

**STATE OF ILLINOIS**  
**DEPARTMENT OF PUBLIC WORKS AND BUILDINGS**  
**DIVISION OF HIGHWAYS**  
**PLANS FOR PROPOSED**  
**FEDERAL AID HIGHWAY**

*Official Copy*  
 5-7-63  
 #  
 REVISED AS BUILT

STATE	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAI-57	10-30HB	CHAMPAIGN	22	1
ILLINOIS PROJECT			1-57-5(27)219	

**SCALES**  
 PLAN 1 INCH = 100 FT.  
 PROFILE HOR. 1 INCH = 100 FT.  
 PROFILE VERT. 1 INCH = 10 FT.  
 CROSS-SECTIONS 1 INCH = 5 FT. VERT. 10 HORIZ.

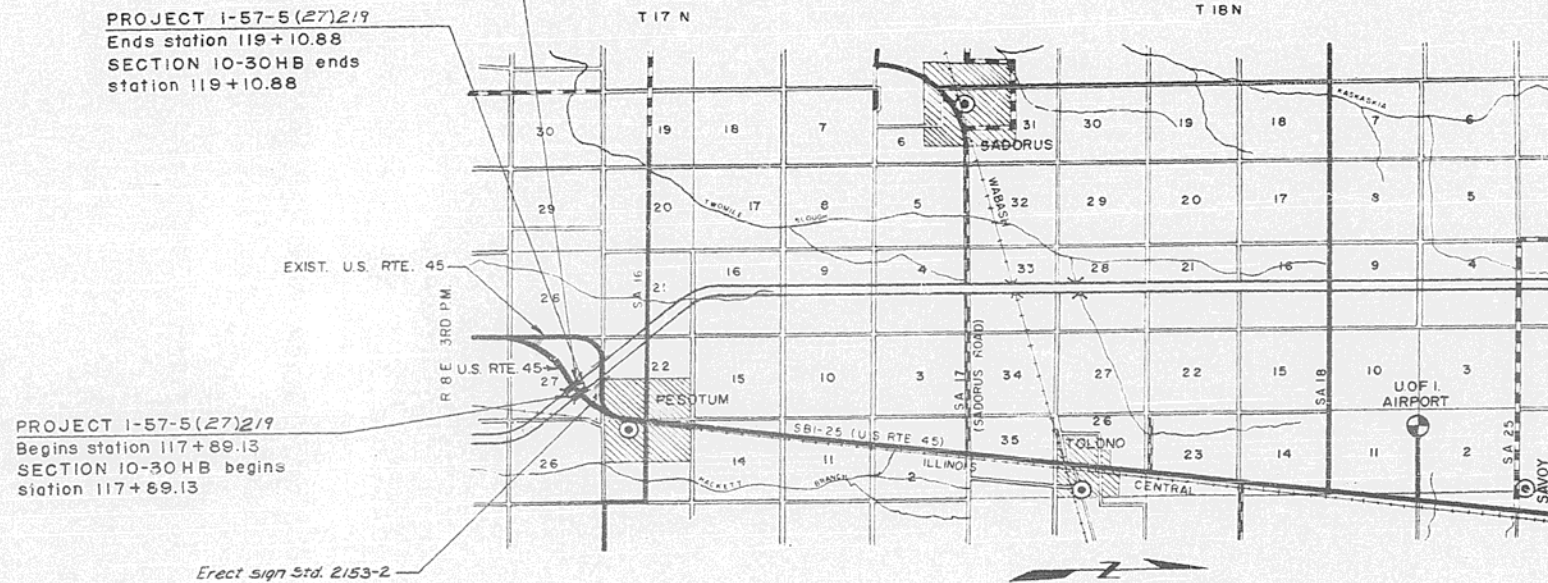
**F. A. I. ROUTE 57 SEC. 10-30HB CHAMPAIGN COUNTY**  
**PROJECT 1-57-5(27)219**

DESIGN CLASSIFICATION 1477-T-70



LOCATION OF SECTION INDICATED THUS: —

Section 10-30HB includes the construction of two parallel 3 span continuous WF-beam concrete deck interchange structures, carrying F.A.I. RTE. 57 over US RTE. 45. Two spans at 38'-4" and one span at 41'-6" with 39'-0" roadway width, 1' safety curb and a 2' safety walk at Sta. 118+50.00 on F.A.I. RTE. 57



PROJECT 1-57-5(27)219  
 Ends station 119+10.88  
 SECTION 10-30HB ends  
 station 119+10.88

PROJECT 1-57-5(27)219  
 Begins station 117+89.13  
 SECTION 10-30HB begins  
 station 117+89.13

Erect sign Std. 2153-2

**LAYOUT**  
 SCALE 1"=1MI.

NET LENGTH OF SECTION = 121.75 FEET = 0.023 MILE  
 NET LENGTH OF PROJECT 1-57-5(27)219 = 121.75 FEET = 0.023 MILE

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

SUBMITTED *February 29, 63*  
 EXAMINED *March 27, 63*  
 PASSED *March 27, 63*  
 APPROVED *March 27, 63*  
 APPROVED *March 27, 63*

CLARK, DAILY, DIETZ AND ASSOCIATES  
 211 N. RACE ST. URBANA, ILL.

*Engin. J. Daily*  
 GENERAL MANAGER

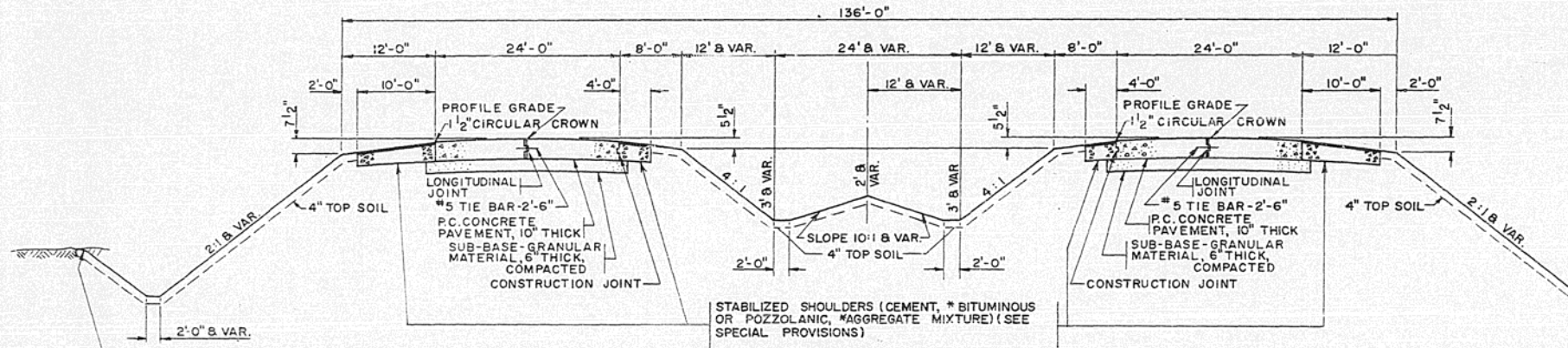
DEPARTMENT OF COMMERCE  
 BUREAU OF PUBLIC ROADS

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
 DIVISION ENGINEER



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	10-30HB	CHAMPAIGN	22	2
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

TYPICAL CROSS-SECTION OF PROPOSED  
DUAL PORTLAND CEMENT CONCRETE PAVEMENT  
WITH 64' DEPRESSED MEDIAN  
(F.A.I. ROUTE 57)



NOTE:  
SHOULDERS AND SIDESLOPES SHALL BE ROUNDED  
12" IN EACH DIRECTION FROM THE TANGENT  
INTERSECTION OF THESE SURFACES.  
\*WITH BITUMINOUS SURFACE TREATMENT, CLASS A  
SUBCLASS A-3 MODIFIED (SEE SPECIAL PROVISIONS)

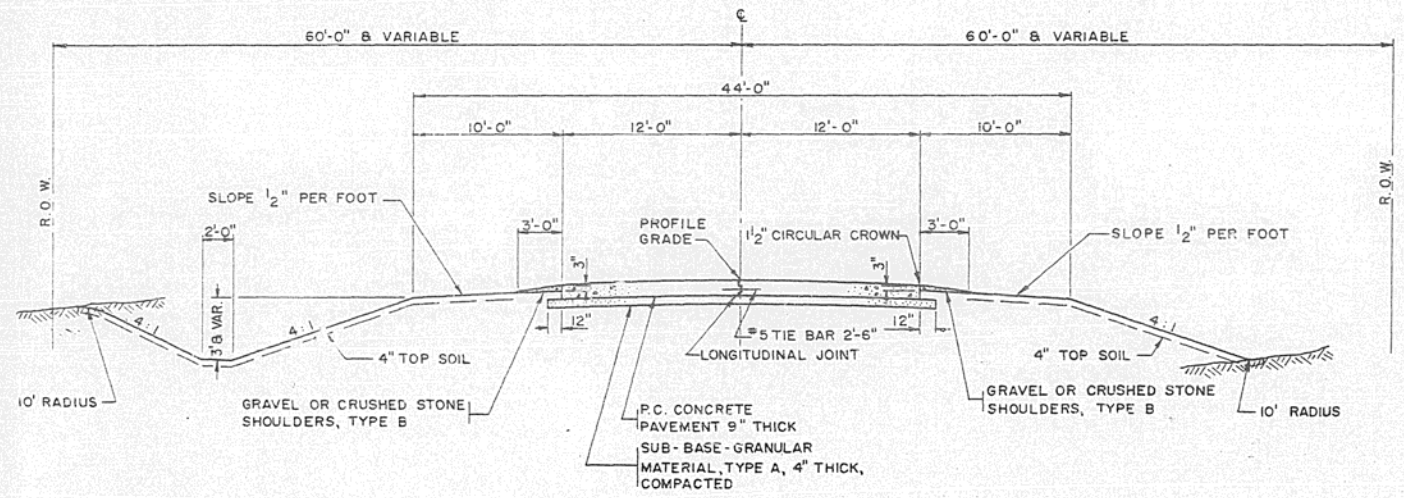
INDEX OF SHEETS

SHEET NO.	TITLE
1	COVER SHEET
2	TYPICAL SECTIONS, INDEX OF SHEETS AND SUMMARY OF QUANTITIES.
3-4	PLAN AND PROFILE, F.A.I. ROUTE 57, STATION 105+00 TO STATION 135+00
5	PLAN AND PROFILE, RELOCATED U.S. RTE. 45, STA. 1145+00 TO STA. 1160+00
6-16	BRIDGE PLANS, BRIDGE STATION 118+50.00
17-18	CROSS SECTIONS, F.A.I. ROUTE 57, STATION 116+00 TO STATION 121+00
19	CROSS SECTIONS, RELOCATED U.S. RTE. 45, STA. 1115+00 TO STA. 1120+00
20	STANDARD 2112
21	STANDARD 2139 - OMITTED
22	STANDARD 2153-2, 1971-3

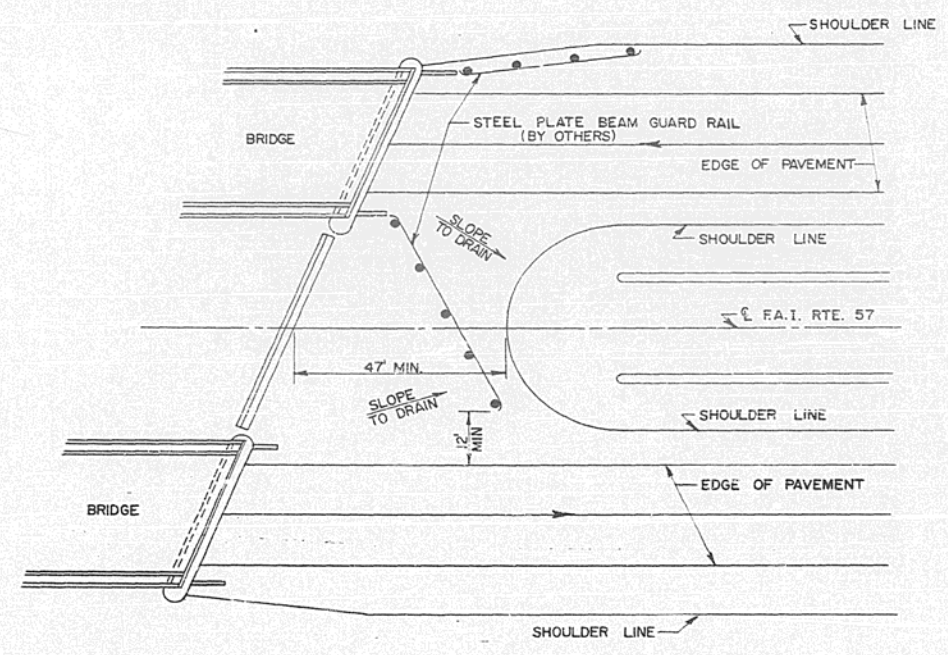
SUMMARY OF QUANTITIES

QUANTITY	UNIT	ITEM	CODE NUMBER
44,300	CU. YDS.	BORROW EXCAVATION	013001
121	CU. YDS.	CLASS A EXCAVATION FOR STRUCTURES	050001
184,114	LBS.	FURNISHING AND ERECTING STRUCTURAL STEEL	051002
647.5	CU. YDS.	CLASS X CONCRETE	052003
1,300	SQ. YDS.	PROTECTIVE COAT	052021
478	LIN. FT.	FURNISHING AND ERECTING METAL HANDRAIL	055001
228	LIN. FT.	PIPE CULVERT TYPE 2A (RCP CLASS III) 36"	058103
95,732	LBS.	REINFORCEMENT BARS	059001
1,530	LIN. FT.	FURNISHING CREOSOTED PILES UP TO 20 FEET	060004
2	EACH	TEST PILE (TIMBER)	060007
1,530	LIN. FT.	DRIVING TIMBER PILES	060008
1,050	LIN. FT.	DRIVING CONCRETE PILES	060043
1,050	LIN. FT.	FURNISHING CONCRETE PILES	060044
2	EACH	TEST PILE (CONCRETE)	060047
2	EACH	NAME PLATES	061001
1,300	SQ. YDS.	SLOPE WALL, 4 INCH	083002
35	LIN. FT.	FURCREOPILE ADJ.	060920

TYPICAL SECTION OF PROPOSED TANGENT SECTION  
24' PORTLAND CEMENT CONCRETE PAVEMENT  
(U.S. ROUTE 45 RELOCATION)  
STATION 1113 + 53.52 TO STATION 1162 + 37.52



TREATMENT TO ENDS OF PARALLEL BRIDGES ON DUAL HIGHWAYS



DRAWN BY DATE CHECKED BY DATE IN CHARGE  
 C.B.P. 2/28/58 S.B.P. M.T.



DATE	BY	REVISION
12-22-54	J.F.A.	1. AS SHOWN
1-15-55	J.F.A.	2. SEE SHEET NO. 50
1-15-55	J.F.A.	3. SEE SHEET NO. 50
1-15-55	J.F.A.	4. SEE SHEET NO. 50
1-15-55	J.F.A.	5. SEE SHEET NO. 50
1-15-55	J.F.A.	6. SEE SHEET NO. 50
1-15-55	J.F.A.	7. SEE SHEET NO. 50
1-15-55	J.F.A.	8. SEE SHEET NO. 50
1-15-55	J.F.A.	9. SEE SHEET NO. 50
1-15-55	J.F.A.	10. SEE SHEET NO. 50

DATE	BY	REVISION
1-15-55	J.F.A.	1. AS SHOWN
1-15-55	J.F.A.	2. SEE SHEET NO. 50
1-15-55	J.F.A.	3. SEE SHEET NO. 50
1-15-55	J.F.A.	4. SEE SHEET NO. 50
1-15-55	J.F.A.	5. SEE SHEET NO. 50
1-15-55	J.F.A.	6. SEE SHEET NO. 50
1-15-55	J.F.A.	7. SEE SHEET NO. 50
1-15-55	J.F.A.	8. SEE SHEET NO. 50
1-15-55	J.F.A.	9. SEE SHEET NO. 50
1-15-55	J.F.A.	10. SEE SHEET NO. 50

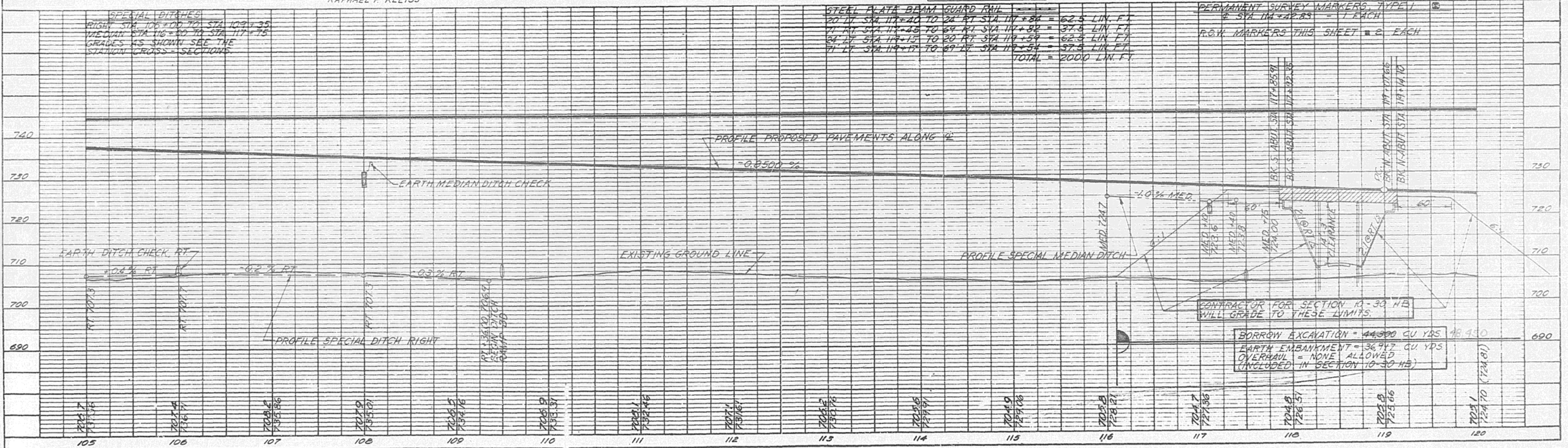
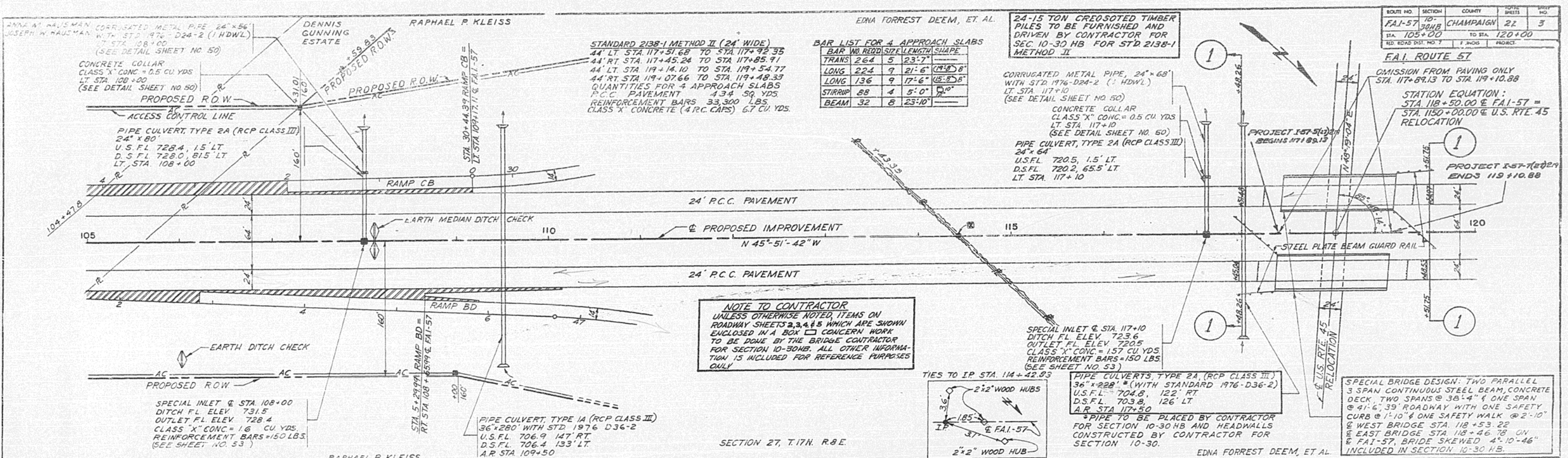


PLATE I - PLAN-PROFILE R. P. A. STANDARD  
 THE FREDERICK POST CO. Chicago



ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL SHEETS
FAI-57	107	CHAMPAIGN	22	4
STA. 120+00			TO STA. 135+00	
TED ROAD DIST. NO. 7	BLINDS	PROJECT		

**FAI ROUTE -57**  
**ROBERT SMITH & EMILIE D. SMITH**

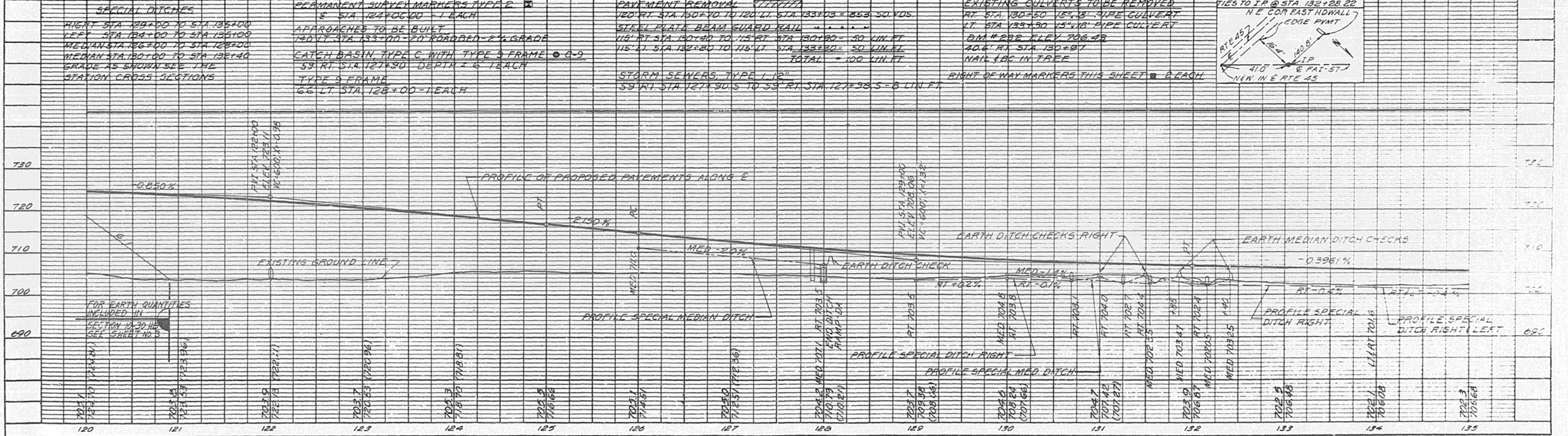
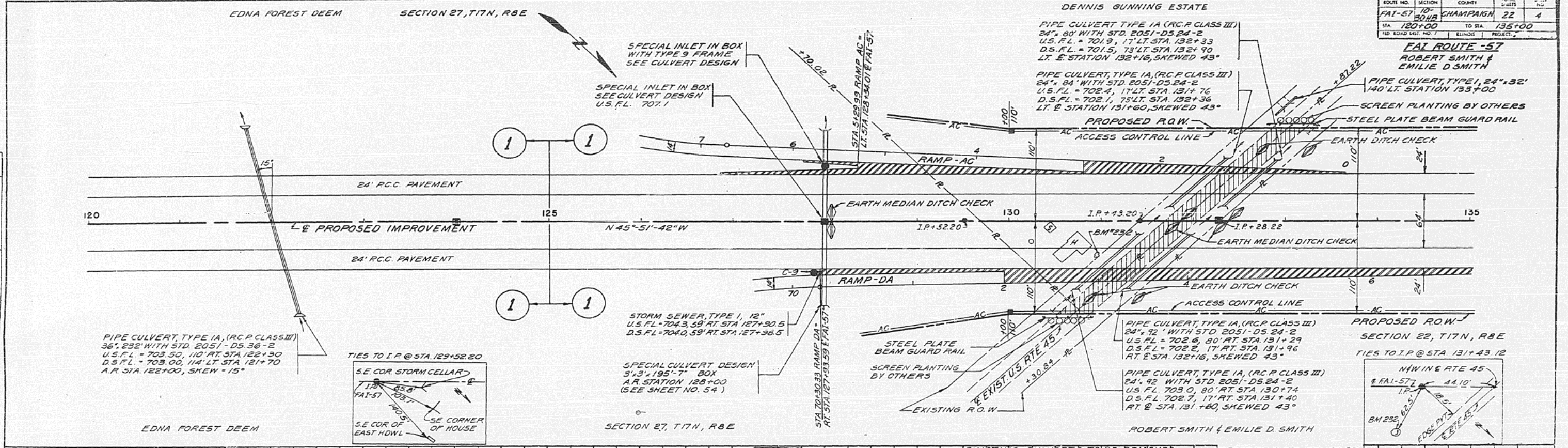


