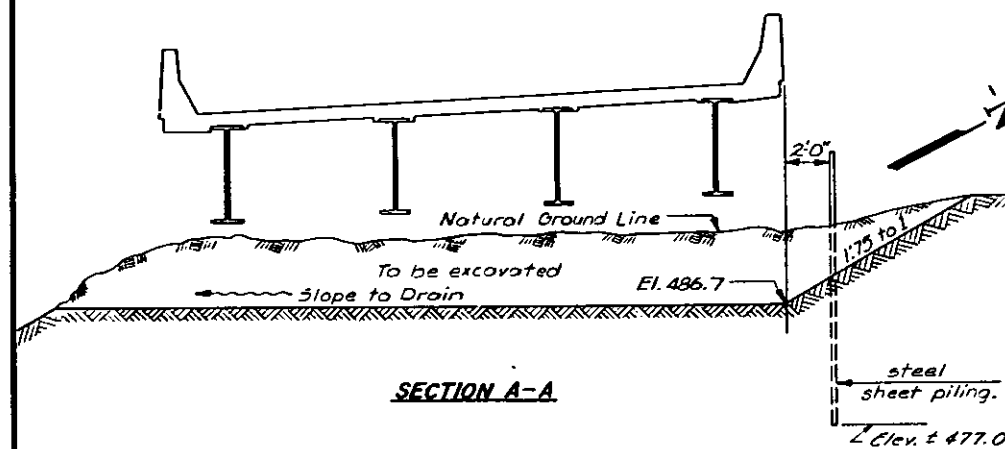
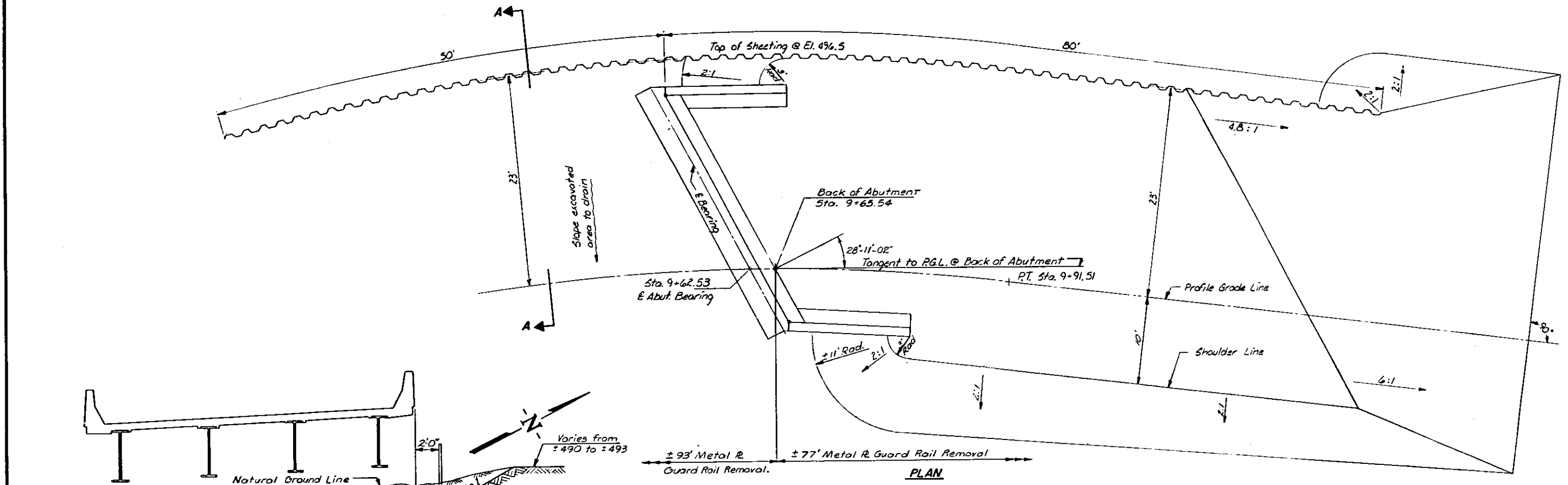
CRN
MED
DAB
CRN

HANSON ENGINEERS
INCORPORATED

MOOI
6-22-76

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.	COUNTY	TOTAL SHEETS	SHEET NO.
FA 31	15B-2	PEORIA & TAZEWELL	56	28
PEORIA ROAD DIST. NO. 1	ALABAMA	PROJECT		



Note
Steel Sheet Piling at North Abutment shall be of sufficient strength and placed to protect traffic from construction excavation and procedures. See sheet 27 for quantity. Also see Special Provisions.

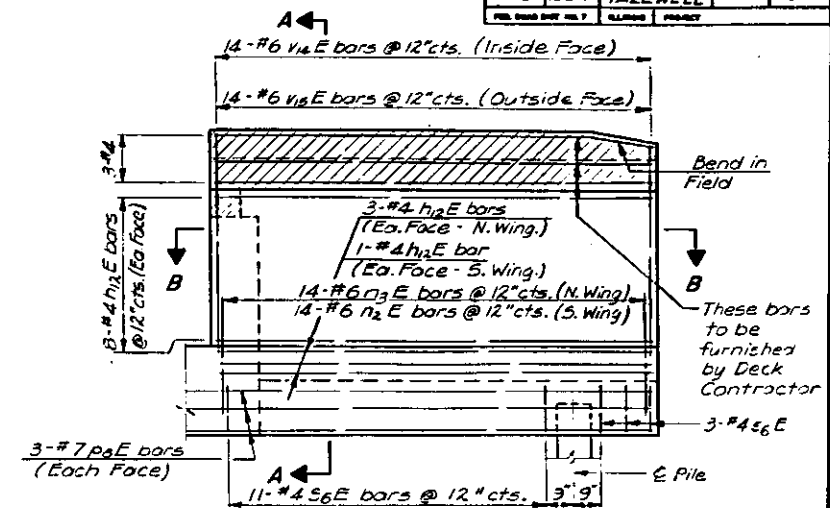
NO. ABUT. EMBANKMENT & SHEET PILING

M^o CLUGAGE BRIDGE
OVER THE ILLINOIS RIVER

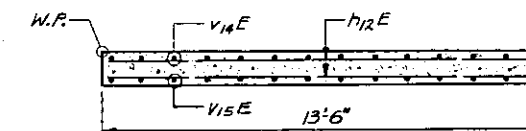
F.3 ROUTE 31 SEC. 15B-2

PEORIA & TAZEWELL COUNTIES

CKL	WDL	RJE	WDL
HANSON ENGINEERS INCORPORATED			
SPRINGFIELD ILLINOIS PEORIA ILLINOIS			
74001			
6-22-76			



WING WALL ELEVATION
Reinforcement
(N. Wing Shown) **SOUTH ABUTMENT**

[illegible]

ВАН 036

17 18

 β

133

41

BA

1-2

14

32

 $\frac{1}{2} K_{AB} F$

1/32

• **B**

BA

nc. Piles

7.

✱

1/e

location.

Bar	No.	Size	Length	Shape
n ₁₀ E	12	#5	27'-6"	—
n ₁₁ E	24	#5	5'-0"	—
n ₁₂ E	40	#4	13'-3"	—
n ₂ E	28	#6	11'-3"	U
n ₃ E	28	#6	14'-3"	U
p ₈ E	12	#7	14'-0"	—
p ₂ E	8	#7	27'-6"	—
p ₉ E	3	#7	20'-8"	—
p ₁ E	3	#7	13'-8"	—
p ₁₂ E	3	#7	6'-8"	—
s ₅ E	26	#4	16'-3"	□
s ₆ E	28	#4	9'-5"	□
s ₇ E	21	#4	10'-5"	□
u ₅ E	8	#6	13'-6"	C
v ₁₁ E	27	#4	7'-4"	—
v ₁₂ E	17	#5	2'-7"	—
v ₁₃ E	27	#4	2'-0"	—
v ₁₄ E	28	#6	8'-11"	—
v ₁₅ E	28	#6	8'-11"	—
v ₁₆ E	27	#4	8'-8"	—
Class X Concrete			Cu. Yds.	44.6
Reinforcement Bars			Lbs.	4,840
Conc. Piles 12" Dia.			Lin. Ft.	180
Test Piles 12" Conc.			Ea.	1
Strut Pile Excavation			Cu. Yds.	137

M^CCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
ROUTE 31 SEC. 15B-2
FORIA & TAZEWELL COUNTIES.

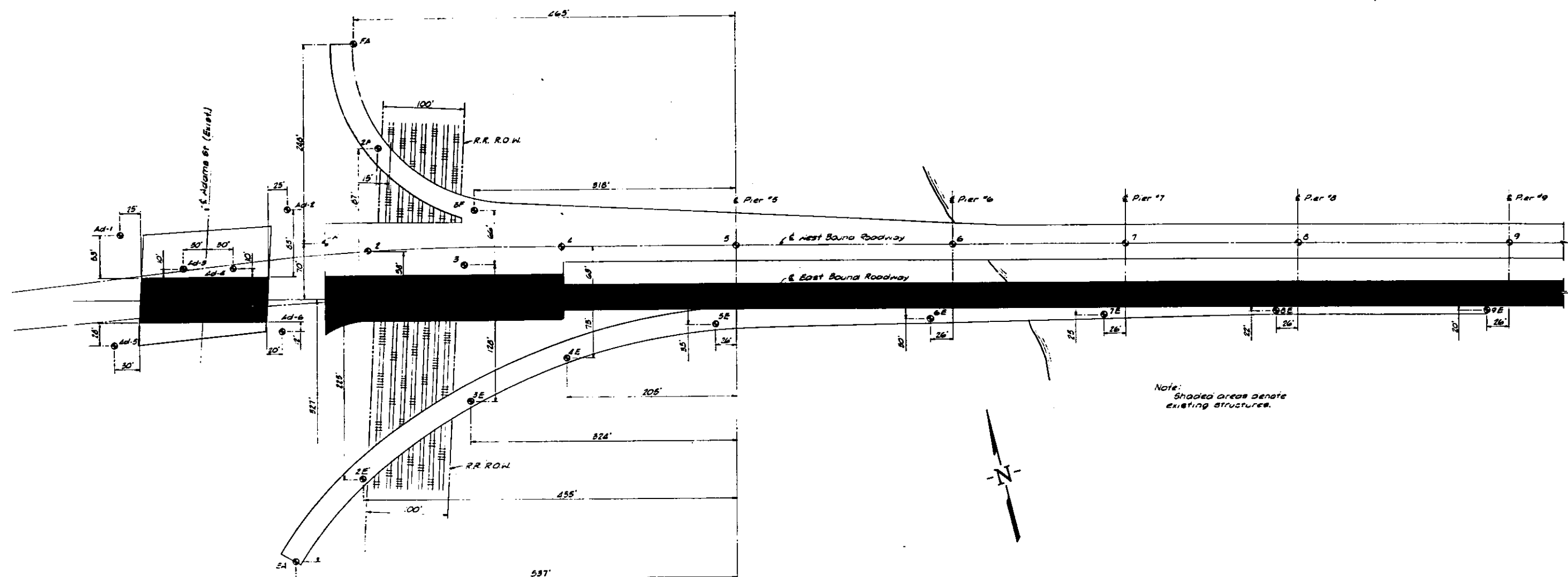
PILE DATA

Type: 12" Conc. Piles
Capacity: 45 Ton.
Est. Length: 10'
No Required: 11***

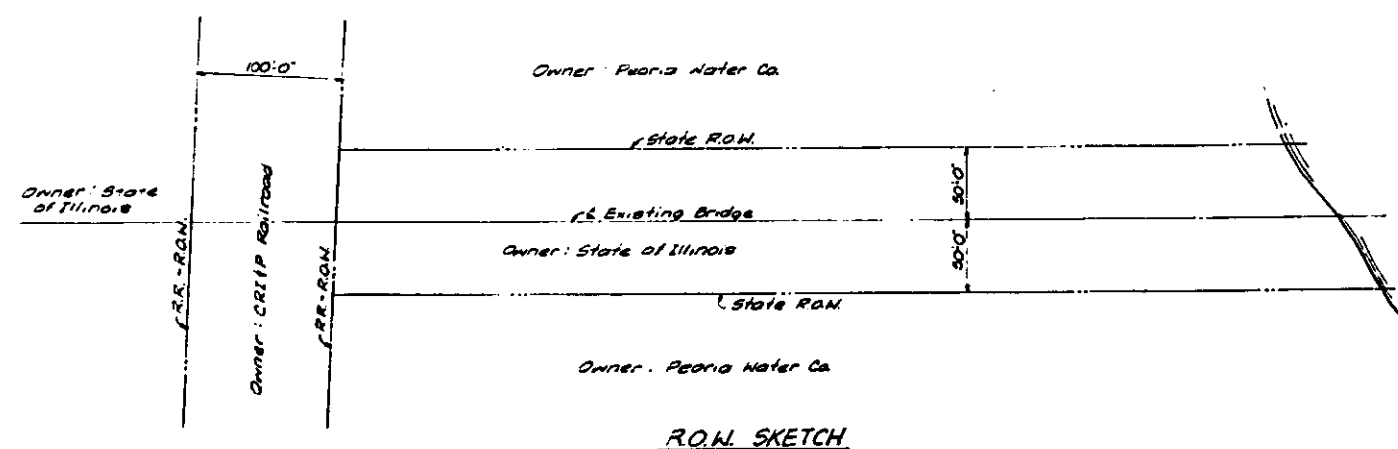
***Includes one test pile
driven in a permanent location.

WDL		HANSON ENGINEERS INCORPORATED	FIG. 50
S.C.C.			74001
D.A.N.			DATE
S.C.C.			6-22-76

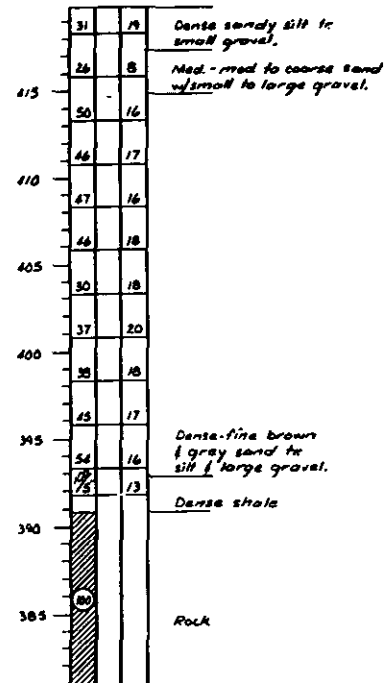
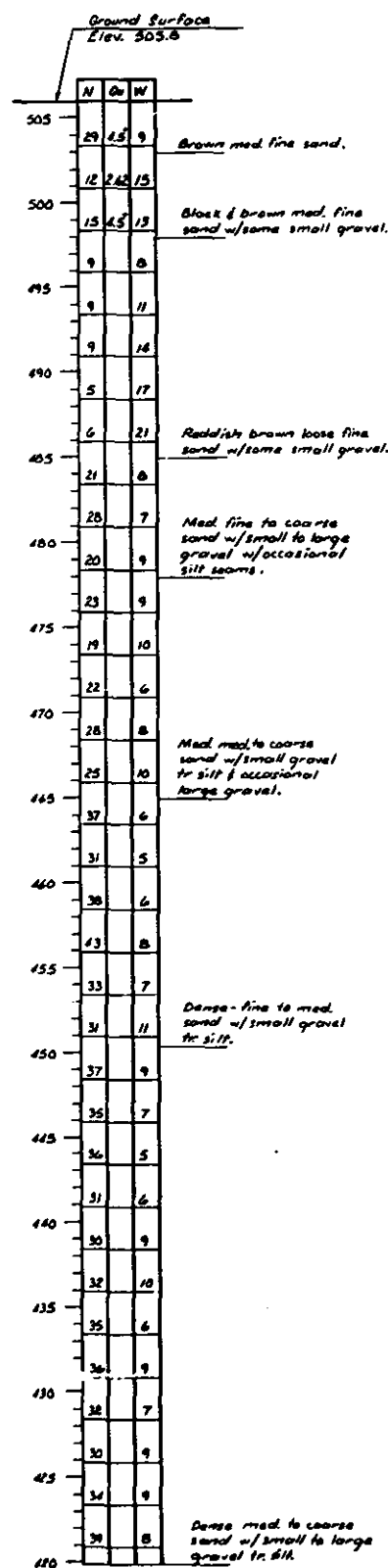
MEMO NO.	FILE	CITY	FILE NO.	FILE NO.
FAB1	100-2	Pearis & Tammall	56	48
FILE NO. OF VOL.		CLASS	STATUS	



Note:
Shaded areas denote
existing structures.

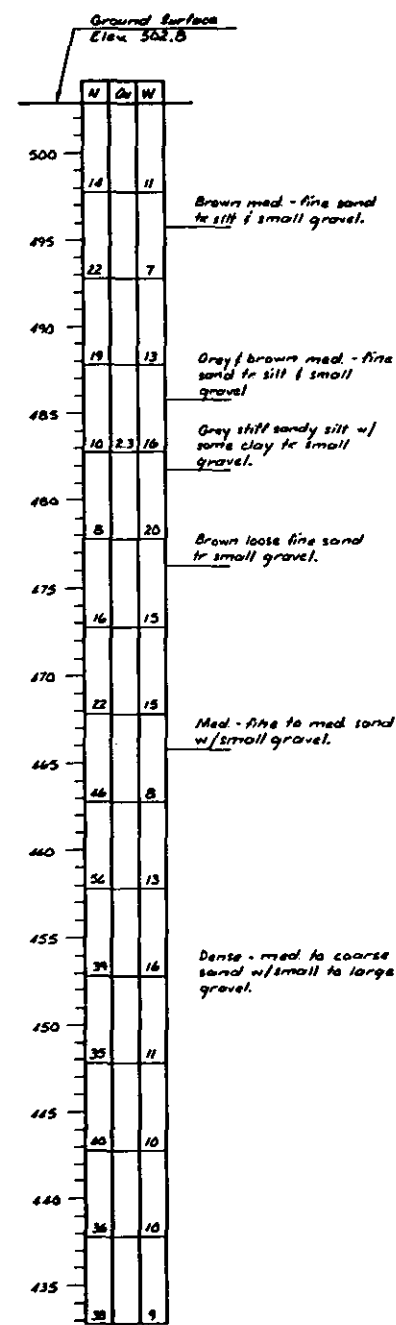


BORING "AD1"



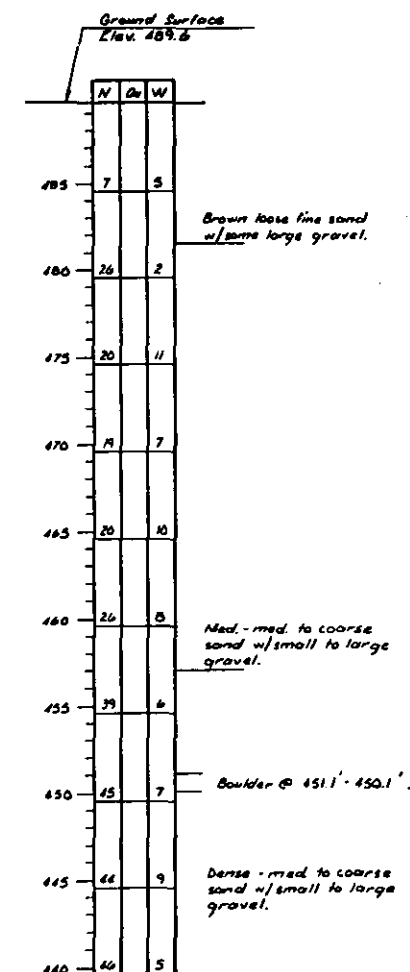
BORING DATA

BORING "AD2"

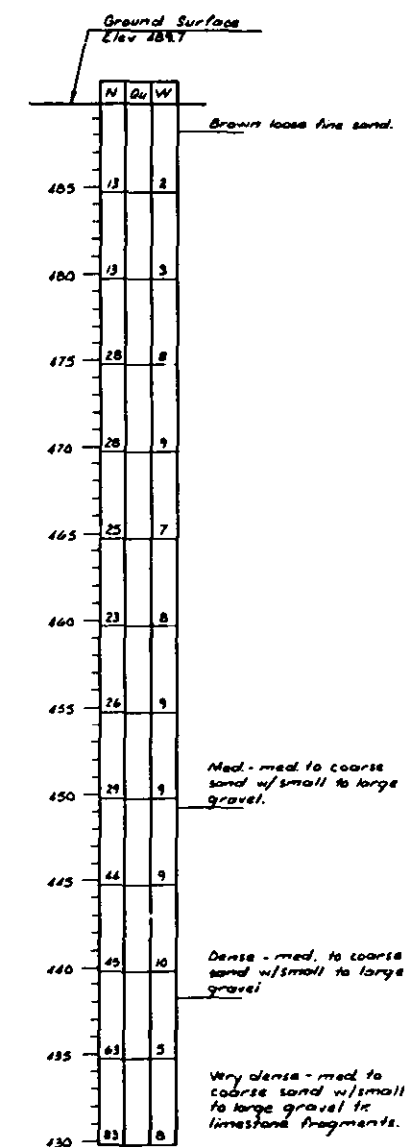


Note: Installed piezom. for 434.3';
flushed with clean water &
pneumatically packed with clean
sand to 432.8'.

