

SN 041-0007
ORIGINAL CONST.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS

DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

PROJECT NO.	SEC.	COUNTY	DATE	SHEET
F.A.I. 57	41-2	JEFFERSON	54	1

INDEX OF SHEETS

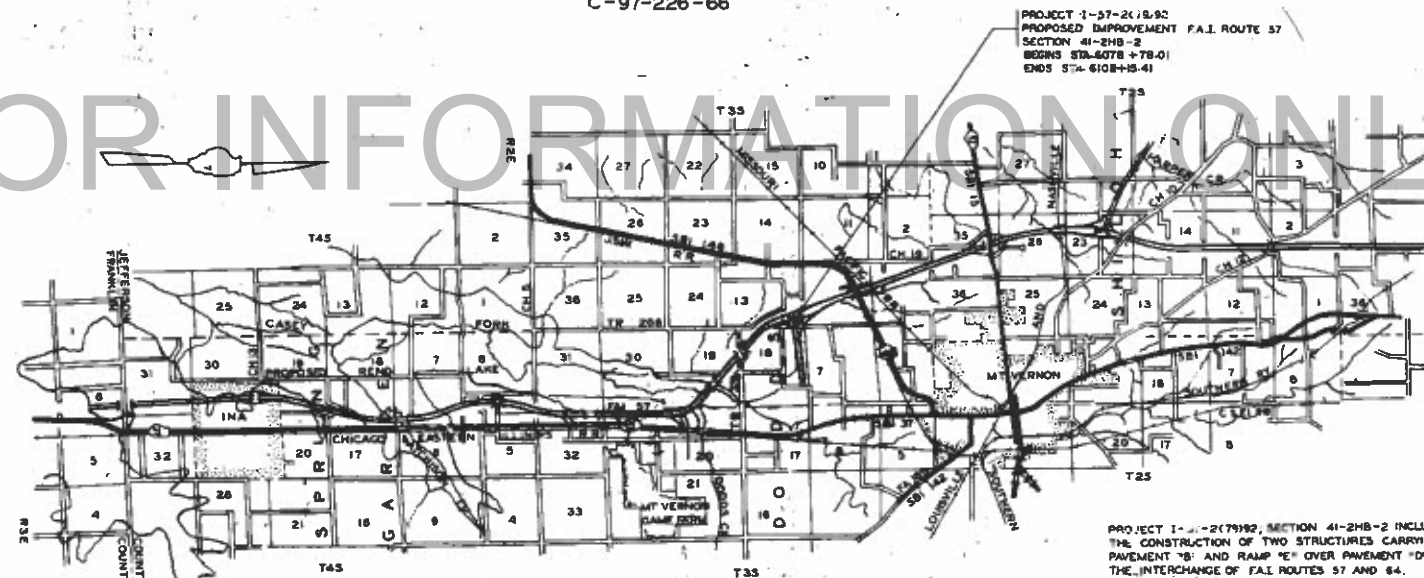
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F.A.I. ROUTE 57
SECTION 41-2HB-2
PROJECT I-57-2(79)92
JEFFERSON COUNTY

C-97-226-66



FOR INFORMATION ONLY



PROJECT I-57-2(79)92
PROPOSED IMPROVEMENT F.A.I. ROUTE 57
SECTION 41-2HB-2
BEGINS STA. 6078+78.01
ENDS STA. 6108+15.41

NOTE SEC. 41-2HB-2 END BRIDGE
FLOOR ALONG & SURVEY
BEGINS AT STA. 6078+78.05
(18E+88.08) ENDS STA.
6108+14.77 (3 STA.
22E+00.00)

PROJECT I-57-2(79)92, SECTION 41-2HB-2 INCLUDES
THE CONSTRUCTION OF TWO STRUCTURES CARRYING
PAVEMENT "B" AND RAMP "E" OVER PAVEMENT "D" AT
THE INTERCHANGE OF F.A.I. ROUTES 57 AND 64.
3-SPAN BRIDGE AT STA. 6088+88.25 (2 ND. LEVEL STRUCTURE)
3-SPAN BRIDGE AT STA. 20E+32.17 (3 RD. LEVEL STRUCTURE)

DESIGN DESIGNATION
3700 (1987) A-1 13.25 P.C.C.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS

APPROVED

DATE

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

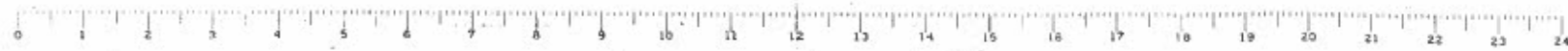
APPROVED

DIVISION ENGINEER

DATE

LAYOUT
APPROXIMATE SCALE

NET LENGTH SECTION 41-2HB-2 = 23740 FEET = 0.45 MILES ("B" PAVEMENT)
= 35.16 FEET = 0.66 MILES (RAMP "E")
NET LENGTH PROJECT I-57-2(79)92 = 23740 FEET = 0.45 MILES



4340

F.A.I. ROUTE 57 SECTION 41-2HB-2 JEFFERSON CO.

PLANS PREPARED BY
DISTRICT 7 DESIGN OFFICE

- EXAMINED October 10, 1966 W. O. Cox
DISTRICT ENGINEER OF DESIGN
- EXAMINED October 31, 1966 R. A. Wente
DISTRICT ENGINEER OF CONSTRUCTION
- EXAMINED October 13, 1966 Harold L. West
DISTRICT ENGINEER OF MAINTENANCE
- EXAMINED October 14, 1966 W. H. Hoeller
DISTRICT ENGINEER OF RESEARCH & PLANNING
- EXAMINED October 14, 1966 Hugh Osborn
DISTRICT ENGINEER OF TRAFFIC
- EXAMINED October 10, 1966 John D. Siller
DISTRICT ENGINEER OF RIGHT OF WAY
- EXAMINED November 2, 1966 W. O. Cox
DISTRICT ENGINEER

SUMMARY OF QUANTITIES

				PROJECT 1-57-210192		
				STA. 6078+78.65	STA. 182+86.06	
				TO	TO	
				STA. 6108+14.77	STA. 222+00.00	
				X 231	X 231	CE 58
CODE NO.	UNIT	CONSTRUCTION TYPE CODE	ITEM	TOTAL QUANTITY		
010001	IN DIA.		TREE REMOVAL (6 TO 15 INCH DIAMETER)	120	60	60
010002	IN DIA.		TREE REMOVAL (OVER 15 INCH DIAMETER)	58	29	29
011001	CU YD.		EARTH EXCAVATION	61,003	2985	73,418
011002	CU YD.		ROCK EXCAVATION	3,588	337	3281
050003	CU YD.		ROCK EXCAVATION FOR STRUCTURES	435	265	170
052003	CU YD.		CLASS X CONCRETE	1278.5	550.9	727.6
052021	SQ YD.		PROTECTIVE COAT	2870	1290	1380
054001	POUND		FURNISHING AND ERECTING STRUCTURAL STEEL	608940	331120	277820
059001	POUND		REINFORCEMENT BARS	232,500	111,360	121,140
080005	LIN. FT.		FURNISHING CROSSTIED PILES 201 TO 38 FEET	256		256
080008	LIN. FT.		DRIVING TIMBER PILES	256		256
080027	LIN. FT.		FURNISHING STEEL PILES 88P36	1075	273	1402
080036	EACH		TEST PILES STEEL 88P36	2	1	1
080037	LIN. FT.		DRIVE STEEL PILES	1675	273	1402
081001	EACH		NAME PLATES	2	1	1
083002	SQ YD.		SLOPE WALL 4 INCH	1620	770	850
200004	LIN. FT.		ALUMINUM HANDRAIL	1002	465	537
Z01023	L. SUM.		BRIDGE SEAT SEALANT	1	0.5	0.5
Z01378	EACH		ENGINEERS FIELD LABORATORY	1		
Z01398	EACH		ENGINEERS FIELD OFFICE, TYPE A	1		
Z01028	LIN. FT.		WOVEN WIRE FENCE	880	430	430