PLATE 1-PLAN-PROFILE S. P. & STANDARDS  
 THE FREDERICK POST CO. CHICAGO

**PLAN**  
 SHEET NO. 107  
 DATE: 11/11/12  
 BY: R.C.B. / J.H.H.  
 CHECKED: M.A.H. / J.H.H.  
 IN CHARGE: J.H.H.  
 NOTE: BOOK NO. 107  
 RT. OF WAY CHECKED

**PROFILE**  
 SHEET NO. 107  
 DATE: 11/11/12  
 BY: R.C.B. / J.H.H.  
 CHECKED: M.A.H. / J.H.H.  
 IN CHARGE: J.H.H.  
 NOTE: BOOK NO. 107  
 STRUCTURE NOTATION USED

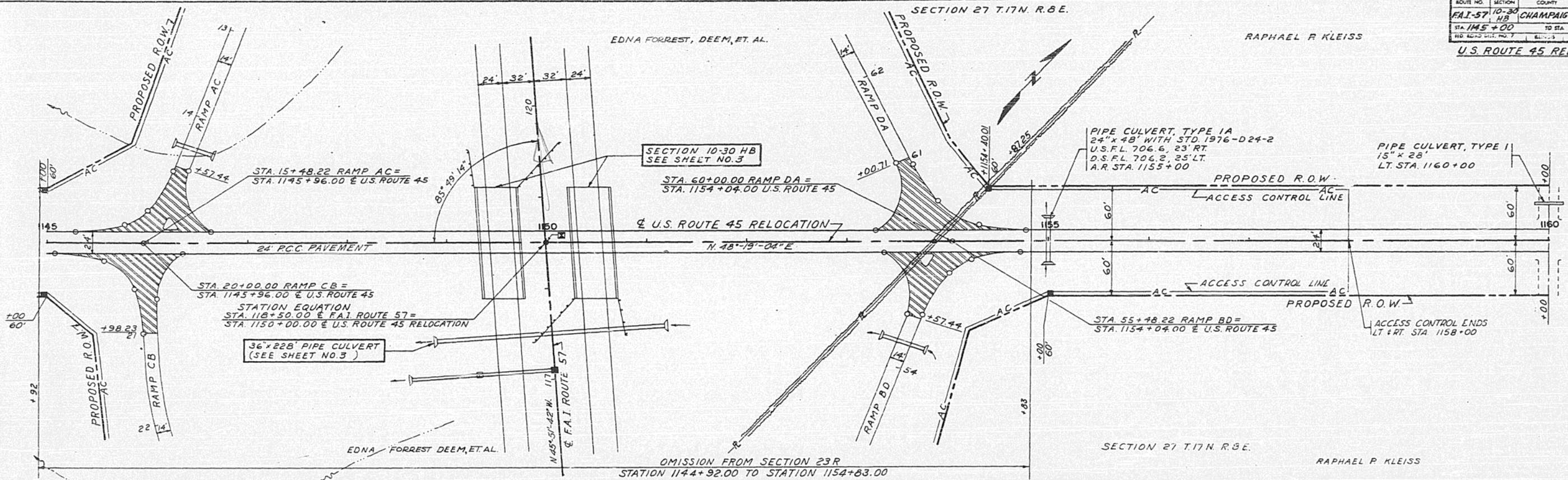
<b>SPECIAL DITCHES</b> RIGHT STA 124+00 TO STA 135+00 LEFT STA 124+00 TO STA 135+00 MEDIAN STA 126+00 TO STA 128+00 MEDIAN STA 130+00 TO STA 132+40 GRADE AS SHOWN SEE THE STATION CROSS SECTIONS	<b>PERMANENT SURVEY MARKERS TYPE 2</b> 8 STA. 124+00.00 - 1 EACH APPROACHES TO BE BUILT 140' LT. STA. 133+00 - 20' ROADBED - 2% GRADE CATCH BASIN, TYPE C, WITH TYPE 9 FRAME @ C-9 59' RT. STA. 127+90 - DEPTH 4' EACH TYPE 9 FRAME 66' LT. STA. 128+00 - 1 EACH	<b>PAVEMENT REMOVAL</b> 120' RT. STA. 130+70 TO 120' LT. STA. 133+05 = 853.50 YDS <b>STEEL PLATE BEAM GUARD RAIL</b> 114' RT. STA. 130+40 TO 115' RT. STA. 130+80 = 50 LIN. FT. 115' LT. STA. 132+80 TO 115' LT. STA. 133+20 = 50 LIN. FT. TOTAL = 100 LIN. FT.	<b>EXISTING CULVERTS TO BE REMOVED</b> RT. STA. 130+50 15" 15' PIPE CULVERT LT. STA. 133+90 15" 118' PIPE CULVERT BM # 232 ELEV. 706.45 40.6' RT. STA. 130+87 NAIL 1/2" IN TREE RIGHT OF WAY MARKERS THIS SHEET @ EACH
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ROUTE NO.	SECTION	COUNTY	SHEETS	NO.
FAI-57	10-30	CHAMPAIGN	22	5
STA. 1145+00	TO STA. 1160+00			
U.S. ROUTE 45 RELOCATION				

EDNA FORREST, DEEM, ET. AL.

RAPHAEL P. KLEISS



SECTION 10-30 HB  
SEE SHEET NO. 3

PIPE CULVERT, TYPE 1A  
24" x 48" WITH STD. 1976-D24-2  
U.S.F.L. 706.6, 23' RT.  
O.S.F.L. 706.2, 25' LT.  
A.R. STA. 1155+00

PIPE CULVERT, TYPE 1  
15" x 28"  
LT. STA. 1160+00

36" x 228' PIPE CULVERT  
(SEE SHEET NO. 3)

OMISSION FROM SECTION 23R  
STATION 1144+92.00 TO STATION 1154+83.00

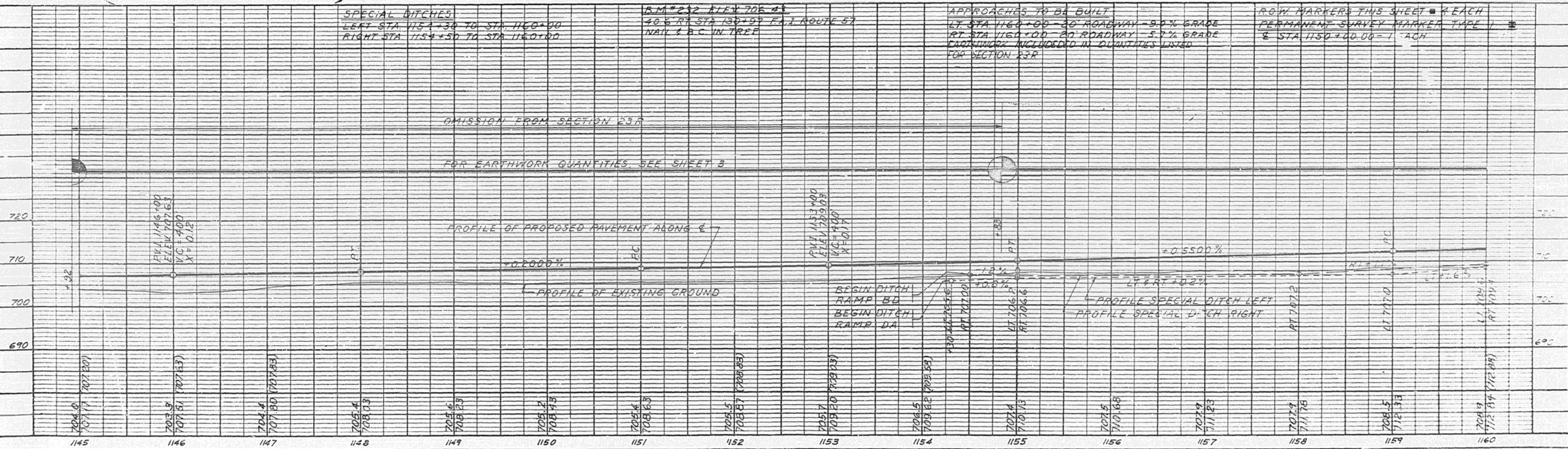
SPECIAL DITCHES  
LEFT STA. 1154+30 TO STA. 1160+00  
RIGHT STA. 1154+50 TO STA. 1160+00

B.M. #232 ELEV 706.48  
40.6 RT STA 130+97 F.A.I. ROUTE 57  
NAIL & B.C. IN TREE

APPROACHES TO BE BUILT  
LT. STA. 1160+00 TO ROADWAY - 9.0% GRADE  
RT. STA. 1160+00 TO ROADWAY - 5.7% GRADE  
EARTHWORK INCLUDED IN QUANTITIES LISTED  
FOR SECTION 23R

R.O.W. MARKERS THIS SHEET = EACH  
PERMANENT SURVEY MARKER TAPE 1  
& STA. 1150+00.00 = 1' ACH

OMISSION FROM SECTION 23R  
FOR EARTHWORK QUANTITIES, SEE SHEET 3



DATE: 11/16/60  
BY: R.P.K.  
CHECKED: H.W.B.  
NO. 15

DATE: 11/16/60  
BY: R.P.K.  
CHECKED: H.W.B.  
NO. 15

DATE: 11/16/60  
BY: R.P.K.  
CHECKED: H.W.B.  
NO. 15



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI. 57	10-30MB	CHAMPAIGN	22	6
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT	I-57-57(2)11		

**GENERAL NOTES**

- SPECIFICATIONS: THE STATE OF ILLINOIS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 2, 1955 AND THE REVISIONS THERETO SHALL APPLY.
- CONCRETE: CLASS X CONCRETE SHALL BE USED THROUGHOUT. THE CONCRETE FLOOR SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE 51.15 OF THE STANDARD SPECIFICATIONS. COARSE AGGREGATE WHICH IS TO BE USED IN C&G POSTS MUST BE FREE OF CHERT, FLINT LIMONITE, LIGNITE AND SOFT SANDSTONE.
- PAINT: EXCEPT AS OTHERWISE PROVIDED ALL STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COAT OF RED LEAD PAINT AND TWO FIELD COATS OF ALUMINUM PAINT IN ACCORDANCE WITH ARTICLES 56.1 THROUGH 56.5 OF THE STANDARD SPECIFICATIONS. ALL PAINT SHALL BE FURNISHED AND APPLIED BY THE CONTRACTOR.
- PRECORING: HOLES SHALL BE PRECURED FOR THE ABUTMENT PILES IN ACCORDANCE WITH ARTICLE 60.9 (c) OF THE STANDARD SPECIFICATIONS.
- TEST PILES: THE CONTRACTOR SHALL DRIVE ONE TEST PILE AT ABUTMENTS 1-W AND 2-E AND ONE TEST PILE AT PIER 2-W AND 1-E. IN PERMANENT LOCATION IN ACCORDANCE WITH ARTICLE 60.15 OF THE STANDARD SPECIFICATIONS BEFORE ORDERING THE REMAINDER OF THE PILES.

**FUNCTIONS OF SKEW ANGLE**

$\sin 4^{\circ}-10'-45'' = 0.07288039$	$f_c = 1500 \text{ psi (SUPER. 6 BU.)}$
$\cos 4^{\circ}-10'-45'' = 0.99734669$	$f_s = 20,000 \text{ (REIN.)}$
$\tan 4^{\circ}-10'-45'' = 0.07807472$	$f_s = 20,000 \text{ psi STRUCT. (A-36)}$
	$n = 10$
	$v = 75 \text{ psi FOOTING}$
	$L.L. DEF. = L/4000 \text{ (NON-COMP.)}$

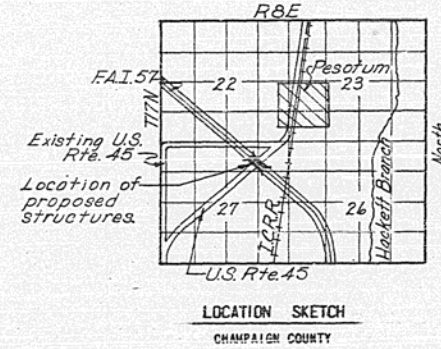
LOADING H20-S16-44 & ALTERNATE

**DESIGN STRESSES**

$f_c = 1500 \text{ psi (SUPER. 6 BU.)}$
$f_s = 20,000 \text{ (REIN.)}$
$f_s = 20,000 \text{ psi STRUCT. (A-36)}$
$n = 10$
$v = 75 \text{ psi FOOTING}$
$L.L. DEF. = L/4000 \text{ (NON-COMP.)}$

**CONE RADII TABLE**

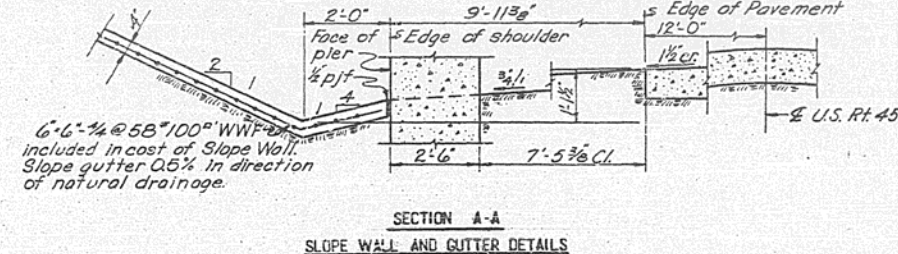
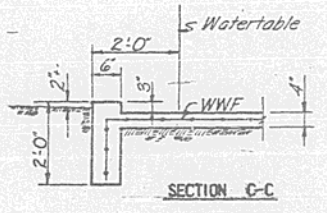
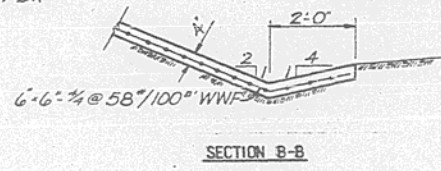
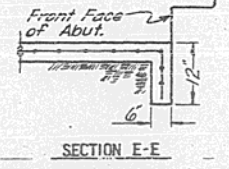
CORNER	STATION	R	R1
N.E.	119+03.82	7'-9"	34'-9"
	119+14.32	7'-9"	
N.W.	119+13.80	7'-9"	34'-9"
	119+23.55	7'-9"	
S.E.	117+84.11	7'-9"	36'-9"
	117+75.78	7'-9"	
S.W.	117+94.26	7'-9"	36'-9"
	117+86.65	7'-9"	



STATION 118+50.00  
BUILT 196 BY  
STATE OF ILLINOIS  
F.A.I. RT. 57 SECTION 10-30 MB  
F.A. PROJ. 1-57-5(27)  
LOADING H20-S16 & ALT.

SEE STANDARD 2113 AND LOCATE AS SHOWN ON BRIDGE DWG. 7 OF 11

NAME PLATE DATA

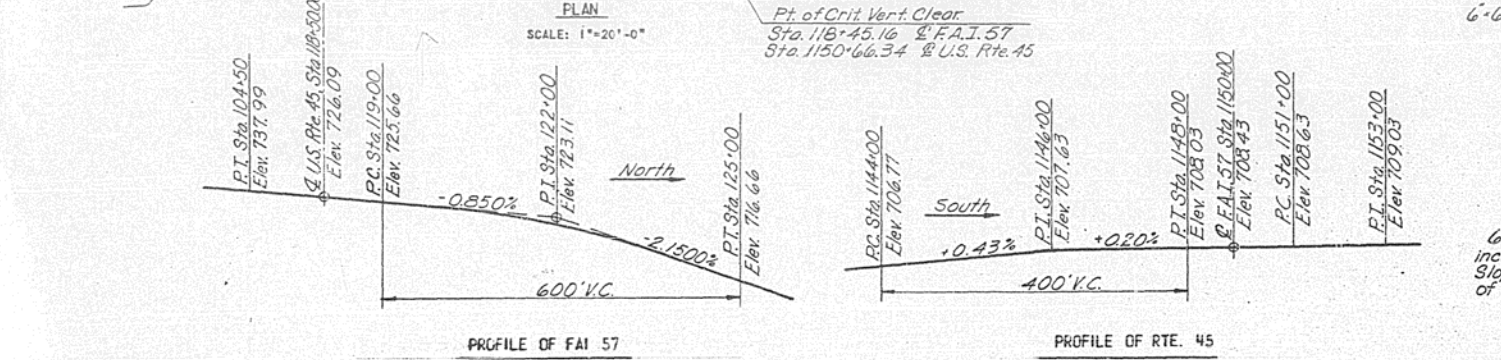
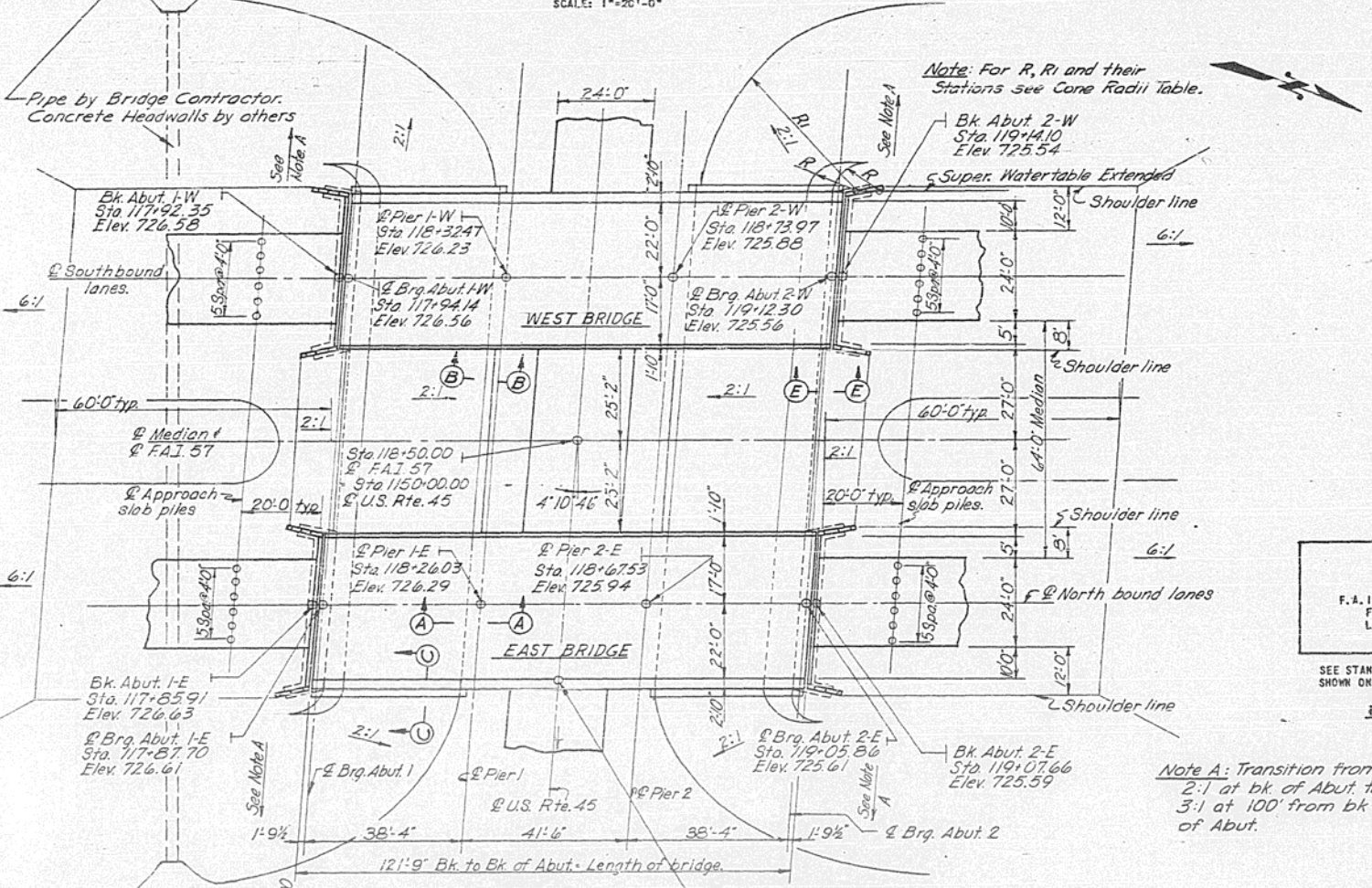
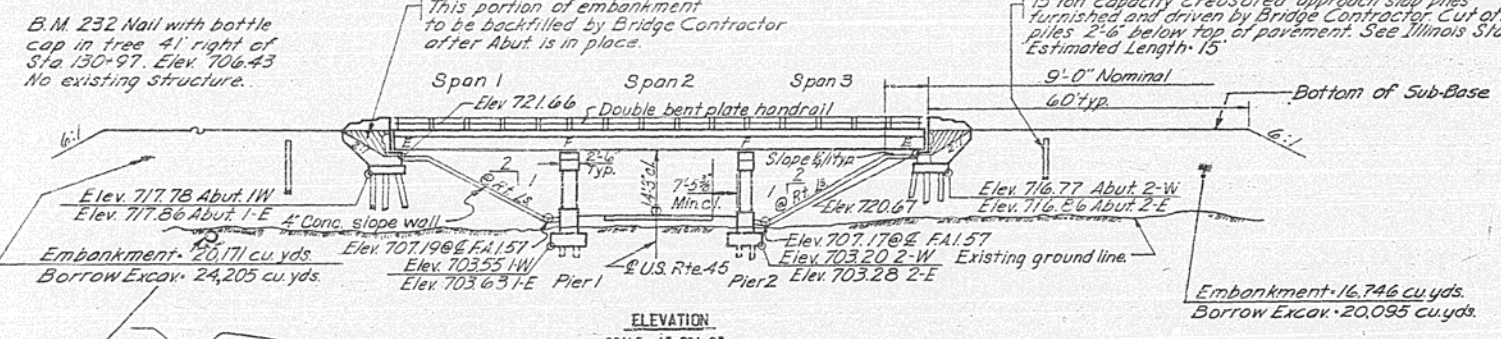


**BILL OF MATERIAL (SEC. 10-30MB)**

ITEM	UNIT	SUPER.	SUR.	TOTAL
CLASS A EXCAVATION FOR STRUCTURES	CU. YDS.		121	121
CLASS X CONCRETE	CU. YDS.	2712	3763	6475
FURNISHING & ERECTING STRUCTURAL STEEL	LBS.	184,114		184,114
FURNISH & ERECT METAL HANDRAIL	LIN. FT.	478		478
REINFORCEMENT BARS	LBS.	65,253	30,479	95,732
PROTECTIVE COAT	SQ. YDS.	1,300		1,300
CREOSOTED PILES (UP TO 20')	LIN. FT.		1,530	1,530
TEST PILES (CREOSOTED)	EACH		2	2
CONCRETE PILES	LIN. FT.		1,050	1,050
TEST PILES (CONCRETE)	EACH		2	2
NAME PLATES	EACH		2	2
SLOPE WALL 4"	SQ. YDS.	1,300		1,300

**GENERAL PLAN AND ELEVATION**

NO.	REVISION	BY	DATE
SECTION 10-30MB STATION 118+50.00			
FAI. RTE. 57 PROJECT I-57-57(2)19			
CHAMPAIGN COUNTY			
CLARK, DAILY, DIETZ AND ASSOCIATES			
CONSULTING ENGINEERS			
URBANA, ILLINOIS			
DESIGNED CBP	SCALE AS NOTED	SHEET 1	
DRAWN TNC		OF 11	
CHECKED CBP	DATE 3-1-62	JOB NO. 513-Y-11	



DESIGNED BY DATE CHECKED BY DATE IN CHARGE  
 C.B.P. T.K.C. 3/1/62 C.B.P. 3/1/62 M.F.T.

