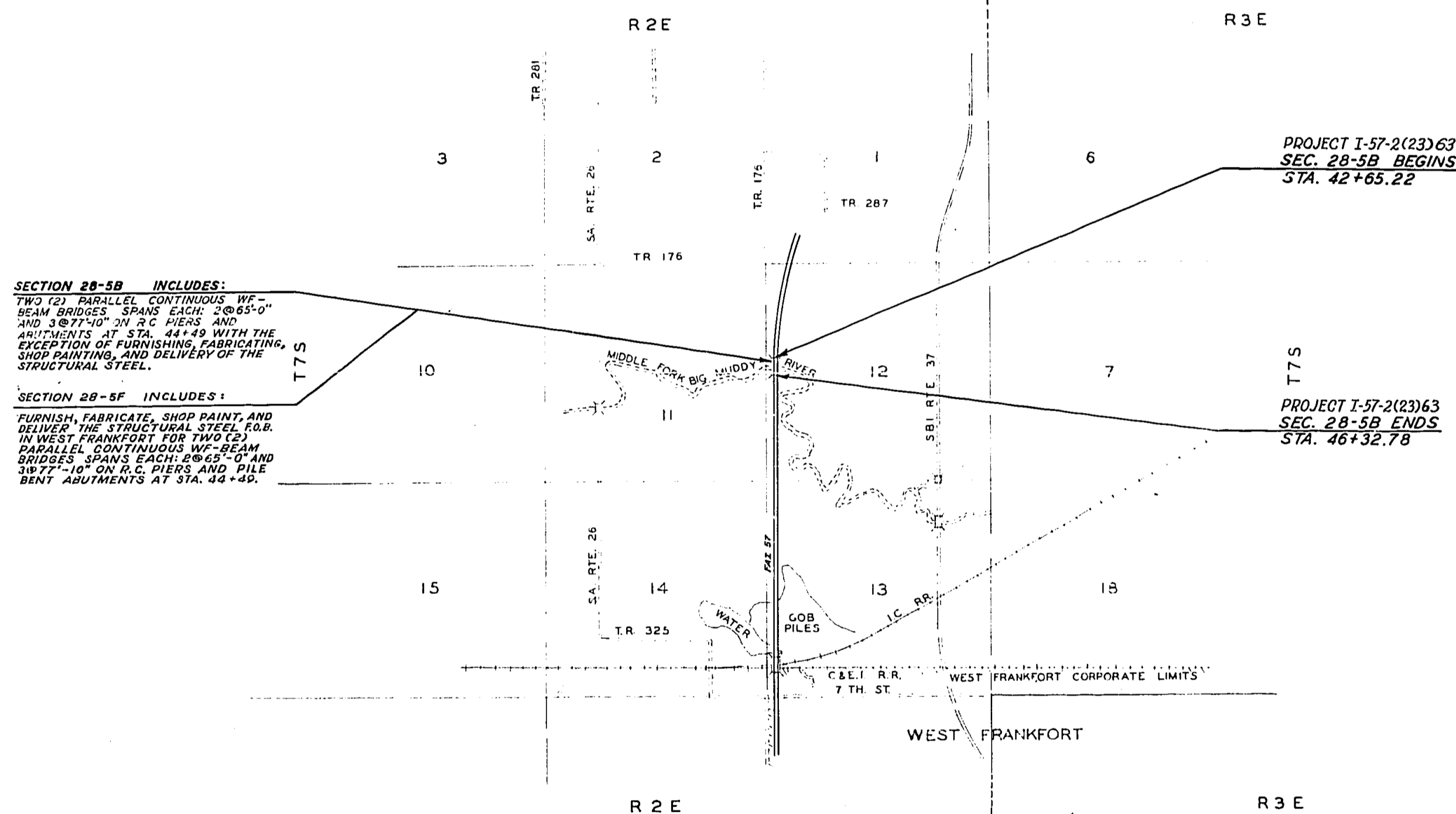
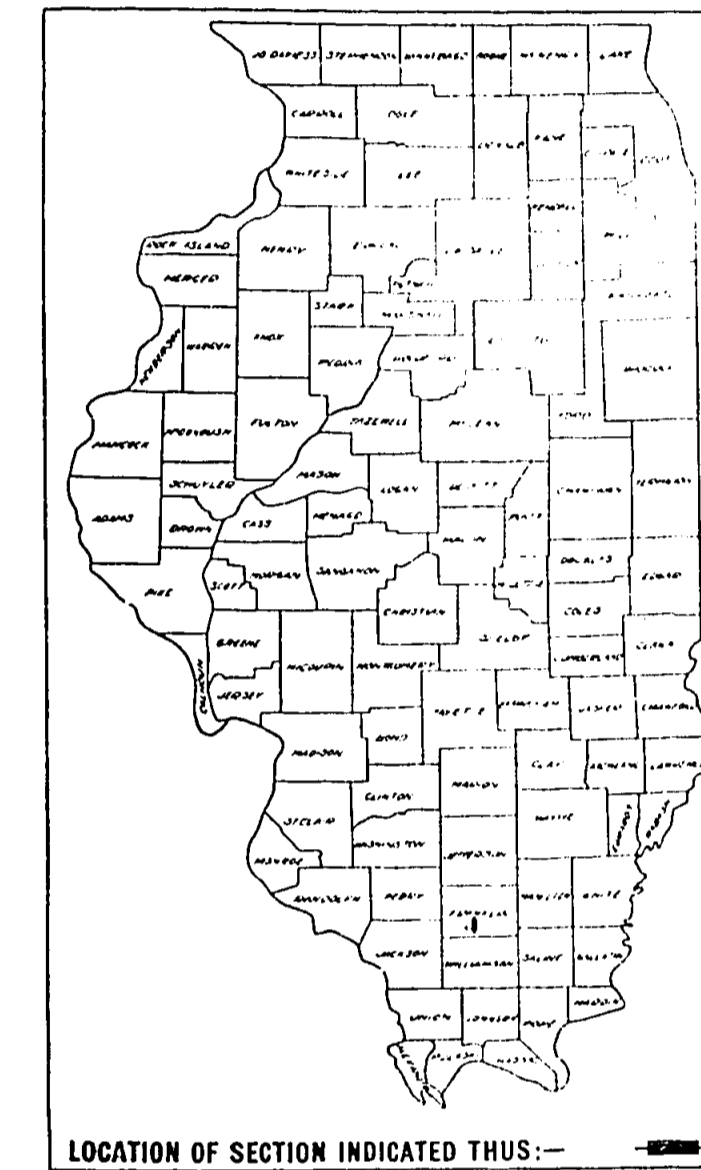


STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID INTERSTATE HIGHWAY

SECTION	SEC.	COUNTY	DATE	BY
57	28-5B	FRANKLIN	9-21-61	
	28-5F			

SCALES PLAN 1 INCH = 100 FT.
PROFILE, HOR. 1 INCH = 100 FT.
PROFILE, VERT. 1 INCH = 10 FT.
CROSS SECTIONS 1 INCH = 5 FT.

F.A.I. ROUTE 57
SEC. 28-5B, 28-5F PROJ. I-57-2(23) 63
FRANKLIN COUNTY



SECTION 28-5B INCLUDES:
TWO (2) PARALLEL CONTINUOUS W-F-BEAM BRIDGES SPANS EACH 2065'-0" AND 3077'-10" ON R.C. PIERS AND ABUTMENTS AT STA. 44+49 WITH THE EXCEPTION OF FURNISHING, FABRICATING, SHOP PAINTING, AND DELIVERY OF THE STRUCTURAL STEEL.

SECTION 28-5F INCLUDES:
FURNISH, FABRICATE, SHOP PAINT, AND DELIVER THE STRUCTURAL STEEL FOR IN WEST FRANKFORT FOR TWO (2) PARALLEL CONTINUOUS W-F-BEAM BRIDGES SPANS EACH 2065'-0" AND 3077'-10" ON R.C. PIERS AND PILE BENT ABUTMENTS AT STA. 44+49.

PROJECT I-57-2(23)63
SEC. 28-5B BEGINS
STA. 42+65.22

PROJECT I-57-2(23)63
SEC. 28-5B ENDS
STA. 46+32.78

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

DESIGNED BY: *[Signature]*
DATE: September 21, 61

DRAWN BY: *[Signature]*
DATE: September 21, 61

CHECKED BY: *[Signature]*
DATE: September 21, 61

APPROVED BY: *[Signature]*
DATE: September 21, 61

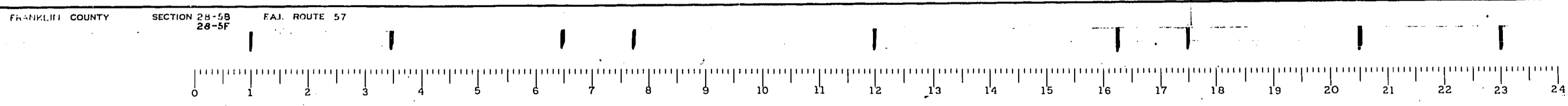
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC WORKS

APPROVED: _____ DATE: _____

DIVISION ENGINEER

Job No. 22136 (F)
22137 (B)

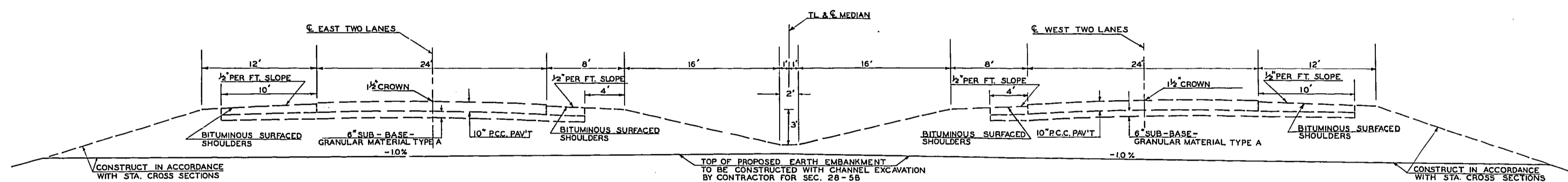
APPROXIMATE SCALE 1" = 1600'
NET LENGTH 36758 LIN FT 0.070 MILE = PROJECT LENGTH