BORING "AD3"



BORING "AD4"



LEGEND:

Indicates Shelby Tube



Indicates Split Core



A - amount of penetration (in inches).
B - amount recovered (in inches).
C - percent of core recovered.

BORING DATA

**M^cCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15 B-2
PEORIA & TAZEWELL COUNTIES**



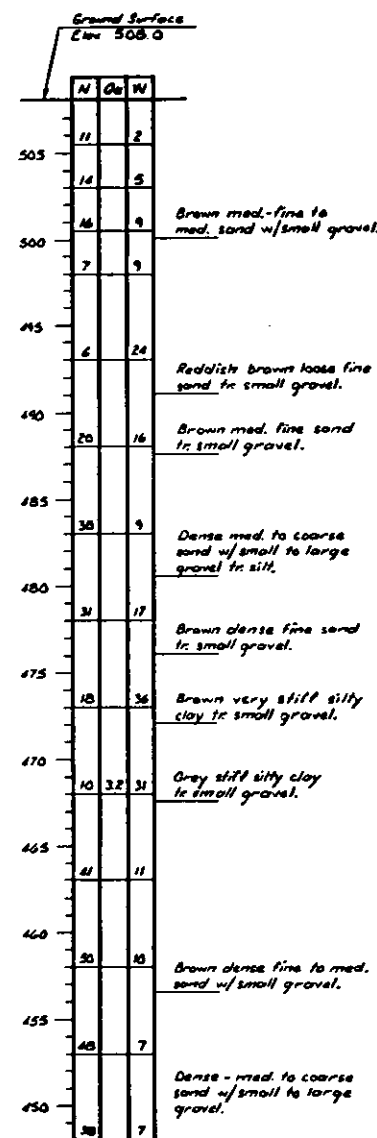
74001

12-81-74

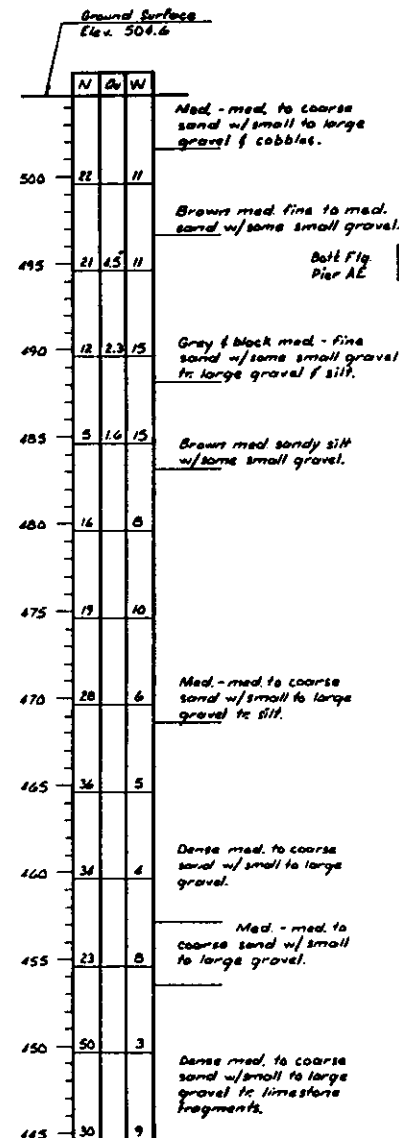
BORING DATA

NO.	DATE	PROJECT	NO.	NO.
FA 31	1958-2	Peoria & Tazewell	56	46
FOR INFO ONLY NO. 1				

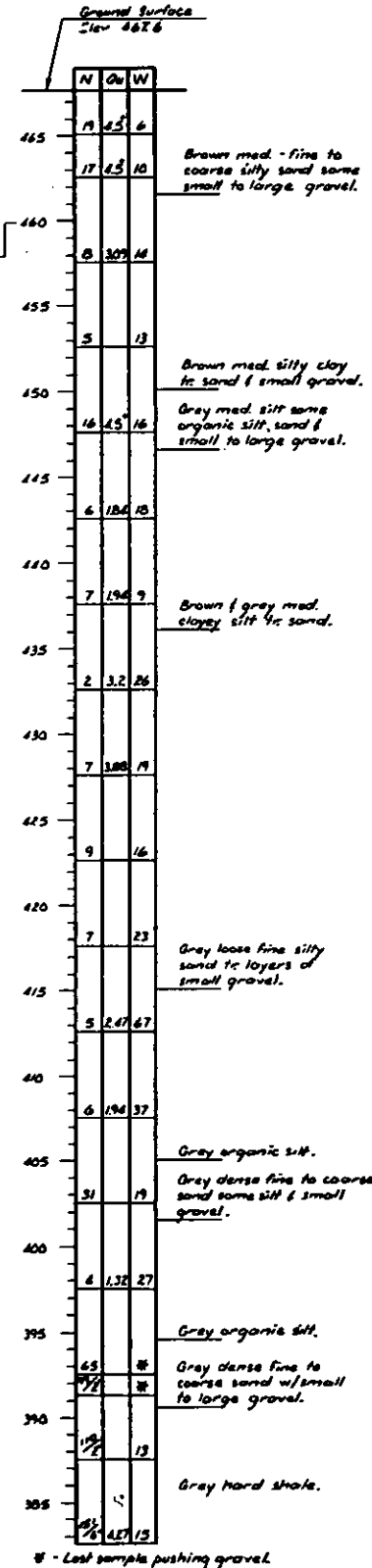
BORING #AD5



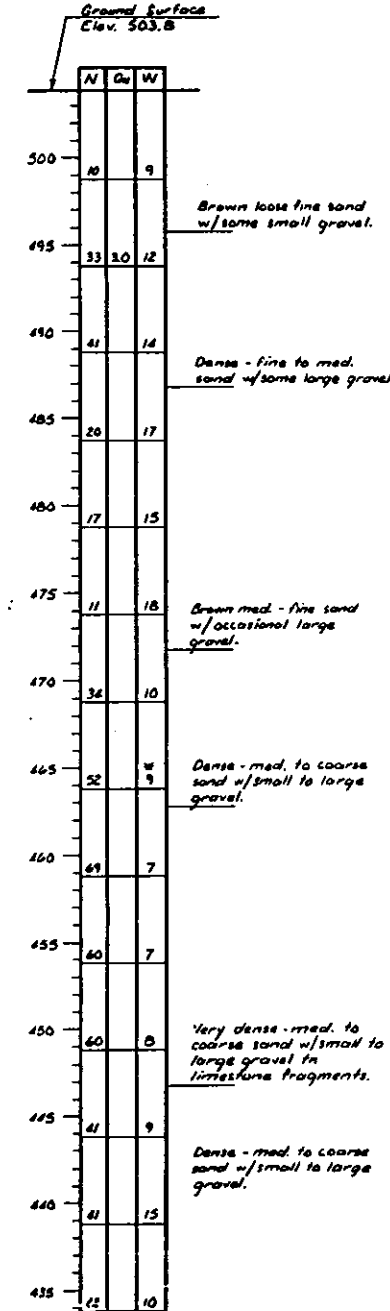
BORING #AD6



BORING #AE

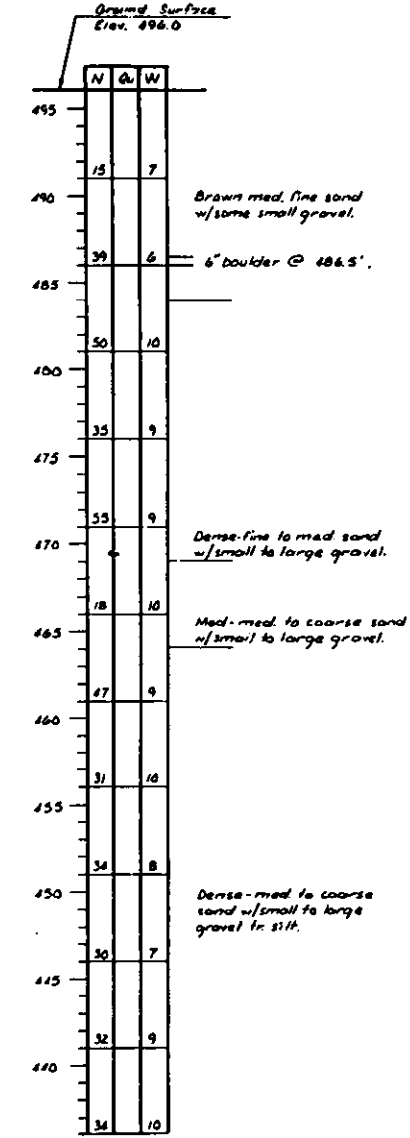


BORING #AW

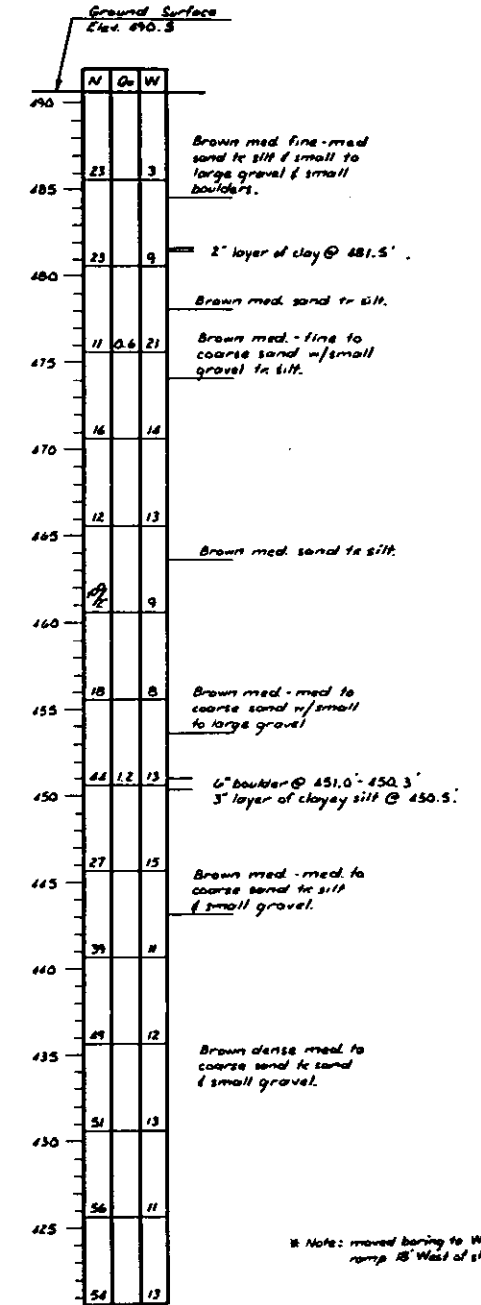


* Note: piece of large gravel in tip of spoon.

BORING #EA



BORING #FA



* Note: moved boring to West side of ramp 18' West of staked location.

LEGEND:

Indicates Shelby Tube



Indicates Rock Core



A - amount of penetration (in inches).
B - amount recovered (in inches).
C - percent of core recovered.

BORING DATA

M^cCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
I.A. ROUTE 31 SEC. 15B-2
PEORIA & TAZEWELL COUNTIES

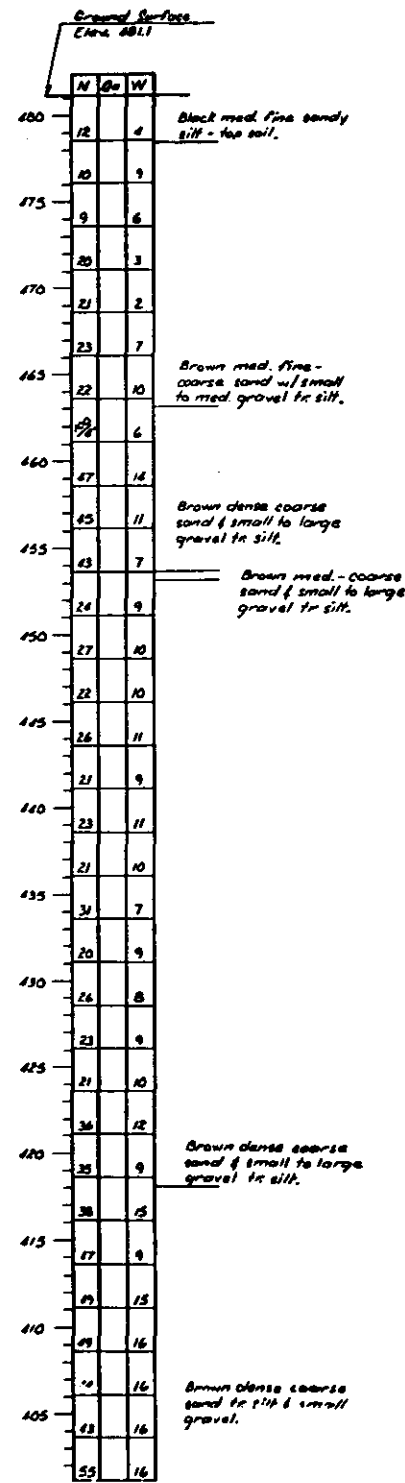


22F.	MOOI
G.F.J.	12-81-74

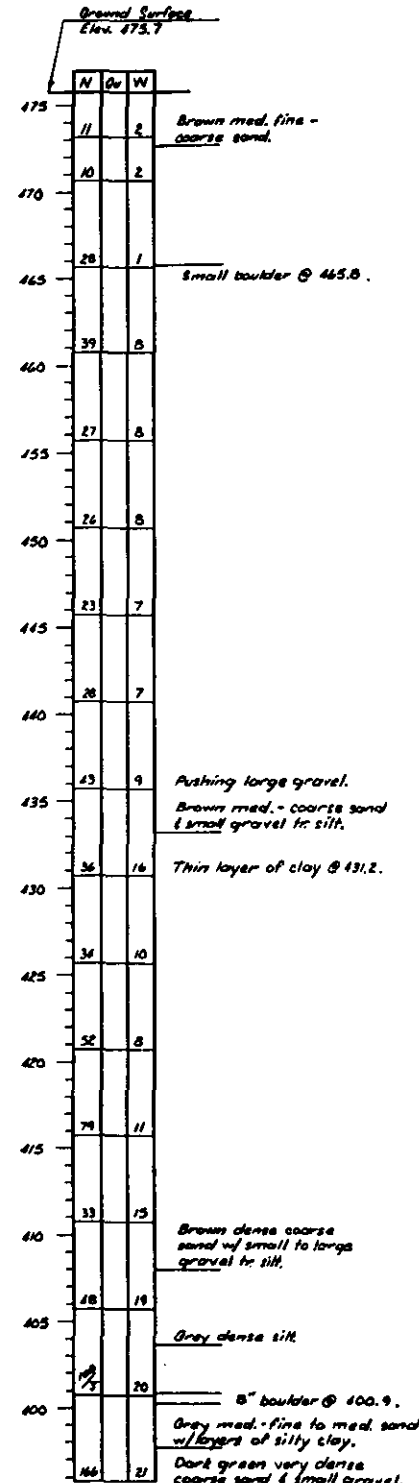
BORING DATA

DATE	NO.	PROJECT	SCALE	BY
F.A. 51	15B-2	Peoria & Tazewell	50'	47
NO. BORING DATA	1	PEORIA	PEORIA	

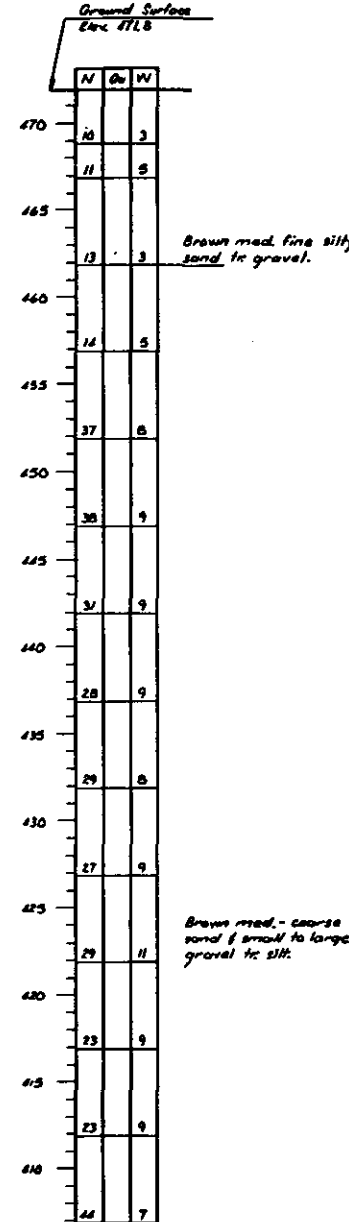
BORING #2E



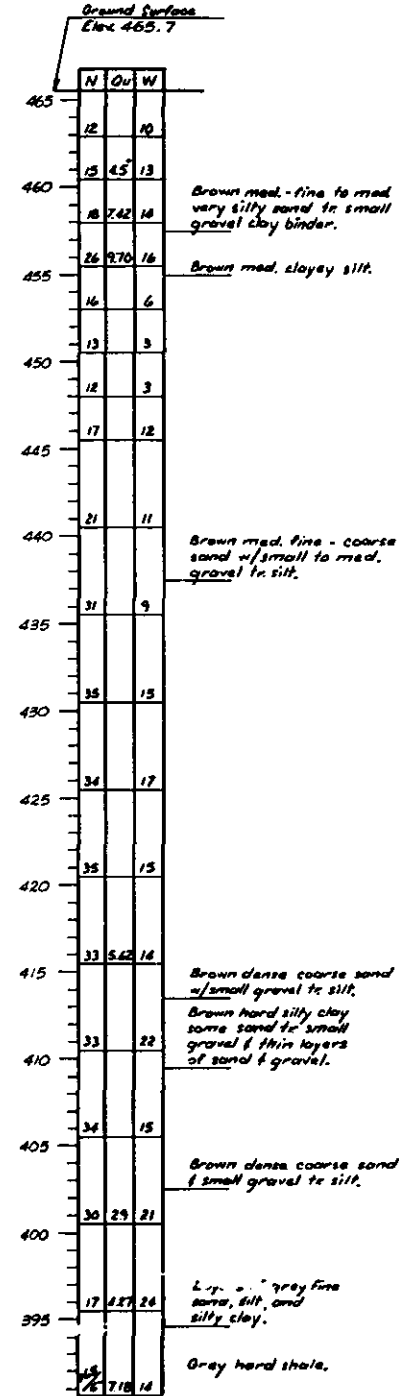
BORING #2



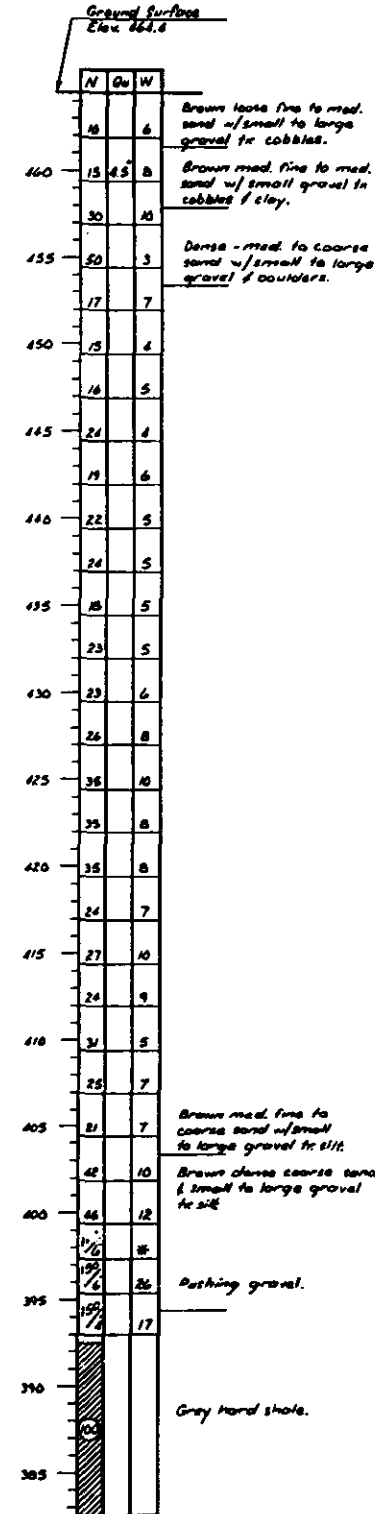
BORING #2F



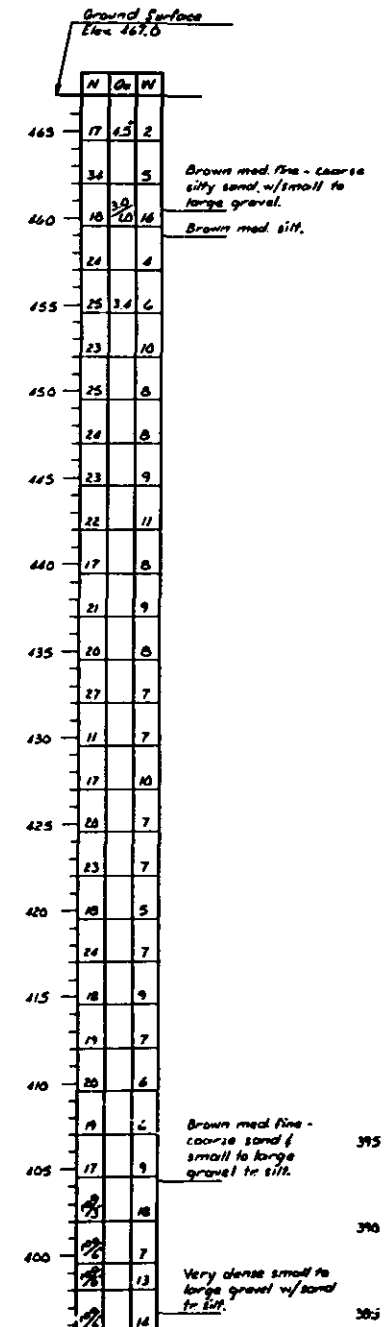
BORING #3E



BORING #3



BORING #3F



LEGEND:

Indicates Shelby Tube



Indicates Rock Core



A - amount of penetration (in inches).
B - amount recovered (in inches).
C - percent of core recovered.