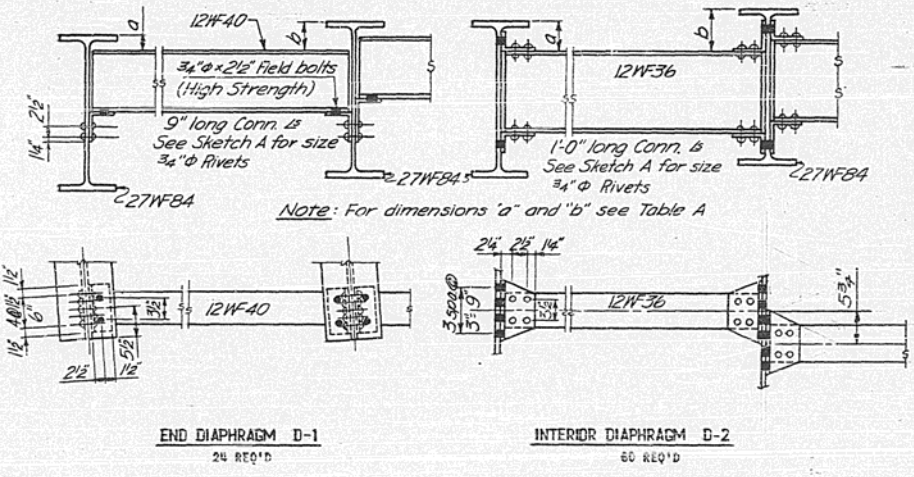
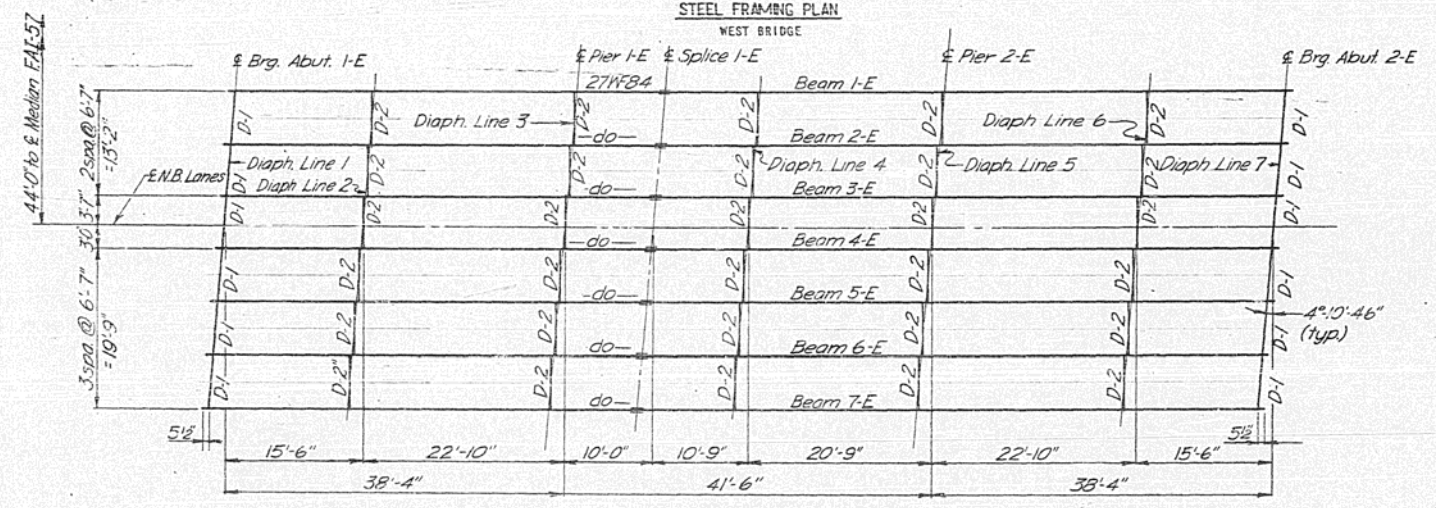
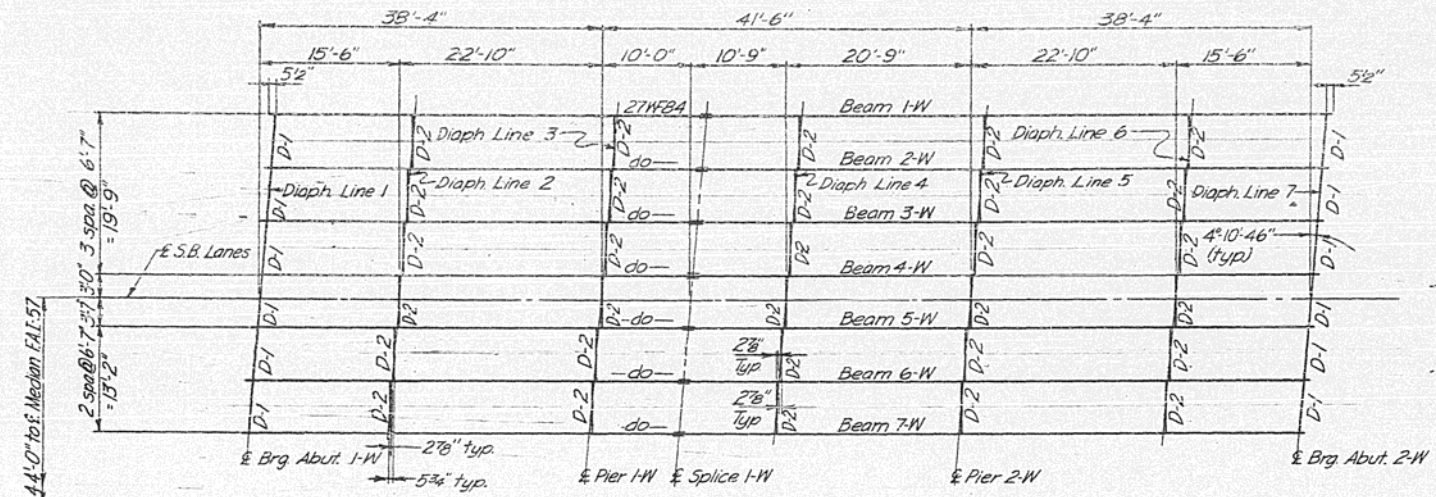


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 57	IO-30HB	CHAMPAIGN	22	7
FED. ROAD DIST. NO. 7 ILLINOIS PROJECT				

**TABLE OF BEAM ELEVATIONS**  
 NOTE: ELEVATIONS ARE TO TOP OF ROLLED BEAM FLANGE, INCLUDING LOCATIONS WHERE SPLICE PLATES ARE PRESENT. BEAMS ARE ASSUMED STRAIGHT SETTED. END OF BEAMS AND SPLICES BEFORE D.L. DEFLECTION. DEAD LOAD DEFLECTION IS NOT INCLUDED.

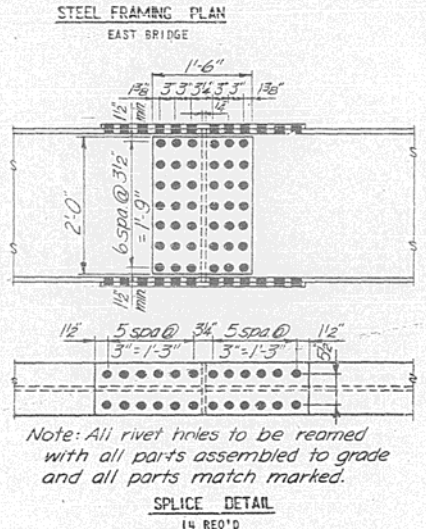
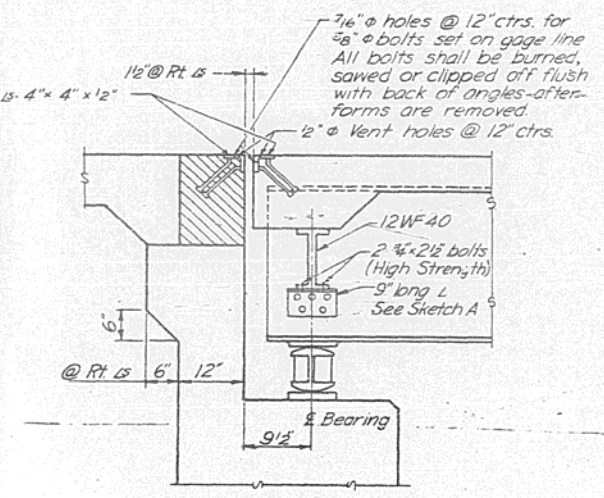
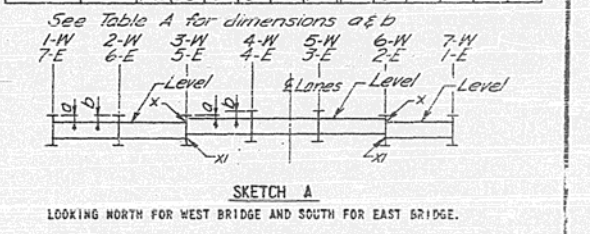
WEST BRIDGE					EAST BRIDGE						
BEAM	E. BRG. ABUT. 1-W	E. PIER 1-W	E. SPLICE 1-W	E. PIER 2-W	E. BRG. ABUT. 2-W	BEAM	E. BRG. ABUT. 1-E	E. PIER 1-E	E. SPLICE 1-E	E. PIER 2-E	E. BRG. ABUT. 2-E
1-W	725.63	725.31	725.22	724.96	724.63	1-E	725.82	725.49	725.41	725.14	724.81
2-W	725.78	725.45	725.36	725.10	724.77	2-E	725.95	725.63	725.54	725.28	724.95
3-W	725.91	725.58	725.50	725.23	724.90	3-E	726.04	725.71	725.67	725.36	725.03
4-W	725.99	725.66	725.58	725.31	724.98	4-E	726.04	725.71	725.63	725.36	725.03
5-W	725.99	725.66	725.58	725.31	724.98	5-E	725.98	725.65	725.57	725.30	724.97
6-W	725.91	725.59	725.50	725.23	724.91	6-E	725.85	725.52	725.44	725.17	724.84
7-W	725.78	725.46	725.37	725.10	724.78	7-E	725.72	725.39	725.31	725.04	724.71

- NOTES**
- BEAMS ARE NOT TO BE CAMBERED FOR DEAD LOAD DEFLECTION BUT ADVANTAGE OF NATURAL CAMBER IS TO BE TAKEN.
  - ANCHOR BOLTS SHALL BE SET BEFORE RIVETING DIAPHRAGMS OVER PIERS AND ABUTMENTS. SEE ARTICLE 54.9(1) FOR SETTING OF MASONRY BEARING PLATES AND ANCHOR BOLTS.
  - ALL ROCKERS, BEARING PLATES, LEAD PLATES, ANCHOR BOLTS, PINTLES AND WASHERS SHALL BE FABRICATED, PAINTED AND SET IN ACCORDANCE WITH 51.15 AND ARE INCLUDED FOR PAYMENT AS STRUCTURAL STEEL.
  - HIGH STRENGTH BOLTS MAY BE SUBSTITUTED FOR FIELD RIVETS IN ACCORDANCE WITH ARTICLE 54.9(1) OF THE STANDARD SPECIFICATIONS.
  - BEAMS, AND SPLICE DETAILS, ARE A-36 STEEL.

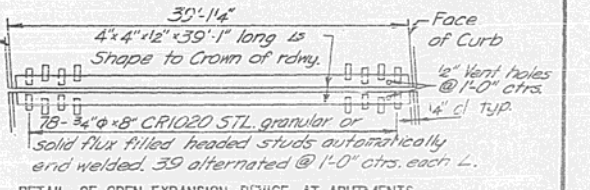
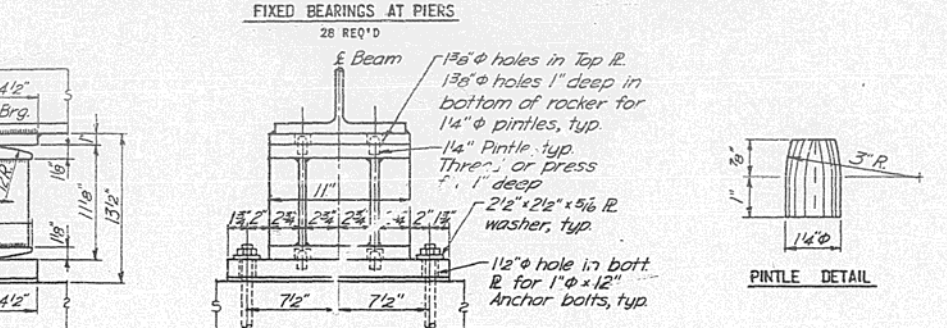
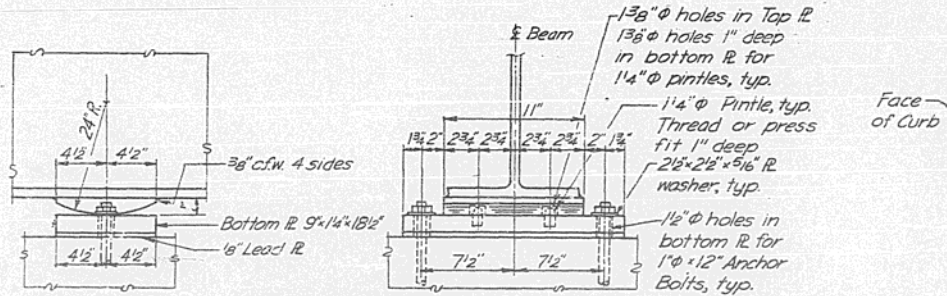


**TABLE A**

DIAPHR. LINES	DIMENSIONS	WEST BRIDGE					EAST BRIDGE				
		1-W TO 2-W	2-W TO 3-W	3-W TO 4-W	4-W TO 5-W	5-W TO 6-W	1-E TO 2-E	2-E TO 3-E	3-E TO 4-E	4-E TO 5-E	5-E TO 6-E
1 & 7	a	3'	4 1/4'	3 3/4'	4 3/4'	4 1/4'	4 3/4'	3 3/4'	4 1/4'	4 3/4'	4 1/4'
	b	4 1/4'	6 5/8'	4 3/4'	4 1/2'	3 5/8'	4 1/4'	6 5/8'	4 1/4'	4 3/4'	3 5/8'
2, 4 & 6	a	5 5/8'	7'	6 3/4'	7 1/4'	7 1/4'	8 1/2'	6 3/4'	6 1/2'	7 1/4'	6 3/4'
	b	7'	8 3/4'	7 1/4'	7 1/4'	6 3/4'	8 1/2'	7 1/4'	7 1/4'	6 3/4'	7'
3 & 5	a	5 5/8'	7 3/4'	7 1/4'	8'	8'	9 1/4'	7 1/4'	7 1/4'	8'	8'
	b	7 3/4'	9 1/4'	8'	8'	7 1/4'	9 1/4'	8'	8'	7 1/4'	7 3/4'



SPLICE	PLATE	RIVETS
WEB	2-18" x 3/8" x 2'-0"	3/4"
FLANGE	2-10" x 5/8" x 3'-0 1/4"	7/8"



**NOTE:** THE EXPANSION DEVICE SHALL BE FABRICATED TO FIT THE ROADWAY. ALL SURFACES SHALL RECEIVE TWO SHOP COATS OF RED LEAD PAINT, EXCEPT THE STUDS. THE STUDS SHALL NOT BE PAINTED.

**BILL OF MATERIALS (2 BRIDGES)**

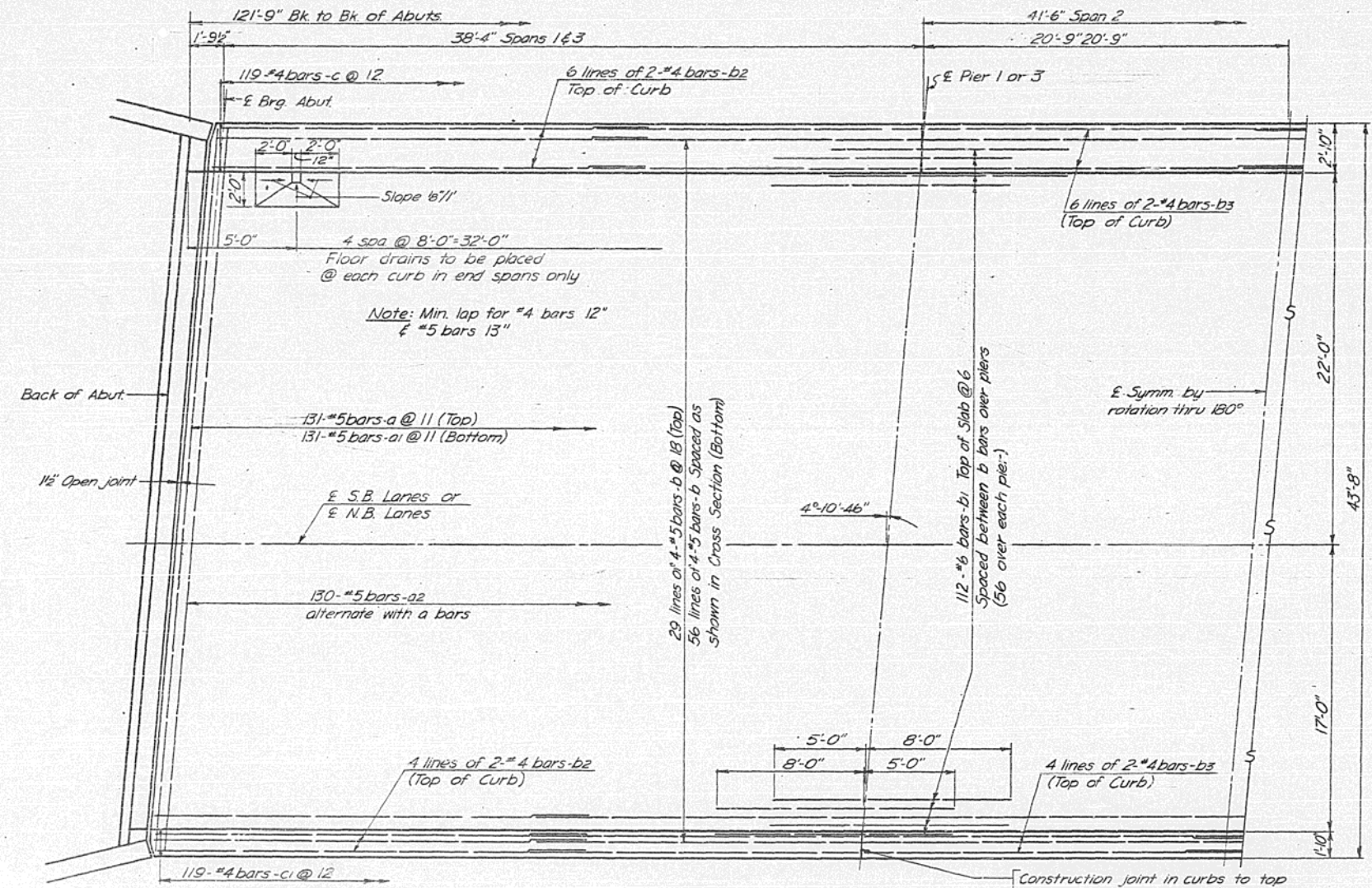
ITEM	UNIT	QUANTITY
STRUCTURAL STEEL IN GIRDERS	LBS.	144,015
STRUCTURAL STEEL IN DIAPHRAGMS	LBS.	26,119
STRUCTURAL STEEL IN BEARINGS	LBS.	9,632
STRUCTURAL STEEL IN EXPANSION DEVICE	LBS.	4,350
TOTAL STRUCTURAL STEEL	LBS.	184,114

**STEEL FRAMING PLAN**  
 F.A.I. RTE. 57 SEC 10-30HB  
 CHAMPAIGN COUNTY  
 STA. 118+50.00  
 BRIDGE DWG. 2 OF 11

DESIGNED BY: DATE: CHECKED BY: DATE: IN CHARGE: DATE:  
 CBP BOS 222-82 CBP 362 MFT

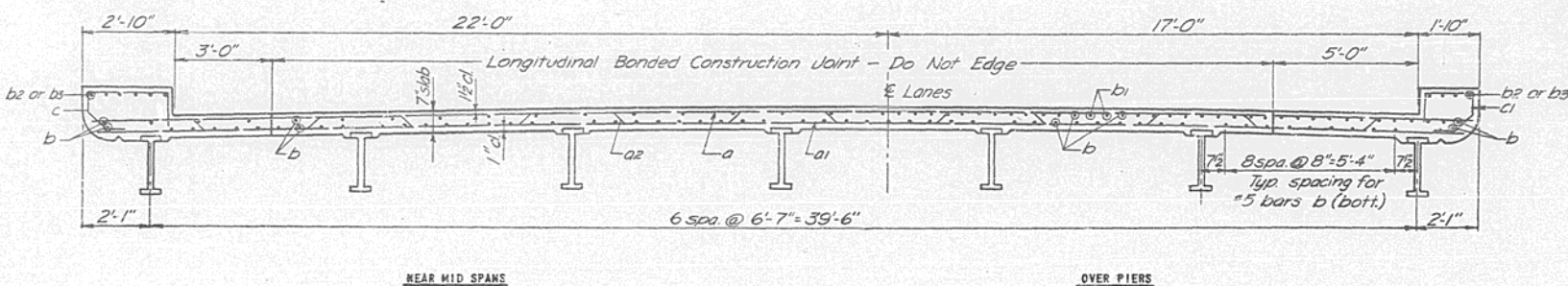
Removed note for A7 Structural Steel 2-1-63 L.O.W.