FOR INFORMATION ONLY

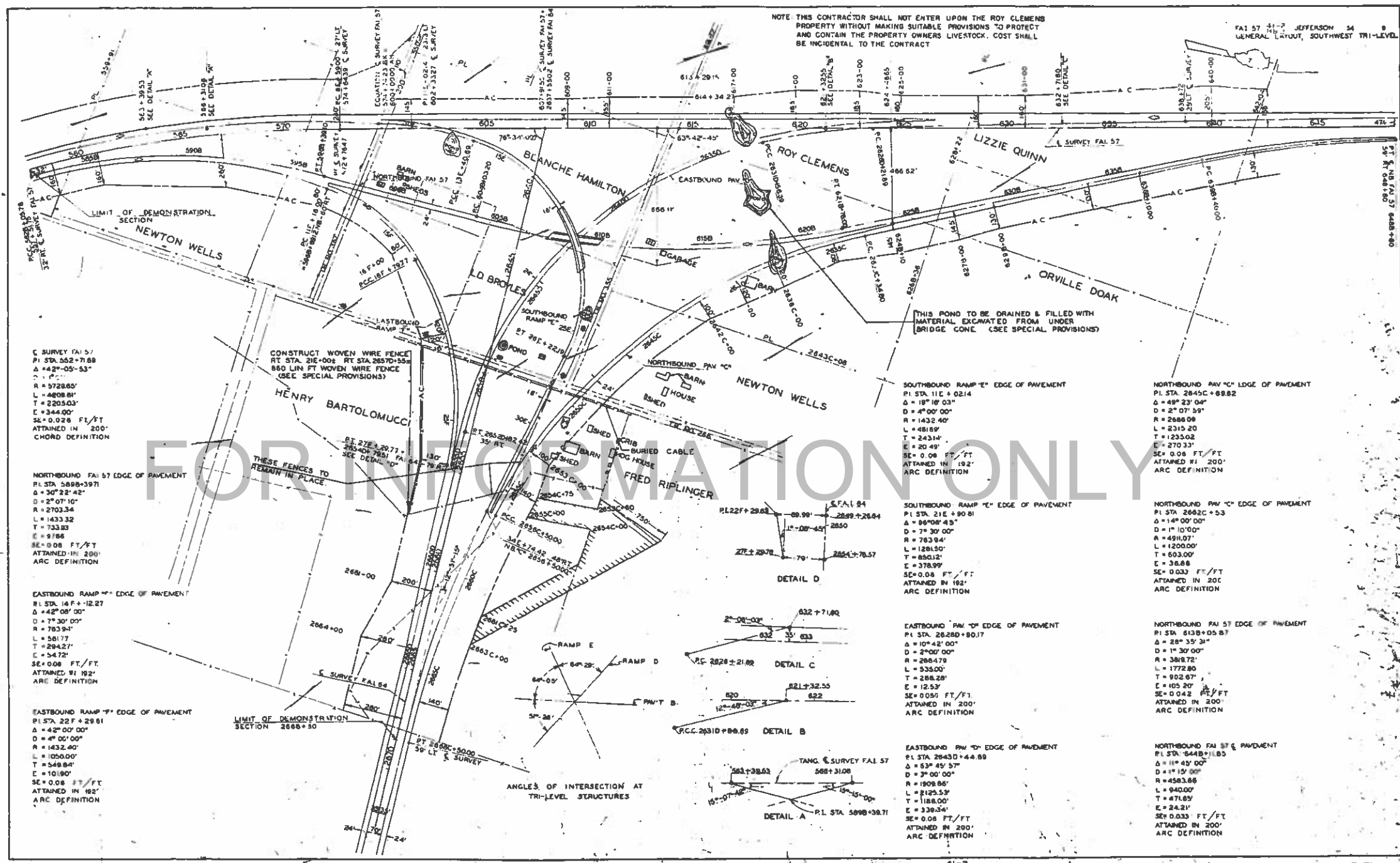
GENERAL NOTES

F.A.I. ROUTE 57 SECTION 41-2HB-2 JEFFERSON CO.
THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 2, 1958; THE SUPPLEMENTAL SPECIFICATIONS, EFFECTIVE JANUARY 3, 1966; AND THE SPEC. PROVISIONS NO PAYMENT WILL BE MADE FOR OVERHAUL ON ANY MATERIAL HAILED FROM ANY SOURCE ON THIS SECTION.
THE WORK INCLUDED IN SECTION 41-2HB-2 CONSISTS OF THE CONSTRUCTION OF TWO BRIDGES CARRYING PAVEMENT "B" AND RAMP "E" OVER PAVEMENT "B" AT THE INTERCHANGE OF F.A.I. ROUTE 57 AND 64. THE SECOND LEVEL STRUCTURE AT STATION 6088+89.25 CONSISTS OF A 3-SPAN STEEL PLATE GIRDER BRIDGE; 1-SPAN AT 62.02, 1-SPAN AT 108.92, AND 1-SPAN AT 62.10; WITH A 40' 8" WIDE ROADWAY. THE THIRD LEVEL STRUCTURE AT STATION 202+32.17 CONSISTS OF A 3-SPAN STEEL PLATE GIRDER BRIDGE; 1-SPAN AT 72.24, 1-SPAN AT 111.19, AND 1-SPAN AT 64.48; WITH A 30' 6" WIDE ROADWAY.
THE EMBANKMENT SHALL BE CONSTRUCTED FROM MATERIAL OBTAINED FROM WITHIN THE R.O.W. ALONG PAVEMENT "D" AS SHOWN ON THE PLANS.
WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
TWO STANDARD 2208-2 CLASS I BARRICADES SHALL BE ERECTED AT LOCATIONS SHOWN ON SHEET NO. 7. UPON COMPLETION OF THIS CONTRACT THESE BARRICADES SHALL REMAIN IN PLACE AND BECOME THE PROPERTY OF THE STATE. THE COST OF THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
ONE (1) SIGN CONFORMING TO STANDARD 2153-5 SHALL BE ERECTED AS DIRECTED BY THE ENGINEER.

CLASS X CONCRETE SCHEDULE

STATION	CLASS X CONCRETE CU YDS.	REINFORCEMENT BARS POUNDS	STRUCTURAL STEEL POUNDS
6088+89.25	550.9	111,360	331,120
202+32.17	727.6	121,140	277,820
TOTAL	1278.5	232,500	608,940





NOTE THIS CONTRACTOR SHALL NOT ENTER UPON THE ROY CLEMENS PROPERTY WITHOUT MAKING SUITABLE PROVISIONS TO PROTECT AND CONTAIN THE PROPERTY OWNERS LIVESTOCK. COST SHALL BE INCIDENTAL TO THE CONTRACT.

C SURVEY FAI 57
 PI STA. 552+71.89
 $\Delta = 42^{\circ}05'53''$
 $D = 4^{\circ}00'00''$
 $R = 5728.65'$
 $L = 4808.81'$
 $T = 2205.03'$
 $E = 344.00'$
 $SE = 0.028 \text{ FT/FT}$
 ATTAINED IN 200'
 ARC DEFINITION

NORTHBOUND FAI 57 EDGE OF PAVEMENT
 PI STA. 5898+3971
 $\Delta = 30^{\circ}32'42''$
 $D = 2^{\circ}07'10''$
 $R = 2703.34'$
 $L = 1433.32'$
 $T = 733.83'$
 $E = 9.168'$
 $SE = 0.08 \text{ FT/FT}$
 ATTAINED IN 200'
 ARC DEFINITION

EASTBOUND RAMP "E" EDGE OF PAVEMENT
 PI STA. 14 F + 12.27
 $\Delta = 42^{\circ}08'00''$
 $D = 7^{\circ}30'00''$
 $R = 783.94'$
 $L = 581.77'$
 $T = 294.27'$
 $E = 54.72'$
 $SE = 0.08 \text{ FT/FT}$
 ATTAINED IN 192'
 ARC DEFINITION

EASTBOUND RAMP "F" EDGE OF PAVEMENT
 PI STA. 22 F + 29.61
 $\Delta = 42^{\circ}00'00''$
 $D = 4^{\circ}00'00''$
 $R = 1432.40'$
 $L = 1050.00'$
 $T = 548.84'$
 $E = 101.80'$
 $SE = 0.08 \text{ FT/FT}$
 ATTAINED IN 192'
 ARC DEFINITION

SOUTHBOUND RAMP "E" EDGE OF PAVEMENT
 PI STA. 11 E + 02.14
 $\Delta = 18^{\circ}18'03''$
 $D = 4^{\circ}00'00''$
 $R = 1432.40'$
 $L = 481.89'$
 $T = 243.14'$
 $E = 20.49'$
 $SE = 0.08 \text{ FT/FT}$
 ATTAINED IN 192'
 ARC DEFINITION

NORTHBOUND PAV "C" EDGE OF PAVEMENT
 PI STA. 2845C + 69.82
 $\Delta = 49^{\circ}23'04''$
 $D = 2^{\circ}07'59''$
 $R = 2888.08'$
 $L = 2319.20'$
 $T = 1235.02'$
 $E = 270.33'$
 $SE = 0.08 \text{ FT/FT}$
 ATTAINED IN 200'
 ARC DEFINITION

SOUTHBOUND RAMP "C" EDGE OF PAVEMENT
 PI STA. 21 E + 90.81
 $\Delta = 89^{\circ}04'43''$
 $D = 7^{\circ}30'00''$
 $R = 783.94'$
 $L = 1281.50'$
 $T = 850.12'$
 $E = 378.99'$
 $SE = 0.08 \text{ FT/FT}$
 ATTAINED IN 192'
 ARC DEFINITION

NORTHBOUND PAV "C" EDGE OF PAVEMENT
 PI STA. 2682C + 53
 $\Delta = 14^{\circ}00'00''$
 $D = 1^{\circ}10'00''$
 $R = 491.07'$
 $L = 250.00'$
 $T = 603.00'$
 $E = 38.88'$
 $SE = 0.03 \text{ FT/FT}$
 ATTAINED IN 200'
 ARC DEFINITION

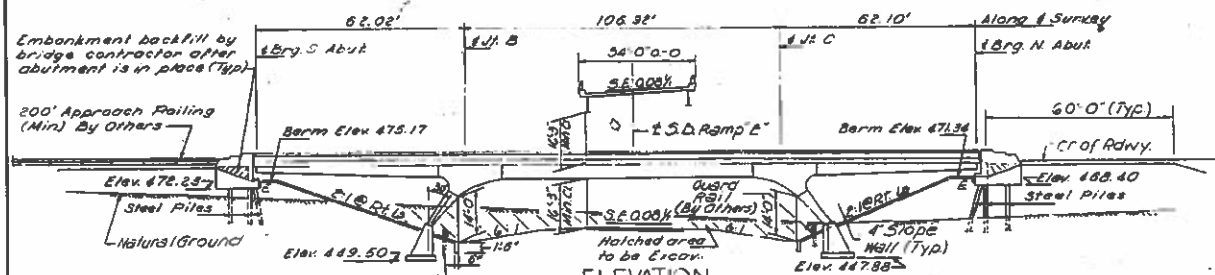
EASTBOUND PAV "D" EDGE OF PAVEMENT
 PI STA. 2628D + 80.17
 $\Delta = 10^{\circ}42'00''$
 $D = 2^{\circ}00'00''$
 $R = 2884.79'$
 $L = 535.00'$
 $T = 288.28'$
 $E = 12.53'$
 $SE = 0.05 \text{ FT/FT}$
 ATTAINED IN 200'
 ARC DEFINITION

NORTHBOUND FAI 57 EDGE OF PAVEMENT
 PI STA. 613B + 05.87
 $\Delta = 28^{\circ}35'31''$
 $D = 1^{\circ}30'00''$
 $R = 3818.72'$
 $L = 1772.80'$
 $T = 902.67'$
 $E = 105.20'$
 $SE = 0.042 \text{ FT/FT}$
 ATTAINED IN 200'
 ARC DEFINITION

EASTBOUND PAV "D" EDGE OF PAVEMENT
 PI STA. 2843D + 44.89
 $\Delta = 53^{\circ}45'57''$
 $D = 3^{\circ}00'00''$
 $R = 1908.86'$
 $L = 1125.53'$
 $T = 1188.00'$
 $E = 339.34'$
 $SE = 0.08 \text{ FT/FT}$
 ATTAINED IN 200'
 ARC DEFINITION

NORTHBOUND FAI 57 EDGE OF PAVEMENT
 PI STA. 644B + 11.85
 $\Delta = 11^{\circ}45'00''$
 $D = 1^{\circ}19'00''$
 $R = 4583.88'$
 $L = 940.00'$
 $T = 871.89'$
 $E = 24.21'$
 $SE = 0.03 \text{ FT/FT}$
 ATTAINED IN 200'
 ARC DEFINITION





STATION 6088+39.25
BUILT 196 BY
STATE OF ILLINOIS
F.A.I. RT. 57 SEC. 41-2NB-2
F.A. PROJ. I-57-E (79)
LOADING HS 20' A.L.T.