BORING DATA

M^o CLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15B-2
PEORIA & TAZEWELL COUNTIES

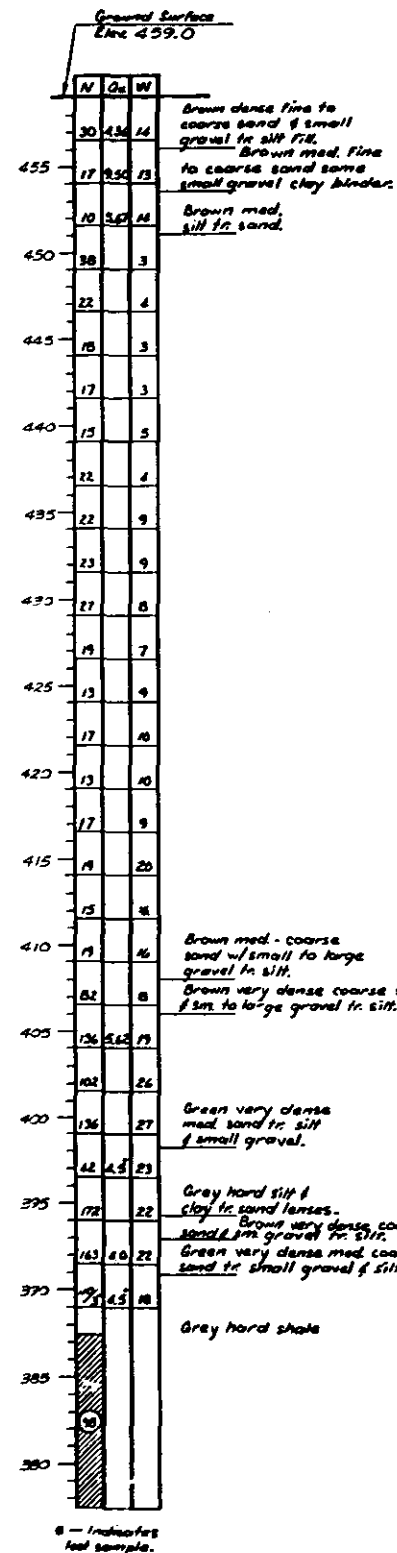


DATE	NO.	PROJECT	SCALE	BY
12-84	76001	PEORIA & TAZEWELL	50'	47
NO. BORING DATA	1	PEORIA	PEORIA	

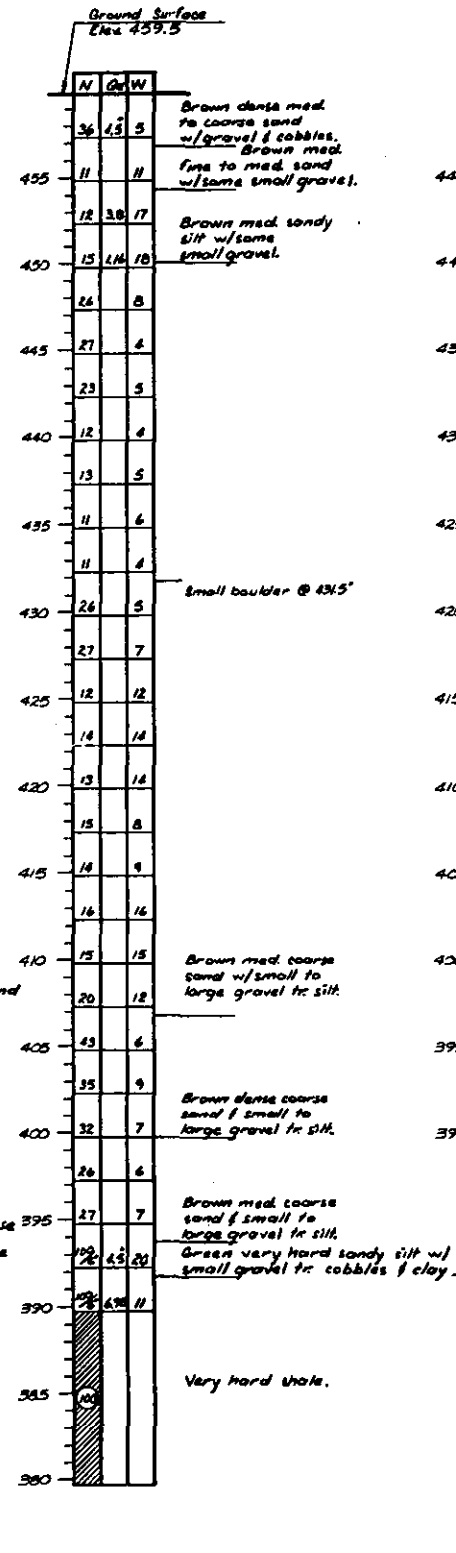
BORING DATA

DATE	NO.	PROJECT	SCALE	DATE
FA 81	100-2	Feoria & Tazewell	56'	48'
FILE NO.	DATE	BY	DATE	BY

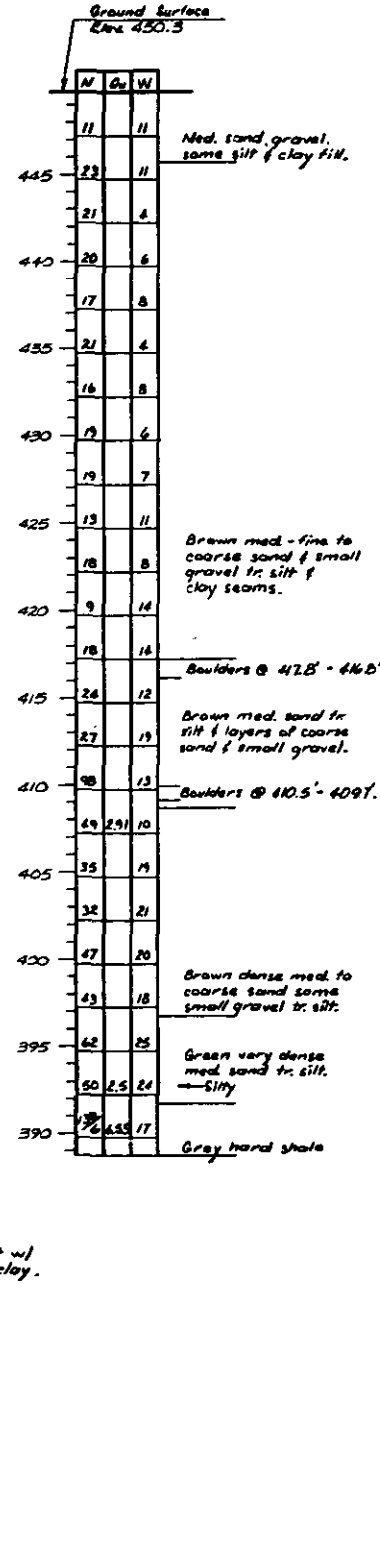
BORING #4E



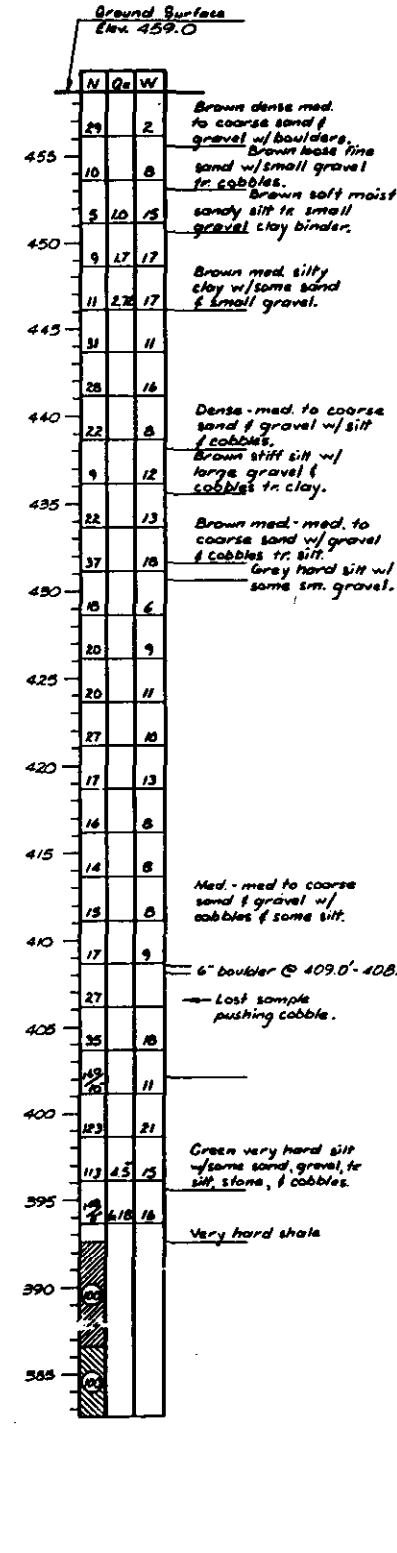
BORING #4



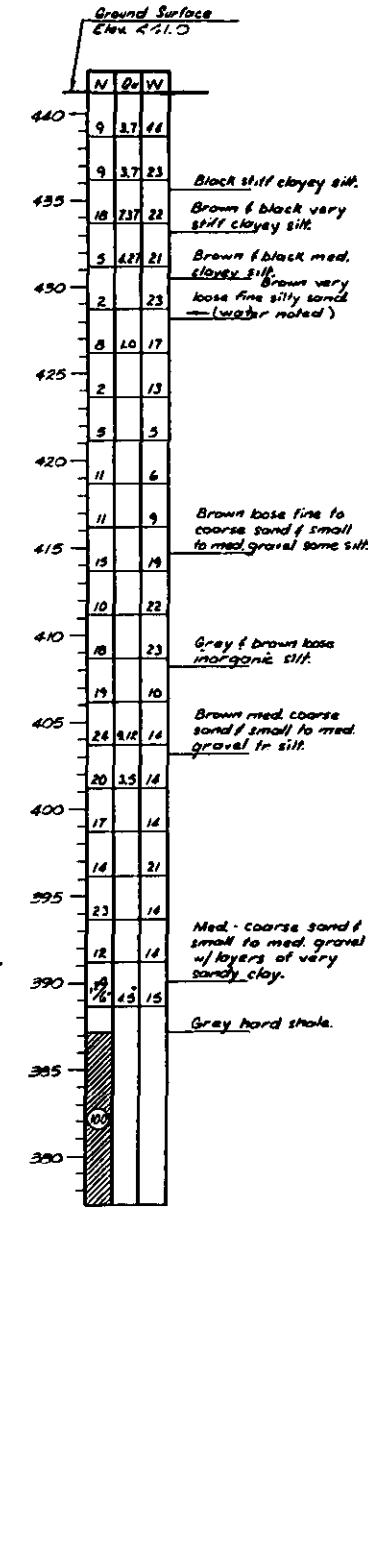
BORING #5E



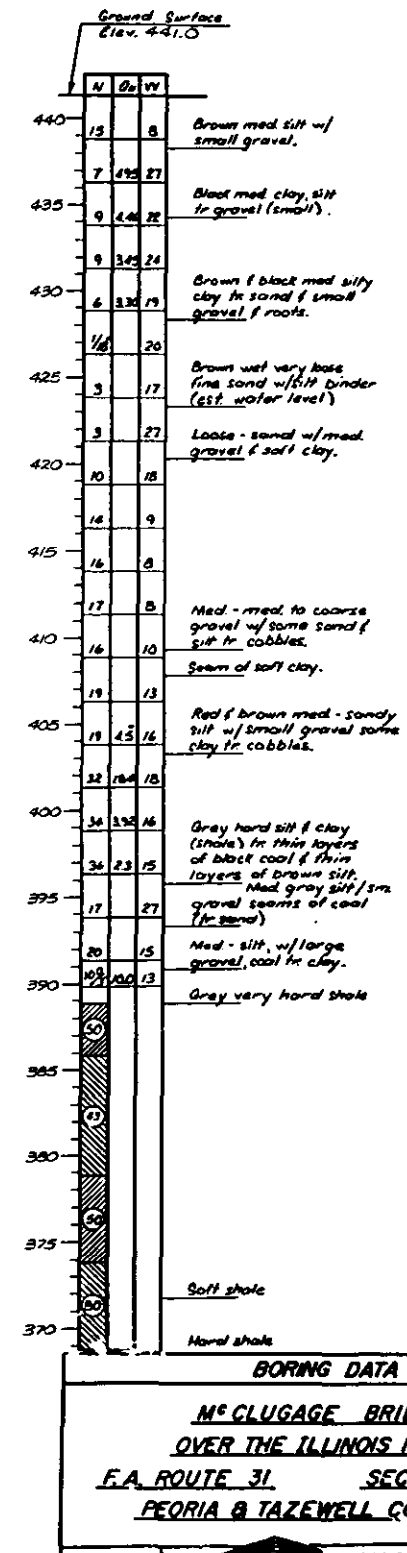
BORING #5



BORING #6E



BORING #6



BORING DATA

M^cCLUGAGE BRIDGE
 OVER THE ILLINOIS RIVER
 F.A. ROUTE 31 SEC. 15 B-2
 PEORIA & TAZEWELL COUNTIES

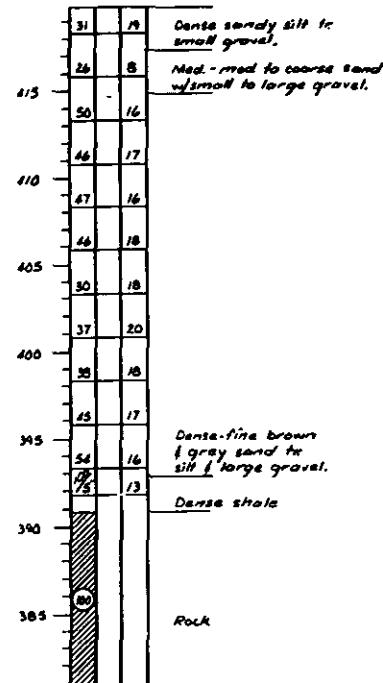
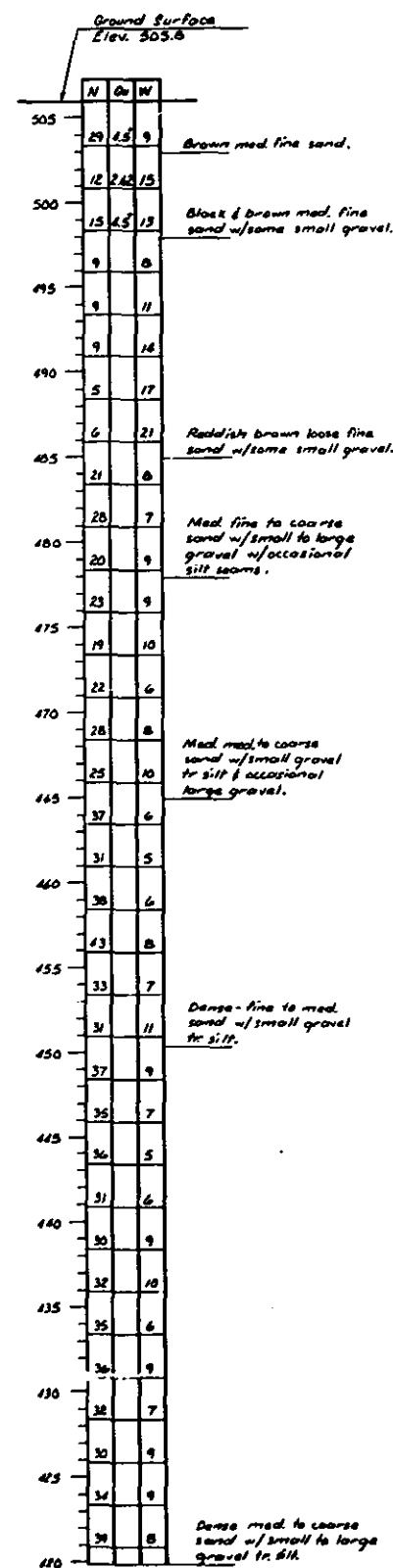


DATE
 DRAWN
 CHECKED
 APPROVED

DATE
 DRAWN
 CHECKED
 APPROVED

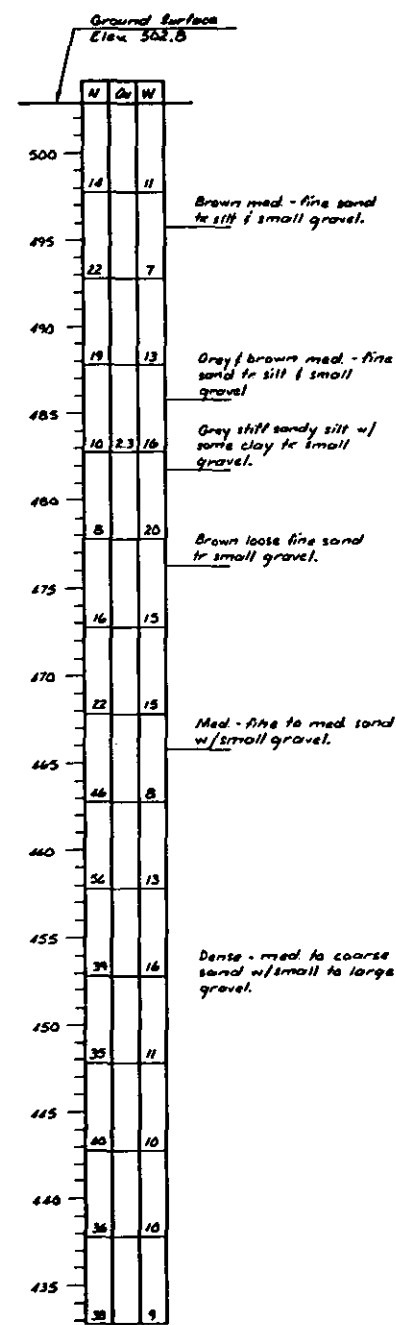
A - amount of penetration (in inches).
 B - amount recovered (in inches).
 C - percent of core recovered.