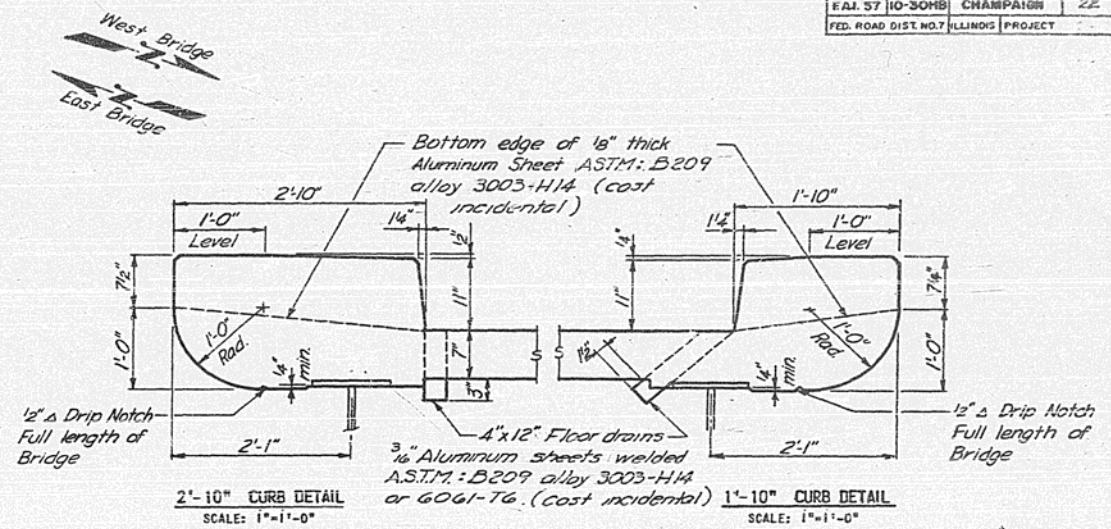
**PLAN**  
WEST BRIDGE AS SHOWN  
EAST BRIDGE SIMILAR BY ROTATING THRU 180°  
SCALE: 1/4"=1'-0"

Roadway Crown: 1/2" circular curve for 12' each side of E Lanes remainder sloped at 0.25 in. per ft.



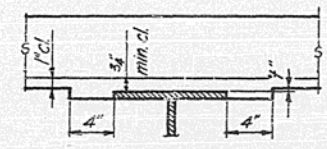
**CROSS SECTION**

Note: See Bridge Dwg. 8 of 11 for Handrail Details



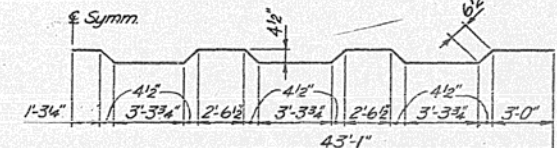
**2'-10" CURB DETAIL**  
SCALE: 1"=1'-0"

**1'-10" CURB DETAIL**  
SCALE: 1"=1'-0"

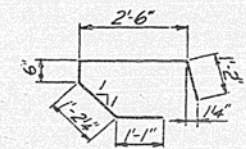


**METHOD OF DETERMINING FILLET HEIGHT**

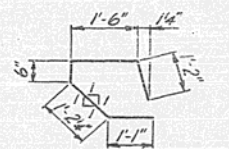
AFTER ALL STRUCTURAL STEEL HAS BEEN ERECTED, ELEVATIONS OF THE TOP FLANGES OF THE BEAMS SHALL BE TAKEN AT THE STATION SHOWN ON BRIDGE DWG. 9 OF 11. THESE ELEVATIONS SUBTRACTED FROM THE "THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION" SHOWN ON BRIDGE DWG. 9 OF 11, MINUS FLOOR THICKNESS EQUALS THE FILLET HEIGHTS ABOVE TOP OF BEAMS.



**BAR a2**



**BAR c**

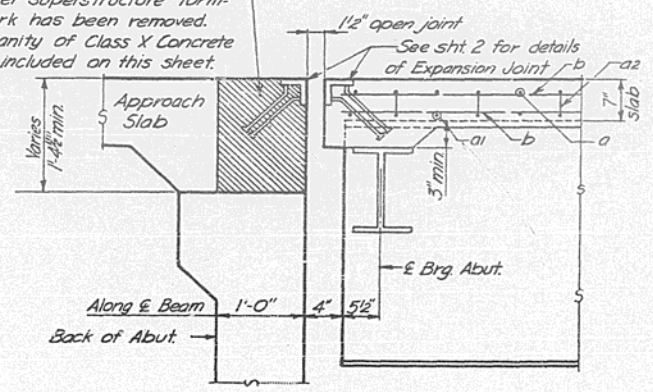


**BAR c1**

**BILL OF MATERIAL (TWO BRIDGES)**

BAR	NO.	SIZE	LENGTH	SHAPE
a	262	#5	43'-0"	—
a1	262	#5	42'-6"	—
a2	260	#5	45'-1"	~
b	680	#5	30'-6"	—
b1	224	#6	13'-0"	—
b2	80	#4	20'-0"	—
b3	48	#4	21'-3"	—
c	238	#4	6'-6"	U
c1	238	#4	5'-6"	U
CLASS X CONCRETE			CU. YDS.	271.2
REINFORCEMENT BARS			LBS.	65,253
PROTECTIVE COAT			SQ. YDS.	1,300

Shaded area to be poured after superstructure formwork has been removed. Quantity of Class X Concrete is included on this sheet.

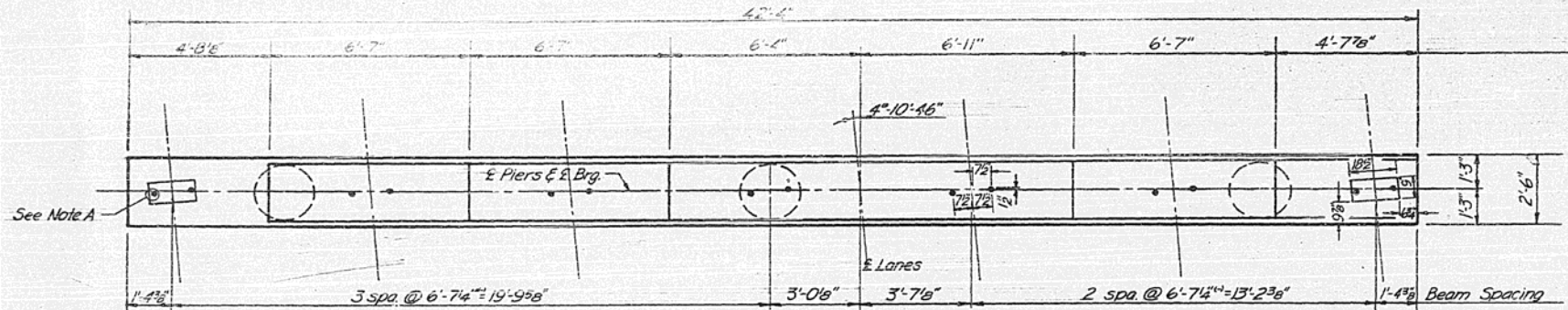


**SECTION THRU ABUTMENT**  
SCALE: 1"=1'-0"

**SUPERSTRUCTURE**  
F.A.I. RTE. 57 SEC 10-30HB  
CHAMPAIGN COUNTY  
STA. 118+50.00  
BRIDGE DWG. 3 OF 11

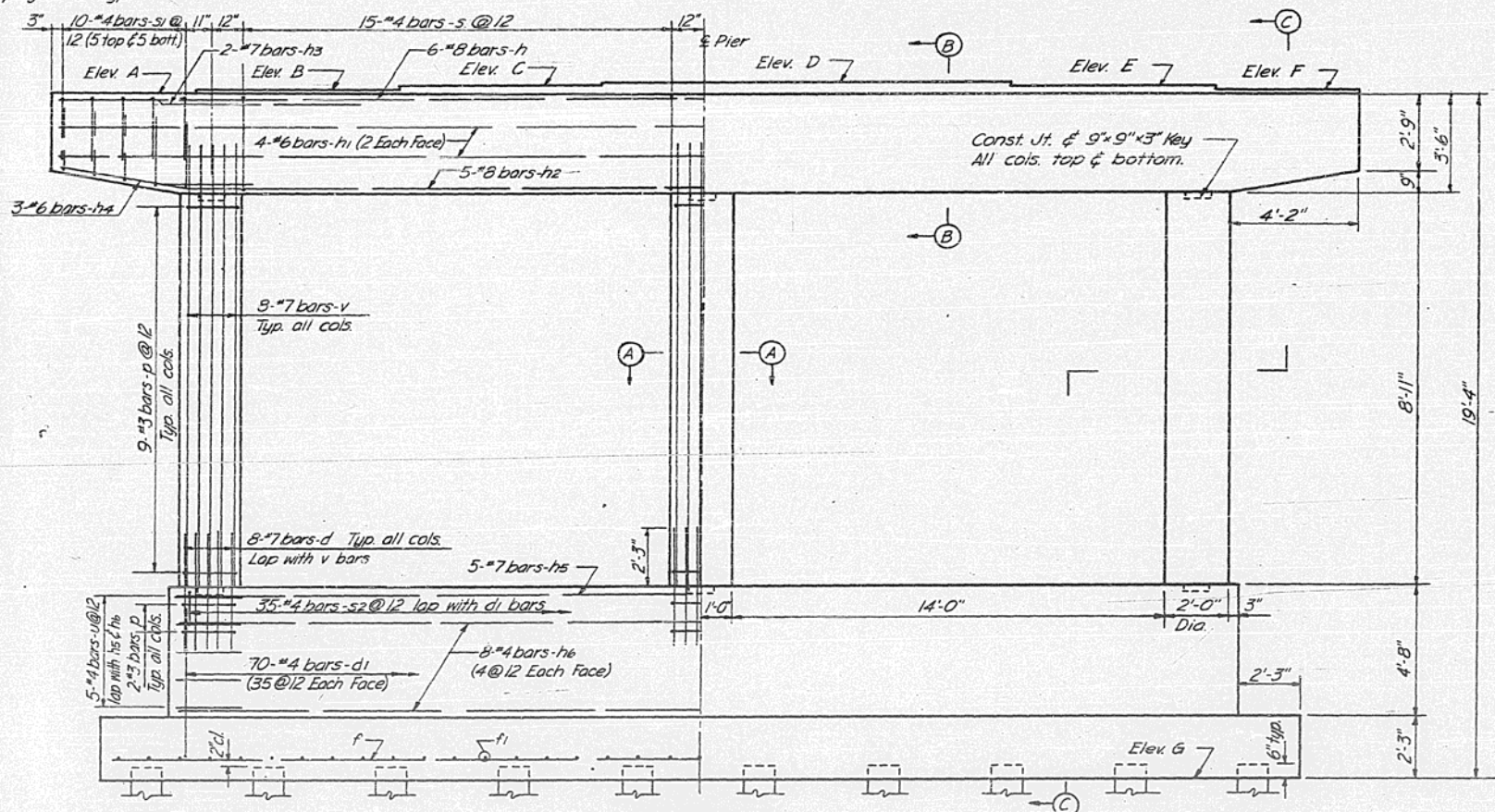


ROUTE NO	SECTION	COUNTY	TOTAL SHEETS
F.A.I. 57	10-30HB	CHAMPAIGN	22
FED. ROAD DIST NOT ILLINOIS PROJECT			9

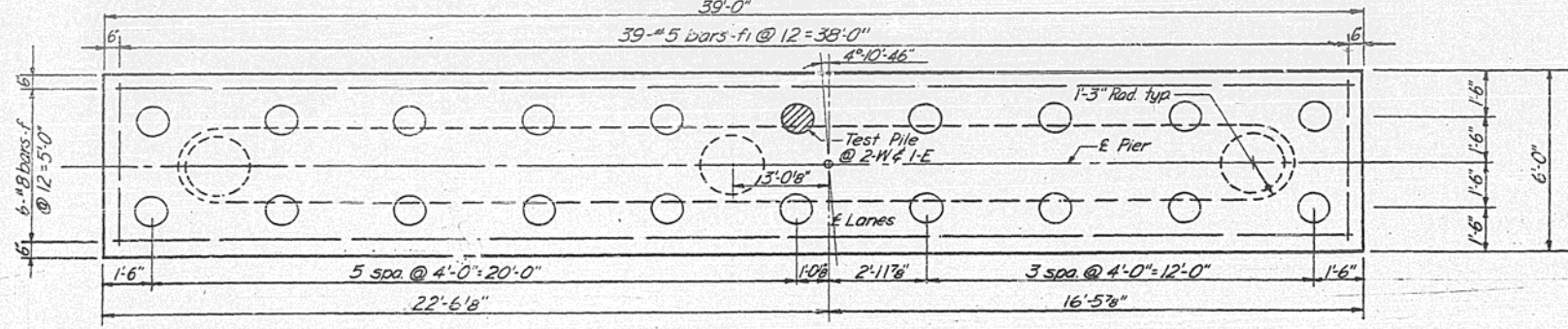


Note A: 1"  $\phi$  x 12" Anchor bolt project 3" typ.

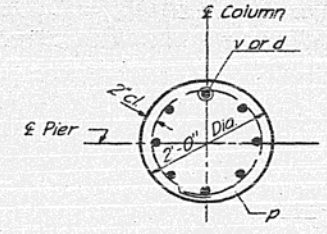
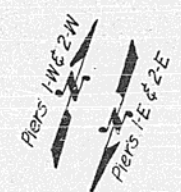
TOP PLAN



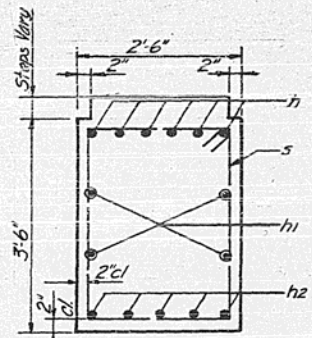
ELEVATION  
LOOKING NORTH PIERS 1-W & 2-W  
LOOKING SOUTH PIERS 1-E & 2-E



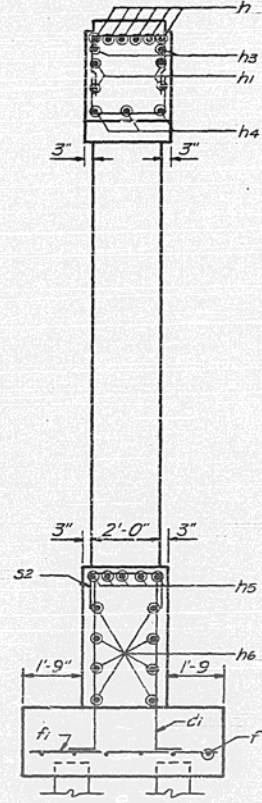
FOOTING PLAN



SECTION A-A  
SCALE: 3/4"=1'-0"



SECTION B-B  
SCALE: 3/4"=1'-0"



SECTION C-C  
SCALE: 3/8"=1'-0"

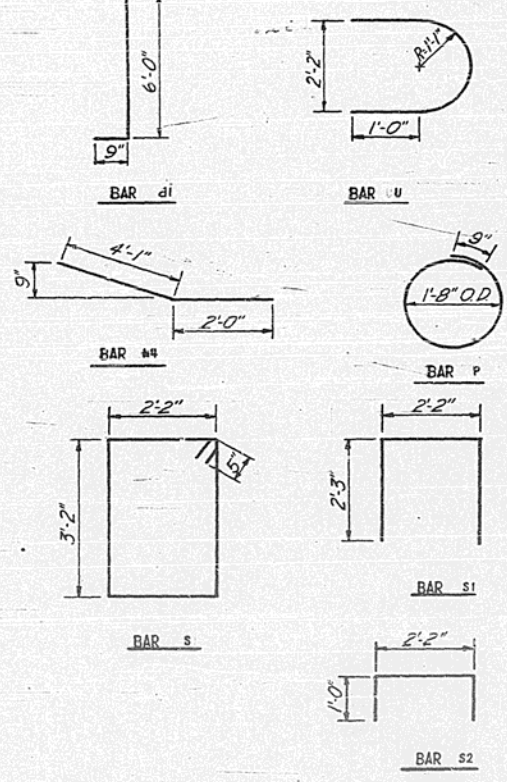


TABLE OF ELEVATIONS

ELEV.	PIER 1W	PIER 2W	PIER 1E	PIER 2E
A	722.88	722.53	722.96	722.61
B	723.02	722.67	723.10	722.74
C	723.16	722.80	723.22	722.87
D	723.23	722.88	723.29	722.93
E	723.16	722.81	723.20	722.85
F	723.03	722.68	723.06	722.71
G	703.55	703.20	703.63	703.28

BILL OF MATERIAL (4 PIERS)

BAR	NO.	SIZE	LENGTH	SHAPE
d	96	#7	4'-6"	—
d1	280	#4	6'-9"	J
f	24	#8	38'-6"	—
f1	156	#5	5'-6"	—
h	24	#8	42'-0"	—
h1	16	#6	42'-0"	—
h2	20	#8	33'-8"	—
h3	16	#7	6'-6"	—
h4	24	#6	6'-1"	—
h5	20	#7	32'-6"	—
h6	32	#4	32'-6"	—
p	132	#3	6'-0"	O
s	120	#4	11'-6"	□
s1	80	#4	6'-8"	□
s2	140	#4	4'-2"	□
u	40	#4	5'-5"	C
v	96	#7	11'-0"	—
CLASS X CONCRETE				CU. YDS. 204.2
REINFORCEMENT BARS				LBS. 17,730
CREOSOTED PILES (UP TO 20")				LIN. FT. 11,170
TEST PILES (TIMBER)				EACH 2
CLASS A EXCAV. FOR				CU. YDS. 121

PILE DATA  
 TYPE:-----CREOSOTED  
 MIN. CAPACITY:---20 TONS  
 ESTIMATED LENGTH:--15 FT.  
 NO. REQUIRED:-----78 (DOES NOT INCLUDE TEST PILES)  
 TEST PILES:-----2 (ONE EACH AT PIER 2-W & PIER 1-E)

PIERS  
 F.A.I. RTE. 57 SEC 10-30HB  
 CHAMPAIGN COUNTY  
 STA. 118+50.00  
 BRIDGE DWG 4 OF 11

DESIGNED BY: [Name] DATE CHECKED BY: [Name] IN CHARGE: [Name]  
 H.P. E.L.M. Feb. 62 C.B.P. J. 62 M.F.T.



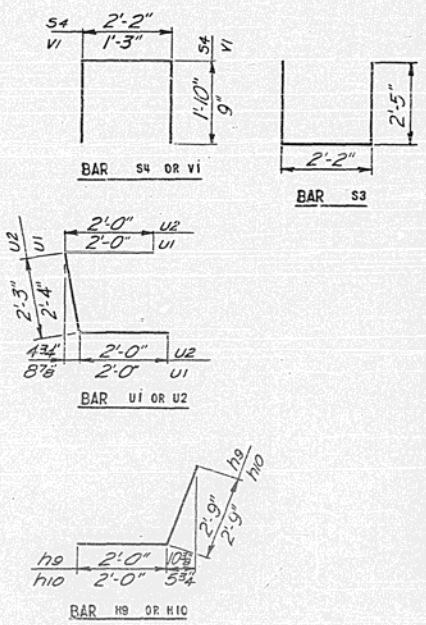
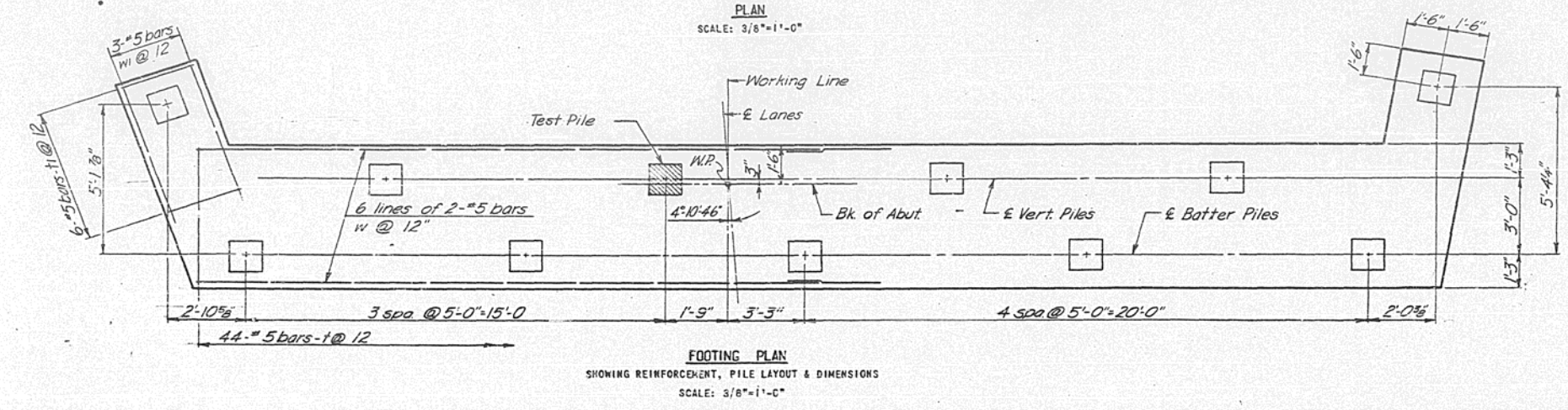
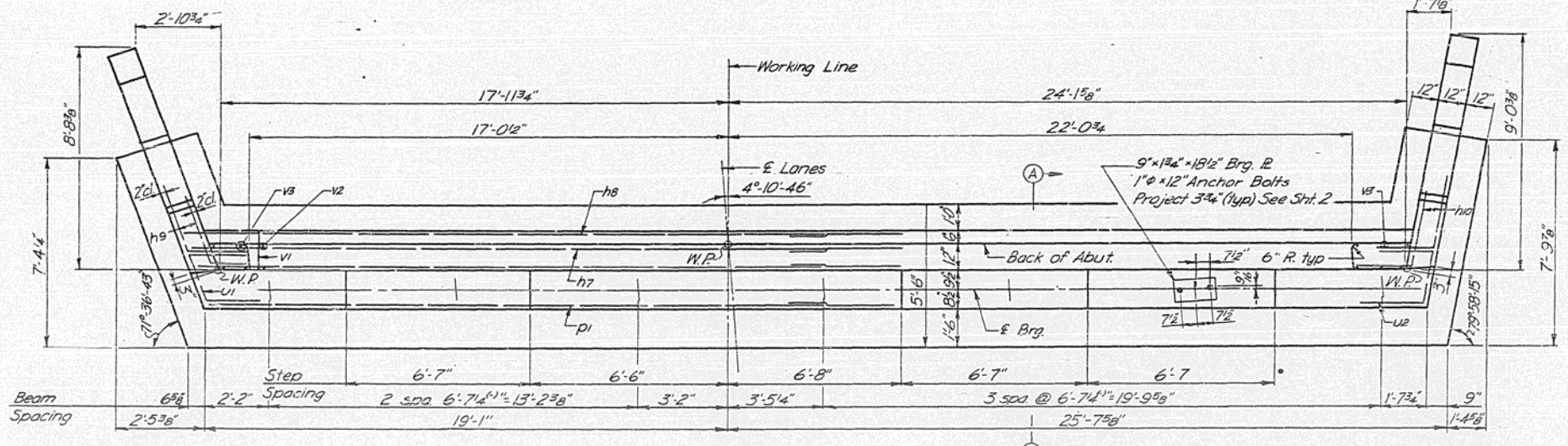
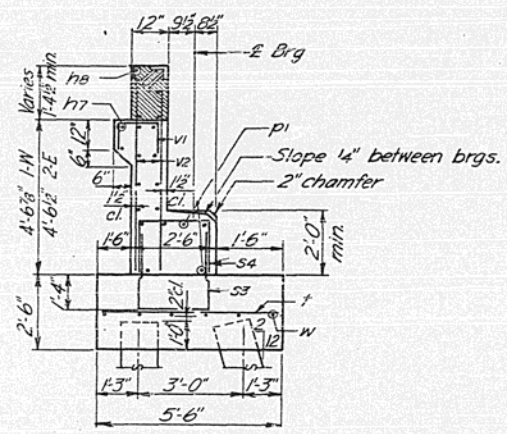
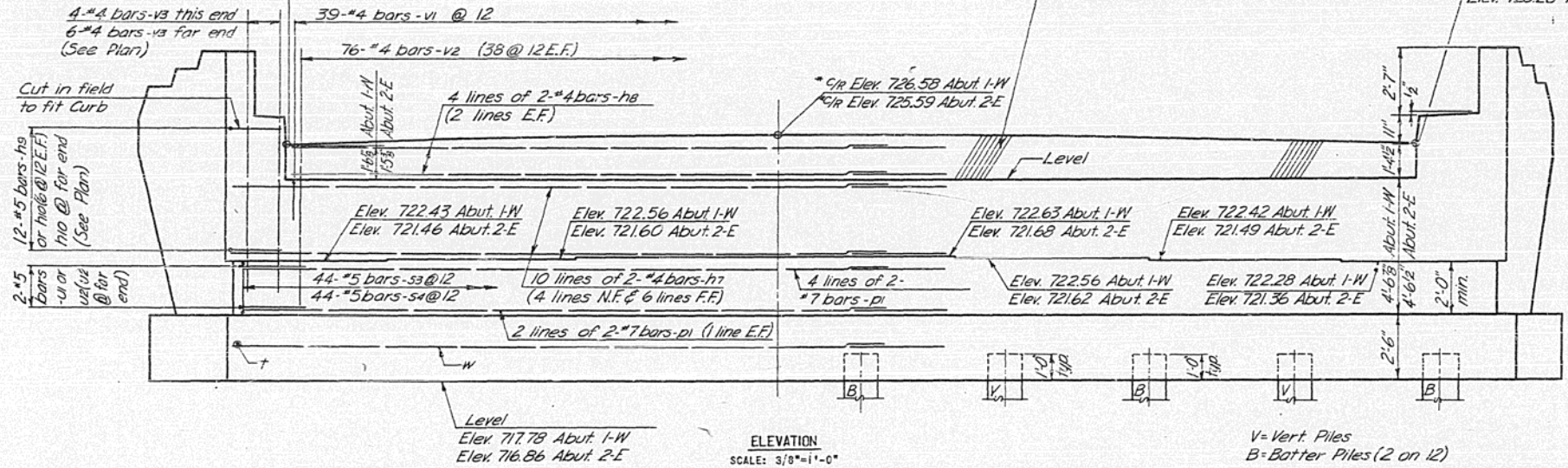
ROUTE NO. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 57 10-30HB	CHAMPAIGN	22	10
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT		

E.F. = Each Face  
F.F. = Far Face  
N.F. = Near Face

\*These elevations are given at back of abutment

Hatched area to be poured after superstructure form work has been removed. This quantity of Class X Concrete to be included with the Superstructure.