NAME PLATE
(See 51d 2113-0)

1.66%
SB Incr.
Sta. 6070+05.00
Elev. 481.70

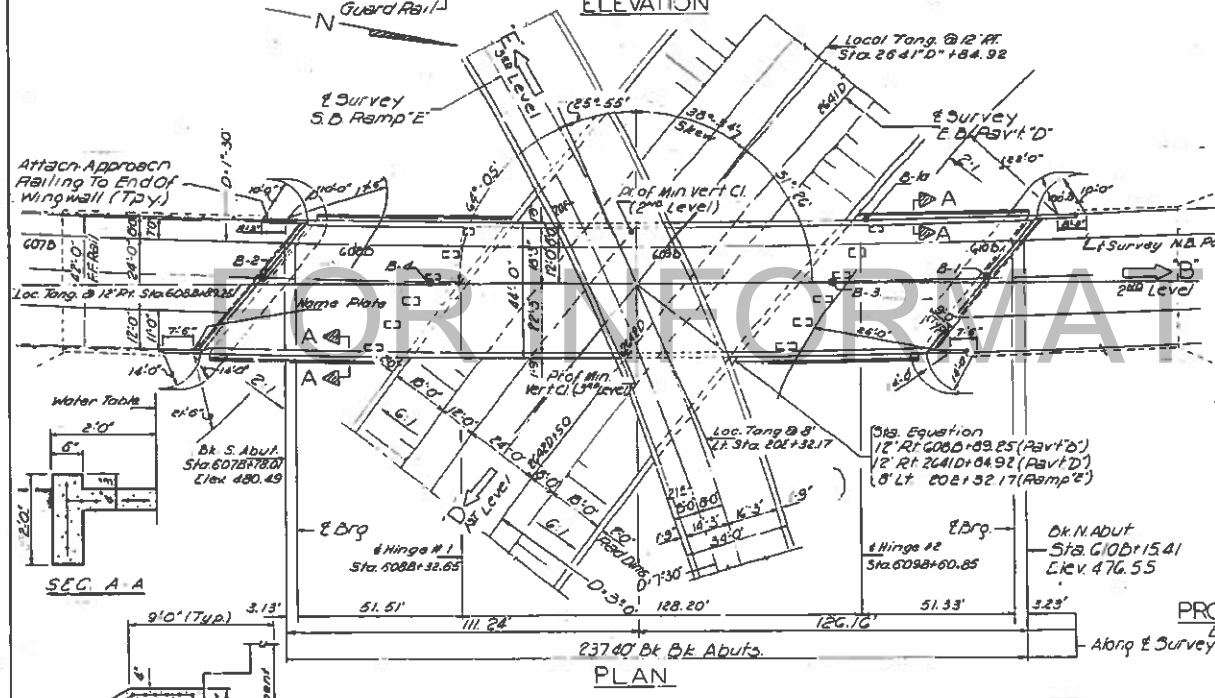
PROFILE ALONG N.B.'B' FAI 57
Edge of Pavt. Elev. - Survey Line

0.32%
SB Incr.
Sta. 6040+00.00
Elev. 455.81

PROFILE ALONG E.B. PAVT'D
Edge of Pavt. Elev. - Survey Line

3.80%
VC 1200
Sta. 6098+50.00
Elev. 510.70

PROFILE ALONG SB RAMP 'E'
Edge of Pavt. Elev. - Survey Line



PLAN

SEC. THRU ABUT

DESIGNED <i>W. H. King</i>	EXAMINED <i>W. H. King</i>
CHECKED <i>Gene McCormick</i>	PASSED <i>W. H. King</i>
DRAWN <i>J. Hessler</i>	APPROVED <i>W. H. King</i>
CHECKED <i>Gene McCormick</i>	

DATE 9/18/66

DESIGNED *W. H. King*

EXAMINED *W. H. King*

CHECKED *Gene McCormick*

DRAWN *J. Hessler*

CHECKED *Gene McCormick*

CURVE DATA

SOUTH BOUND RAMP 'E'	EAST BOUND PAVT 'D'	NORTH BOUND FAI 57 PAVT 'D'
P.I. Sta. 212+90.01	P.I. Sta. 264+30+44.99	P.I. Sta. 6135+05.87
A = 92° 06' 45"	A = 63° 45' 57"	A = 26° 35' 31"
D = 7° 30' 00"	D = 3° 00' 00"	D = 1° 30' 00"
R = 768.94'	R = 1909.86'	R = 3819.72'
L = 1251.50'	L = 2125.53'	L = 1772.80'
T = 850.12'	T = 1188.00'	T = 902.67'
E = 378.99'	E = 339.34'	E = 105.20'
SE = 0.08%	SE = 0.08%	SE = 0.042%

DESIGN STRESSES

fc = 1400 psi. Super/Sub.
fc = 75 psi. Ftgs.
fs = 20000 psi. Reinf.
fs = 20000 psi. Struct. (A-36)
n = 10
Max. Fly. Pressure = 5.2 E.S.F.
LOADING HS20-44 & A.L.T.

GENERAL NOTES

Coarse aggregate to be used in parapet handrails and end post must be free of chert, flint, limonite, lignite and soft sandstone.

The concrete floor slab shall be finished in accordance with Art 5.119 of the Std. Specs.

Slope Wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 Sq. Ft.

All structural steel shall conform to A.S.T.M. Designation A-36.

All welding shall conform to the current specifications for Welded Highway and Railway Bridges of the American Welding Society.

Anchor bolts shall be set before bolting diaphragms over supports.

Exposed surfaces of the expansion devices inaccessible after erection, shall receive two shop coats of red lead paint. All other surfaces shall be given one shop coat of red lead paint. Anchor studs shall not be painted.

Expansion devices are included in the quantity of structural steel. Est. Wt. 2880 lbs.

Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Art 56.1 to 56.5 inclusive of the Standard Specifications.

The contractor shall drive 1 Steel test pile at the North abutment, in a permanent location, as directed by the engineer before ordering the remainder of piles.

Excavation for portions of structures in the embankments shall not be classified.

Permanent forms will not be permitted in forming the concrete floor.

All steel piles shall be driven to refusal.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Rock Excav. for Structures	Cu. Yds.		265	265
Class X Concrete	Cu. Yds.	286.4	266.5	552.9
Structural Steel	Lbs.	53180		53180
Aluminum Handrail	Lin. Ft.	485		485
Reinforcement Bars	Lbs.	90180	21230	111410
Steel Piles (8BP36)	Lin. Ft.		273	273
Test Piles Steel (8BP36)	Each		1	1
Name Plates	Each		1	1
Slope Wall (4')	Sq. Yds.		770	770
Protective Coat	Sq. Yds.	1290		1290
Bridge Seat Sealant	L.S.		0.5	0.5

* Includes excavation for slope walls
** Includes applications on inside vertical face, top & exposed end of the abut wings
*** At Abut only.



GENERAL PLANS ELEVATION
2ND LEVEL STRUCTURE
DRAWN: 5/18/66
F.A.I. RT. 57 SEC. 41-2NB-2
JEFFERSON COUNTY
STATION 6088+39.25 (PAVT 'D')

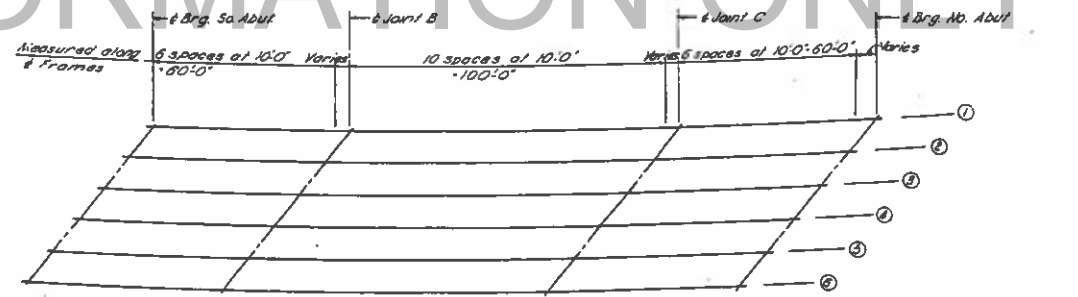
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SHEET NO 2
13 SHEETS