BORING "AD1"



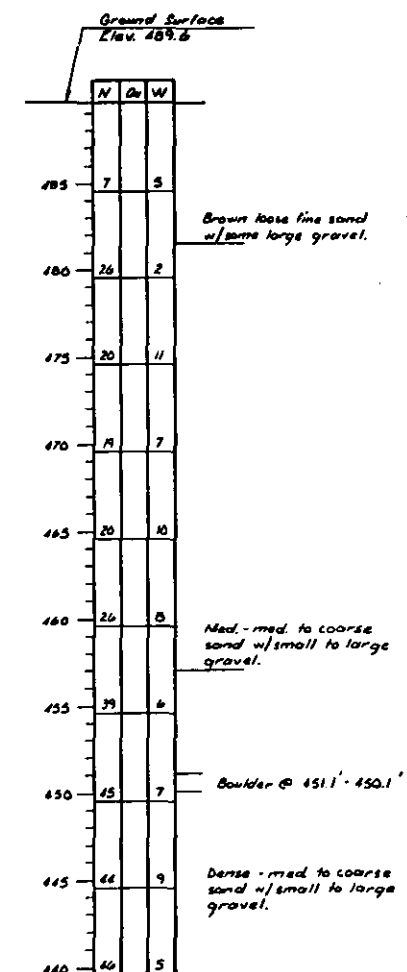
BORING DATA

BORING "AD2"

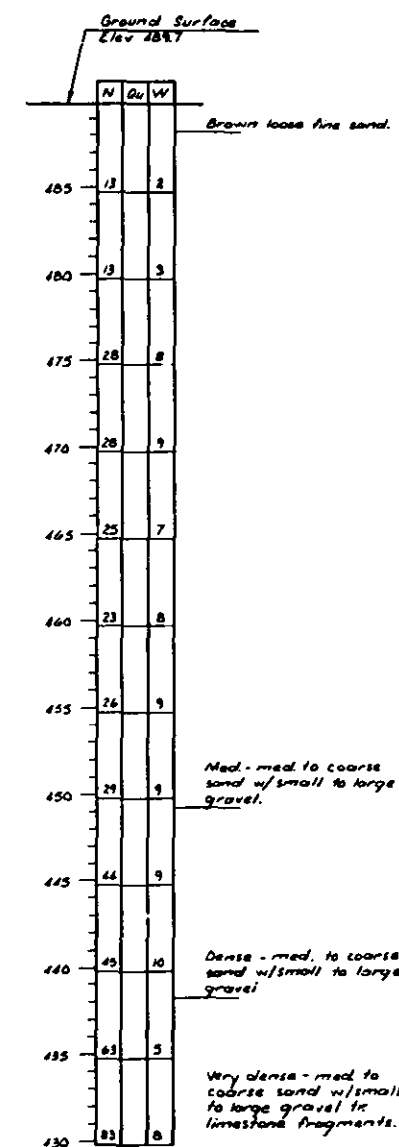


Note: Installed piezom. for 434.3';
flushed with clean water &
pneum. if packed with clean
sand to 472.8'.

BORING "AD3"



BORING "AD4"



LEGEND:

Indicates Shelby Tube



Indicates Split Core



A - amount of penetration (in inches).
B - amount recovered (in inches).
C - percent of core recovered.

BORING DATA

**M^cCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15 B-2
PEORIA & TAZEWELL COUNTIES**



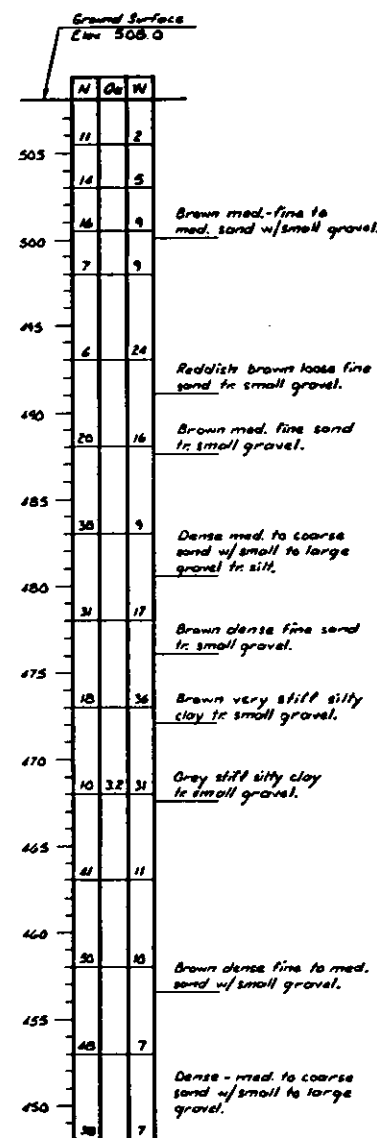
74001

12-81-74

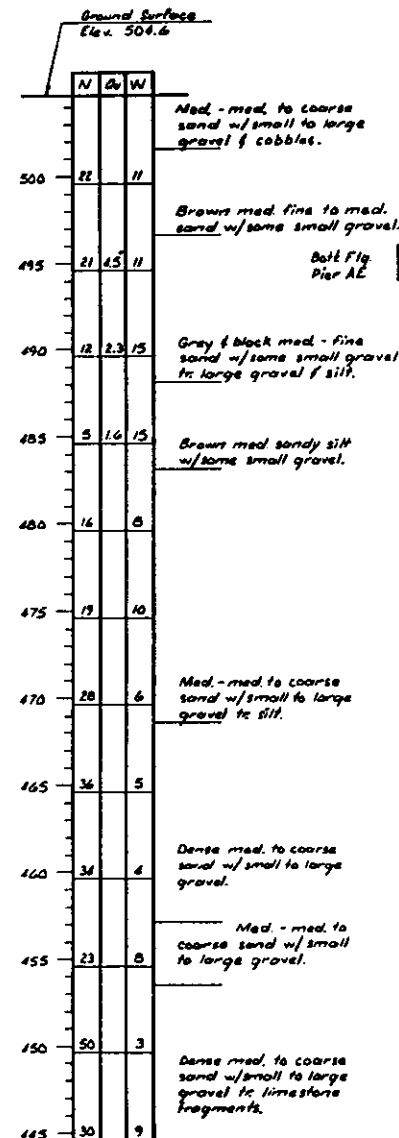
BORING DATA

NO.	DATE	PROJECT	NO.	NO.
FA 31	1958-2	Peoria & Tazewell	56	46
FOR RECORD ONLY NO. 1				

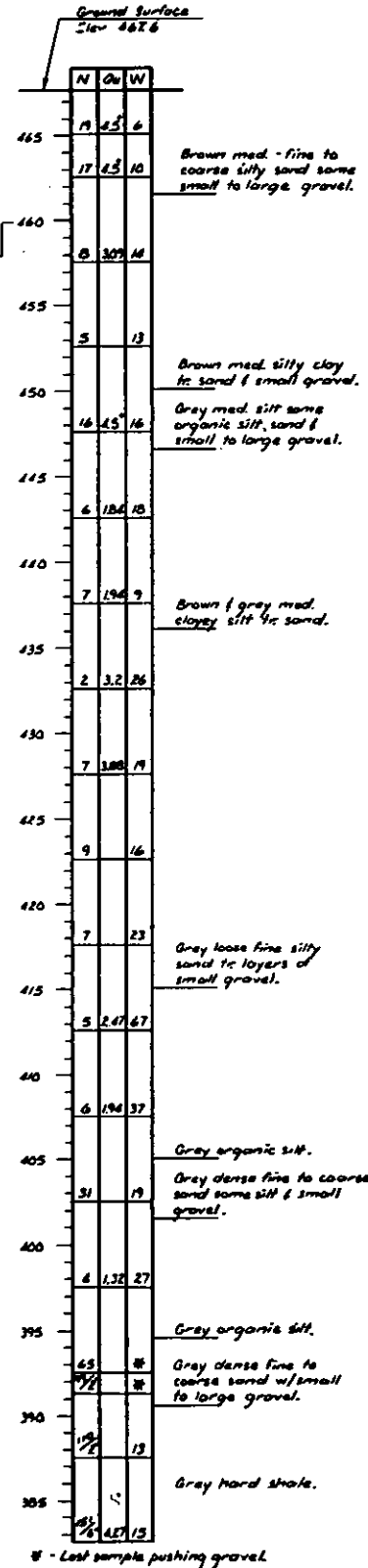
BORING #AD5



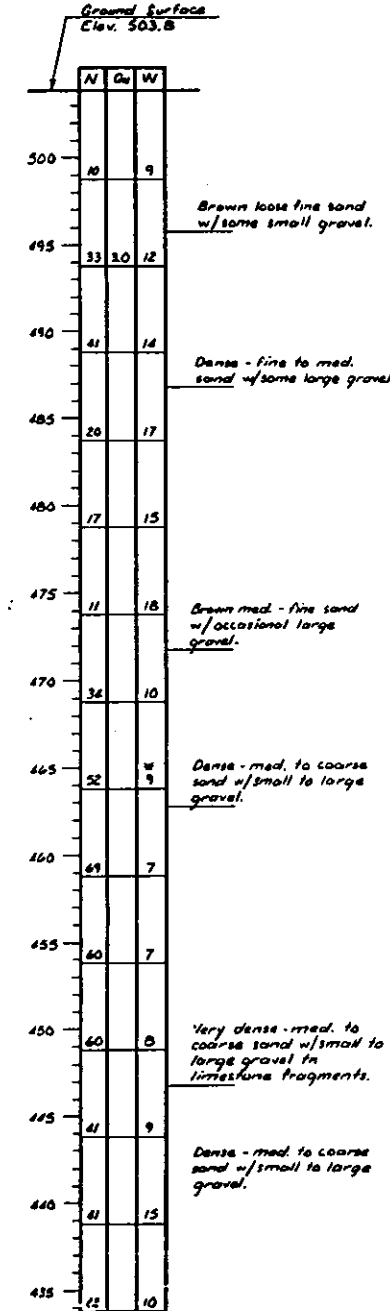
BORING #AD6



BORING #AE

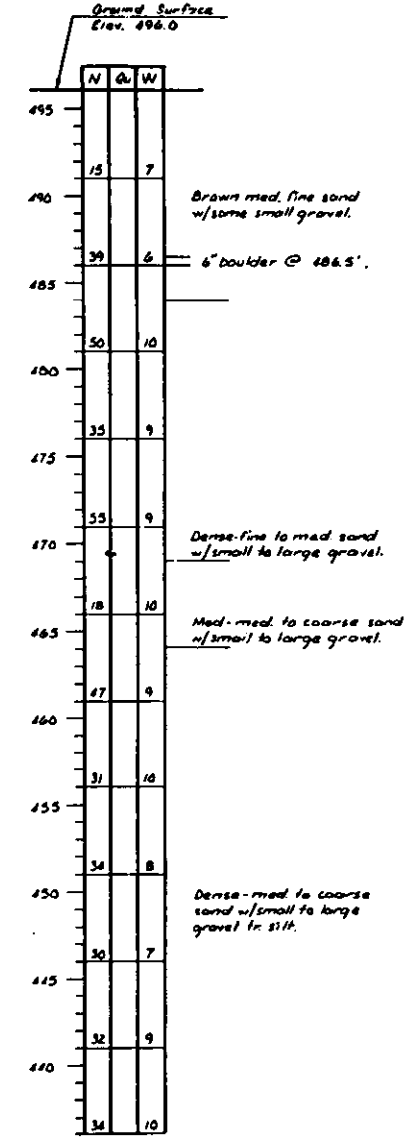


BORING #AW

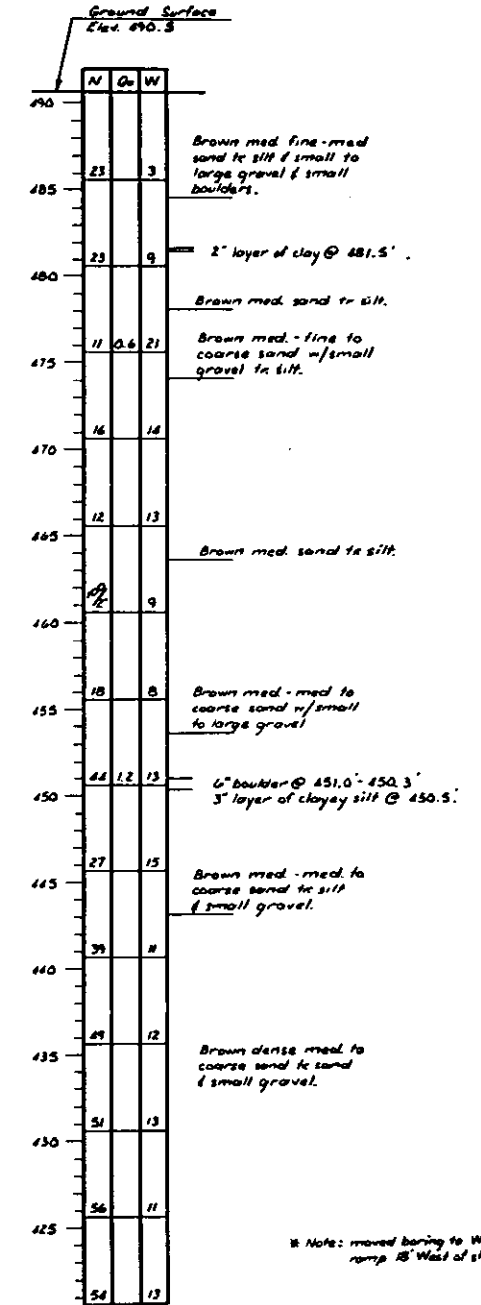


* Note: piece of large gravel in tip of spoon.

BORING #EA



BORING #FA



* Note: moved boring to West side of ramp 18' West of staked location.

LEGEND:

Indicates Shelby Tube



Indicates Rock Core



A - amount of penetration (in inches).
B - amount recovered (in inches).
C - percent of core recovered.

BORING DATA

M^cCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
I.A. ROUTE 31 SEC. 15B-2
PEORIA & TAZEWELL COUNTIES



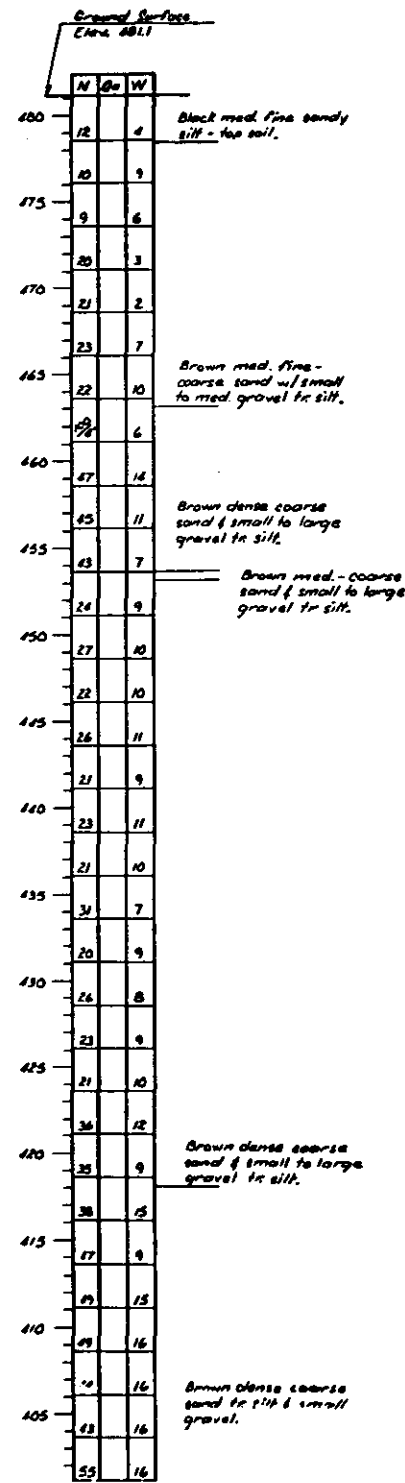
22F.
O.F.J.

MOOI
12-BT-74

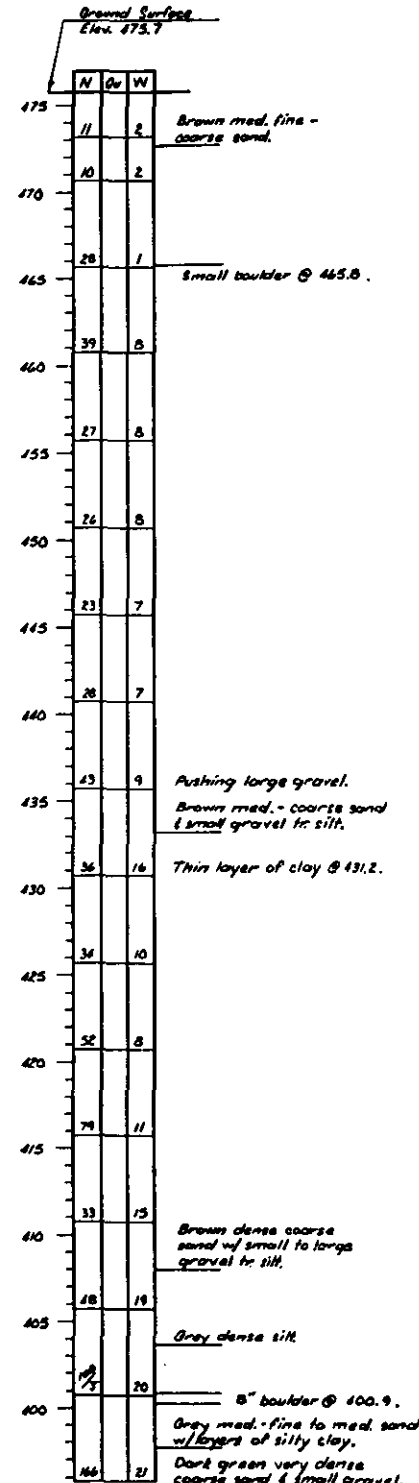
BORING DATA

DATE	NO.	PROJECT	NO.	NO.
F.A. 51	15B-2	Peoria & Tazewell	56	47
NO. BORING DATA	NO. 1	NO. 2	NO. 3	NO. 4