Note: Work this Dwg with Dwg #7



BILL OF MATERIAL (TWO ABUTS.)

BAR	NO.	SIZE	LENGTH	SHAPE
h7	40	#4	22'-9"	---
h8	16	#4	20'-0"	---
h9	24	#5	4'-9"	---
h10	24	#5	4'-9"	---
p1	24	#7	23'-4"	---
s3	88	#5	7'-0"	---
s4	88	#5	5'-10"	---
t	88	#5	5'-0"	---
u1	24	#5	2'-6"	---
u1	4	#5	6'-4"	---
u2	4	#5	6'-3"	---
v1	78	#4	2'-9"	---
v2	152	#4	5'-3"	---
v3	20	#4	6'-3"	---
w	24	#5	24'-3"	---
w1	12	#5	6'-0"	---

CLASS X CONCRETE	CU. YDS.	75.6
REINFORCEMENT BARS	LBS.	5398
CONCRETE PILES	LIN. FT.	500
TEST PILES (CONC.)	EACH	2

BILL OF MATERIAL DOES NOT INCLUDE REINFORCEMENT BARS AND CLASS X CONCRETE FOR WINGWALLS.

PILE DATA  
TYPE: CONCRETE. SEE SPECIAL PROVISIONS FOR OPTIONAL TYPE.  
MIN. CAPACITY: 30 TONS  
ESTIMATED LENGTH: 25 FT.  
NO. REQUIRED: 20 (DOES NOT INCLUDE TEST PILES)  
TEST PILES: 2 (ONE EACH ABUT.)

ABUTMENTS 1-W & 2-E  
F.A.I. RTE. 57 SE' 10-30HB  
CHAMPAIGN COUNTY  
STA. 118+50.00  
BRIDGE DWG. 5 OF 11  
JOB NO. 513-V41

DESIGNED BY HP  
DRAWN BY DATE  
CHECKED BY DATE  
IN CHARGE  
BUS 2-10-62  
CBP 2-15-62  
MFT



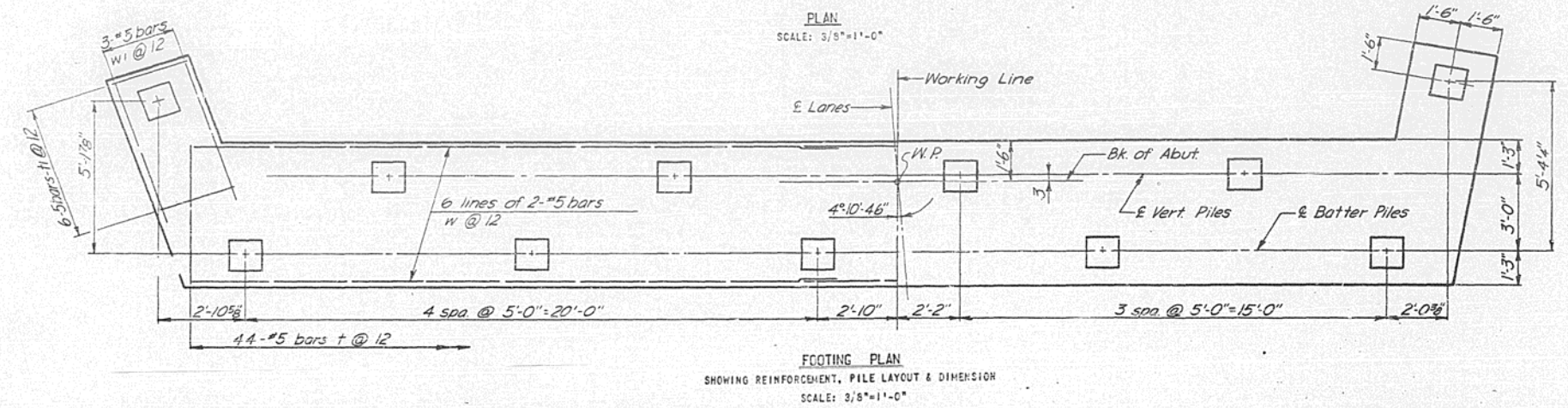
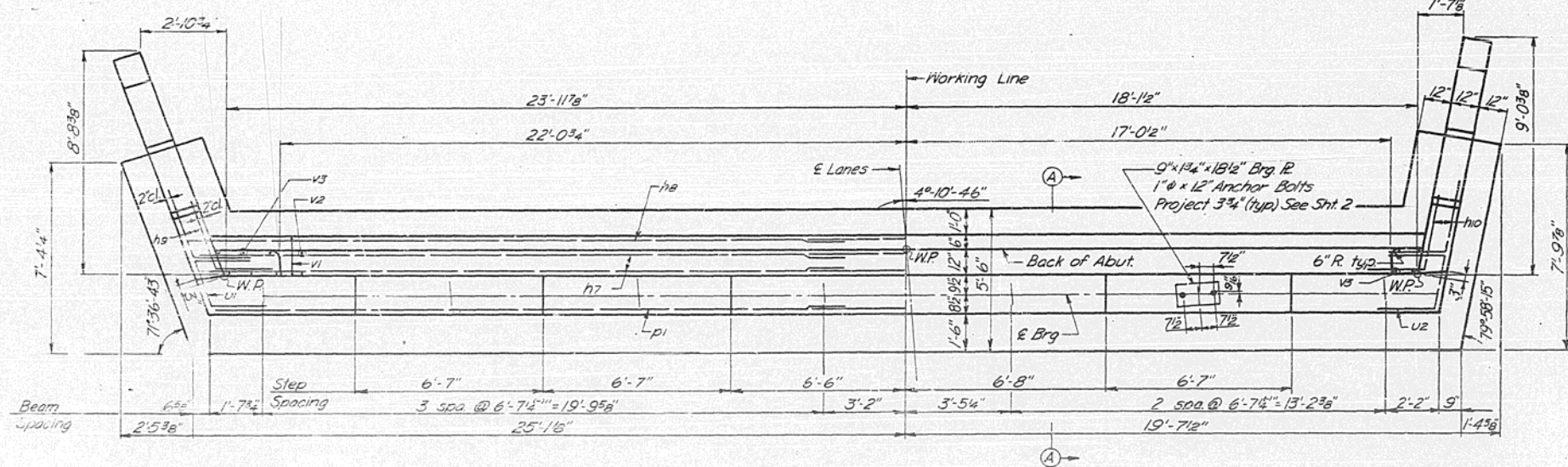
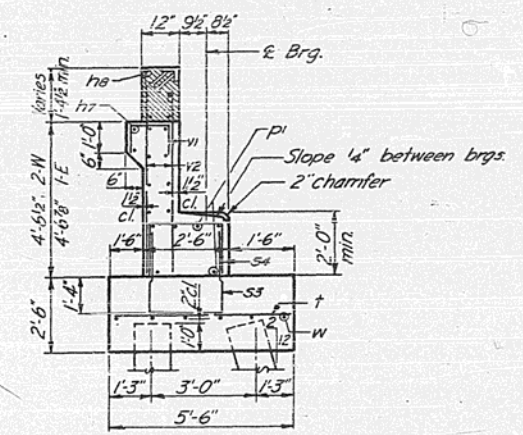
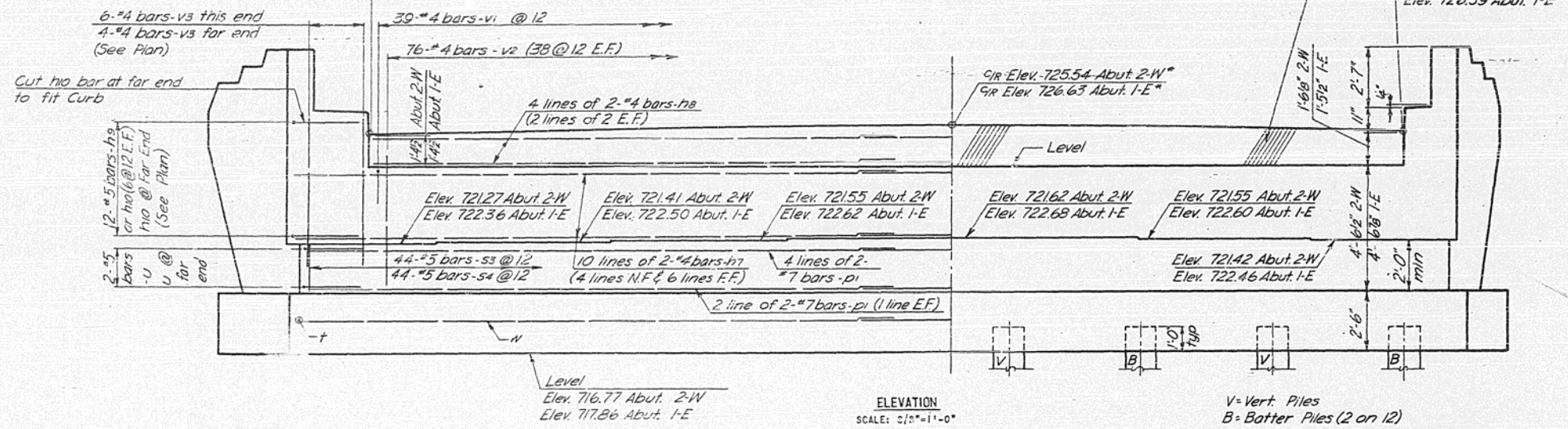
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	10-30H	CHAMPAIGN	22	11
FED. ROAD DIST. NO. 7	ALINDS PROJECT			

E.F. = Each Face  
F.F. = Far Face  
N.F. = Near Face

Hatched area to be poured after superstructure form work has been removed. This quantity of Class X Concrete to be included with Superstructure.

\*These elevations are given at back of Abutment

Note: Work this Dwg. with Dwg. #7



BILL OF MATERIAL (TWO ABUTS.)

BAR	NO.	SIZE	LENGTH	SHAPE
h7	40	#4	22'-9"	
h8	16	#4	20'-0"	
h9	24	#5	4'-9"	
h12	24	#5	4'-9"	
p1	24	#7	23'-4"	
s3	88	#5	7'-0"	
s4	88	#5	5'-10"	
t	88	#5	5'-0"	
u1	24	#5	2'-6"	
u1	4	#5	6'-4"	
u2	4	#5	6'-3"	
v1	78	#4	2'-9"	
v2	152	#4	5'-3"	
v3	20	#4	6'-3"	
w	24	#5	24'-3"	
w1	12	#5	6'-0"	

CLASS X CONCRETE	CU. YDS.	75.6
REINFORCEMENT BARS	LBS.	5399
CONCRETE PILES	LIN. FT.	550

BILL OF MATERIAL DOES NOT INCLUDE REINFORCEMENT BARS AND CLASS X CONCRETE FOR WINDHALLS.

PILE DATA

TYPE:-----CONCRETE. SEE SPECIAL PROVISIONS FOR OPTICAL TYPE.  
MIN. CAPACITY:-----30 TONS  
ESTIMATED LENGTH:-----25 FT.  
NO. REQUIRED:-----22  
TEST PILES:-----NONE

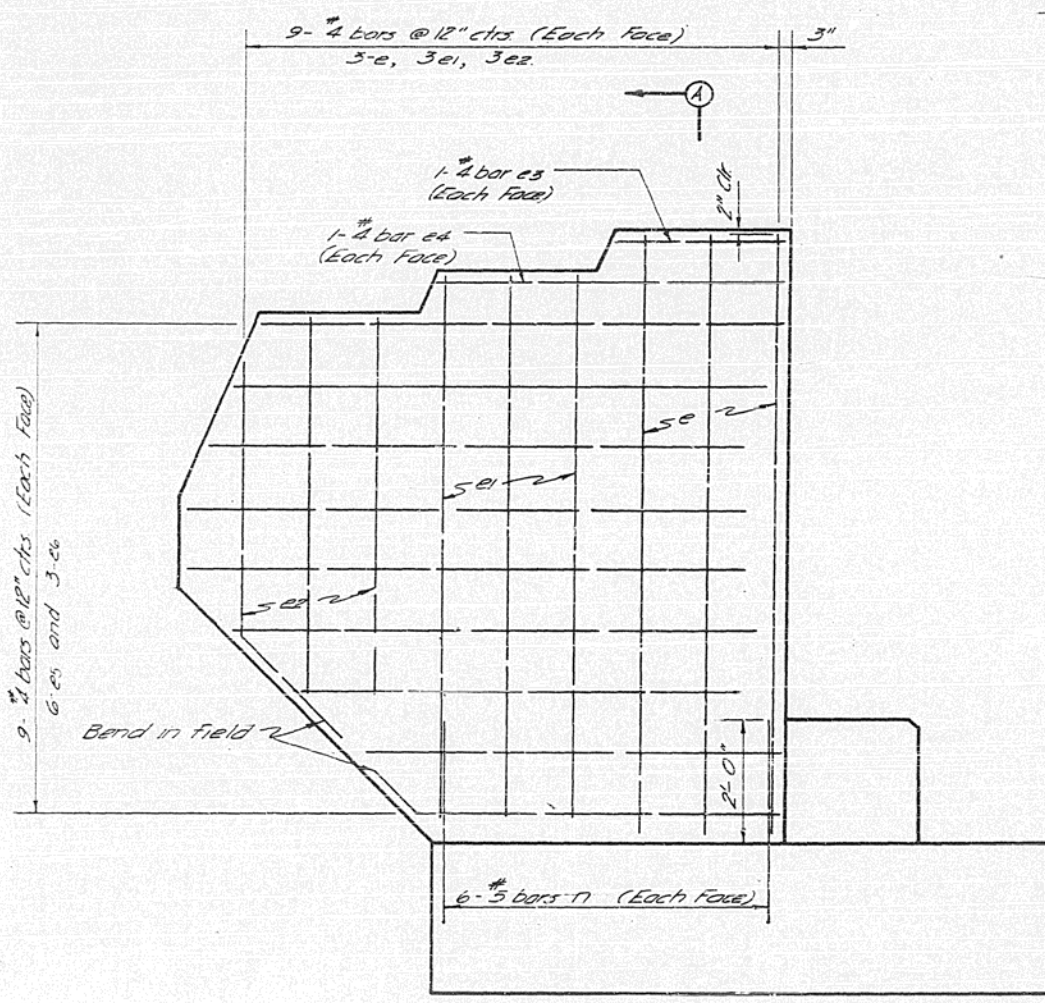
ABUTMENTS 2-W & 1-E  
F.A.I. RTE. 57 SEC 10-30H  
CHAMPAIGN COUNTY  
STA. 118+50.00

DESIGNED BY: [Name] DATE: [Date]  
 CHECKED BY: [Name] DATE: [Date]  
 DRAWN BY: [Name] DATE: [Date]



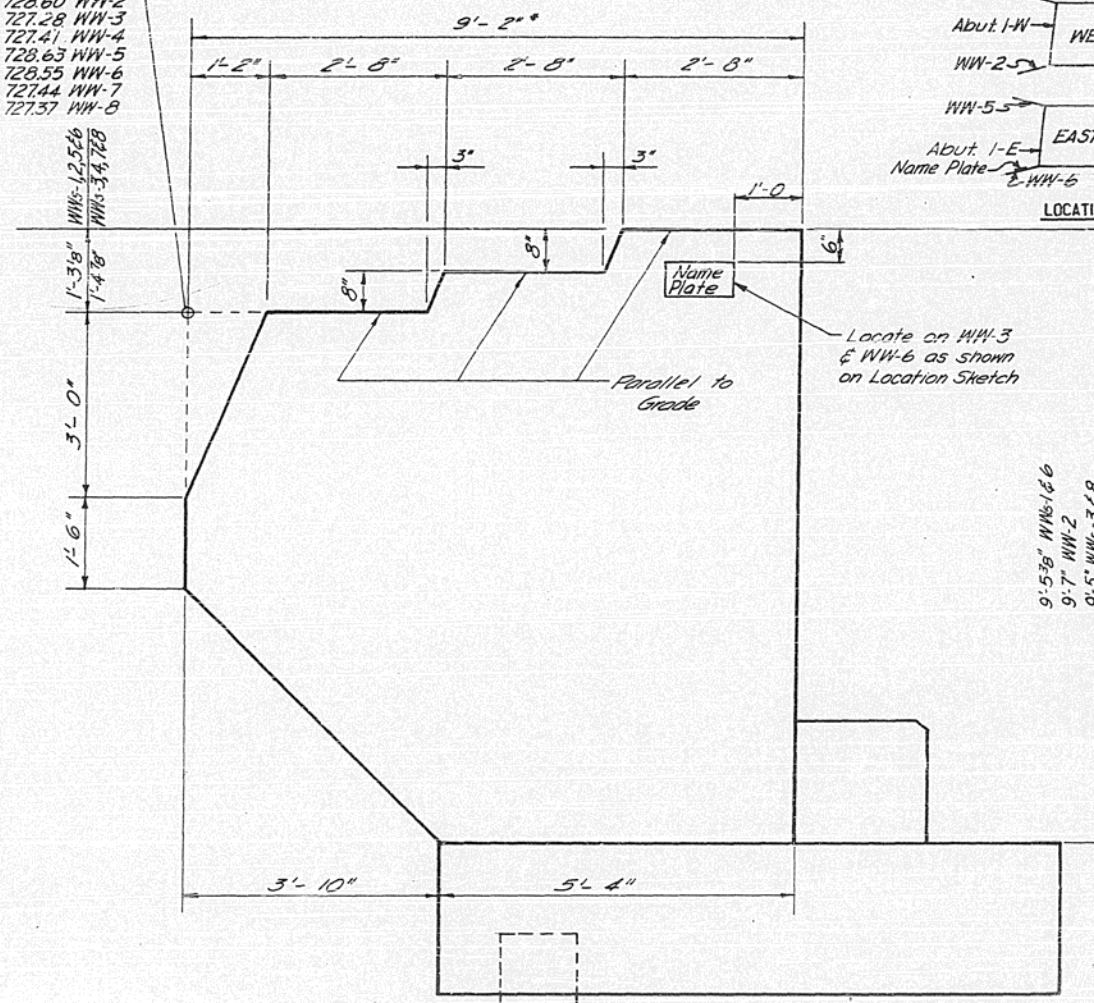
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 57	10-30HB	CHAMPAIGN	22	12
FED. ROAD DIST. NO. 7		ILLINOIS PROJECT		

BRIDGE DWG 7 OF 11  
\*ALONG INSIDE FACE OF WING.