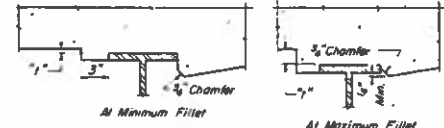
Frame 1				Frame 2				Frame 3				Frame 4				Frame 5			
Location	Station	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
# Brg. So. Abut	60780.00	480.124	480.194	# Brg. So. Abut	60779.234	480.512	480.572	# Brg. So. Abut	60773.13	480.282	480.382	# Brg. So. Abut	60761.001	481.401	481.406	# Brg. So. Abut	60761.116	481.101	481.101
	60780.05	479.958	479.958		60779.248	480.406	480.416		60773.143	480.324	480.334		60761.05	481.351	481.351		60761.166	481.051	481.051
	60780.10	479.792	479.792		60779.262	480.240	480.250		60773.157	480.248	480.258		60761.10	481.201	481.201		60761.221	480.901	480.901
	60780.15	479.626	479.626		60779.276	480.074	480.084		60773.171	480.156	480.166		60761.15	481.051	481.051		60761.276	480.751	480.751
	60780.20	479.460	479.460		60779.290	479.908	479.918		60773.185	480.020	480.030		60761.20	480.901	480.901		60761.331	480.601	480.601
# Jt. B	60817.104	478.122	478.122	# Jt. B	60811.215	479.243	479.243	# Jt. B	60805.276	479.264	479.264	# Jt. B	60803.211	480.384	480.384	# Jt. B	60803.422	480.803	480.803
	60817.118	478.256	478.256		60811.229	479.377	479.377		60805.290	479.398	479.398		60803.225	480.239	480.239		60803.436	480.639	480.639
	60817.132	478.390	478.390		60811.243	479.511	479.511		60805.304	479.529	479.529		60803.239	480.081	480.081		60803.450	480.481	480.481
	60817.146	478.524	478.524		60811.257	479.645	479.645		60805.318	479.641	479.641		60803.253	480.323	480.323		60803.464	480.323	480.323
	60817.160	478.658	478.658		60811.271	479.779	479.779		60805.332	479.737	479.737		60803.267	479.770	479.770		60803.478	479.164	479.164
# Jt. C	60964.284	477.127	477.127	# Jt. C	60948.018	477.770	477.770	# Jt. C	60941.732	478.197	478.197	# Jt. C	60935.478	478.623	478.623	# Jt. C	60929.257	479.048	479.048
	60964.298	477.261	477.261		60948.032	477.904	477.904		60941.746	478.331	478.331		60935.492	478.469	478.469		60929.271	478.889	478.889
	60964.312	477.395	477.395		60948.046	478.038	478.038		60941.760	478.467	478.467		60935.506	478.290	478.290		60929.285	478.718	478.718
	60964.326	477.529	477.529		60948.060	478.172	478.172		60941.774	478.585	478.585		60935.520	477.631	477.631		60929.300	478.547	478.547
	60964.340	477.663	477.663		60948.074	478.306	478.306		60941.788	478.703	478.703		60935.534	477.472	477.472		60929.314	478.376	478.376
# Brg. No. Abut	61018.593	476.310	476.310	# Brg. No. Abut	61010.080	476.741	476.741	# Brg. No. Abut	61003.562	477.170	477.170	# Brg. No. Abut	60997.055	477.600	477.600	# Brg. No. Abut	60990.541	478.028	478.028

Frame 6			
Location	Station	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
# Brg. So. Abut	60756.464	482.238	482.238
	60756.478	482.074	482.074
	60756.492	481.910	481.910
	60756.506	481.746	481.746
	60756.520	481.582	481.582
# Jt. B	60817.630	481.223	481.223
	60817.644	481.059	481.059
	60817.658	479.895	479.895
	60817.672	479.731	479.731
	60817.686	479.567	479.567
# Jt. C	60923.070	479.473	479.473
	60923.084	479.309	479.309
	60923.098	479.145	479.145
	60923.112	478.981	478.981
	60923.126	478.817	478.817
# Brg. No. Abut	60984.278	478.456	478.456

FOR INFORMATION ONLY

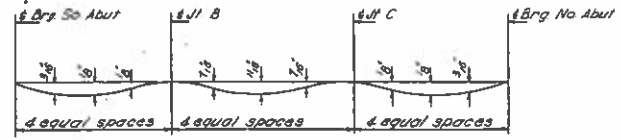


PLAN



To determine "f". After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown above, minus slab thickness, equals the fillet height "f" above top flange of beams.

FILLET HEIGHTS

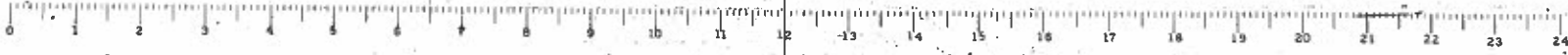


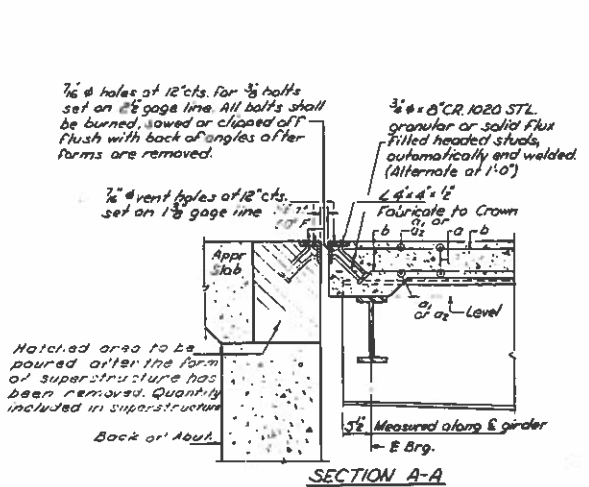
DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)
Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown above.

TOP OF SLAB ELEVATIONS
F.A.I. RT 57 SEC. 8-2HB-2
JEFFERSON COUNTY
STATION 608B+99.25

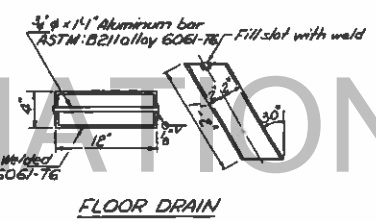
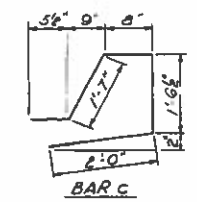
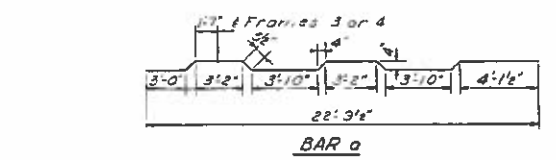
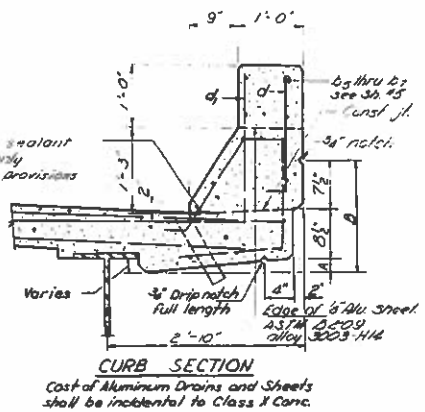
DESIGNED *W. H. H. H.*
CHECKED *GENE McCORMICK*
DRAWN *J. Kessler*
APPROVED *W. H. H. H.*
Aug 9 1966





VALUE OF A & B

	A	B
E Curb	3'-3"	1'-7 1/2"
W Curb	2'-6"	1'-6 1/2"

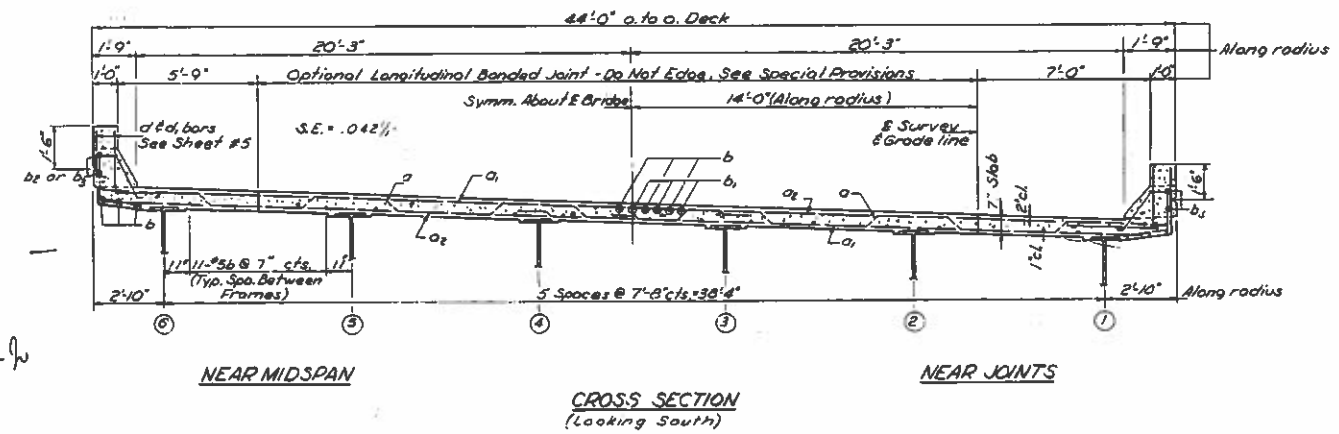


BILL OF MATERIAL

Bar No.	Size	Length	Shape
a	3/8" #8	23'-4"	U
q	4/8" #6	26'-9"	—
q'	4/8" #6	19'-0"	—
b	7/32" #5	34'-8"	—
b'	9/32" #6	36'-0"	—
b2	3/8" #6	26'-9"	—
b3	4/8" #6	25'-0"	—
b4	6/8" #6	14'-3"	—
c	4/31" #4	6'-3"	J

Reinforcement Bars Lbs. 80,180
Structural Steel Lbs. 8311.0
Class I Concrete Cu. Yds. 286.4

* Weight of bearing assemblies with lead plates, base plates and anchor bolts are included as structural steel. Est. Wt. = 10,450 Lbs.
Work this sheet with sheet #3
** Includes 6,700 lbs listed on S&S



DESIGNED: *W. H. Lewis*
CHECKED: *Gene McCormick*
DRAWN: *Thomas A. Lewis*
CHECKED: *Gene McCormick*