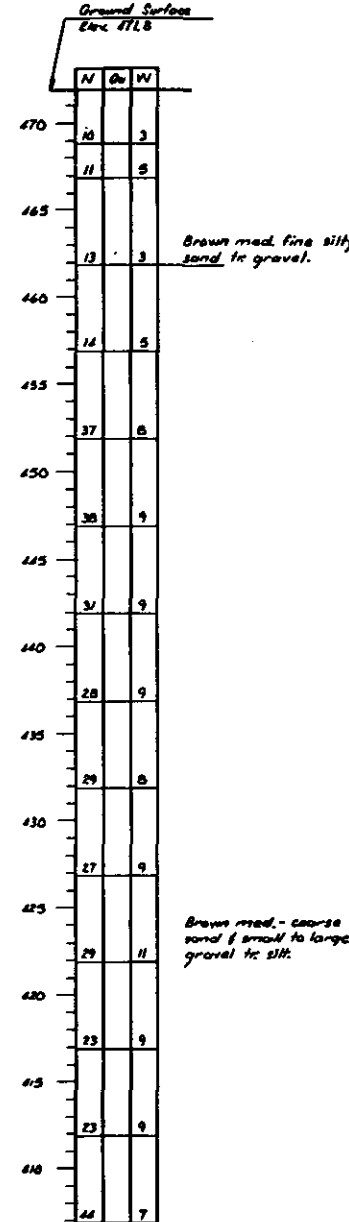
BORING #2E



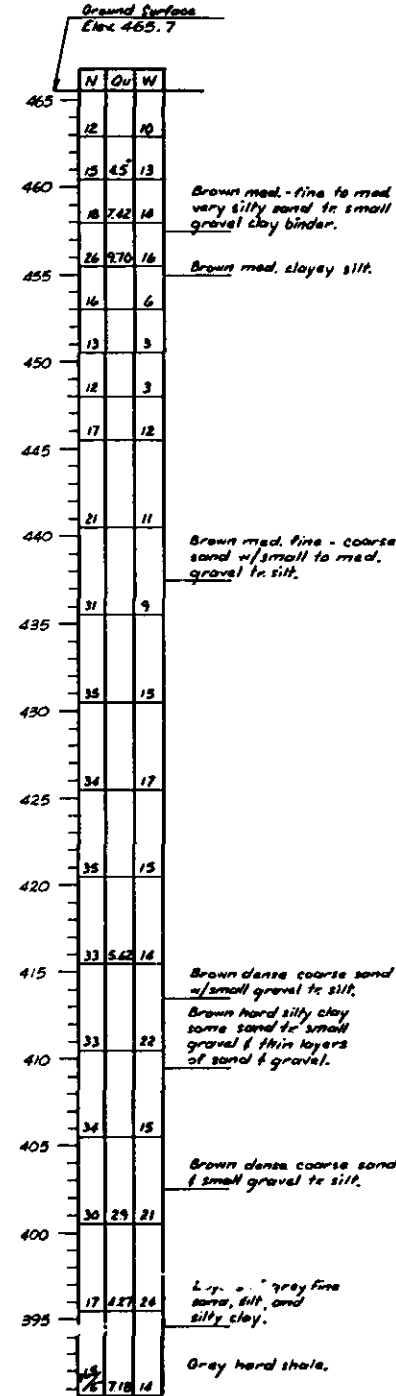
BORING #2



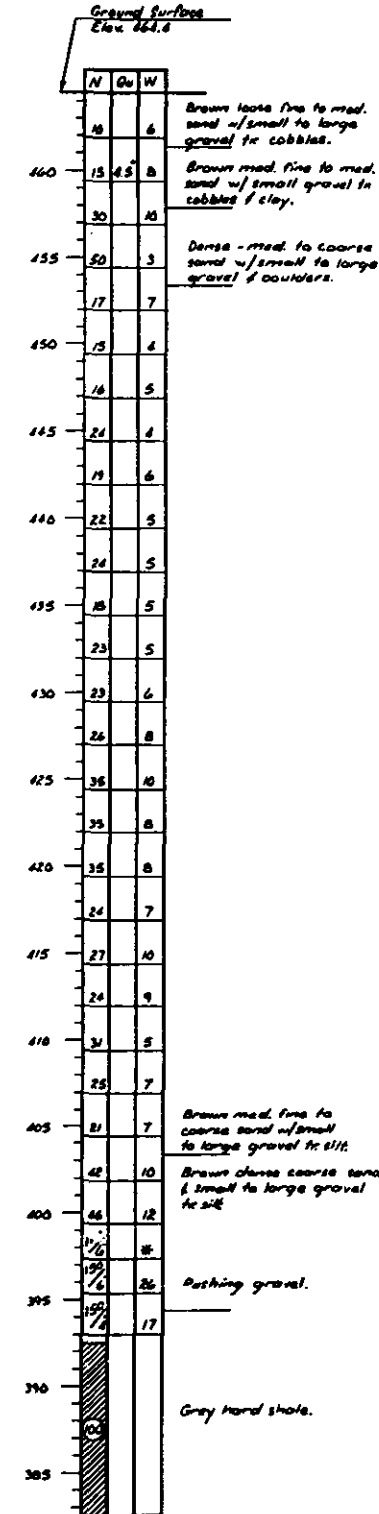
BORING #2F



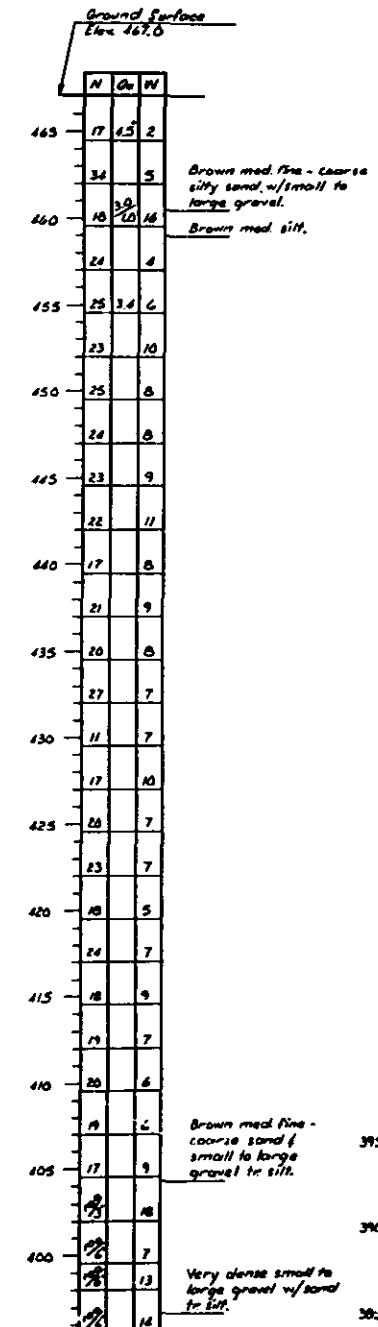
BORING #3E



BORING #3



BORING #3F



LEGEND:

Indicates Shelby Tube



Indicates Rock Core



A - amount of penetration (in inches).
B - amount recovered (in inches).
C - percent of core recovered.

BORING DATA

M^c CLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15B-2
PEORIA & TAZEWELL COUNTIES

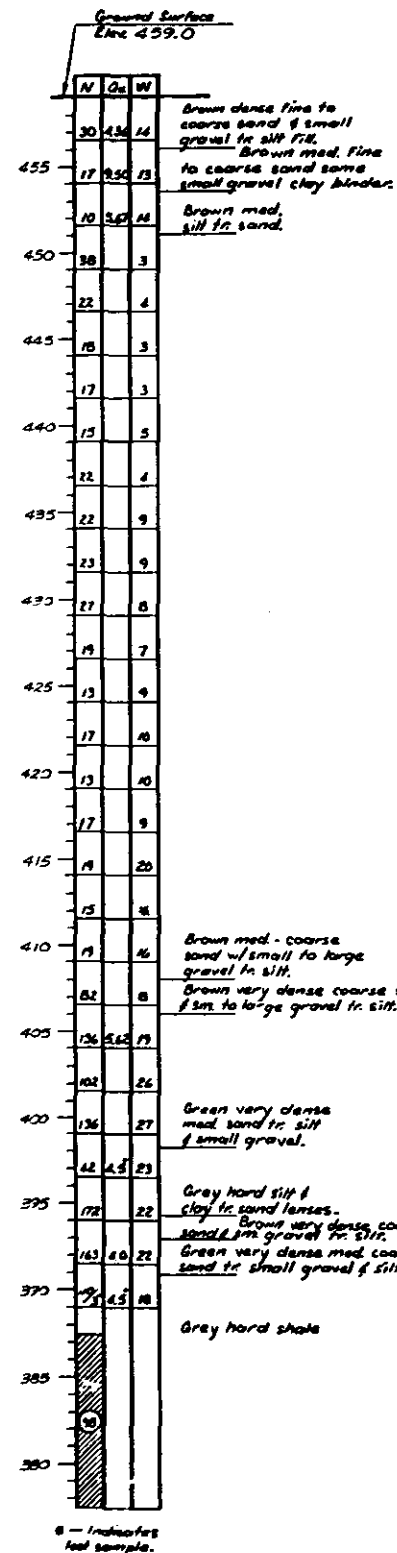


DATE	NO.	PROJECT	NO.	NO.
12-84	76001	12-84-76		

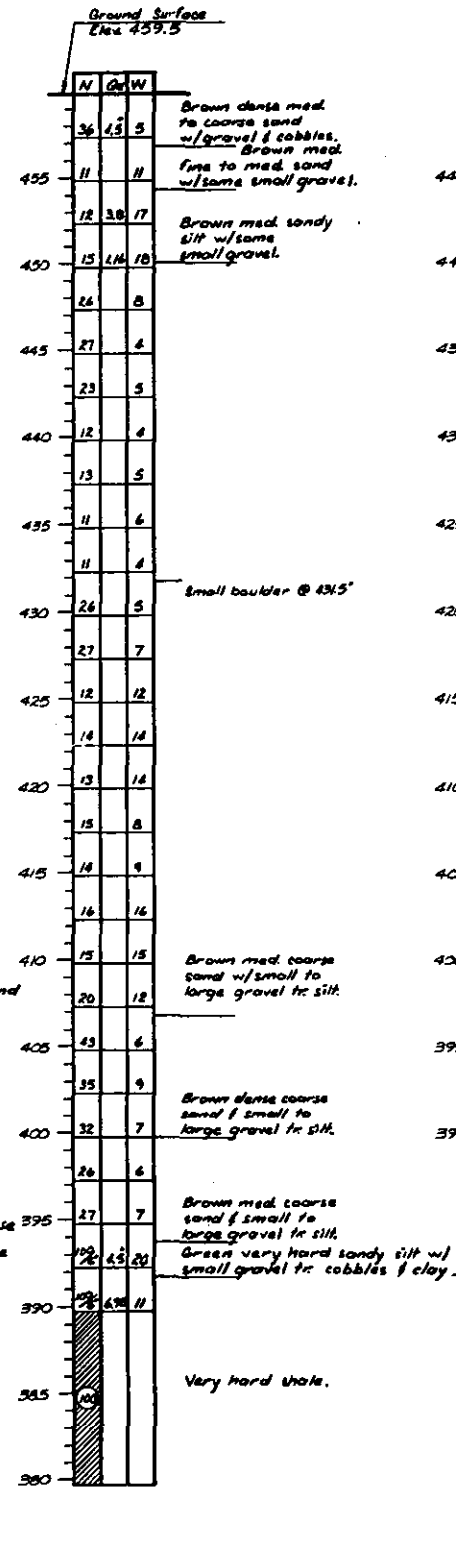
BORING DATA

DATE	NO.	PROJECT	SCALE	DATE
FA 81	100-2	Feoria & Tazewell	56'	48'
FILE NO.	DATE	BY	DATE	BY

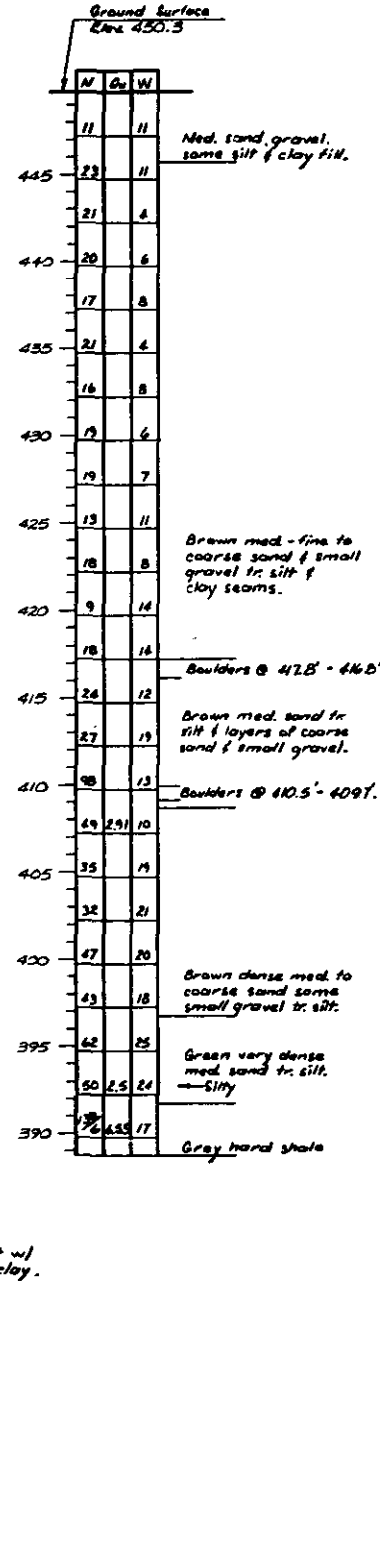
BORING #4E



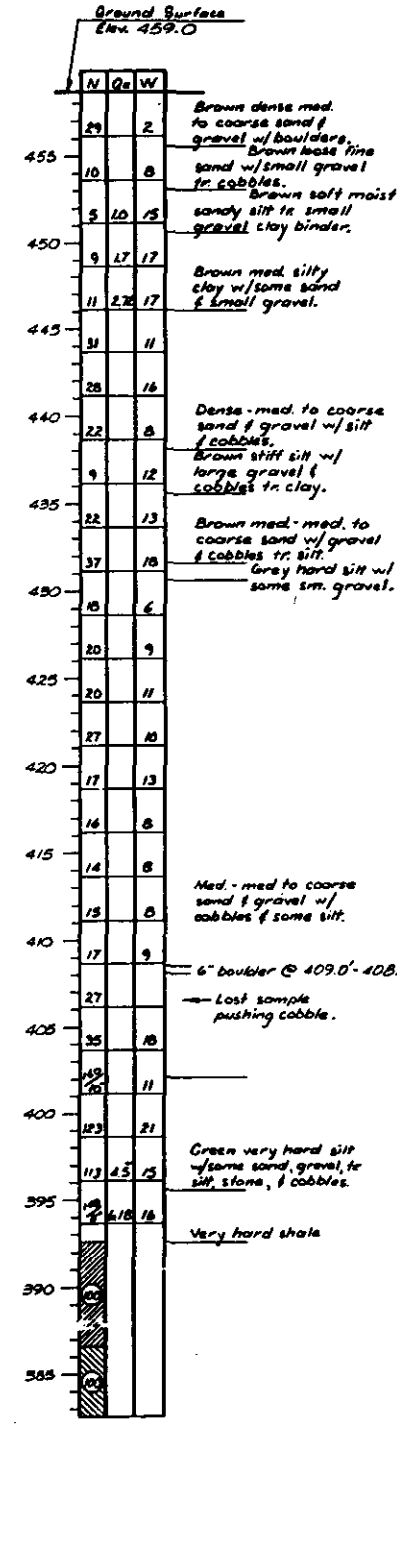
BORING #4



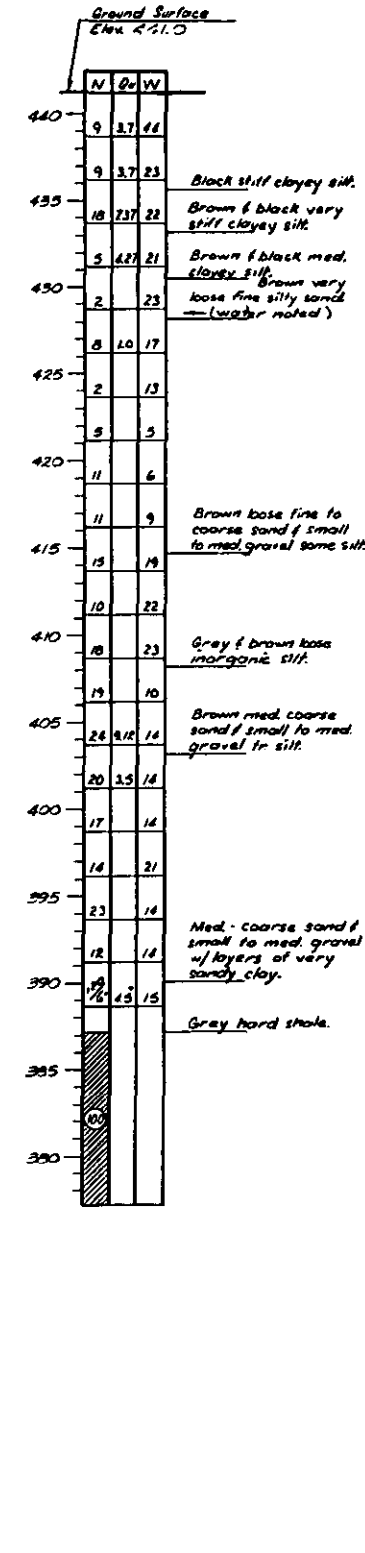
BORING #5E



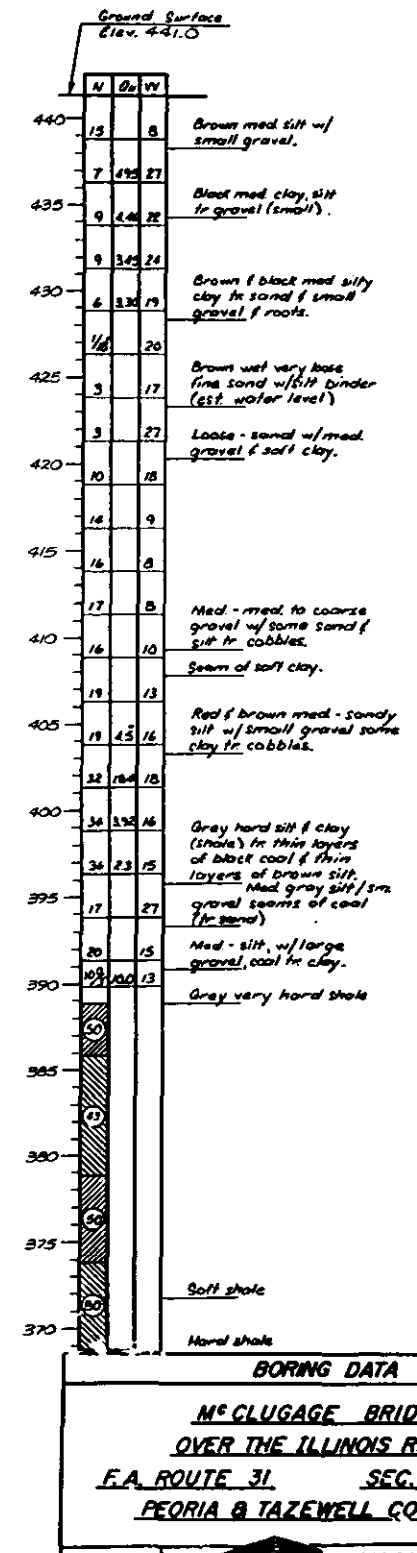
BORING #5



BORING #6E



BORING #6



BORING DATA

M^cCLUGAGE BRIDGE
 OVER THE ILLINOIS RIVER
 F.A. ROUTE 31 SEC. 15 B-2
 PEORIA & TAZEWELL COUNTIES

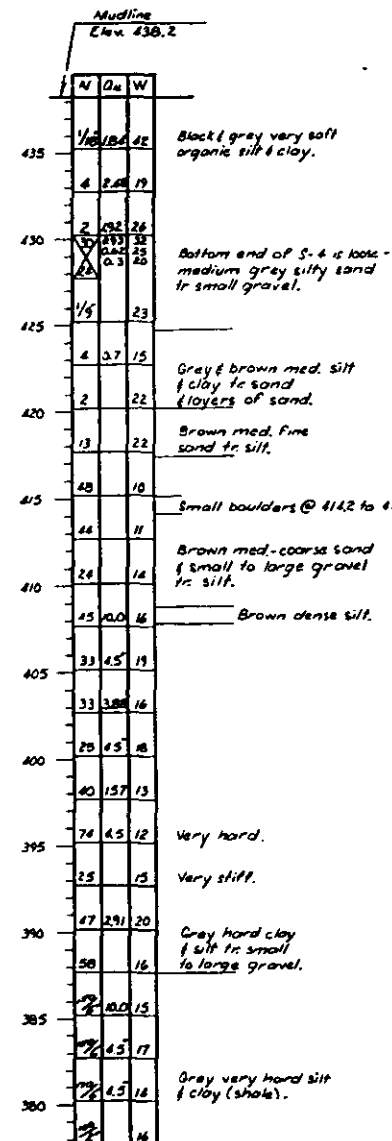


DATE
 12-31-74

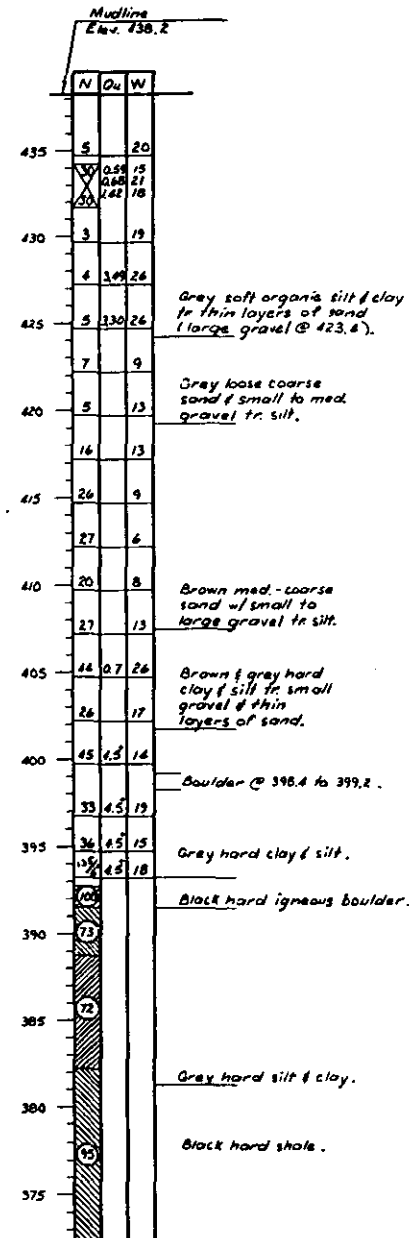
BORING DATA

DATE	NO.	COUNTY	FILE NO.	DATE
12-21-1962	100-2	Peoria	56	49
FILE NO.	DATE	NO.	DATE	NO.