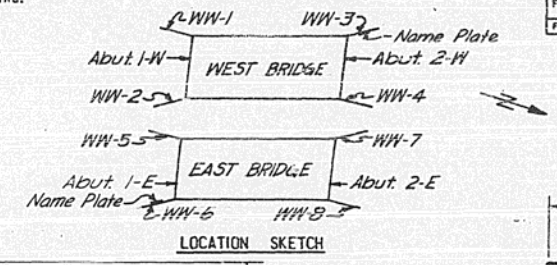


ELEVATION

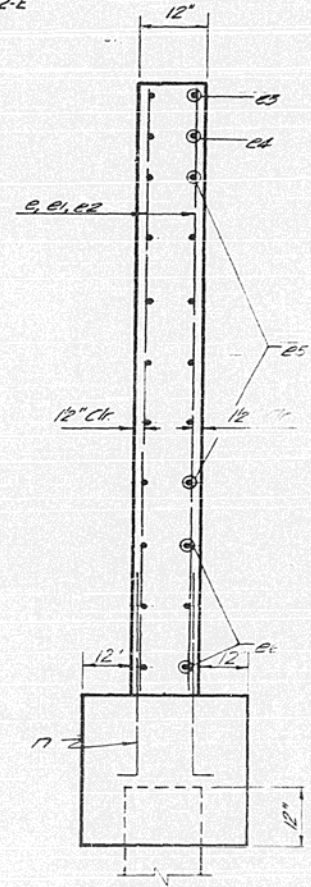
- Elev. 728.47 WW-1
- Elev. 728.60 WW-2
- Elev. 727.28 WW-3
- Elev. 727.41 WW-4
- Elev. 728.63 WW-5
- Elev. 728.55 WW-6
- Elev. 727.44 WW-7
- Elev. 727.37 WW-8



ELEVATION



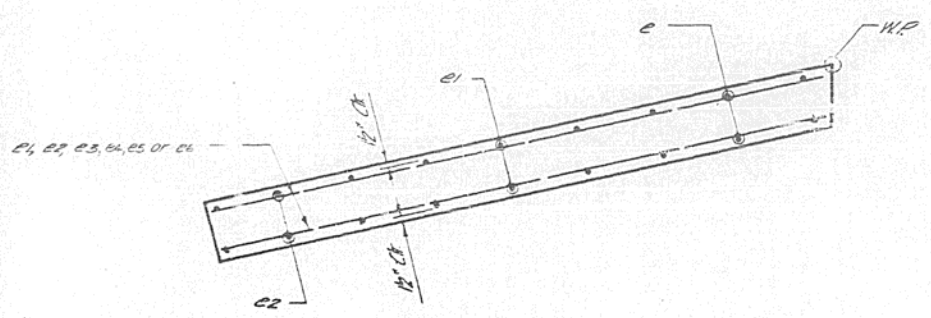
LOCATION SKETCH



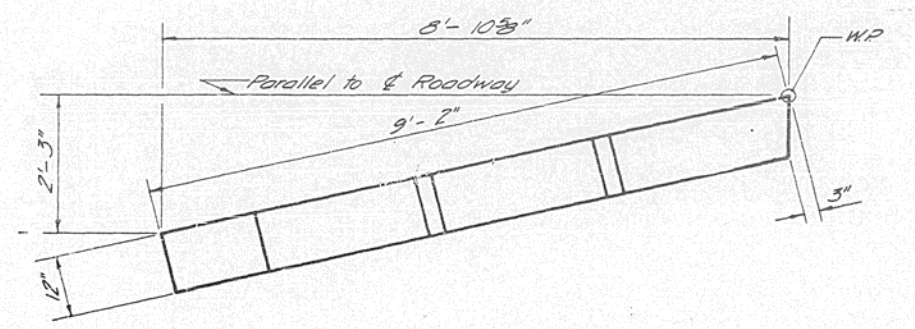
SECTION A-A

BILL OF MATERIAL (8 WINGWALLS)

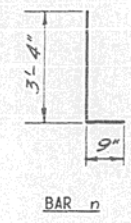
BAR	NO.	SIZE	LENGTH	SHAPE
e	48	#2	9'-2"	---
e1	48	#4	8'-5"	---
e2	48	#4	6'-6"	---
e3	16	#4	2'-5"	---
e4	16	#4	5'-0"	---
e5	96	#4	7'-8"	---
e6	48	#4	6'-4"	---
n	96	#5	4'-1"	---
CLASS X CONCRETE		CC. 100	20.9	
REINFORCEMENT BARS		LES	1953	
NAME PLATES		EACH	2	



PLAN



PLAN

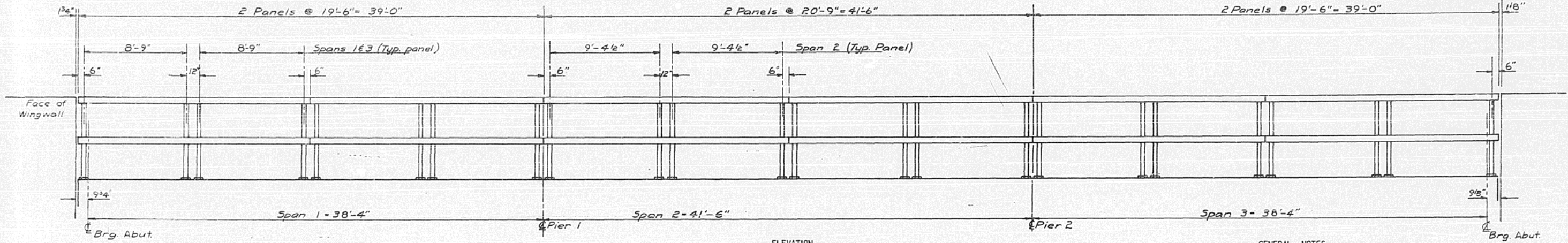


BAR n

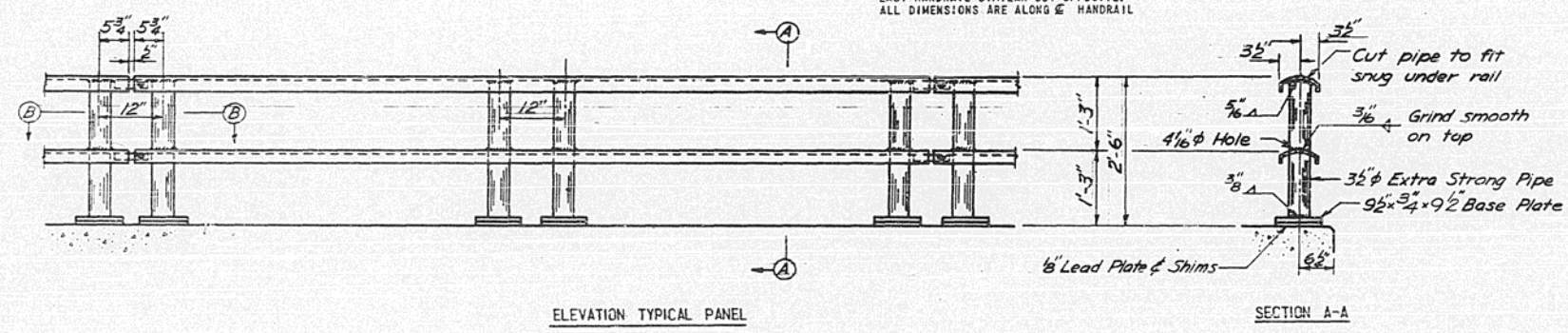
WINGWALLS  
FAI. RTE 57 SEC. 10-30HB  
CHAMPAIGN COUNTY  
STA 118 +50.00  
BRIDGE DWG 7 OF 11



ROUTE NO.	SECTION	COUNTY	TOTAL SHEET	SHEET NO.
FAI 57	10-30HB	CHAMPAIGN	22	13
FED. ROAD DIST. NO. 7		ILLINOIS PROJECT		



- GENERAL NOTES**
- AFTER ERECTION ALL BOLTS AND WASHERS SHALL BE SPOT POINTED WITH ONE COAT OF RED LEAD PAINT AND TWO COATS OF ALUMINUM PAINT.
  - PROVIDE ONE 8" AND TWO 1/16" SHIMS FOR 50% OF THE POSTS.

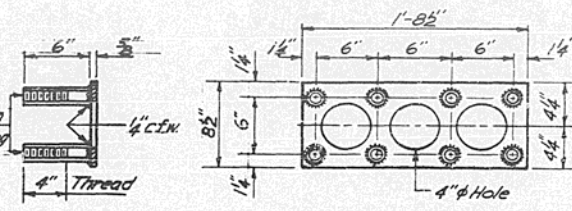
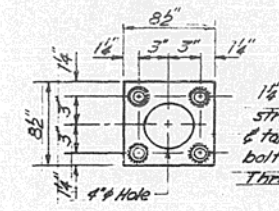
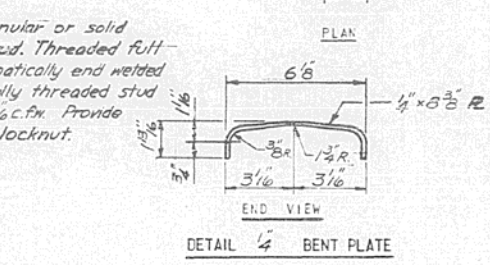
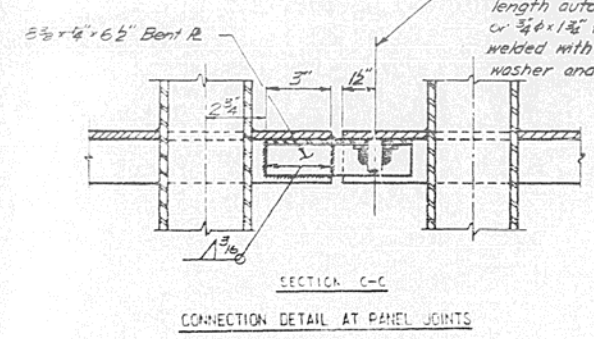
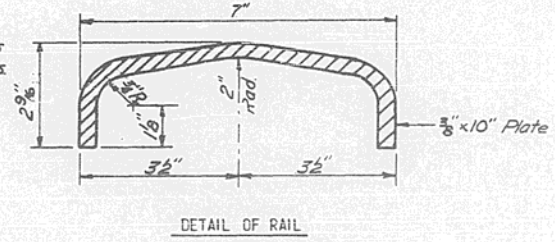
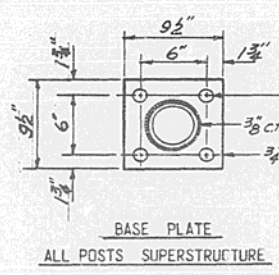
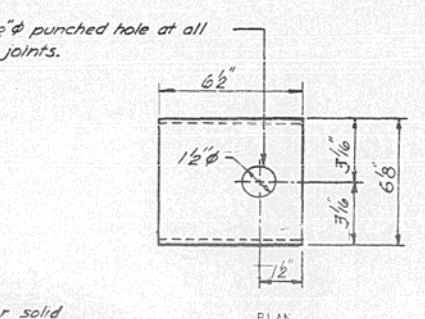
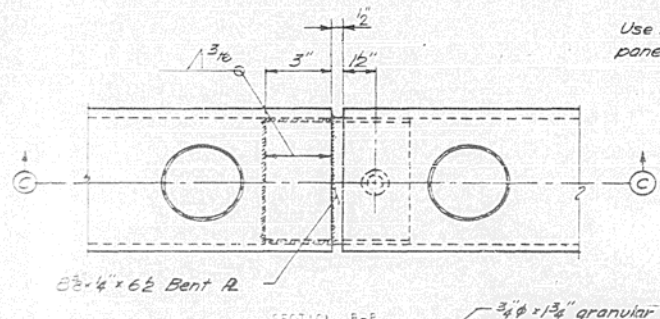


Handwritten calculations:

38'-4"  
41'-6"  
38'-4"  
-----  
117'-4"  
118'-2"  
8"  
-----  
118'-10"  
119'-6"  
-----  
47'-6"

**BILL OF MATERIAL**

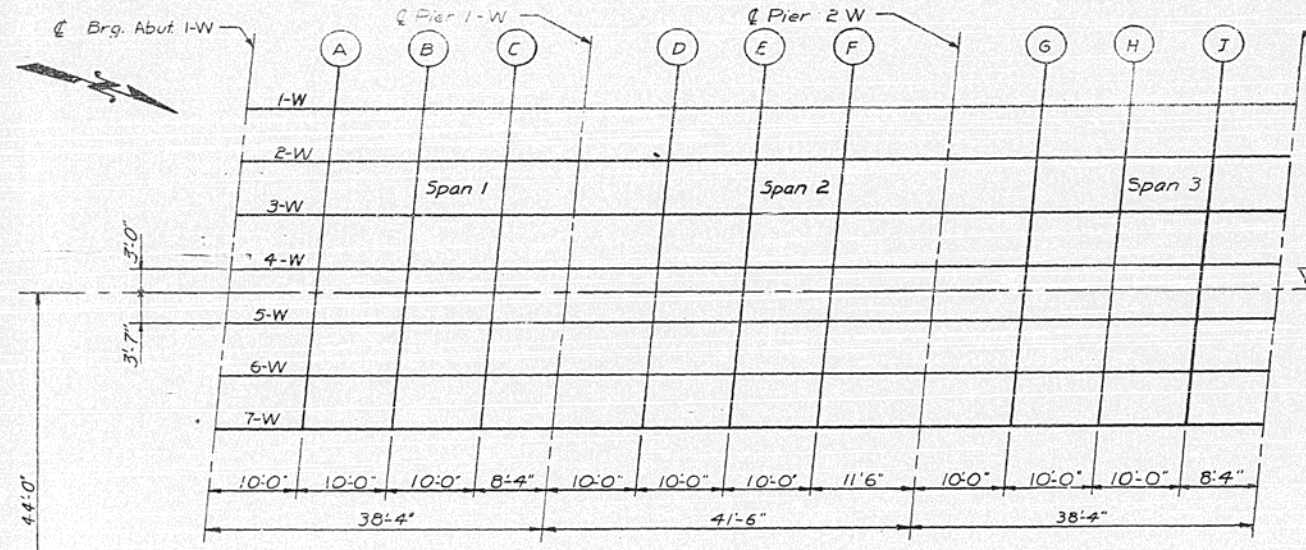
ITEM	UNIT	QUANTITY
METAL HANDRAIL	LINE FT.	476



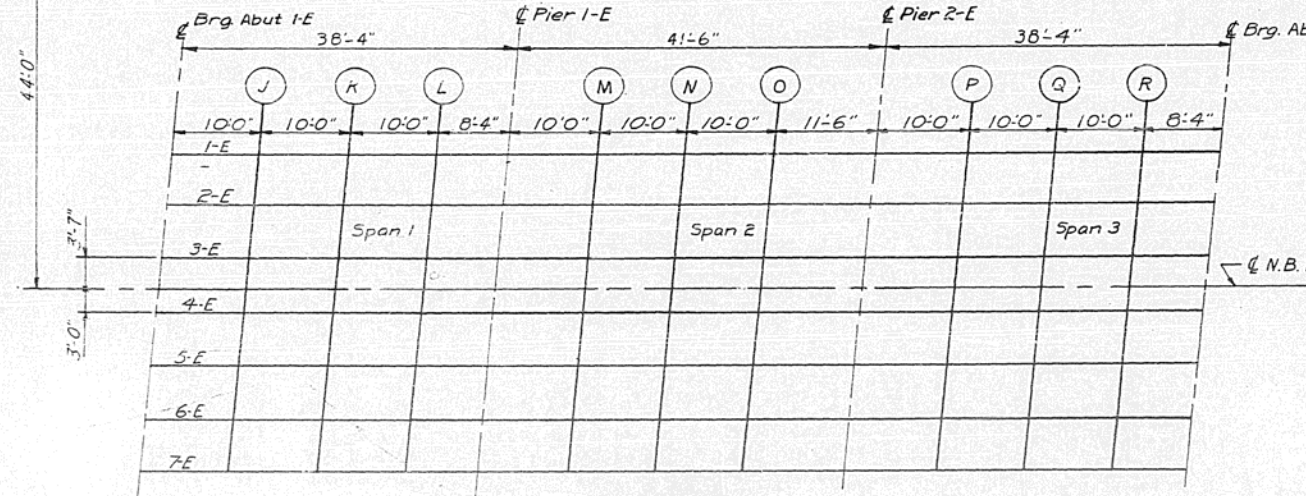
**HANDRAIL DETAILS**  
FAI RTE 57 SEC 10-30HB  
CHAMPAIGN COUNTY  
STA 118+50.00  
BRIDGE DWG 8 OF 11



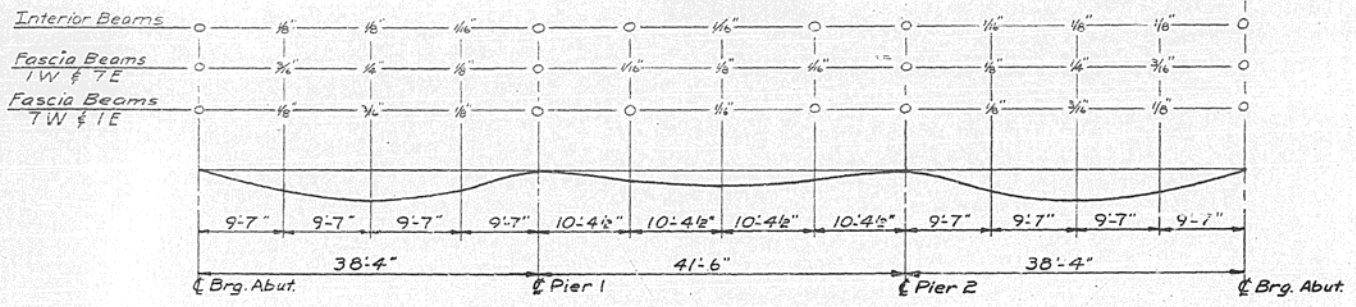
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 57 IO-30HB		CHAMPAIGN	22	14
FED. ROAD DIST. NO.		ILLINOIS PROJECT		



PLAN WEST BRIDGE



PLAN EAST BRIDGE



DEAD LOAD DEFLECTION DIAGRAM

INCLUDES WEIGHT OF CONCRETE ONLY

NOTE: THE ABOVE DEFLECTIONS ARE NOT FOR USE IN THE FIELD IF THE ENGINEER IS USING THE "THEORETICAL GRADE ELEVATIONS" ADJUSTED FOR DEAD LOAD DEFLECTION.

Beam	Station	Offset from $\bar{C}$ (Feet)	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
------	---------	------------------------------	------------------------------	---

WEST BRIDGE					EAST BRIDGE						
A	I-W	11795.802	22.7500	726.197	726.197	H	I-W	11895.635	22.7500	725.348	725.364
	2-W	11795.321	16.1667	726.338	726.338		2-W	11895.154	16.1667	725.489	725.502
	3-W	11794.840	9.5833	726.479	726.479		3-W	11894.673	9.5833	725.624	725.637
	4-W	11794.359	3.0000	726.548	726.548		4-W	11894.192	3.0000	725.689	725.712
	5-W	11793.878	3.5833	726.548	726.549		5-W	11893.711	3.5833	725.700	725.713
	6-W	11793.397	10.1667	726.475	726.475		6-W	11893.230	10.1667	725.626	725.739
	7-W	11792.916	16.7500	726.346	726.346		7-W	11892.749	16.7500	725.497	725.513
B	1-W	11805.802	22.7500	726.112	726.129	I	I-W	11905.635	22.7500	725.236	725.280
	2-W	11805.321	16.1667	726.253	726.264		2-W	11905.154	16.1667	725.404	725.415
	3-W	11804.840	9.5833	726.388	726.399		3-W	11904.673	9.5833	725.539	725.550
	4-W	11804.359	3.0000	726.463	726.474		4-W	11904.192	3.0000	725.614	725.625
	5-W	11803.878	3.5833	726.364	726.375		5-W	11903.711	3.5833	725.615	725.626
	6-W	11803.397	10.1667	726.390	726.401		6-W	11903.230	10.1667	725.541	725.552
	7-W	11802.916	16.7500	726.261	726.274		7-W	11902.749	16.7500	725.412	725.425
C	1-W	11815.802	22.7500	726.027	726.048	J	I-W	11913.968	22.7500	725.190	725.190
	2-W	11815.321	16.1667	726.168	726.181		2-W	11913.487	16.1667	725.331	725.331
	3-W	11814.840	9.5833	726.303	726.316		3-W	11913.006	9.5833	725.466	725.466
	4-W	11814.359	3.0000	726.378	726.391		4-W	11912.525	3.0000	725.541	725.541
	5-W	11813.878	3.5833	726.379	726.392		5-W	11912.044	3.5833	725.542	725.542
	6-W	11813.397	10.1667	726.305	726.318		6-W	11911.563	10.1667	725.469	725.469
	7-W	11812.916	16.7500	726.176	726.192		7-W	11911.082	16.7500	725.340	725.340
D	1-W	11825.802	22.7500	725.942	725.953	K	I-W	11921.968	22.7500	725.190	725.190
	2-W	11825.321	16.1667	726.083	726.090		2-W	11921.487	16.1667	725.331	725.331
	3-W	11824.840	9.5833	726.218	726.225		3-W	11921.006	9.5833	725.466	725.466
	4-W	11824.359	3.0000	726.293	726.300		4-W	11920.525	3.0000	725.541	725.541
	5-W	11823.878	3.5833	726.294	726.301		5-W	11920.044	3.5833	725.542	725.542
	6-W	11823.397	10.1667	726.220	726.227		6-W	11919.563	10.1667	725.469	725.469
	7-W	11822.916	16.7500	726.091	726.099		7-W	11919.082	16.7500	725.340	725.340
E	1-W	11834.135	22.7500	725.871	725.871	L	I-W	11798.924	16.7500	726.380	726.380
	2-W	11833.654	16.1667	726.012	726.012		2-W	11798.443	16.1667	726.517	726.517
	3-W	11833.173	9.5833	726.147	726.147		3-W	11797.962	9.5833	726.599	726.599
	4-W	11832.692	3.0000	726.222	726.222		4-W	11797.481	3.0000	726.606	726.606
	5-W	11832.211	3.5833	726.223	726.223		5-W	11797.000	3.5833	726.539	726.539
	6-W	11831.730	10.1667	726.148	726.148		6-W	11796.519	10.1667	726.412	726.412
	7-W	11831.249	16.7500	726.020	726.020		7-W	11796.038	16.7500	726.279	726.279
F	1-W	11844.135	22.7500	725.786	725.789	M	I-W	11808.924	16.7500	726.210	726.226
	2-W	11843.654	16.1667	725.927	725.929		2-W	11808.443	16.1667	726.347	726.363
	3-W	11843.173	9.5833	726.062	726.064		3-W	11807.962	9.5833	726.420	726.440
	4-W	11842.692	3.0000	726.137	726.139		4-W	11807.481	3.0000	726.521	726.532
	5-W	11842.211	3.5833	726.138	726.140		5-W	11807.000	3.5833	726.454	726.465
	6-W	11841.730	10.1667	726.064	726.066		6-W	11806.519	10.1667	726.327	726.335
	7-W	11841.249	16.7500	725.935	725.938		7-W	11806.038	16.7500	726.194	726.211
G	1-W	11854.135	22.7500	725.701	725.708	N	I-W	11818.924	16.7500	726.125	726.133
	2-W	11853.654	16.1667	725.842	725.847		2-W	11818.443	16.1667	726.262	726.269
	3-W	11853.173	9.5833	725.977	725.982		3-W	11817.962	9.5833	726.344	726.351
	4-W	11852.692	3.0000	726.052	726.057		4-W	11817.481	3.0000	726.440	726.449
	5-W	11852.211	3.5833	726.053	726.058		5-W	11817.000	3.5833	726.369	726.382
	6-W	11851.730	10.1667	725.979	725.984		6-W	11816.519	10.1667	726.242	726.250
	7-W	11851.249	16.7500	725.850	725.856		7-W	11816.038	16.7500	726.109	726.130
H	1-W	11864.135	22.7500	725.616	725.619	O	I-W	11828.924	16.7500	726.054	726.054
	2-W	11863.654	16.1667	725.757	725.759		2-W	11828.443	16.1667	726.191	726.191
	3-W	11863.173	9.5833	725.892	725.894		3-W	11827.962	9.5833	726.273	726.273
	4-W	11862.692	3.0000	725.968	725.970		4-W	11827.481	3.0000	726.280	726.280
	5-W	11862.211	3.5833	725.968	725.970		5-W	11827.000	3.5833	726.213	726.213
	6-W	11861.730	10.1667	725.894	725.896		6-W	11826.519	10.1667	726.036	726.086
	7-W	11861.249	16.7500	725.765	725.768		7-W	11826.038	16.7500	725.953	725.953
I	1-W	11874.135	22.7500	725.518	725.518	P	I-W	11837.924	16.7500	725.969	725.972
	2-W	11873.654	16.1667	725.659	725.659		2-W	11837.443	16.1667	726.106	726.108
	3-W	11873.173	9.5833	725.794	725.794		3-W	11836.962	9.5833	726.188	726.190
	4-W	11872.692	3.0000	725.869	725.869		4-W	11836.481	3.0000	726.195	726.197
	5-W	11872.211	3.5833	725.870	725.870		5-W	11836.000	3.5833	726.130	726.130
	6-W	11871.730	10.1667	725.796	725.796		6-W	11835.519	10.1667	726.001	726.003
	7-W	11871.249	16.7500	725.667	725.667		7-W	11835.038	16.1667	725.869	725.871

TOP OF SLAB ELEVATIONS  
 F.A. RTE. 57 SEC 10-30HB  
 CHAMPAIGN COUNTY  
 STA. 118-50.00  
 BRIDGE DWG. 9 OF 11

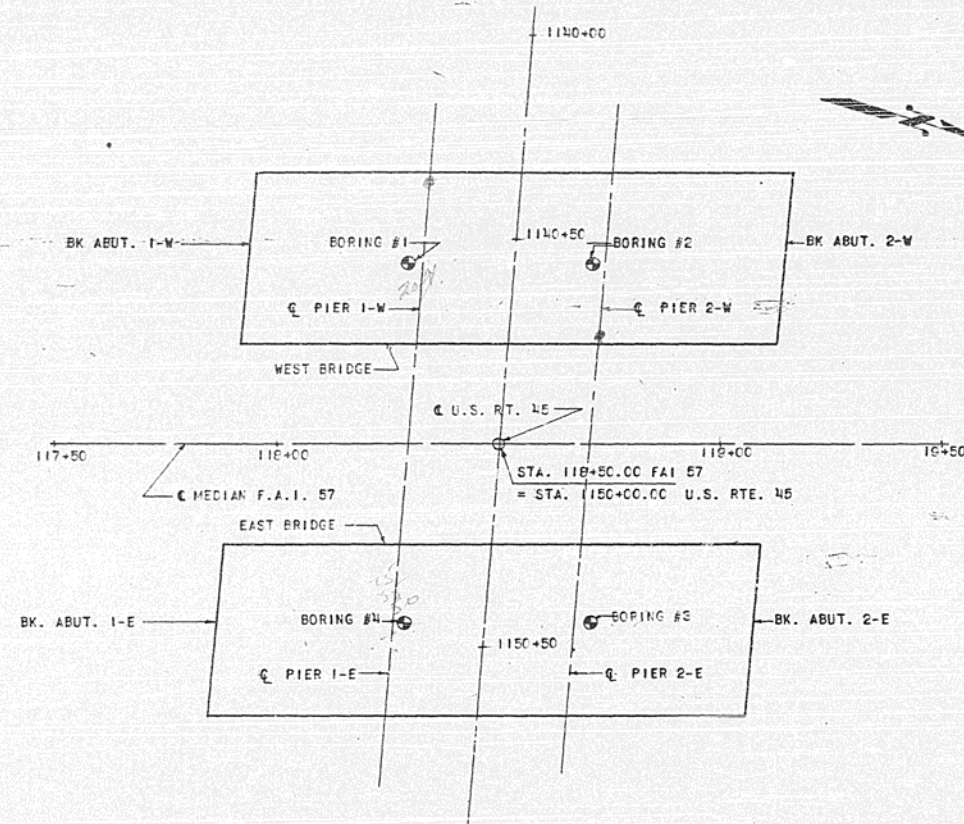
DESIGNED BY: E.L.M. [Signature]  
 CHECKED BY: M.F.I.  
 DATE: 3-62