EXAMINED: *Aug 9 1966*
PASSED: *[Signature]*
APPROVED: *[Signature]*

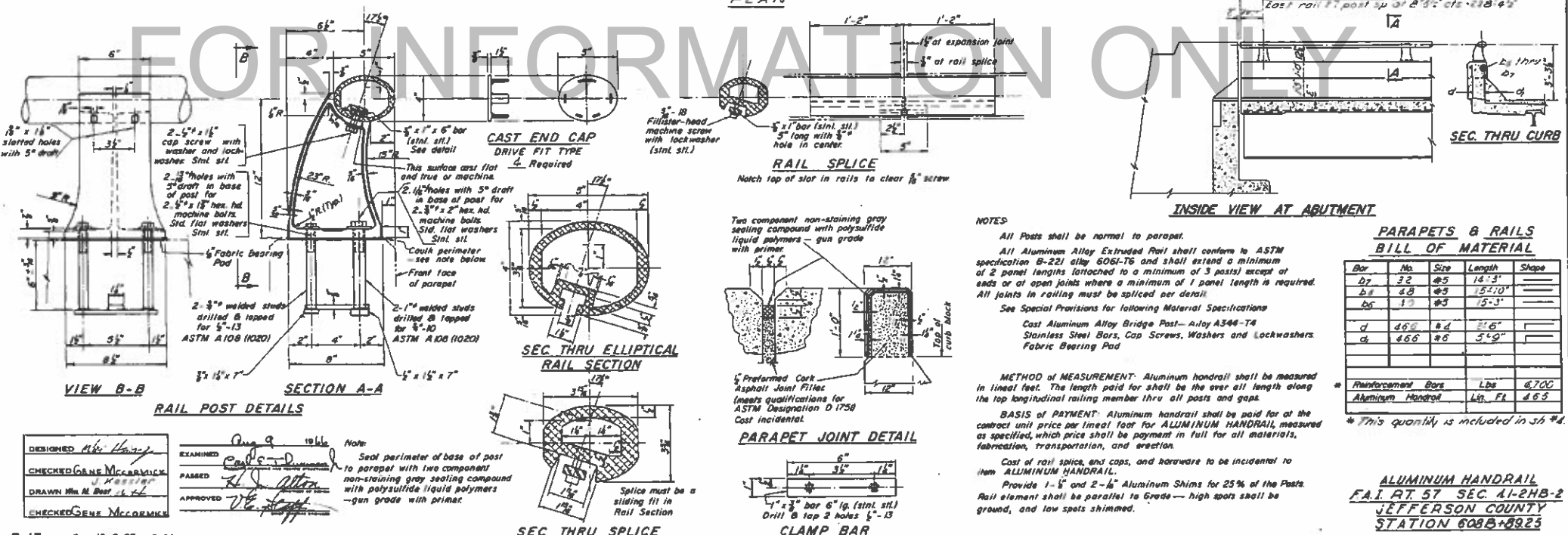
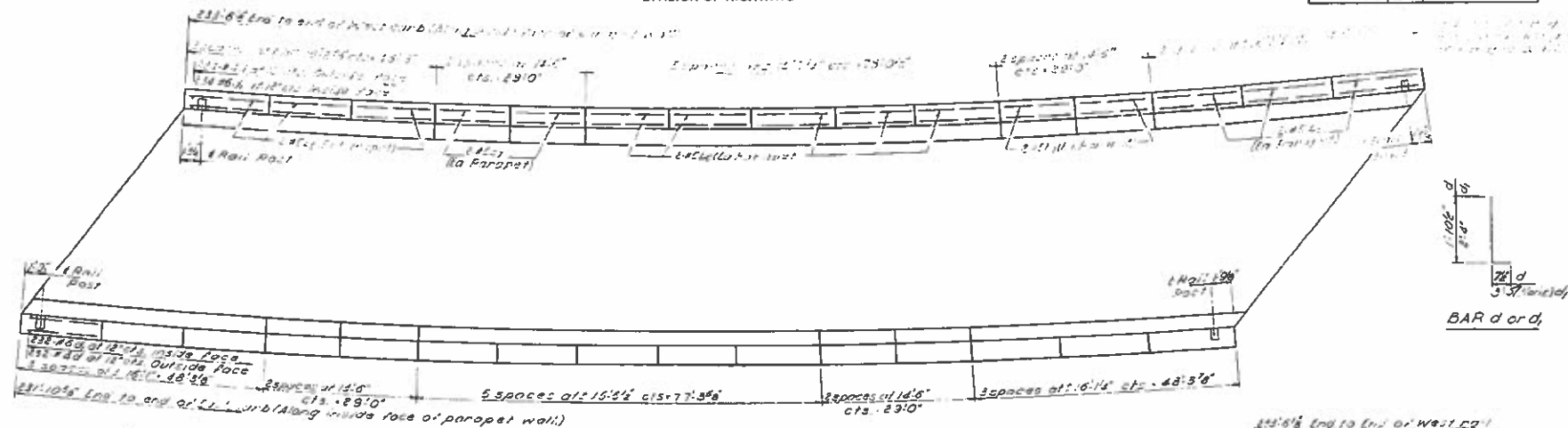
SLAB DETAILS
F.A.I. RA 57 SEC. 41-2HB-2
JEFFERSON CO.
STA 608B+89.25

Rev. 11/4/67 Curb Section, Class I Conc. changed from 280.5 cu yds. to 286.4 cu yds. & Reinf. Bars from 21,900 lbs. to 80,180 lbs.



STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	11202	DATE	24	SHEET NO.	13
CONTRACT NO.		DESIGNER	JEFFERSON	TOTAL SHEETS	13



NOTES

All Posts shall be normal to parapet.

All Aluminum Alloy Extruded Rail shall conform to ASTM specification B-221 alloy 6061-T6 and shall extend a minimum of 2 panel lengths (attached to a minimum of 3 posts) except at ends or at open joints where a minimum of 1 panel length is required. All joints in railing must be spliced per detail.

See Special Provisions for following Material Specifications:
Cast Aluminum Alloy Bridge Post—Alloy A344-T4
Stainless Steel Bars, Cap Screws, Washers and Lockwashers
Fabric Bearing Pad

METHOD OF MEASUREMENT: Aluminum handrail shall be measured in lineal feet. The length paid for shall be the over all length along the top longitudinal railing member thru all posts and gaps.

BASIS OF PAYMENT: Aluminum handrail shall be paid for at the contract unit price per lineal foot for ALUMINUM HANDRAIL, measured as specified, which price shall be payment in full for all materials, fabrication, transportation, and erection.

Cost of rail splice, end caps, and hardware to be incidental to ALUMINUM HANDRAIL.
Provide 1-5" and 2-1/2" Aluminum Shimms for 25% of the Posts. Rail element shall be parallel to grade—high spots shall be ground, and low spots shimmed.

**PARAPETS & RAILS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
D7	32	#5	12'3"	—
D8	48	#5	15'0"	—
D9	19	#5	5'3"	—
d	466	#6	5'6"	—
d	466	#6	5'9"	—
Reinforcement Bars			Lbs.	6700
Aluminum Handrail			Lt. Ft.	465

* This quantity is included in S6 #4.

ALUMINUM HANDRAIL
F.A.I. RT. 57 SEC. 41-2HB-2
JEFFERSON COUNTY
STATION 608B+8925

DESIGNED: M.W. Hays
CHECKED: GENE McDERMID
DRAWN: M.M. Best
CHECKED: GENE McDERMID

EXAMINED: Aug 9 1966
FABRICATED: [Signature]
APPROVED: [Signature]

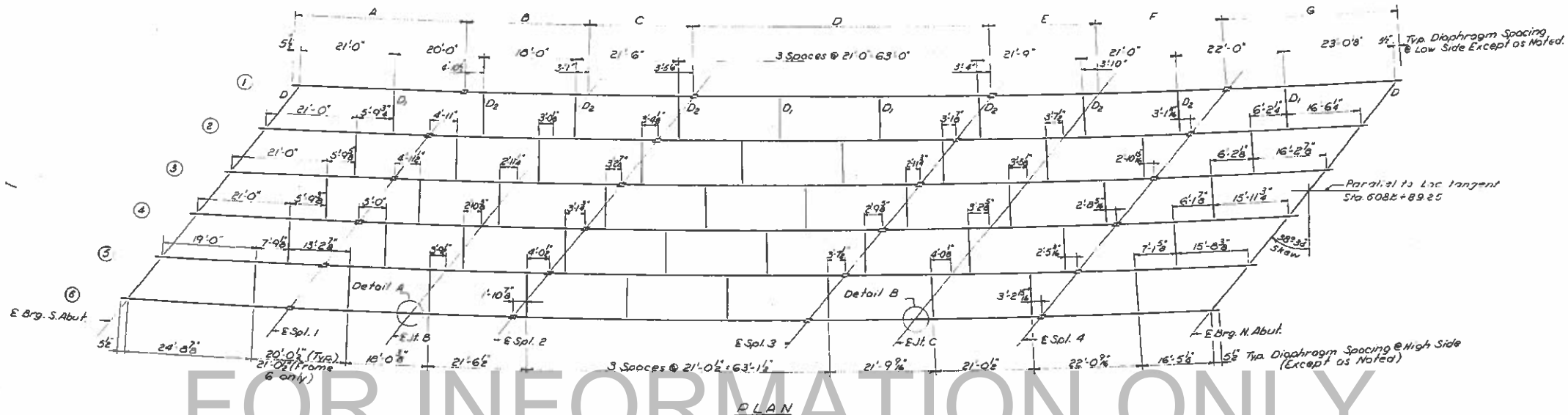
Note: Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers—gun grade with primer.