BORING #7E

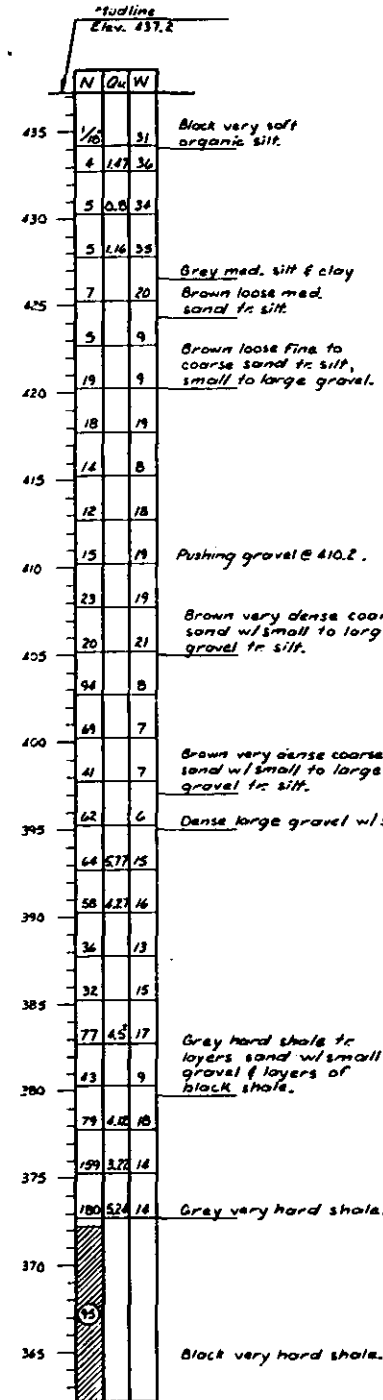


BORING #7



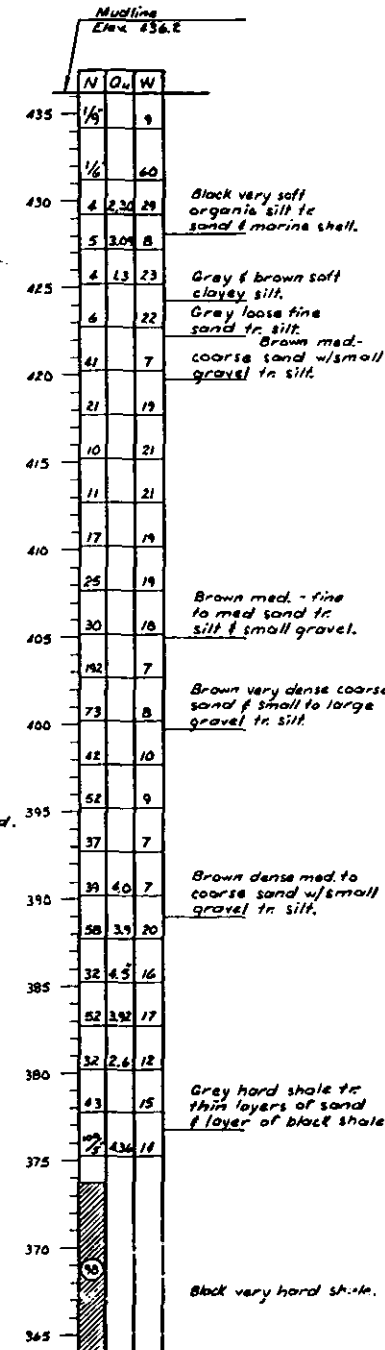
Note: Average rate of coring - 2 min. 50 sec/ft.

BORING #8E

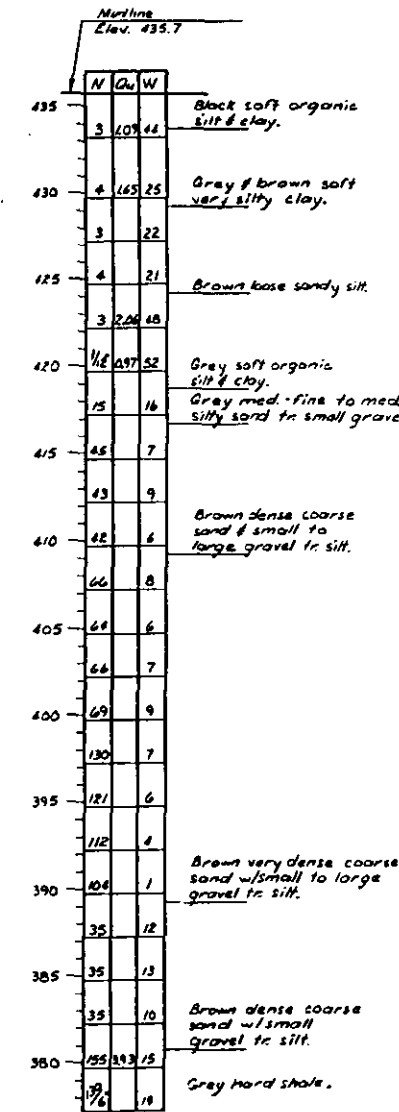


Note: Average rate of coring - 2 min. 45 sec/ft.

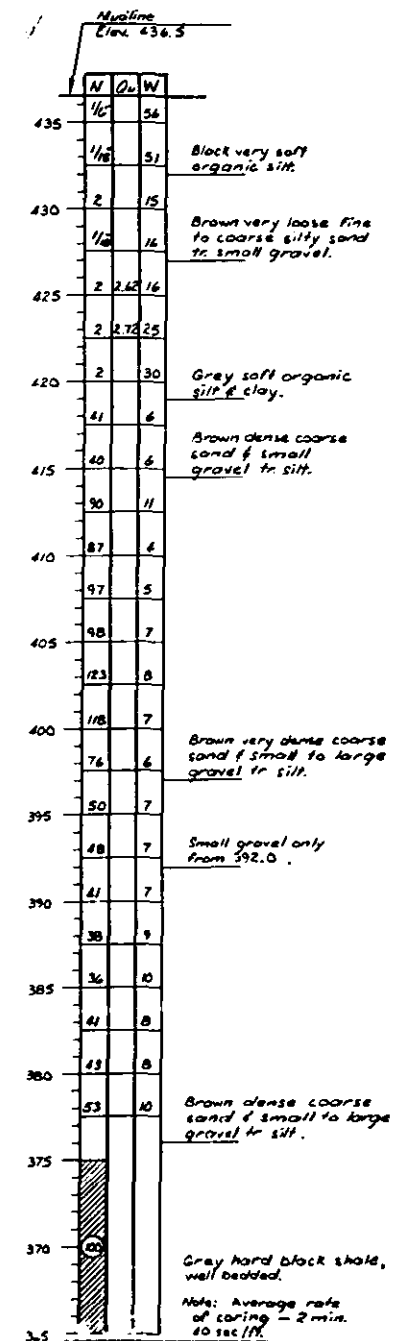
BORING #8



BORING #9E



BORING #9



Note: Average rate of coring - 2 min. 40 sec/ft.

LEGEND:

Indicates Shelby Tube



Indicates Rock Core



A - amount of penetration (in inches).
B - amount recovered (in inches).
C - percent of core recovered

BORING DATA

**M'CLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15 B-2
PEORIA & TAZEWELL COUNTIES**

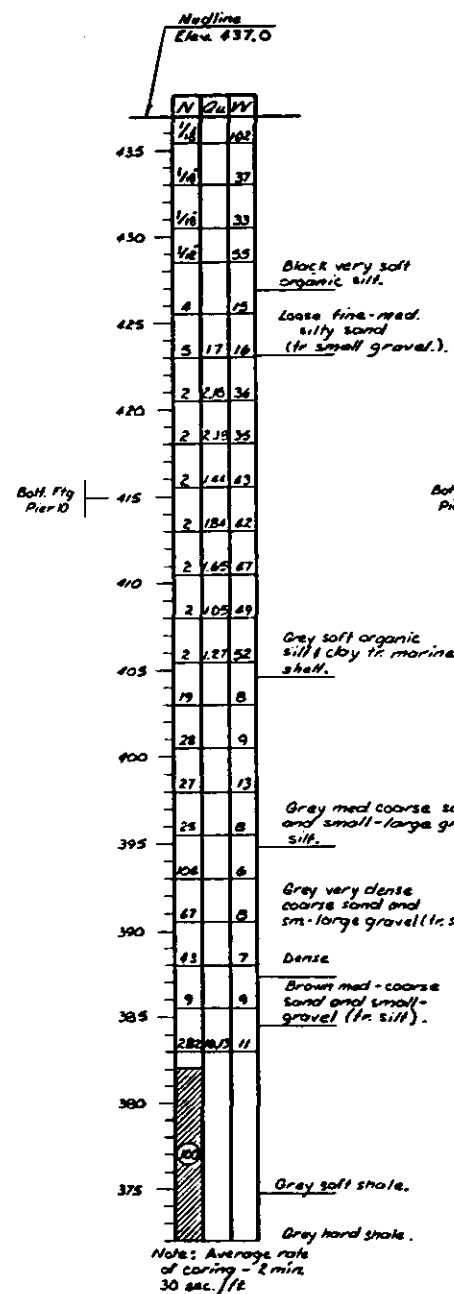


DATE	12-21-1962	FILE NO.	100-2
NO.	56	DATE	49

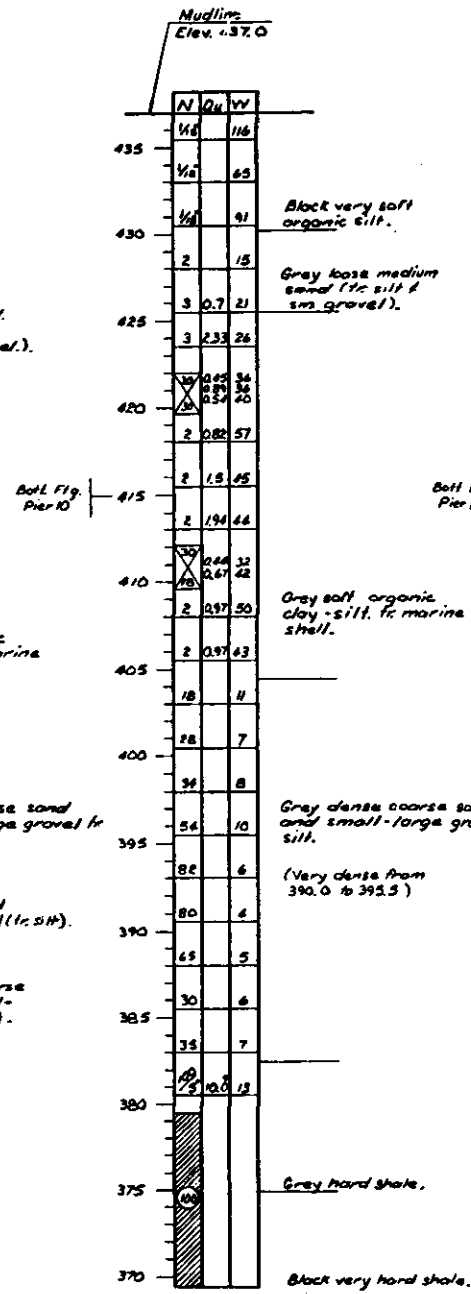
BORING DATA

DATE	NO.	LOC.	DEPTH	FEET	INCHES
FA 31	1582	PEORIA & TAZEWELL	56	50	
NO. AND DATE OF TEST	DATE	PROJECT			

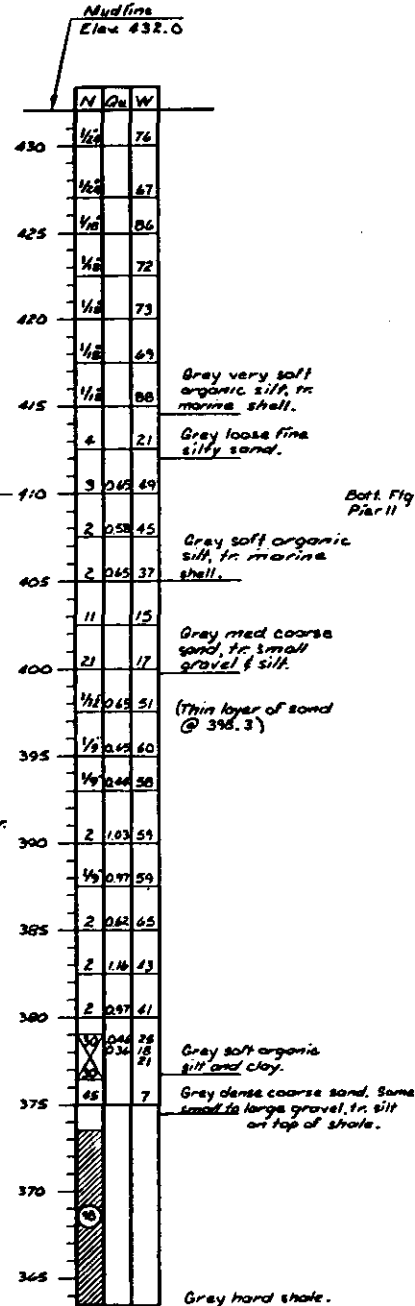
BORING #10A



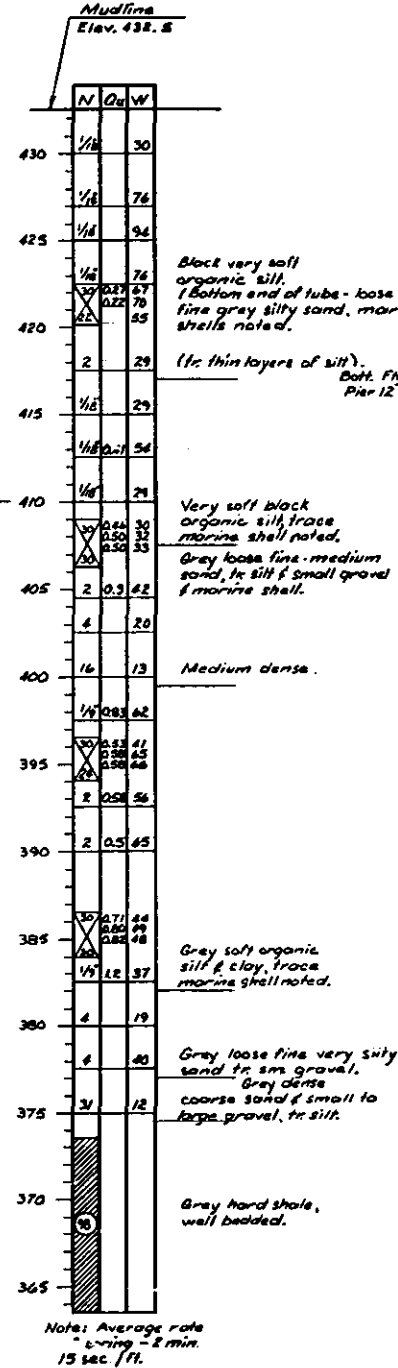
BORING #10B



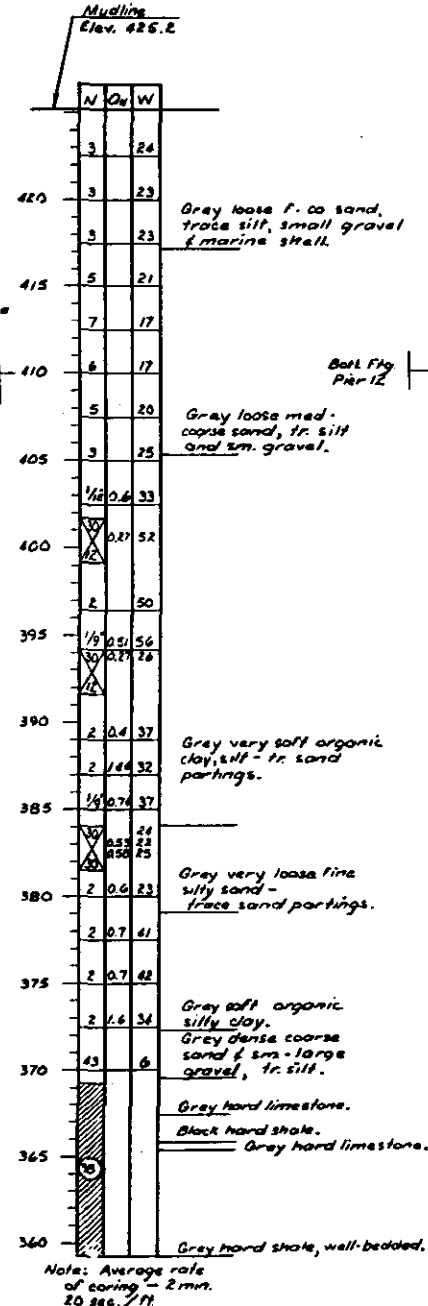
BORING #11A



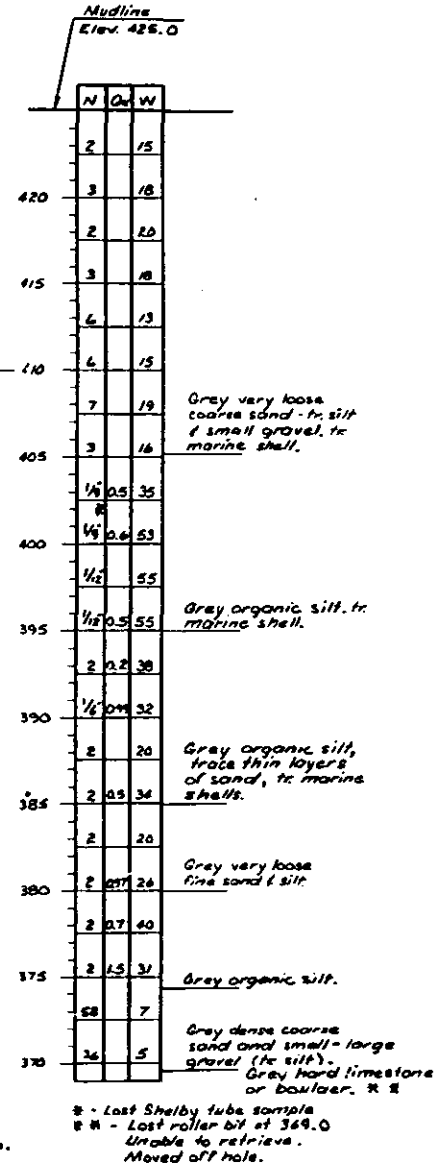
BORING #11B



BORING #12A



BORING #12B



LEGEND:

Indicates Shelby Tube



Indicates Rock Core



A - amount of penetration (in inches).
B - amount recovered (in inches).
C - percent of core recovered.