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI. 57	10-30HB	CHAMPAIGN	22	15
FED. ROAD DIST. NO.		ILLINOIS PROJECT		

NOTES

1. BORINGS BY STATE OF ILLINOIS TAKEN ON 6-18-61.



703  
20  
683

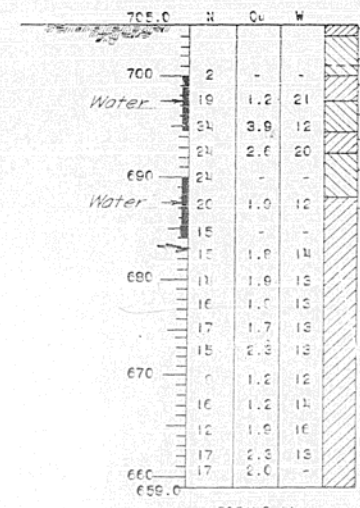
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693

115

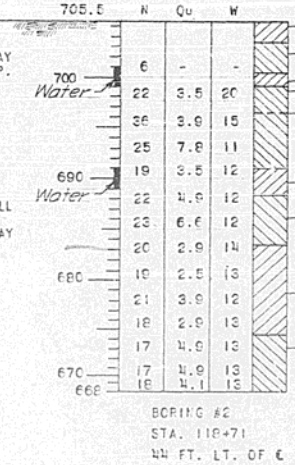
LOCATION OF BORING  
SCALE: 1"=20'-0"



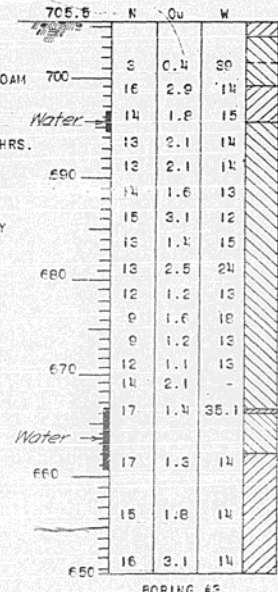
NOTE:

N = STANDARD PENETRATION TEST BLOWS PER FOOT TO DRIVE 2" O.D. SPLIT SPOON SAMPLER 12" WITH 140 LB. HAMMER FALLING 30".  
 Qu = UNCONFINED COMPRESSIVE STRENGTH IN TONS PER SQ. FT.  
 W = WATER CONTENT - PERCENTAGE OF OVEN DRY WEIGHT - %

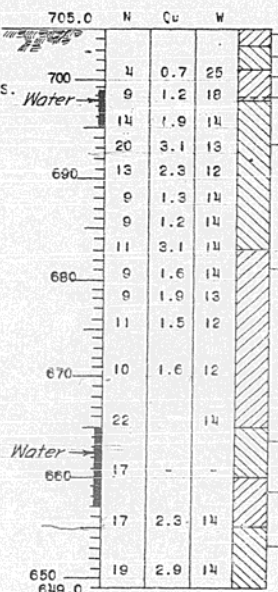
BORING DATA



BORING #2  
 STA. 118+71  
 44 FT. LT. OF C



BORING #3  
 STA. 118+71  
 44 FT. RT. OF C



BORING #4  
 STA. 118+20  
 44 FT. RT. OF C

BORING DATA  
 FAI. RTE. 57 SEC. 10-30HB  
 CHAMPAIGN COUNTY  
 STA. 118+50.00  
 BRIDGE DWG. 10 OF 11

DRAWN BY: DAVIS  
 CHECKED BY: DAVIS  
 DATE: 2-28-61  
 SCALE: 1"=20'-0"

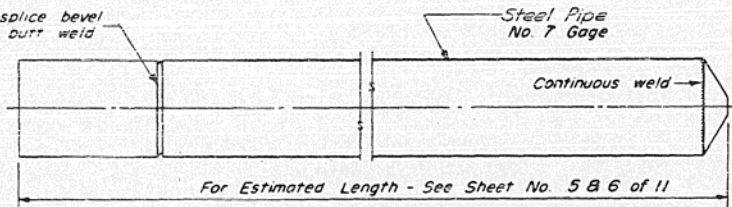


STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

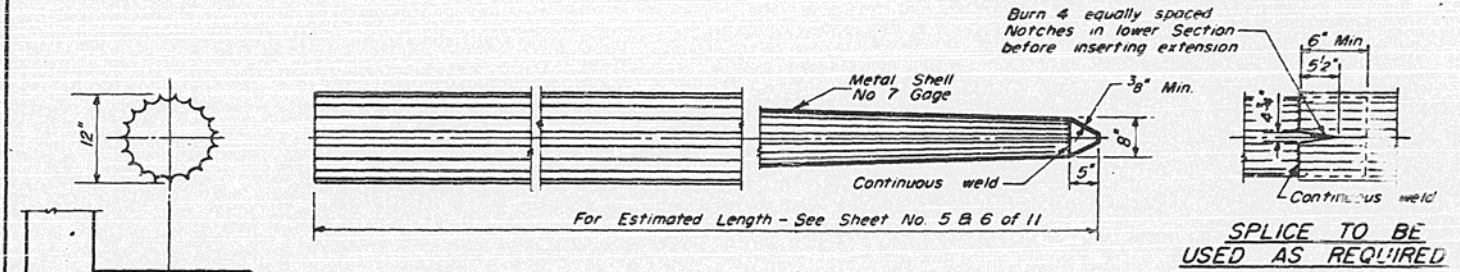
BRIDGE DWG 11 OF 11

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 157	10-30HB	CHAMPAIGN	22	16
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

For field splice bevel edge and butt weld



OPTIONAL FLAT END

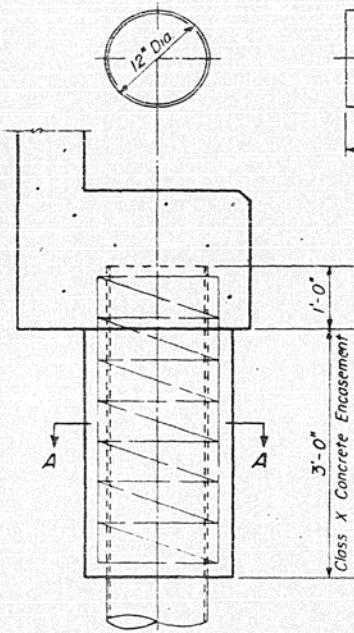


SPLICE TO BE USED AS REQUIRED

ALLOWABLE TAPERS

- 1-Taper 1/2'-6" for 10' + 12" Cylindrical Section Extension
- 2-Taper 1/4'-0" for 17' + 12" Cylindrical Section Extension
- 3-Taper 1/7'-0" for 30' + 12" Cylindrical Section Extension

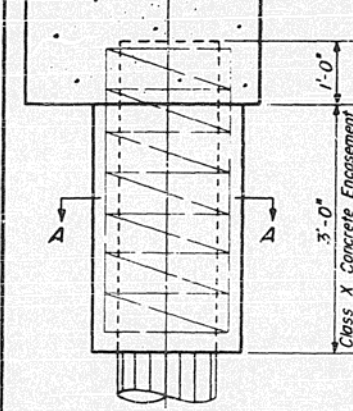
15" Dia spiral #2 Wire, 6" pitch 2 extra turns top and bottom. 4-#4 tie bars. The cost of Class X Concrete Encasement and Reinforcement is incidental to the cost of furnishing piles.



SECTION A-A

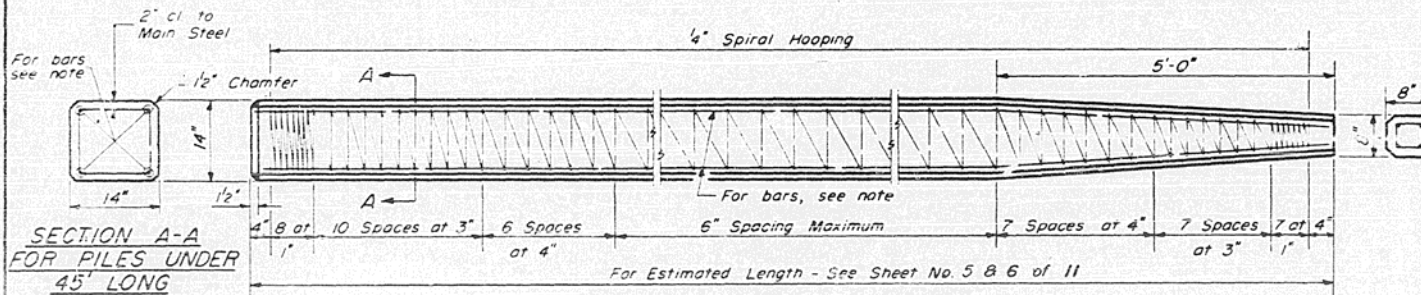
Note Driving and bearing ends of pipe shall be cut square.

DETAIL OF CYLINDRICAL STEEL SHELL FOR CAST IN PLACE CONCRETE PILES



SECTION A-A

DETAIL OF TAPERED METAL SHELL FOR CAST IN PLACE CONCRETE PILES



SECTION A-A FOR PILES UNDER 45' LONG

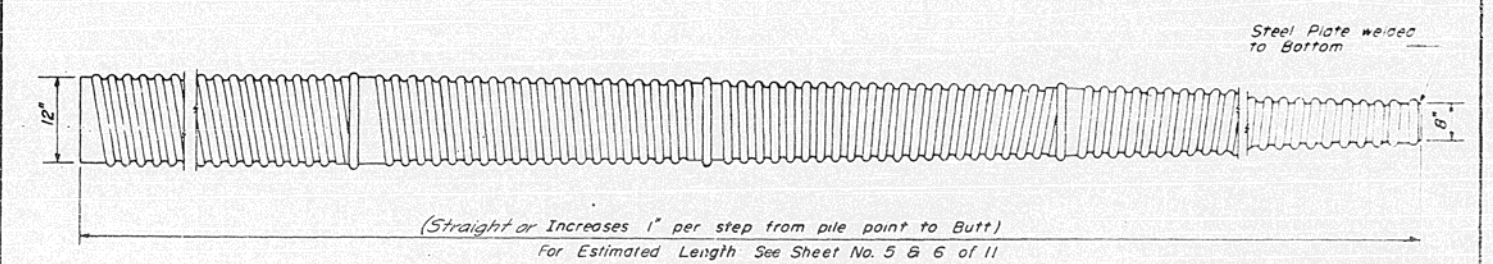
Note: For 14" Piles 45' long or more use 8-#8 bars 4 for the full length and 4 to the point of bevel. For 14" Piles under 45' long use 4-#9 bars the full length.

Handling: For Pile lengths up to 45', use two slings placed at a distance of 0.21 L\* from each end.

For Piles longer than 45', use three slings placed at a distance of 0.12 L\* from each end and at mid-point of pile.

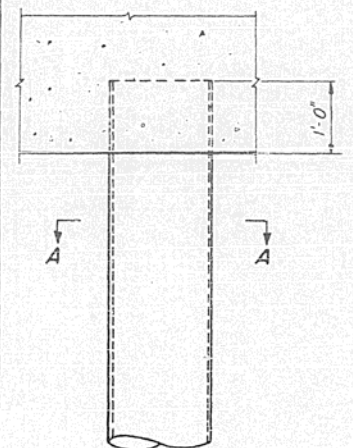
\*L = Over all length of pile to be handled

SECTION A-A FOR PILES 45' OR MORE



(Straight or Increases 1" per step from pile point to Butt)  
For Estimated Length See Sheet No. 5 & 6 of 11

At least 1/4 of the length of pile shall have a butt diameter equal to or greater than 12" Gages are furnished to suit soil conditions 4 Gage Min.



SECTION A-A

Reinforcement is incidental to the cost of furnishing piles.

1/4" Spiral Hooping at 4" spacing or 4" ties at 12" cts.

DETAIL OF MANDREL DRIVEN STRAIGHT OR STEP-TAPER PILES FOR CAST IN PLACE CONCRETE PILES

PILE DETAILS  
F.A. RTE 57 SEC. 10-30HB  
CHAMPAIGN COUNTY  
STA 118+50.00  
BRIDGE DWG 11 OF 11

DESIGNED	EXAMINED	15
CHECKED	PASSED	ENGINEER OF BRIDGE & TRAFFIC STRUCTURES
CREATED	APPROVED	ENGINEER OF DESIGN
W. A. Sausaman		CHIEF HIGHWAY ENGINEER

DETAIL OF PRECAST CONCRETE PILES

Soft & Stability Questionable

DRAWN BY DATE CHECKED BY DATE  
 C.E.P. 2-26-59 W.A.S. 3-6-59 M.F.T.

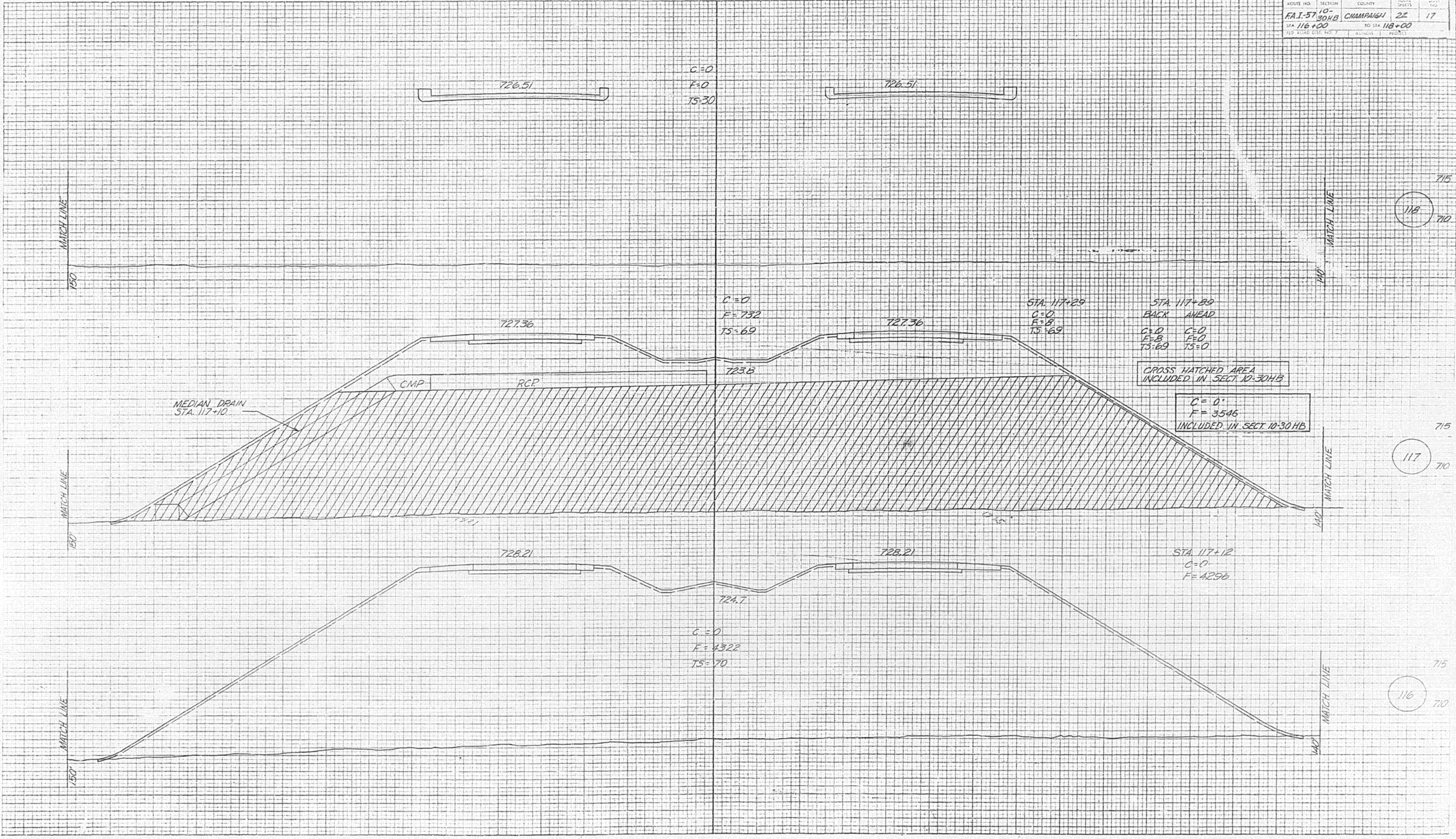
X-1 Re-drawn 9-24-59



ROUTE NO.	SECTION	COUNTY	TOWNSHIP	RANGE
FAI-57	10-30HB	CHAMPAIGN	2E	17
STA 116+00			TO STA 118+00	
FED. ROAD DIST. NO. 7		BLDG. NO.	PIECES	

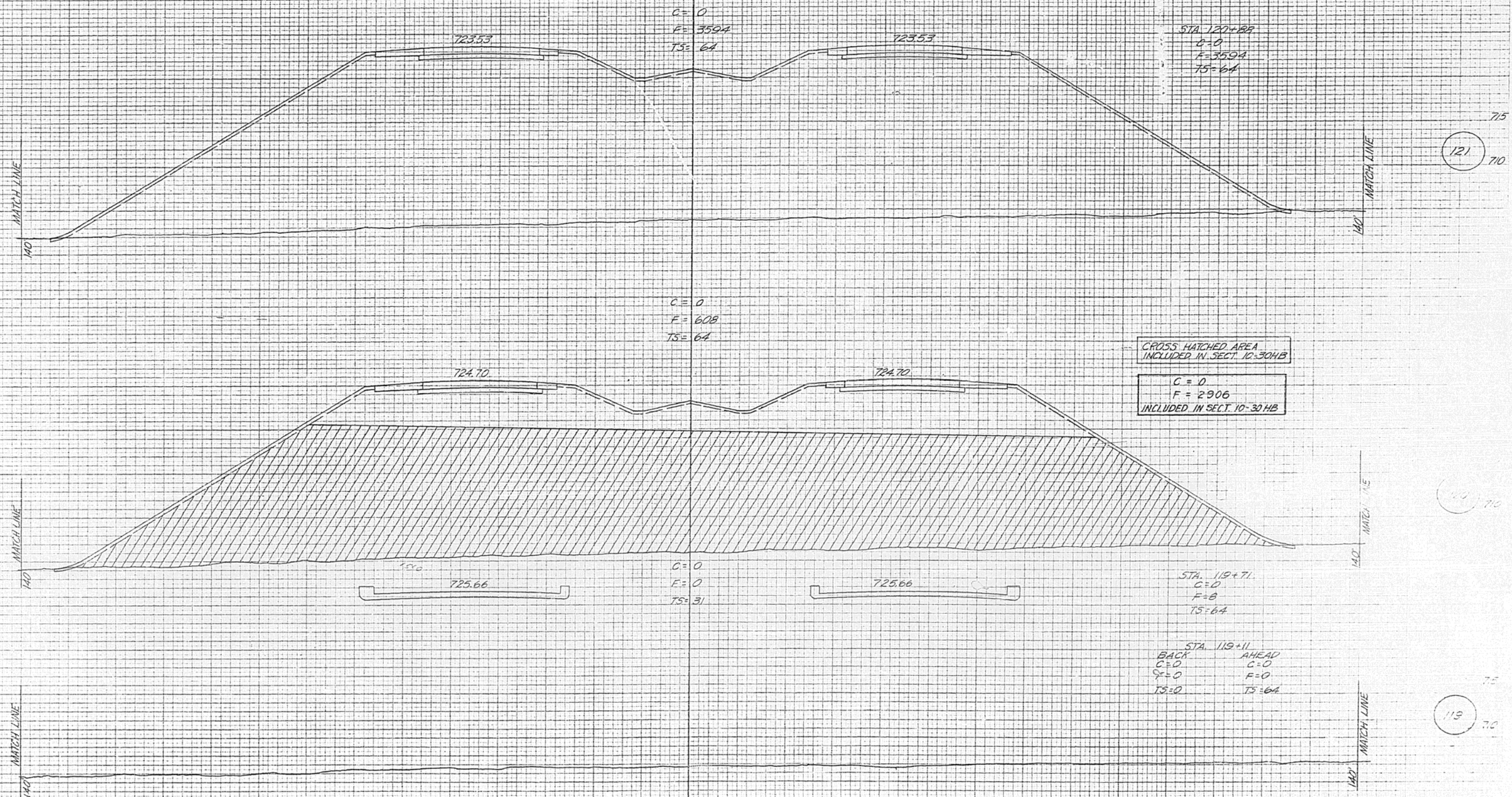
DESIGNED BY  
 CHECKED BY  
 DATE

DESIGNED BY  
 CHECKED BY  
 DATE





ROUTE NO.	SECTION	COUNTY	SHEET	OF
FAI-57	10-30HB	CHAMPAIGN	22	18
STA 119+00	TO STA 121+00			
110 LEASE DIST NO 7	LENGTH		FEET	



C = 0  
F = 3594  
TS = 64

STA. 120+88  
C = 0  
F = 3594  
TS = 64

C = 0  
F = 608  
TS = 64

CROSS HATCHED AREA  
INCLUDED IN SECT. 10-30HB

C = 0  
F = 2906  
INCLUDED IN SECT. 10-30HB

C = 0  
F = 0  
TS = 31

STA. 119+71  
C = 0  
F = 8  
TS = 64

STA. 119+11  
BACK AHEAD  
C = 0 C = 0  
F = 0 F = 0  
TS = 0 TS = 64

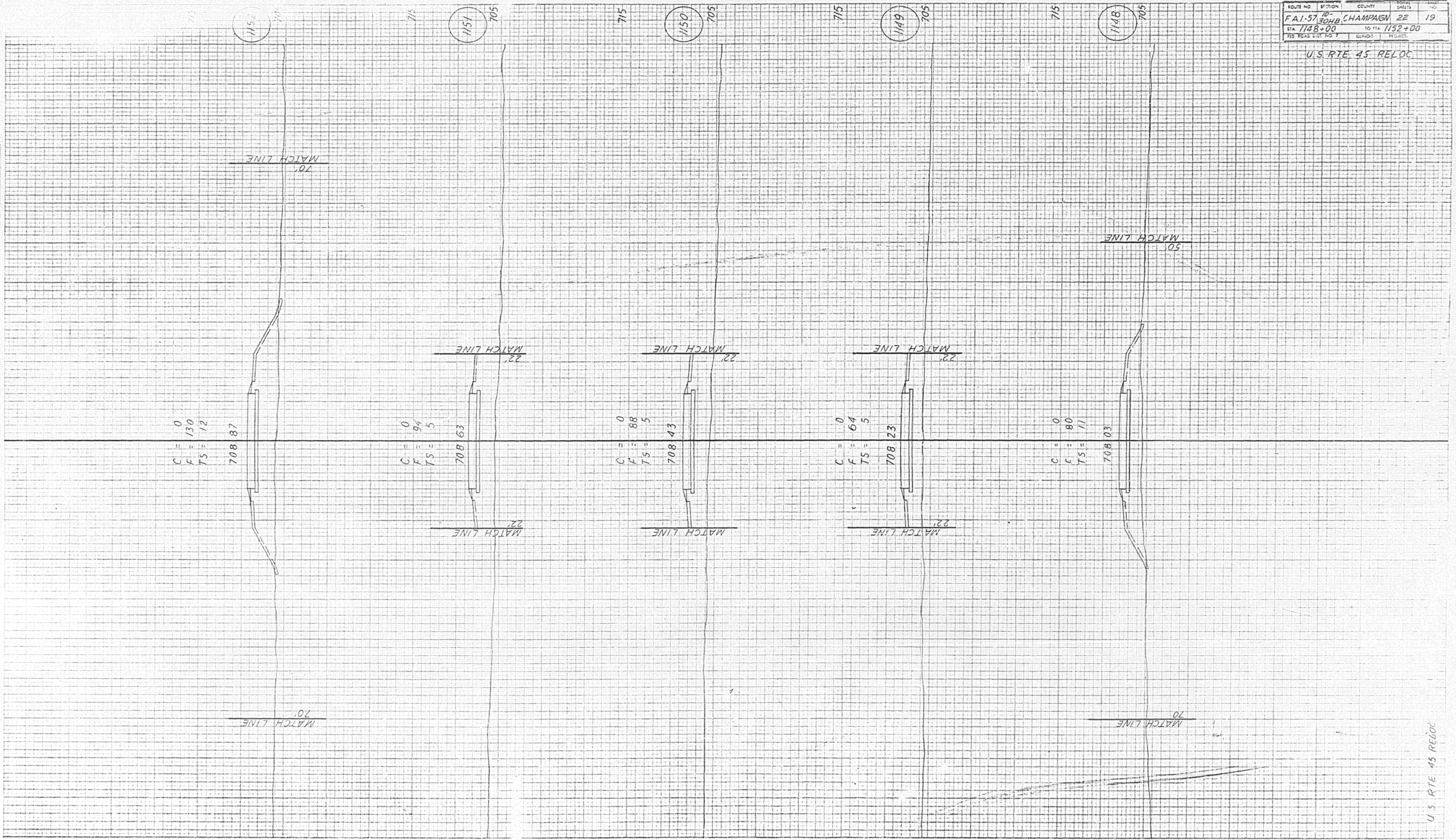
DATE  
BY  
CHECKED  
APPROVED  
SURVEY  
ENGINEER  
PLATE NO.