R-17 Rev 10-8-63 1-5-66
Rev. 11/11/67 25'9" CURBS L.V. CONC. REMOVED & REINF. CO. CHANGED FROM #6@10" TO #4@10" ID



STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	DATE	DESIGNER	CHECKER	SCALE	SHEET NO.
57	10/10/2	JEFFERSON	SA	15	13 SHEETS



FOR INFORMATION ONLY

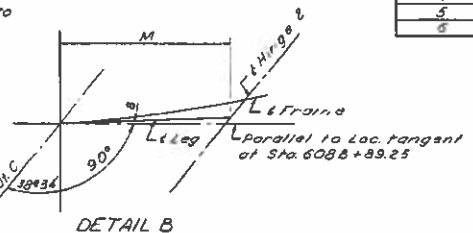


TABLE OF DIMENSIONS

Frame	Radius	A	B	C	D	E	F	G	Total	H	I	J	K	L	P	M	
1	9814.55'	36'-7"	25'-11 1/2"	21'-10 1/4"	62'-10 1/4"	22'-3"	26'-8 1/2"	35'-11 1/4"	21'-2 1/2"	10'-5 1/2"	10'-8 1/2"	21'-0 1/2"	21'-0 1/2"	0'-37'-5 1/2"	10'-6 1/2"	0'-58'-3 1/2"	10'-9 1/4"
2	9822.22'	36'-6"	25'-11"	21'-10"	62'-9 3/4"	22'-2 1/2"	26'-7 1/2"	35'-10 3/4"	21'-10 1/4"	10'-5 1/2"	10'-8 1/2"	21'-0 1/2"	21'-0 1/2"	0'-37'-5 1/2"	10'-6 1/2"	0'-58'-3 1/2"	10'-9 1/4"
3	9829.89'	36'-6"	25'-10 1/2"	21'-9 3/4"	62'-8 7/8"	22'-2 1/2"	26'-7 1/2"	35'-10"	21'-7 1/2"	10'-5 1/2"	10'-8 1/2"	21'-0 1/2"	21'-0 1/2"	0'-37'-5 1/2"	10'-6 1/2"	0'-58'-3 1/2"	10'-9 1/4"
4	9837.55'	36'-5 1/2"	25'-10 1/4"	21'-9 1/2"	62'-7 7/8"	22'-2 1/2"	26'-7 1/2"	35'-9 1/2"	21'-7 1/2"	10'-5 1/2"	10'-8 1/2"	21'-0 1/2"	21'-0 1/2"	0'-37'-5 1/2"	10'-6 1/2"	0'-58'-3 1/2"	10'-9 1/4"
5	9845.22'	36'-5"	25'-10"	21'-9"	62'-7"	22'-2 1/2"	26'-6 1/2"	35'-8 1/2"	21'-10"	10'-5 1/2"	10'-7 1/2"	21'-0 1/2"	21'-0 1/2"	0'-37'-5 1/2"	10'-5 1/2"	0'-58'-0 1/2"	10'-8 1/2"
6	9852.89'	36'-4 1/2"	25'-9 1/2"	21'-8 1/2"	62'-6"	22'-1 1/2"	26'-6 1/2"	35'-8 1/2"	23'-0 1/2"	10'-5 1/2"	10'-7 1/2"	21'-0 1/2"	21'-0 1/2"	0'-37'-5 1/2"	10'-5 1/2"	0'-58'-0 1/2"	10'-8 1/2"

LENGTHS OF DIAPHRAGM D

	Def. F1	Def. F2	Def. F3	Def. F4	Def. F5	Def. F6
S. Abut.	9'-8 1/2"	9'-0"	9'-3 1/2"	9'-5 1/2"	9'-5 1/2"	9'-5 1/2"
N. Abut.	9'-11 1/2"	9'-11 1/2"	9'-11 1/2"	9'-11 1/2"	9'-11 1/2"	9'-11 1/2"

Note:
For elevations, other details see sheets 7 & 8.
Quantity of structural steel billed on sheet 4.

DESIGNED A. W. Herzog
CHECKED Gene McCormick
DRAWN Thomas A. Lewis
CHECKED Gene McCormick

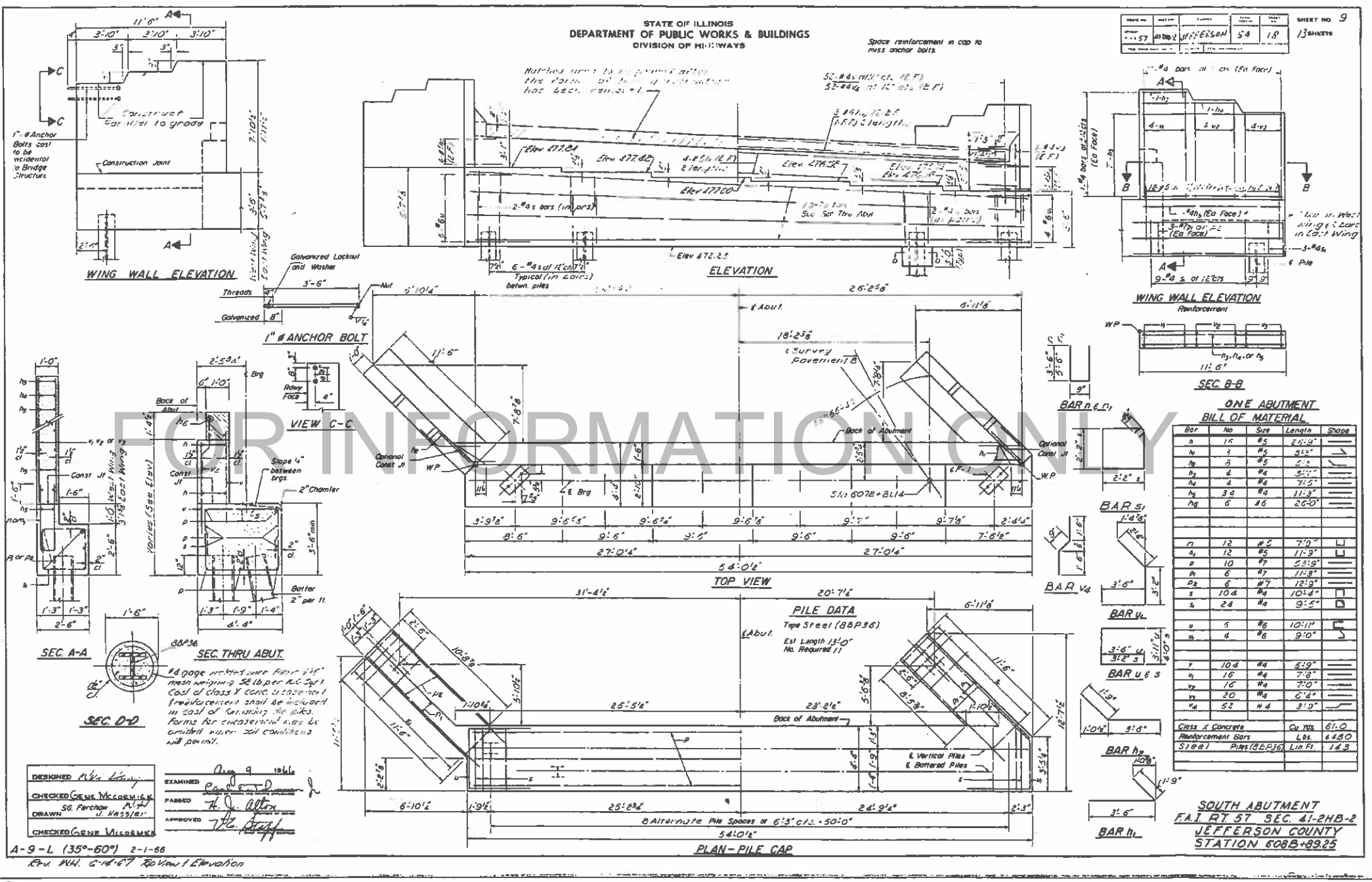
EXAMINED Paul E. Johnson
PASSED A. J. Ritz
APPROVED D. E. Staff

STRUCTURAL STEEL
FAI. R.F. 57 SEC. 41-2HB-2
JEFFERSON CO.
STA 6088+89.25



STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO. 57
DESIGNED BY JEFFERSON
DATE 5-4-18
SHEET NO. 9
13 SHEETS



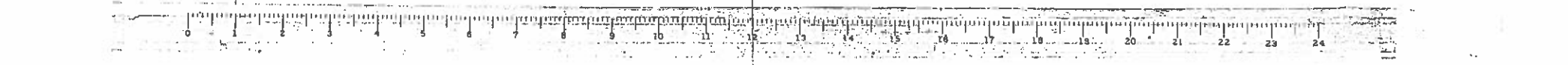
DESIGNED M.K. Kelly
CHECKED GENE McCOMBS
DRAWN J. KASSER
EXAMINED Paul J. Kelly
PASSED J. J. Kelly
APPROVED J. J. Kelly