BORING DATA

M^cCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15 B-2
PEORIA & TAZEWELL COUNTIES



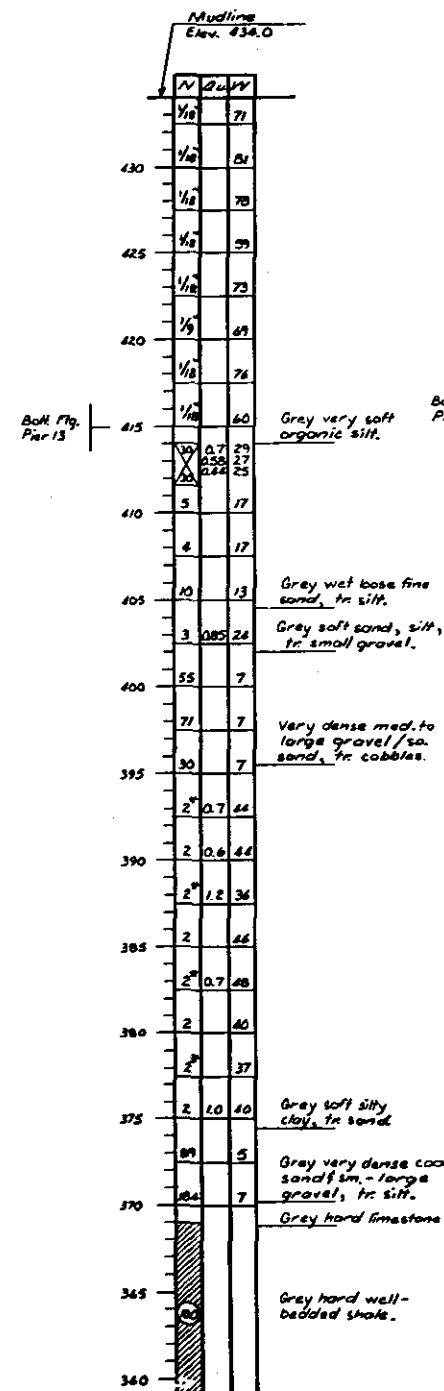
74001

12-31-74

BORING DATA

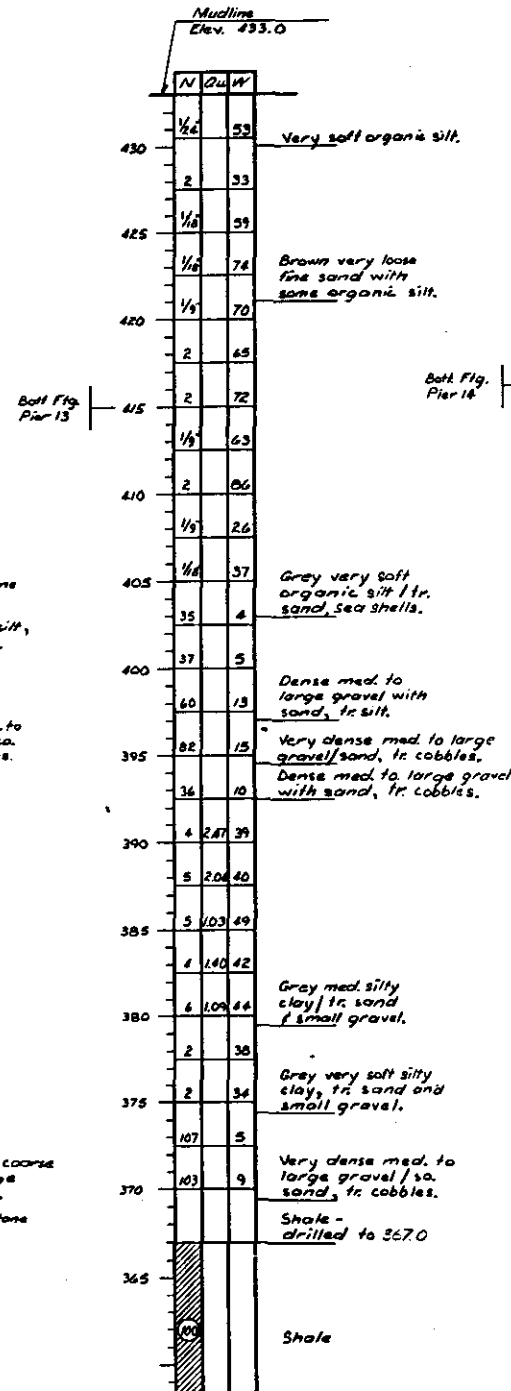
DATE	NO.	PROJECT	SCALE	BY
FA. 31	18B-2	Peoria & Tazewell	55'	ST
FILE NO.	DATE	BY	SCALE	PROJECT

BORING #13A



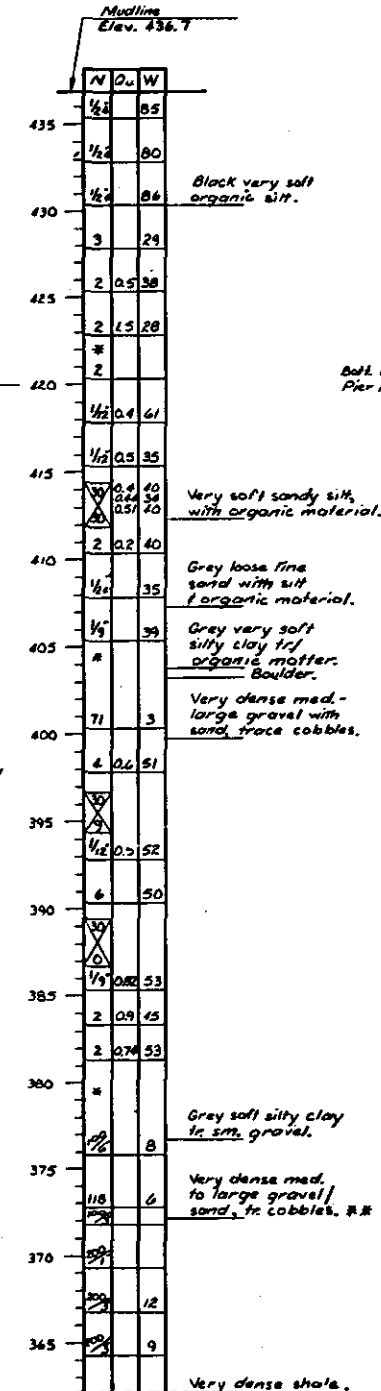
* Indicates last Shelby tube sample
Note: Average rate of coring - 3 min. 25 sec./ft.

BORING #13B



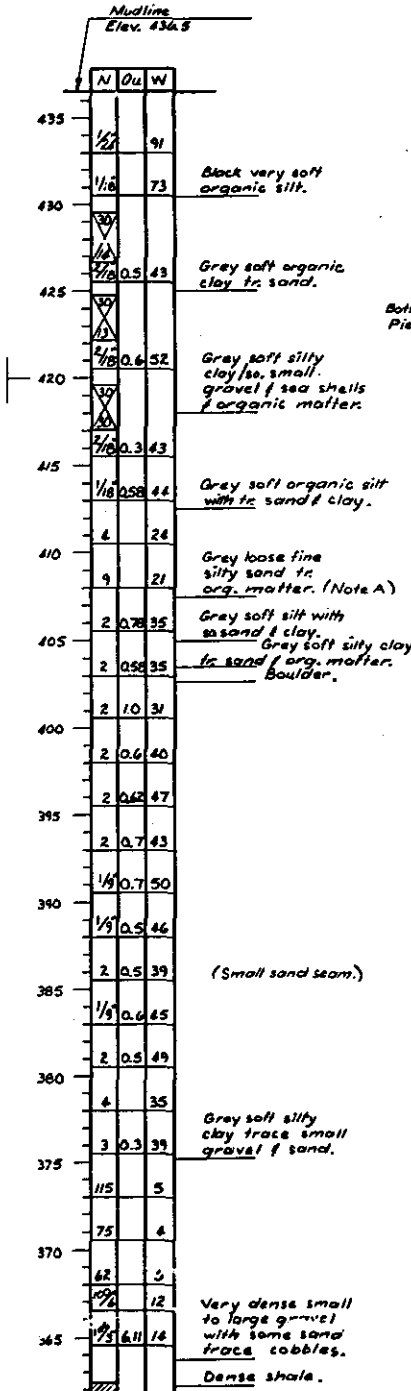
* Indicates last Shelby tube sample
Note: Average rate of coring - 2 min. 30 sec./ft.

BORING #14



* Indicates last Shelby tube sample.
#8 - Very hard 3" cobble at 374.2. Took 1/2 hr to drill through.

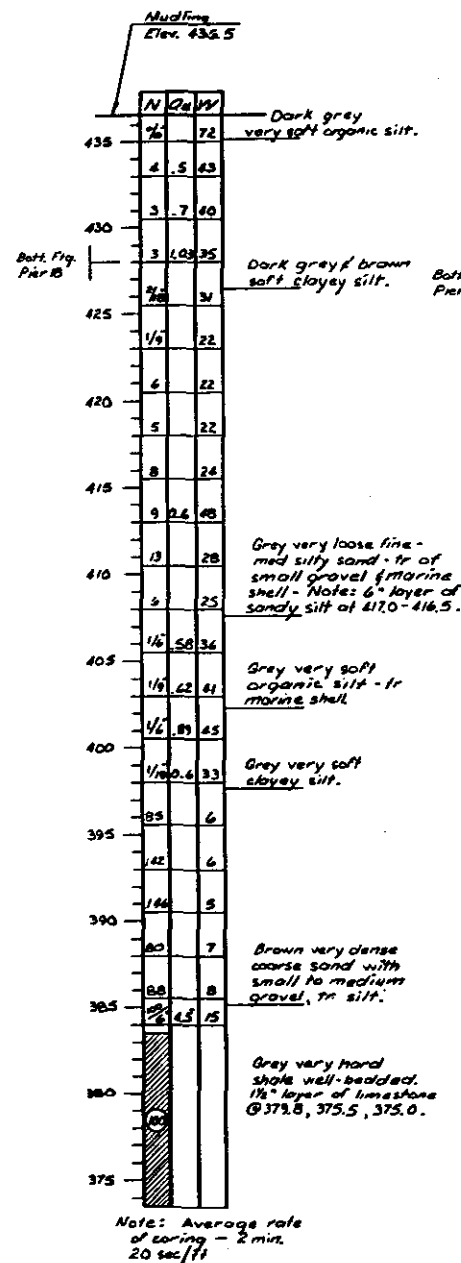
BORING #15



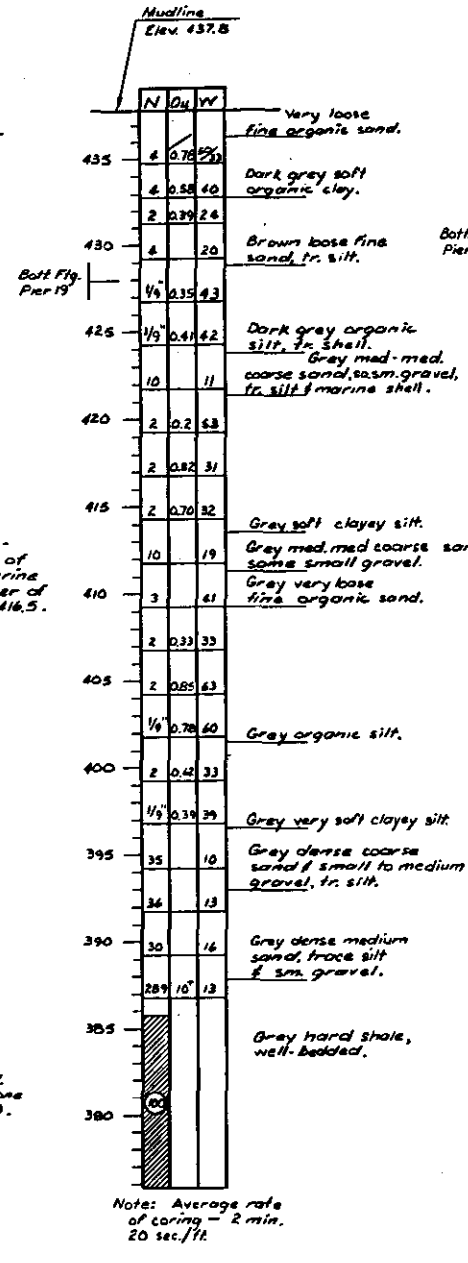
BORING DATA

DATE	NO.	PROJECT	NO.	NO.
F.A. 31	108-2	PEORIA & TAZEWELL	56	52
FILE NO.	NO.	NO.	NO.	NO.

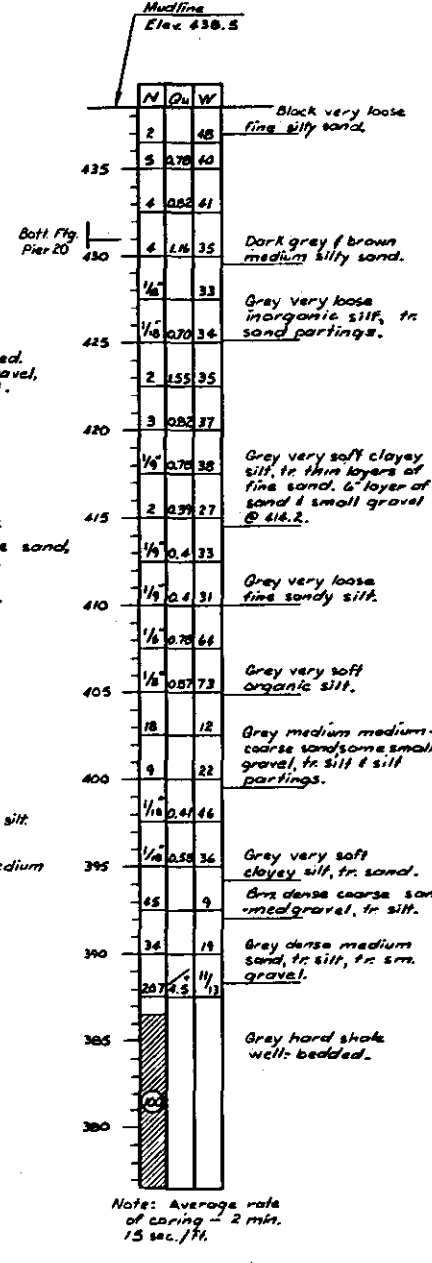
BORING #18



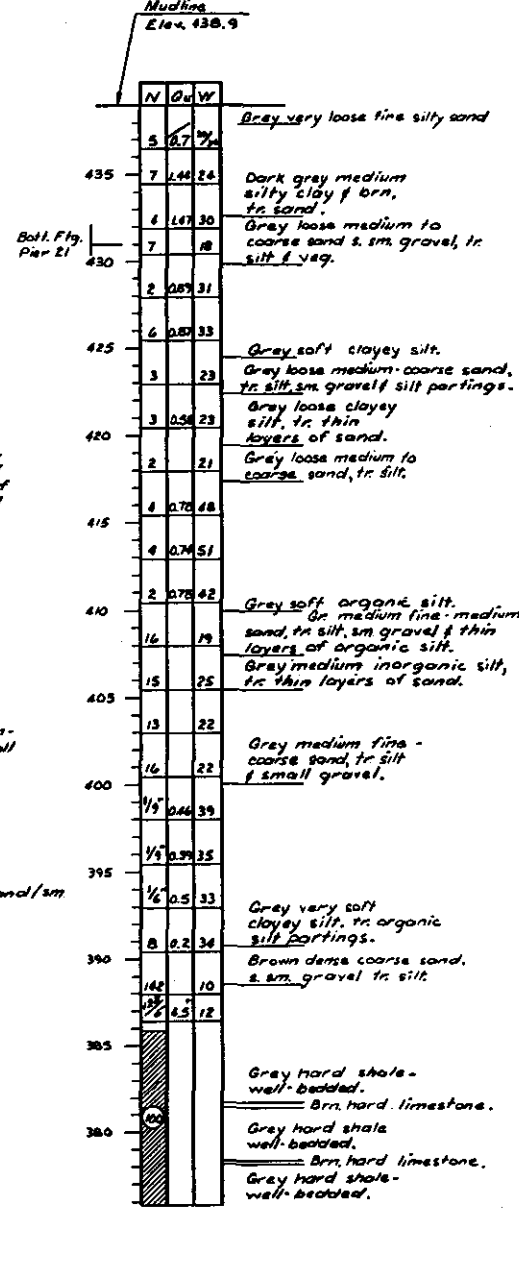
BORING #19



BORING #20



BORING #21



LEGEND:

Indicates Shelby Tube



Indicates Rock Core



A - amount of penetration (in inches).
B - amount recovered (in inches).
C - percent of core recovered.

BORING DATA

M^cCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15 B-2
PEORIA & TAZEWELL COUNTIES



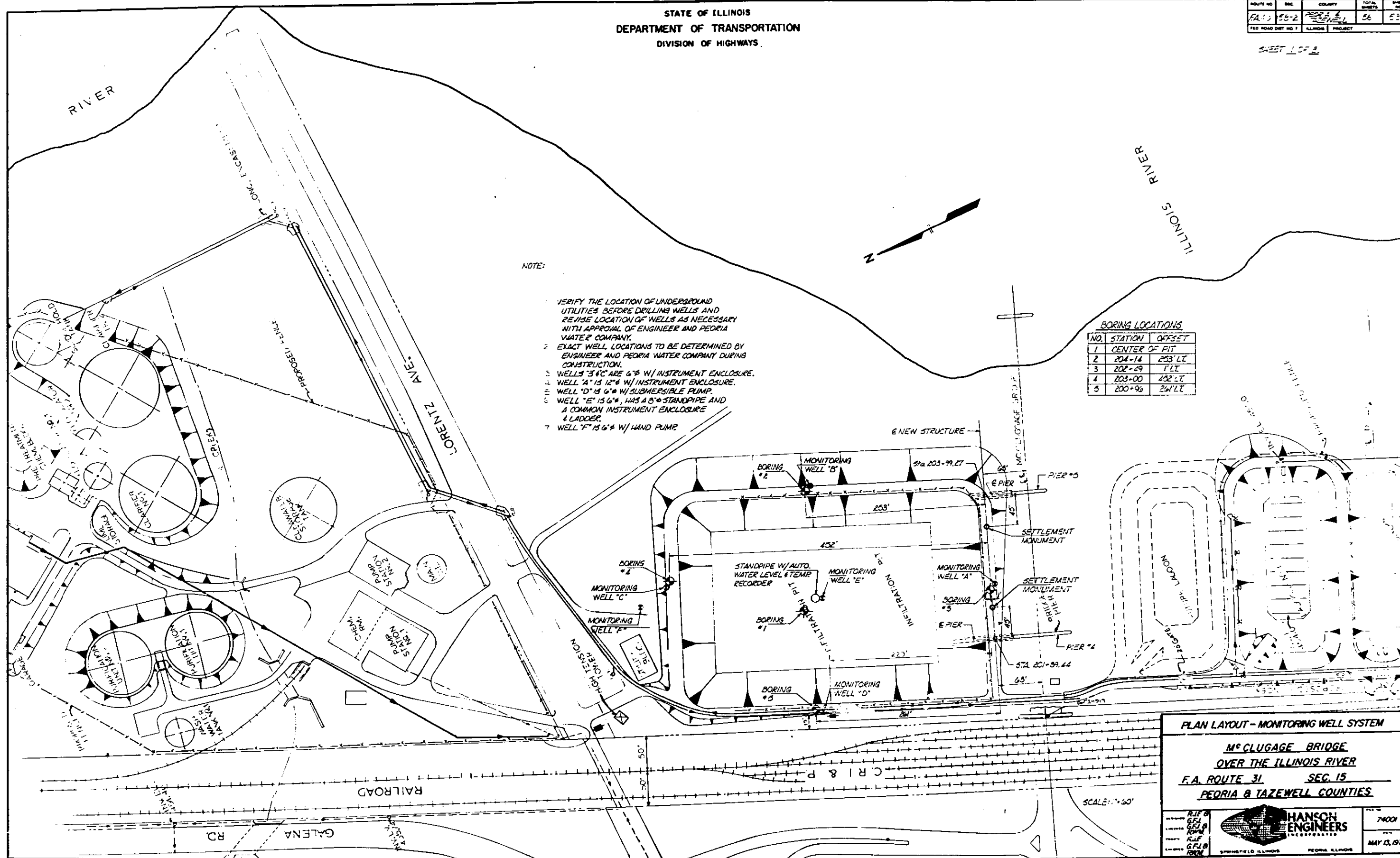
74001

12-31-74

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA 31	58-2	PEORIA & TAZEWELL	56	53
FED. ROAD DIST. NO. 1	ALUMINUM	PROJECT		