DATE  
BY  
CHECKED  
APPROVED  
SURVEY  
ENGINEER  
PLATE NO.



ROUTE NO.	SECTION	COUNTY	TOTAL LENGTH	SHEET NO.
FAI-57	10-30HB	CHAMPAIGN	22	19
STA 1148+00		TO STA 1152+00		
RD ROAD DIST. NO. 7		ILLINOIS	PROJECT	

U.S. RTE. 45 RELOC



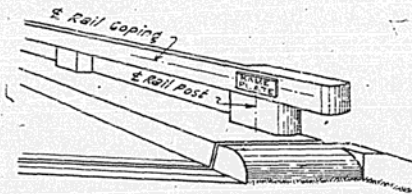
ITEM  
 DRAWN BY: SHIRLEY TURNER  
 CHECKED BY: HARVEY WILSON  
 DATE: 11/15/61  
 PLOT DATE: 11/22/61

BY: G.M.K. WEF  
 DATE: 11/15/61  
 PLOT DATE: 11/22/61

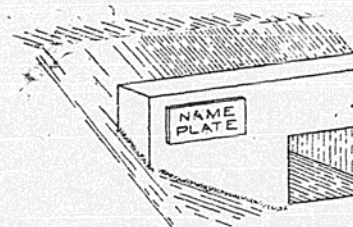


STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BLDGS  
DIVISION OF HIGHWAYS

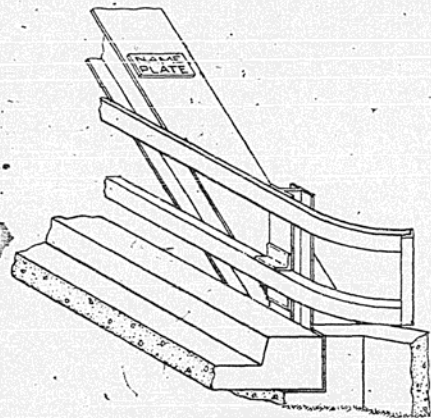
Sheet 1 of 1



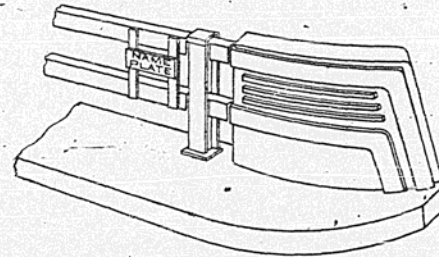
FOR CONCRETE RAILS



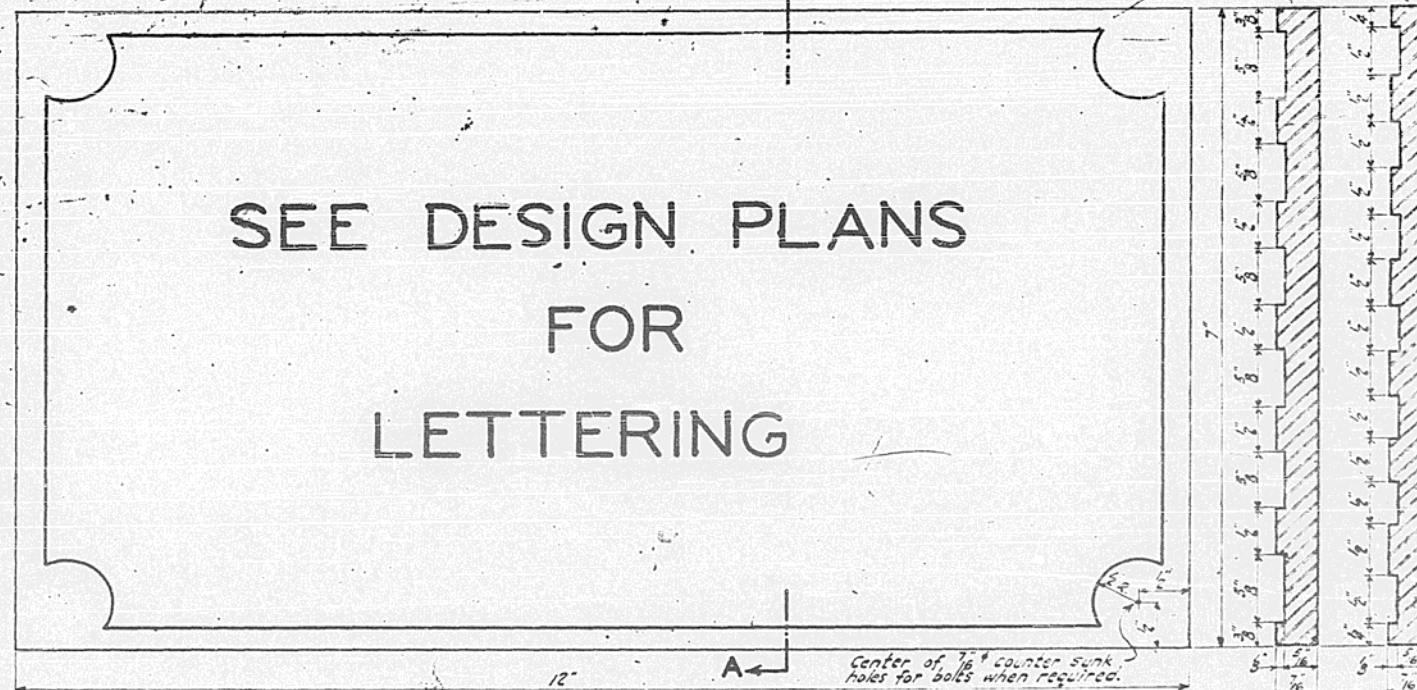
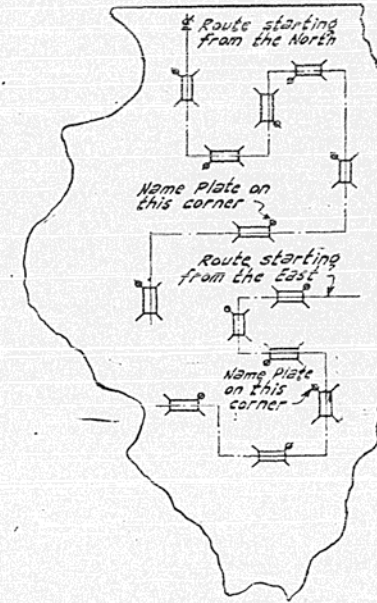
FOR CULVERT HEADWALLS



FOR TRUSSES



FOR STEEL RAILS



SEE DESIGN PLANS  
FOR  
LETTERING

SEC. A-A

EXAMINED *[Signature]* OCT 5 1959  
ENGINEER OF BRIDGE & TRAFFIC STRUCTS  
PASSED *[Signature]*  
ENGINEER OF DESIGN  
APPROVED *[Signature]*  
CHIEF HIGHWAY ENGINEER

MATERIAL - Best quality brass or bronze.  
BORDER & LETTERING - Raised  $\frac{1}{8}$  inch. Square cut and not tapered. Top surface polished.  
FOR CONCRETE RAILS - Rail jugs at least three inches long, rest on  
back of plate.  
FOR STEEL TRUSS SPAN - Plate to be fastened on steel member at fabricating shop by  
bolting around entire perimeter of plate.  
FOR STEEL RAILS - Plate to be bolted on with  $4 \times \frac{1}{2}$  brass or bronze hex head bolts.  
FOR CONCRETE RAILS - Plate to be centered on  $\frac{1}{2}$  of rail post and  $\frac{1}{2}$  of handrail coping.  
FOR STEEL TRUSS SPAN - Bolt to end post about 1/16 foot above roadway.  
FOR STEEL RAILS - Place midway between horizontal rail members.  
FOR SUBWAYS - See design plans for location.

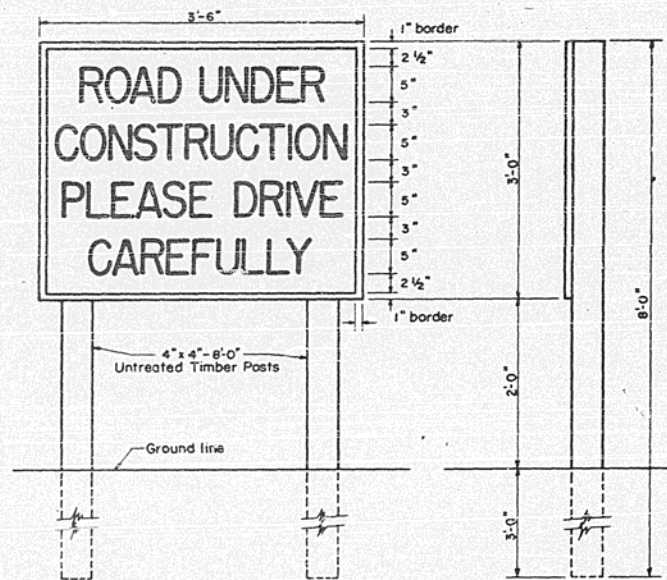
DETAIL OF  
NAME PLATE FOR BRIDGES



STANDARD DESIGN  
SIGN FOR ROAD UNDER CONSTRUCTION

GENERAL NOTES

Signs shall be made of wood (1" lumber rigidly cleated); or of metal (18 gage); or of B-B Exterior, High Density Overlay (both sides) Douglas Fir Plywood conforming to the requirements set forth in Commercial Standard CS 45-55 published by the U.S. Department of Commerce (5/8" thick). When plywood is used, the four edges shall be sealed with aluminum paint conforming to the requirements of Article 126.22 of the Standard Specifications. The Contractor shall furnish all material and labor for constructing and erecting the signs. The signs shall be placed prior to the starting of actual construction operations at each end of the construction section, or as directed by the Engineer. Before any sign is erected, it shall be approved by the Engineer as to its appearance and quality of construction. The signs shall remain in place and shall be maintained in a satisfactory condition until the project is accepted by the Department. The Contractor shall then remove the signs and the material will become his property. The border shall be black and the letters printed black on a white background. The letters, width of stroke, width of letters, and shape shall be Series C of the "Standard Alphabets for Highway Signs, Public Roads Administration, Federal Works Agency, 1952." The cost of the signs, the erection and later removal of the signs shall be incidental to the cost of construction.

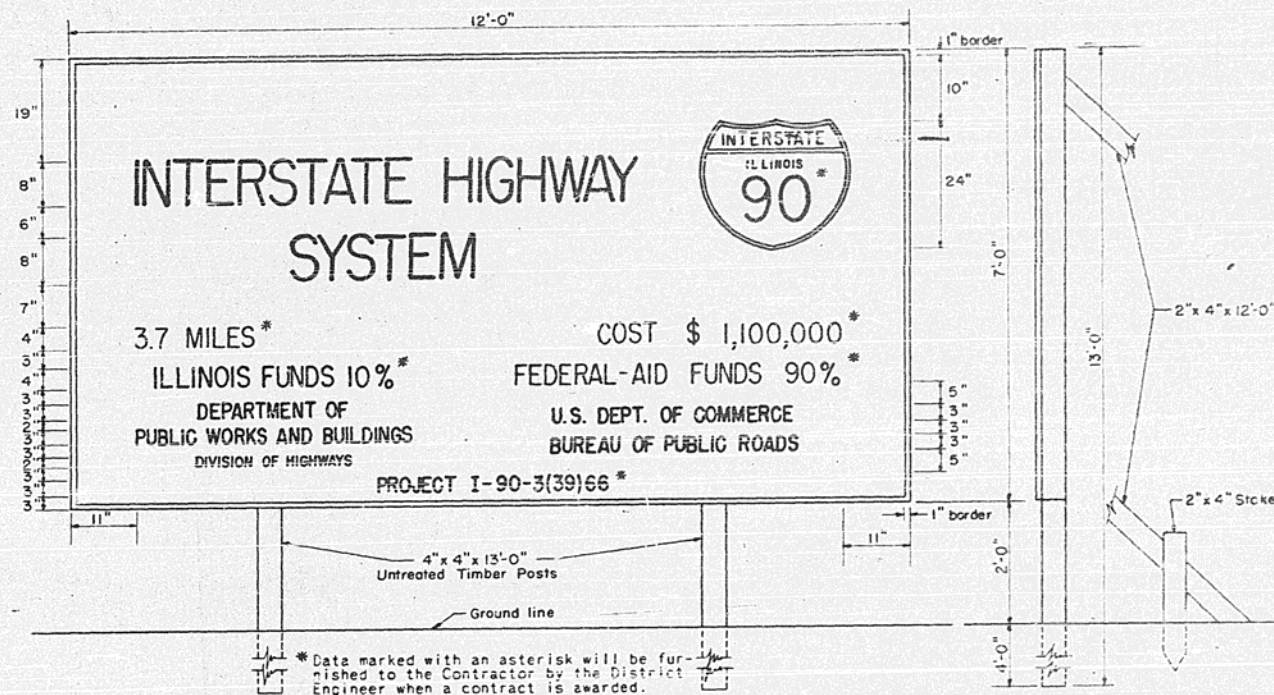


STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BUILDINGS DIVISION OF HIGHWAYS		REVISIONS	
		BY	DATE
PASSED	NOVEMBER 28, 1951	I.B.	5-10-56
Engineer of Road Plans and Contracts		J.F.L.	11-15-58
APPROVED	NOVEMBER 29, 1951	W.H.F.	4-28-61
Engineer of Design			

STANDARD 1971-3

Redrawn W.H.F. 4-28-61

STANDARD DESIGN  
SIGN FOR INTERSTATE SYSTEM PROJECT  
(FEDERAL AND STATE)



\*Data marked with an asterisk will be furnished to the Contractor by the District Engineer when a contract is awarded.

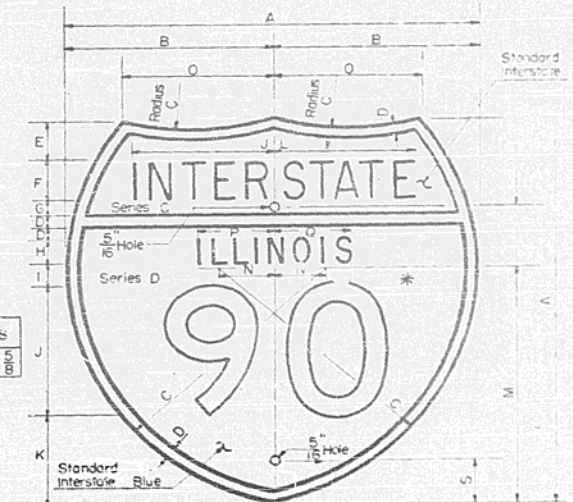
Signs shall be made of wood (1" lumber rigidly cleated); or of metal (18 gage); or of B-B Exterior, High Density Overlay (both sides) Douglas Fir Plywood conforming to the requirements set forth in Commercial Standard CS 45-55 published by the U.S. Department of Commerce (5/8" thick). When plywood is used, the four edges shall be sealed with aluminum paint conforming to the requirements of Article 126.22 of the Standard Specifications. The Contractor shall furnish all material, including shields, and labor for constructing and erecting the signs. The signs shall be placed prior to the starting of actual construction operations. Before any sign is erected, it shall be approved by the Engineer as to its appearance and quality of construction. The signs shall remain in place and shall be maintained in a satisfactory condition until the project is accepted by the Department. The Contractor shall then remove the signs and the material, including shields, will become his property. The border shall be black and the letters printed black on a white background. The letters, width of stroke, width of letters, and shape shall be Series C of the "Standard Alphabets for Highway Signs, Public Roads Administration, Federal Works Agency, 1952." The number of signs and their location will be shown on the plans. The cost of the signs, the erection and later removal of the signs shall be incidental to the cost of construction.

SHIELD FOR SIGN

Shields shall be made of Aluminum Alloy Sheet and Plate, A.S.T.M. Designation B 209, Alloy G.S. 114-T6; or of steel (18 gage); or of B-B Exterior, High Density Overlay (both sides) Douglas Fir Plywood conforming to the requirements set forth in Commercial Standard CS 45-55 published by the U.S. Department of Commerce (5/8" thick). When plywood is used, the edge of the shield shall be sealed with aluminum paint conforming to the requirements of Article 126.22 of the Standard Specifications. Reflectorized material shall not be used. Mounting hardware shall be rust proof.

NO.	Shield Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
M-101	24	24	12	15	3/4	2 3/8	2 1/2	1	1 1/2	10 3/8	8	5 3/4	8 1/4	14 5/8	3	8 3/4	4 1/8	7 1/8	10 1/8	10 1/8

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BUILDINGS DIVISION OF HIGHWAYS		REVISIONS	
		BY	DATE
PASSED	November 30, 1960	W.H.F.	2-1-61
Engineer of Road Plans and Contracts		W.H.F.	4-25-61
APPROVED	November 30, 1960		
Engineer of Design			

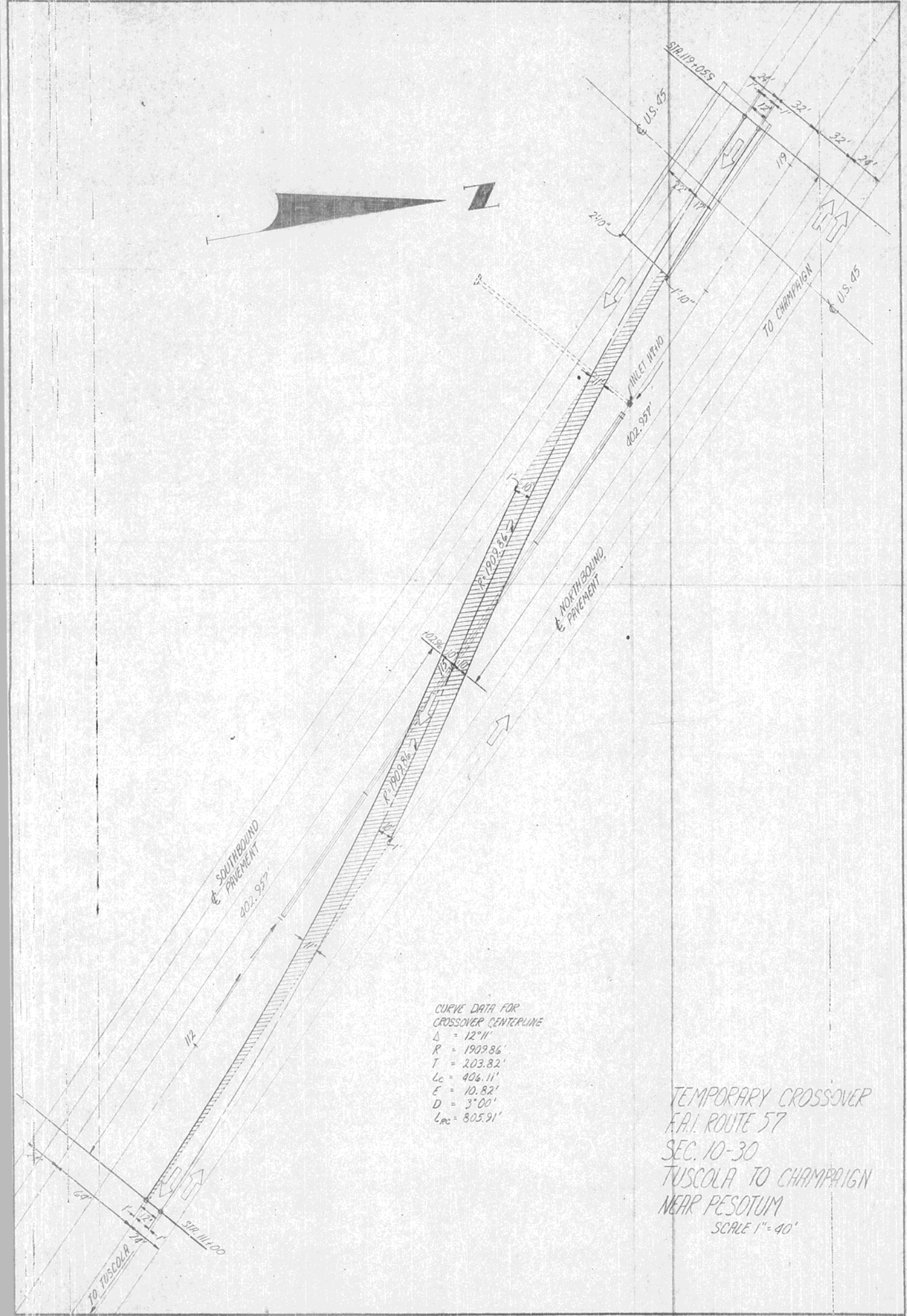


Background, as indicated, Red or Blue; the colors to conform to the standard colors shown in the AASHTO "Manual for Signing and Pavement Marking of the National System of Interstate and Defense Highways." Letters, numerals, and border, White.

STANDARD 2153-2

W.H.F. 11-18-60





CURVE DATA FOR  
CROSSOVER CENTERLINE  
 $\Delta = 12^\circ 11'$   
 $R = 1909.86'$   
 $T = 203.82'$   
 $L_c = 406.11'$   
 $E = 10.82'$   
 $D = 3^\circ 00'$   
 $L_{mc} = 805.91'$

TEMPORARY CROSSOVER  
 F.A.I. ROUTE 57  
 SEC. 10-30  
 TUSCOLA TO CHAMPAIGN  
 NEAR PESOTUM  
 SCALE 1" = 40'