Aug 9 1918

A-9-L (35°-60°) 2-1-18
Rev. W.H. C-14-17 Top View Elevation

FOR INFORMATION ONLY

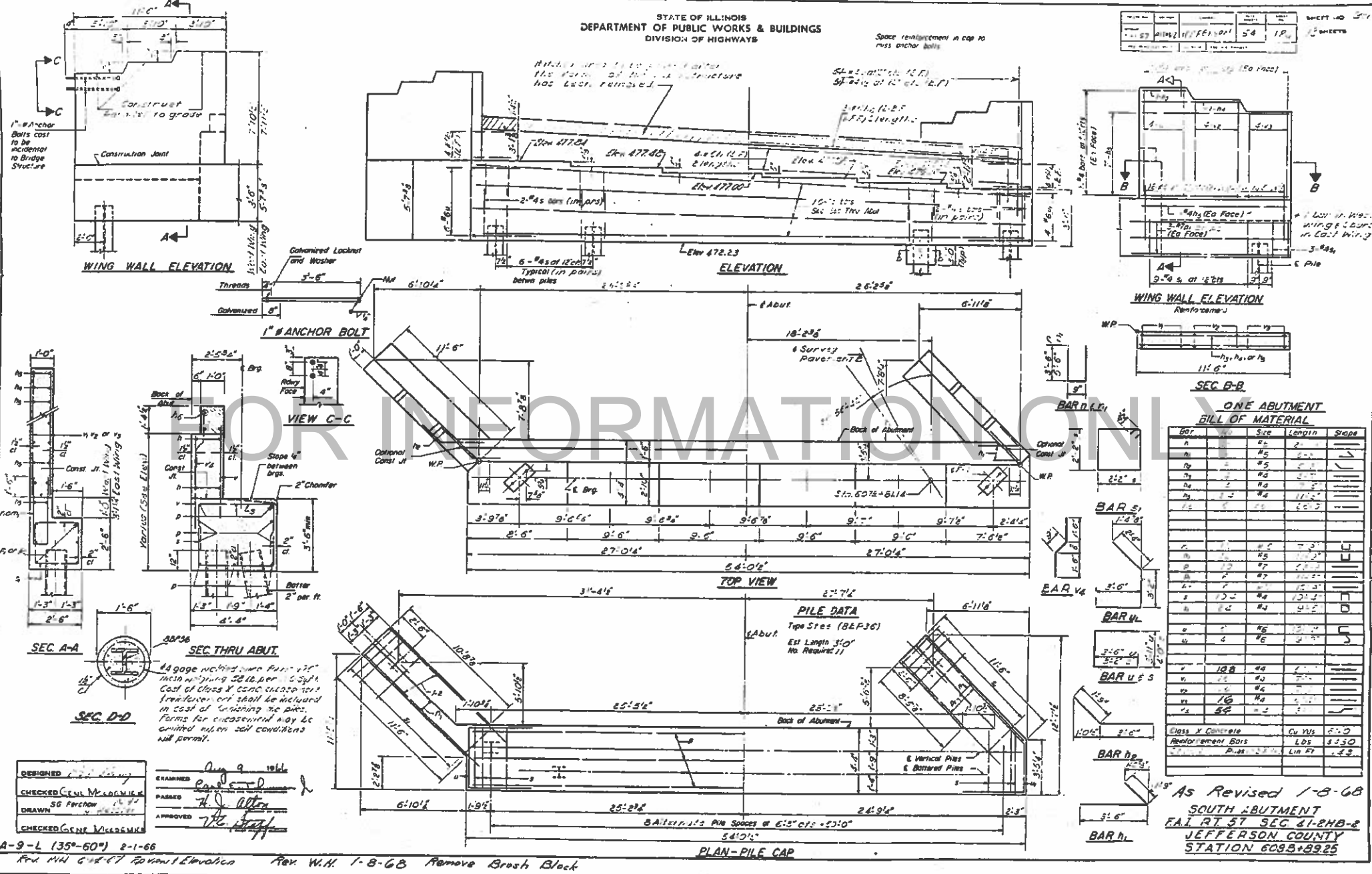
Ed gage indicated here that 1/2" mesh weighing 58 lb. per cu. yd. Cost of class V conc. reinforcement reinforcement shall be included in cost of concrete. The plans forms for enclosure may be omitted where soil conditions will permit.



STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

Space reinforcement in cap to
pass anchor bolts

PROJECT NO.	54	1P	SHEET NO.	57
DATE	1/11/68			



DESIGNED: [Signature]
CHECKED: GENE VICKERS
DRAWN: SG Perchow
EXAMINED: [Signature]
PASSED: [Signature]
APPROVED: [Signature]

Aug 9 1968

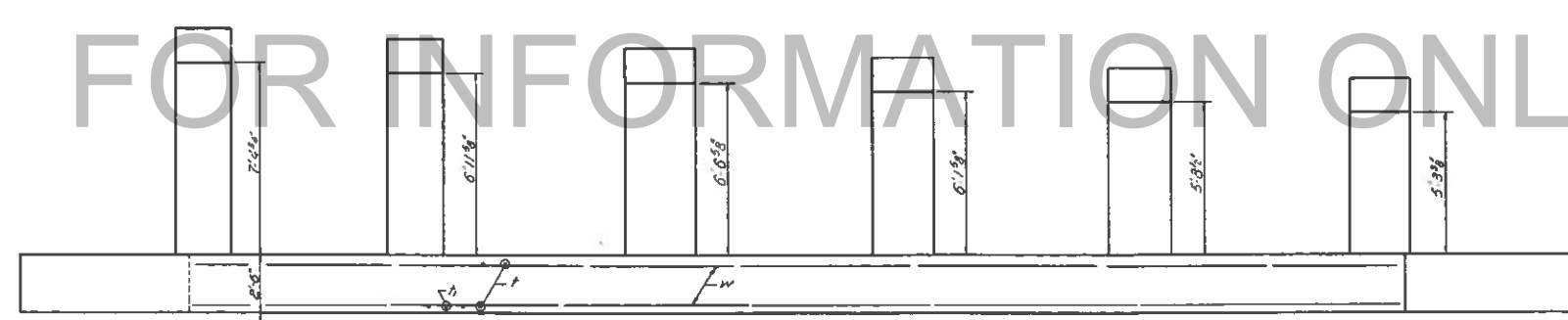
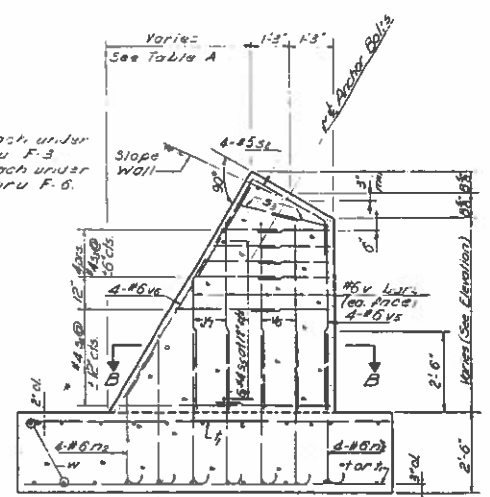
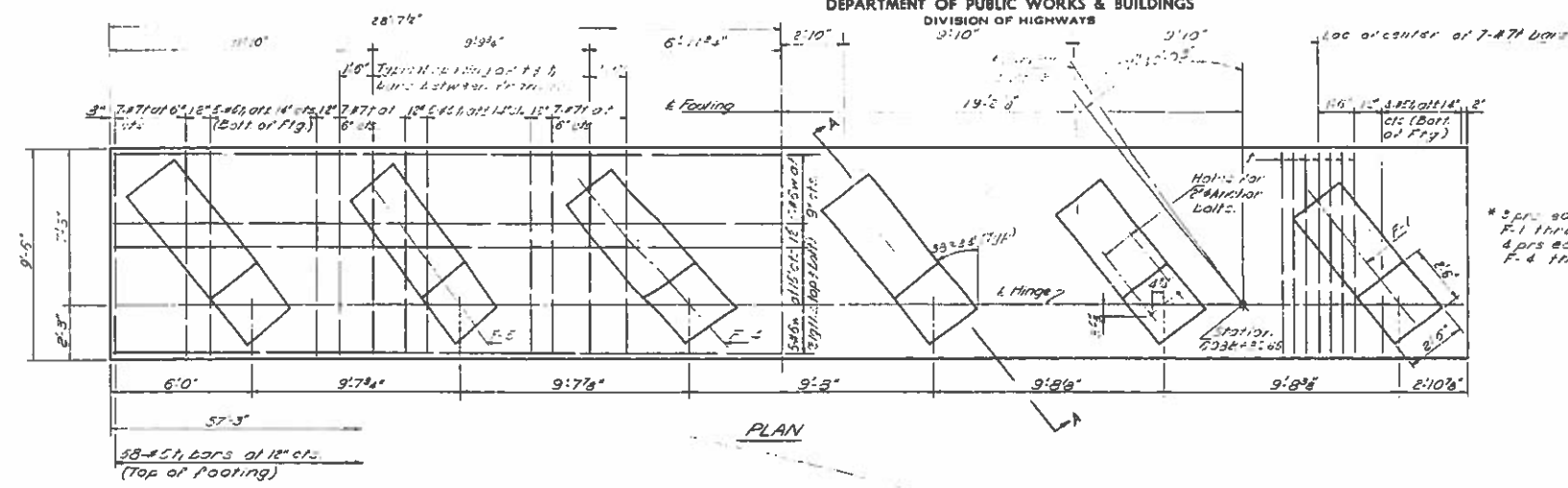
A-9-L (35'-60") 2-1-68

Rev. 1/11/68 1-8-68 Remove Brush Block

As Revised 1-8-68
SOUTH ABUTMENT
F.A. RT. 57 SEC. 61-2NB-2
JEFFERSON COUNTY
STATION 6085+8925

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	DATE	DESIGNER	DRAWN	CHECKED	SHEET NO.
51-21407	JEFFERSON	54	20	13	13 SHEETS



5 #6 @ 12" c/c Each Face
SECTION A-A
Bend no. w or v bars in field to fit if necessary

TABLE A

F-1	F-2	F-3	F-4	F-5	F-6
3'-10 3/8"	4'-1 1/2"	4'-4 1/8"	4'-7 3/8"	4'-10 3/8"	5'-1 1/4"

BILL OF MATERIALS

Bar	No.	Size	Length	Notes
#8	108	#8	5'-0"	
#5	24	#5	9'-3"	
#6	80	#6	7'-8"	
#4	42	#4	9'-8"	
#3	36	#3	3'-0"	
#2	42	#2	9'-3"	
#1	67	#5	9'-3"	
v5	24	#5	3'-0"	
w5	48	#6	7'-0"	
w7	24	#6	6'-0"	
w	40	#4	29'-5"	

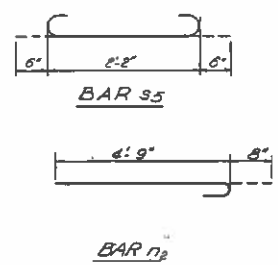
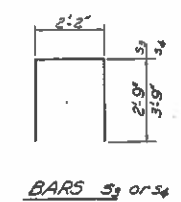
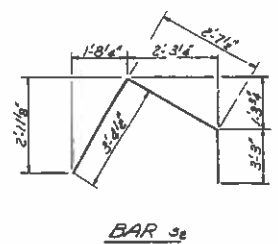
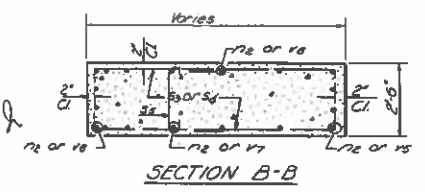
Glass X Concrete Cu. Yds. 69.9
Reinforcement Bars Lbs. 6769

Min bar lap 20 dia. unless otherwise noted.
All exposed edges shall have standard 1/2" chamfers.