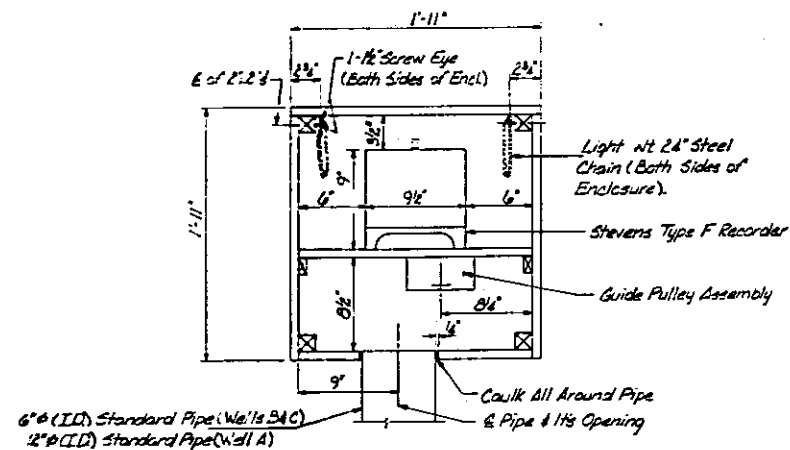
SHEET 1 OF 1



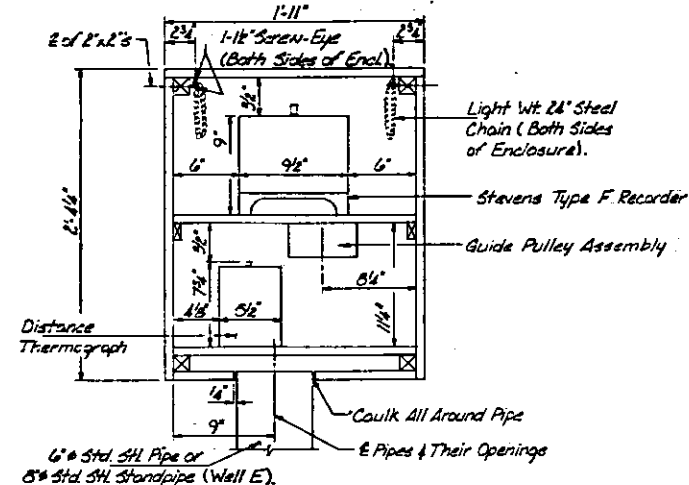
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROUTE NO.	SEC.	COUNTY	FILE NO.	SHEET NO.
FA. 43	15B-2	PEORIA & TAZEWELL	55	54
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

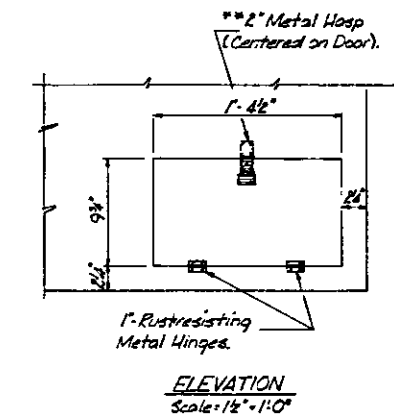
SHEET 2 OF 3



SECTION A-A
Scale: 1/2" = 1'-0"

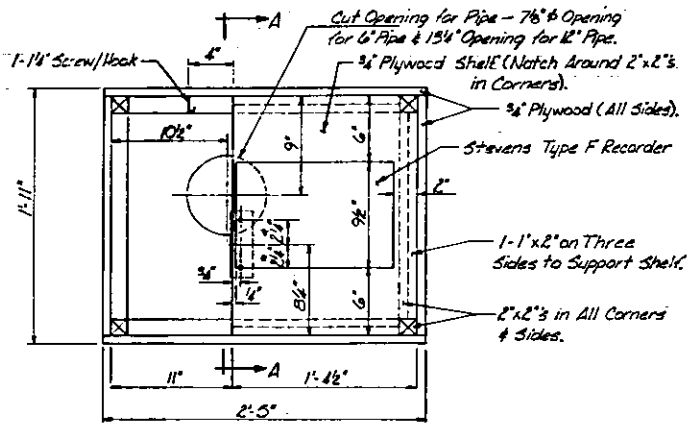


SECTION B-B
Scale: 1/2" = 1'-0"

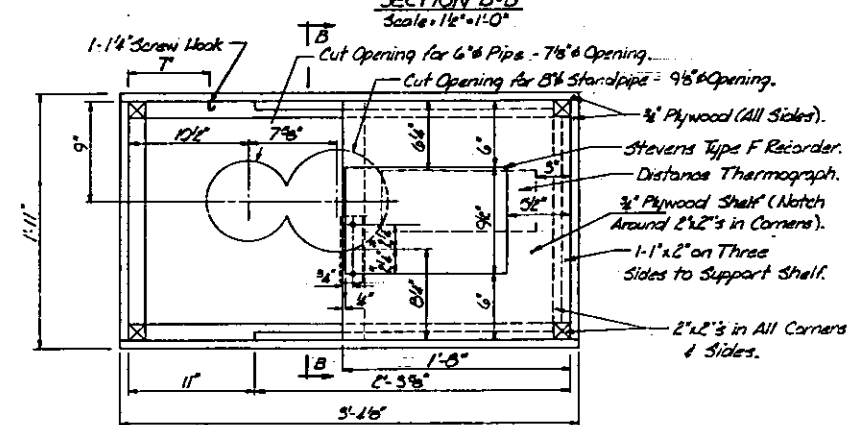


ELEVATION
Scale: 1/2" = 1'-0"

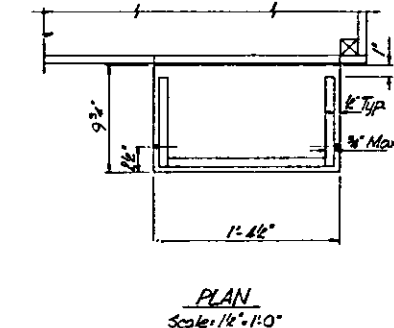
Note:
Door to be on Long Face of Enclosure
at Ladder Location.



PLAN
Scale: 1/2" = 1'-0"

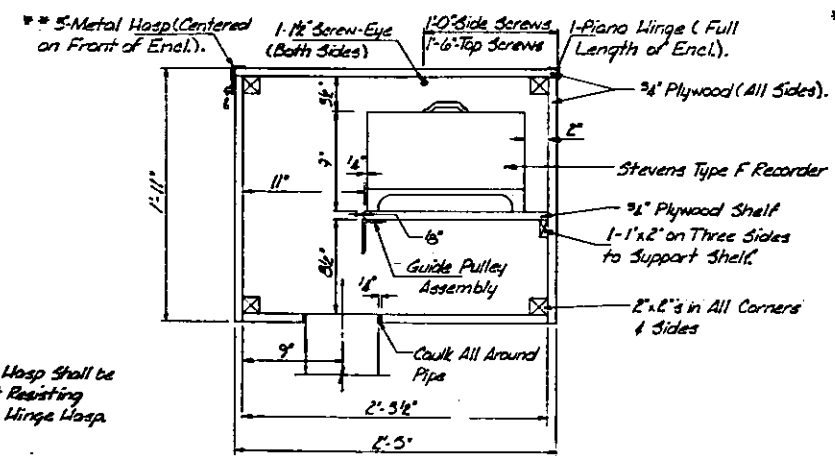


PLAN
Scale: 1/2" = 1'-0"



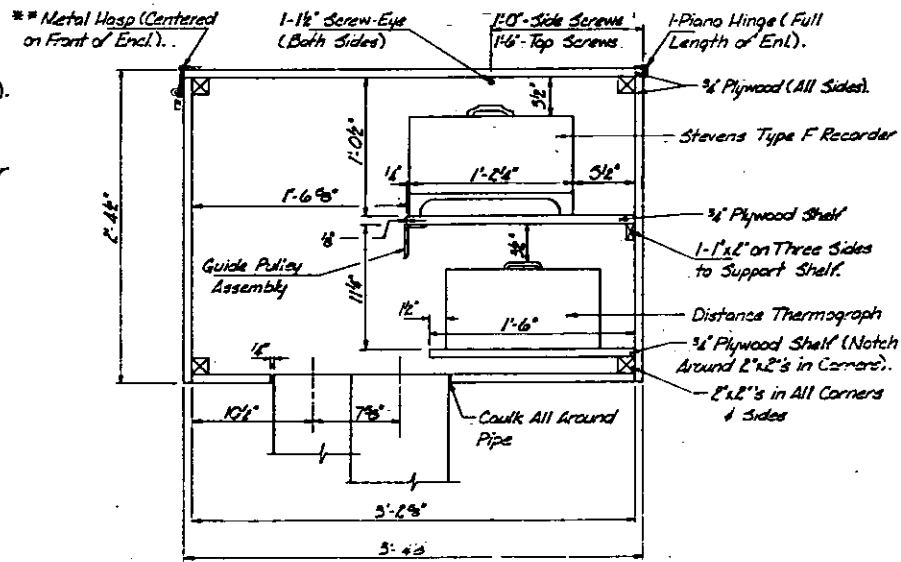
PLAN
Scale: 1/2" = 1'-0"

SIDE ACCESS DOOR
ENCLOSURE FOR WELL "E"



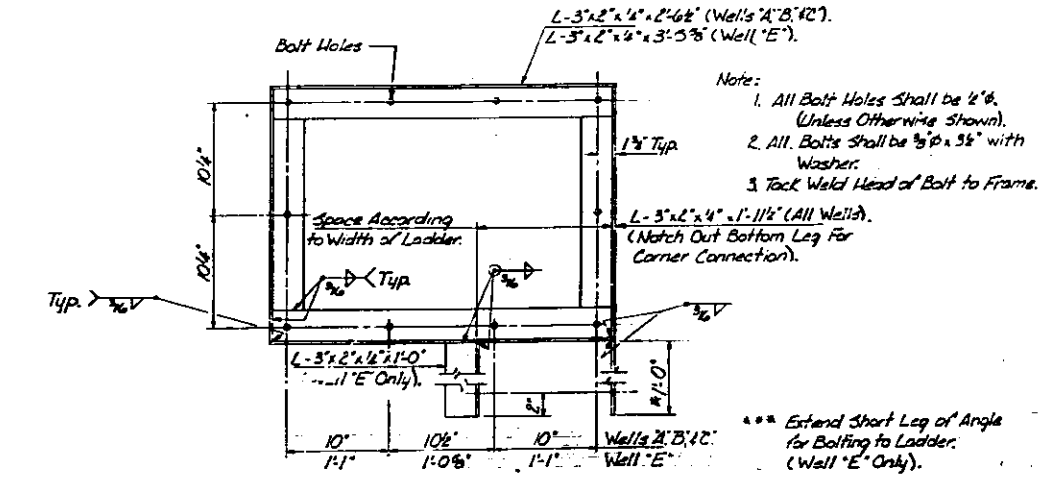
ELEVATION
Scale: 1/2" = 1'-0"

ENCLOSURE FOR WELLS "A", "B", & "C"



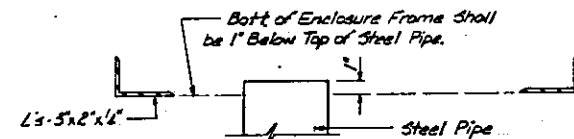
ELEVATION
Scale: 1/2" = 1'-0"

ENCLOSURE FOR WELL "E"



PLAN - ENCL. FRAME
Scale: 1/2" = 1'-0"

WELLS "A", "B", "C", & "E"



PARTIAL ELEVATION - ENCL. FRAME
No Scale

WELLS "A", "B", "C", & "E"

Note for All Enclosures:

1. Plywood is to be an Exterior Grade.
2. All 2" x 2"s are to be Fastened with Water-resistant Glue & 2 1/2" x 3" Galvanized Wood Screws.
3. The Shelves Rest Freely on Their Supporting 1" x 2"s or 2" x 2"s.
4. All 1" x 2"s are to be Fastened with 1 1/2" x 3" Galvanized Wood Screws.
5. Provide Keyed Padlock on All Enclosures (Keys Shall be Given to Engineer).
6. All Enclosures shall be Painted w/ White Exterior Paint & Their Well Letter Stenciled on Each Side w/ Red Exterior Paint.

ENCLOSURES - MONITORING WELL SYSTEM

M^C CLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15
PEORIA & TAZEWELL COUNTIES



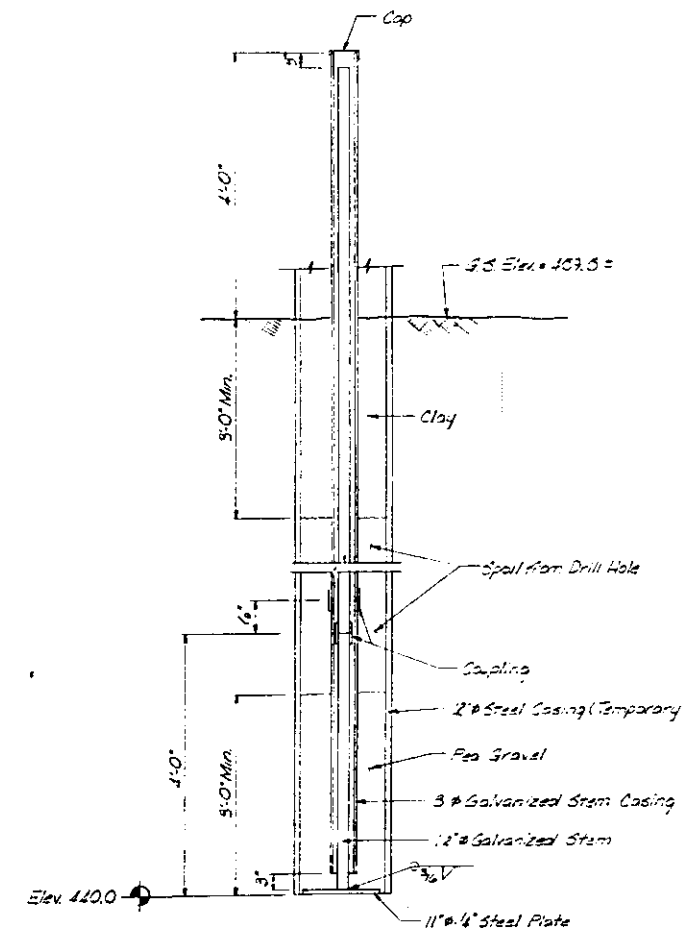
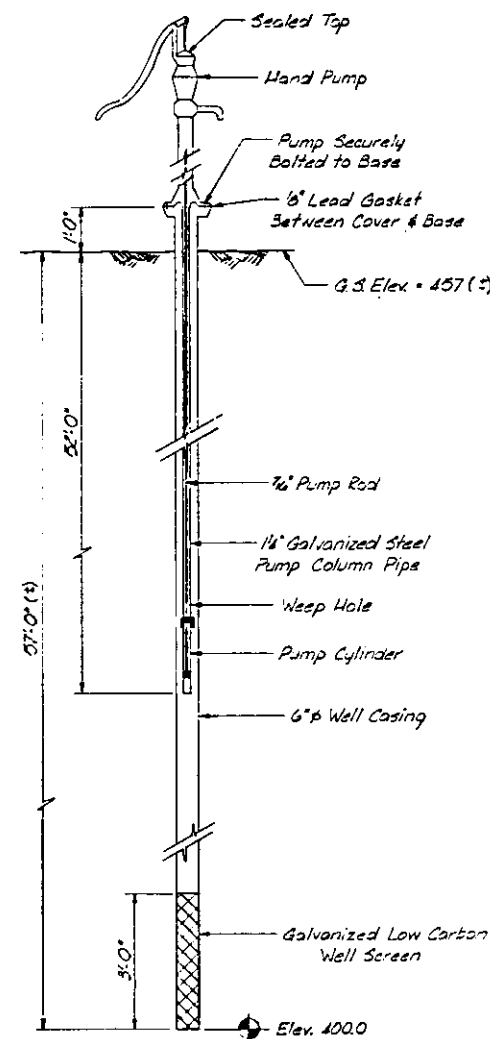
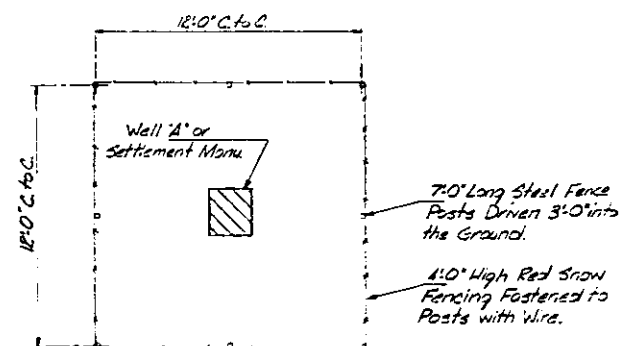
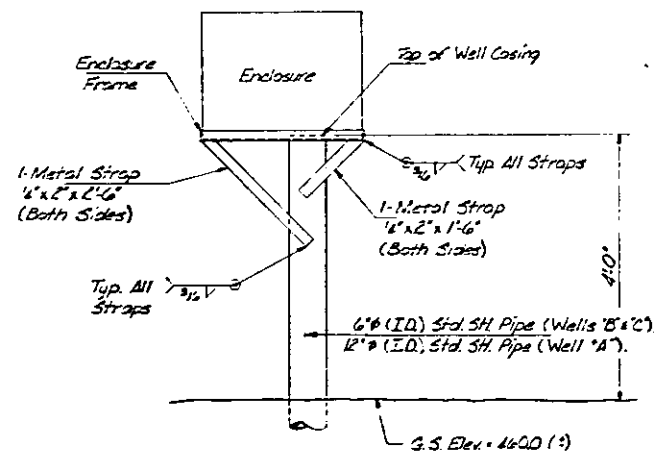
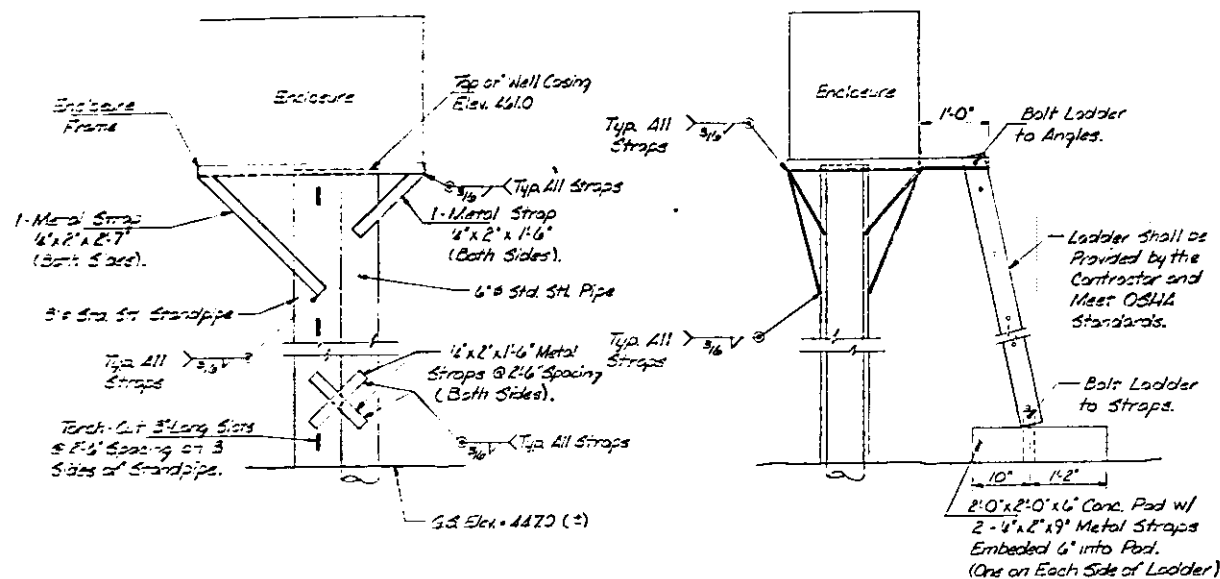
74001
MAY 8, 1977

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROUTE NO.	SEC.	COUNTY	SHEET NO.	SHEET
FA 43	1532	PEORIA & TAZEWELL	56	55
PROJECT NO.	1532	PROJECT		

SHEET 3 OF 3

NOTES:
1. All Sizing shall be 1/2".
2. All Sizing shall be 3/4" x 3/4" Long.



ENCLOSURES, HAND PUMP & SETTLEMENT MONUMENTS

MONITORING WELL SYSTEM

**M^cCLUGAGE BRIDGE
OVER THE ILLINOIS RIVER
F.A. ROUTE 31 SEC. 15
PEORIA & TAZEWELL COUNTIES**

DESIGNED BY R.J.F. G.F.B. R.W.M.	CHECKED BY R.J.F. G.F.B. R.W.M.	DATE MAY 13, 1977
---	--	----------------------