DESIGNED: W. H. Henry
CHECKED: GENE McGRANKE
DRAWN: S.G. Ferchow

EXAMINED: Paul S. Johnson
PASSED: H. Allen
APPROVED: J.E. [Signature]

Aug 9 1966



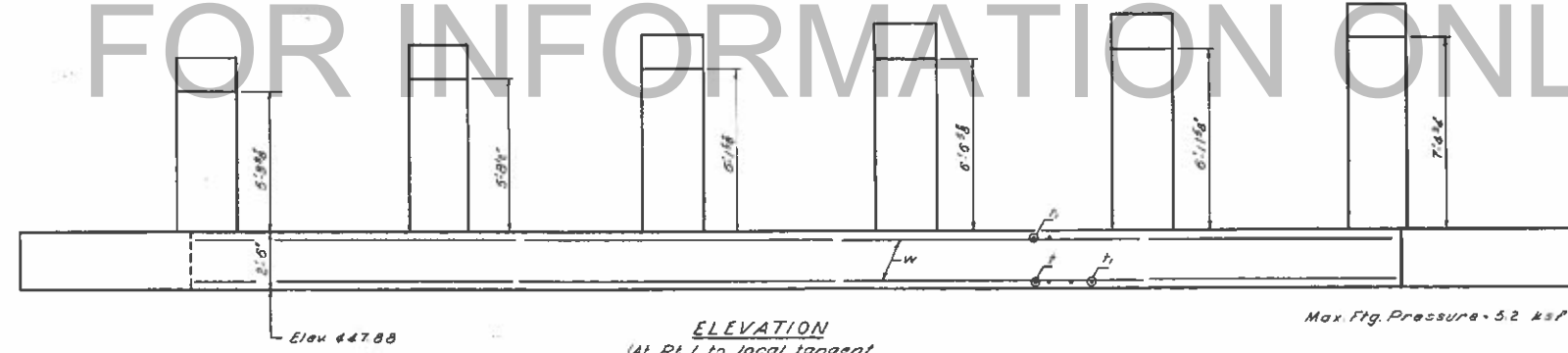
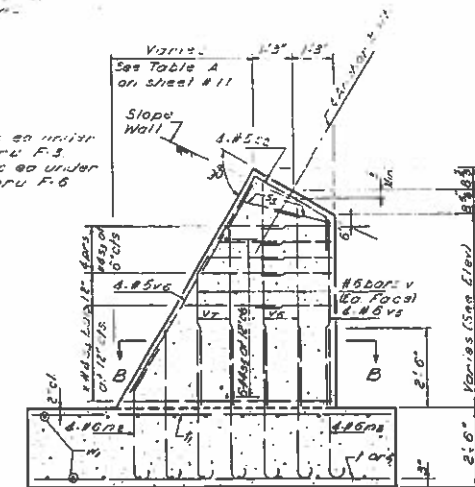
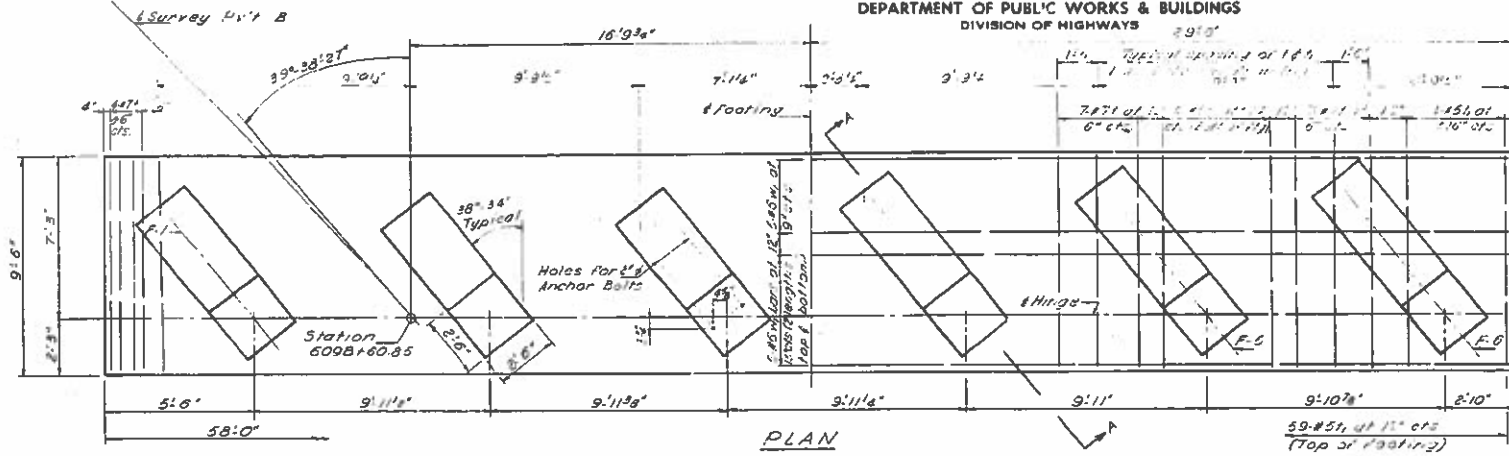
FOOTING AT HINGE 1
F.A.T. RT 57 SEC 41-2HB-2
JEFFERSON COUNTY
STA. 608B+89.25



STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	DATE	DESIGNER	SCALE	SHEET NO.
41-2HD-2	10/2/66	JEFFERSON	5/4	21

13 SHEETS



SECTION A-A
Band no. 16 or 17 bars in field to fit if necessary.

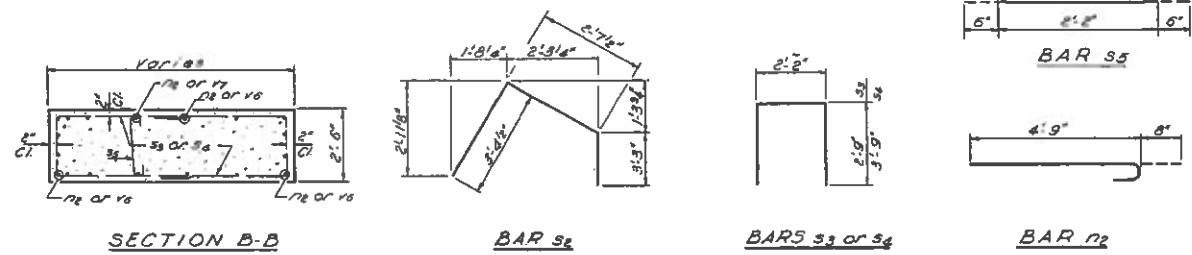
BILL OF MATERIAL

Bar No.	Size	Length	Shape
108	#6	3'-3"	U
52	#4	9'-3"	U
53	#4	7'-8"	U
54	#4	9'-8"	U
55	#4	3'-2"	U
7	#7	9'-3"	U
71	#5	9'-3"	U
72	#6	5'-0"	U
73	#6	7'-0"	U
77	#6	6'-0"	U
71	#6	29'-3"	U

Class X Concrete Cu. Yd. 70.6
Reinforcement Bars Lbs. 6110

Min. bar laps = 20 dia unless otherwise noted.
All exposed edges shall have standard 3/4" chamfers.

DESIGNED *W. H. Harvey*
CHECKED *GENE McCAORMICK*
DRAWN *W. H.*
EXAMINED *Aug 9 1966*
PASSED *W. H. Harvey*
APPROVED *W. H. Harvey*



FOOTING AT HINGE 2
FAI RT 57 SEC 41-2HD-2
JEFFERSON COUNTY
STATION 608B+89.25



STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SHEET NO. 13
13 SHEETS

Boring No. 11, S.M.T.
Station 600B-2
Other 12' RT. C. SURVEY

Ground Surface	Depth	Q _u /F _u	w (%)	Surface Water E. Groundwater E. at Completion After 24 Hours	Remarks	Q _u /F _u	w (%)
457.70							
	0.0				19.25, MOIST, BROWN MOTTLED GREY, SANDY CLAY TO SLAY		
	1.0						
	2.0						
	3.0						
	4.0						
	5.0						
	6.0						
	7.0						
	8.0						
	9.0						
	10.0						
	11.0						
	12.0						
	13.0						
	14.0						
	15.0						
	16.0						
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	18.0						
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	94.0						
	95.0						
	96.0						
	97.0						
	98.0						
	99.0						
	100.0						

Boring No. 11
Station 600B-2
Other 12' RT. C. SURVEY

Ground Surface	Depth	Q _u /F _u	w (%)	Surface Water E. Groundwater E. at Completion After 24 Hours	Remarks	Q _u /F _u	w (%)
457.30							
	0.0				GREY SANDY SHALE		
	1.0						
	2.0						
	3.0						
	4.0						
	5.0						
	6.0						
	7.0						
	8.0						
	9.0						
	10.0						
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	96.0						
	97.0						
	98.0						
	99.0						
	100.0						

Boring No. 11, S.M.T.
Station 600B-2
Other 12' RT. C. SURVEY

Ground Surface	Depth	Q _u /F _u	w (%)	Surface Water E. Groundwater E. at Completion After 24 Hours	Remarks	Q _u /F _u	w (%)
457.30							
	0.0				STIFF, DAMP, BROWN MOTTLED GREY, CLAY		
	1.0						
	2.0						
	3.0						
	4.0						
	5.0						
	6.0						
	7.0						
	8.0						
	9.0						
	10.0						
	11.0						
	12.0						
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	15.0						
	16.0						
	17.0						
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