NO. OF SHEETS	SHEET NO.	COUNTY	TOTAL SHEETS	DATE
FAL 57	28-5B	FRANKLIN	21	2
FBI PROJECT NO. 1 MILLING PROJECT				

TYPICAL SECTIONS OF PROPOSED IMPROVEMENT

NOTE: DASHED LINES SHOW FINISHED SECTION OF WORK INCLUDED IN ULTIMATE PAVING CONTRACT



* TO BE USED: ±47+95 TO ±50+60

EARTHWORK QUANTITIES AND BALANCE POINTS

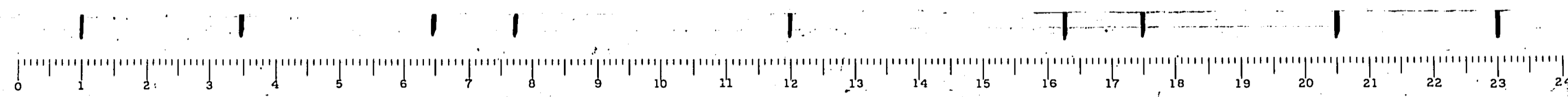
BALANCE NUMBER	LOCATION	CHANNEL EXC. CU.YDS.	FILL CU.YDS.	EXCESS EXC. CU.YDS.	BORROW EXC. CU.YDS.	REMARKS
1	CHANNEL CHANGES	3336	0	3336	0	PLACE IN BAL. NO. 4
2	NORTH BRIDGE ABUT.	0	15963 *	0	19156 *	
3	SOUTH BRIDGE ABUT.	0	13869 *	0	16644 *	
4	±47+95 TO ±50+60 *	0	2690	0	0	OBTAINED FROM BAL. NO. 1
TOTAL		3336	32522 *	-	35800 *	

TREE REMOVAL

LOCATION	QUANTITY ACRES
MAINLINE 43+00 TO 50+00	5.5
CH.CH.LT. 44+00 TO 46+00	0.7
CH.CH.RT. 43+60 TO 44+00	0.9
TOTAL	7.1

* See 12-1-61 P.C.C.

F.A.I. 57 SEC. 28 - 5B FRANKLIN COUNTY



GENERAL NOTES
 NO OVERHAUL WILL BE ALLOWED FOR EARTH MOVED FROM ANY SOURCE.
 REFERENCE AND PRESERVE LAND CORNERS AND UNITED STATES GOVERNMENT
 BENCH MARKS.
 WHEREVER IN THESE PLANS REFERENCE IS MADE TO THE "STANDARD SPECIFI-
 CATIONS", IT IS UNDERSTOOD TO INCLUDE THE "SUPPLEMENTAL SPECIFICA-
 TIONS", EFFECTIVE JULY 1, 1961.

SUMMARY OF QUANTITIES

SECTION 28-5B				CODE
QUANTITY	UNIT	ITEM		NUMBER
7.1	ACRS	TREE REMOVAL, ACROSS		01005
3336	CU.YD.	CHANNEL EXCAVATION		013001
** 35800	CU.YD.	BOTTOM EXCAVATION		013001
4	UNIT	WATER APPLIED		016003
1160	CU.YD.	CLASS A EXCAVATION FOR STRUCTURES		050001
460	CU.YD.	CLASS B EXCAVATION FOR STRUCTURES		050002
761.4	CU.YD.	CLASS A CONCRETE		052002
996.1	CU.YD.	CLASS X CONCRETE		052003
866720	POUND	ERECTING STRUCTURAL STEEL		054003
198950	POUND	REINFORCEMENT BARS		059001
480	LIN.FT.	FURNISHING CROSCOTED PILES UP TO 20 FEET		060004
480	LIN.FT.	DRIVING TIMBER PILES		060008
9009	LIN.FT.	FURNISHING STEEL PILES 8SP36		060027
9009	LIN.FT.	DRIVING STEEL PILES		060037
# 4	EACH	TEST PILE STEEL 8SP36		060036
2	EACH	NAME PLATES		061001
2120	SQ.YD.	SLOPE WALL 6 INCH		083003
1461	LIN.FT.	ALUMINUM HANDRAIL		200004
SECTION 28-5F				
866720	POUND	FURNISHING STRUCTURAL STEEL		054002

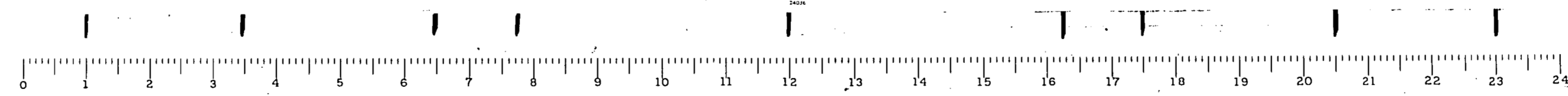
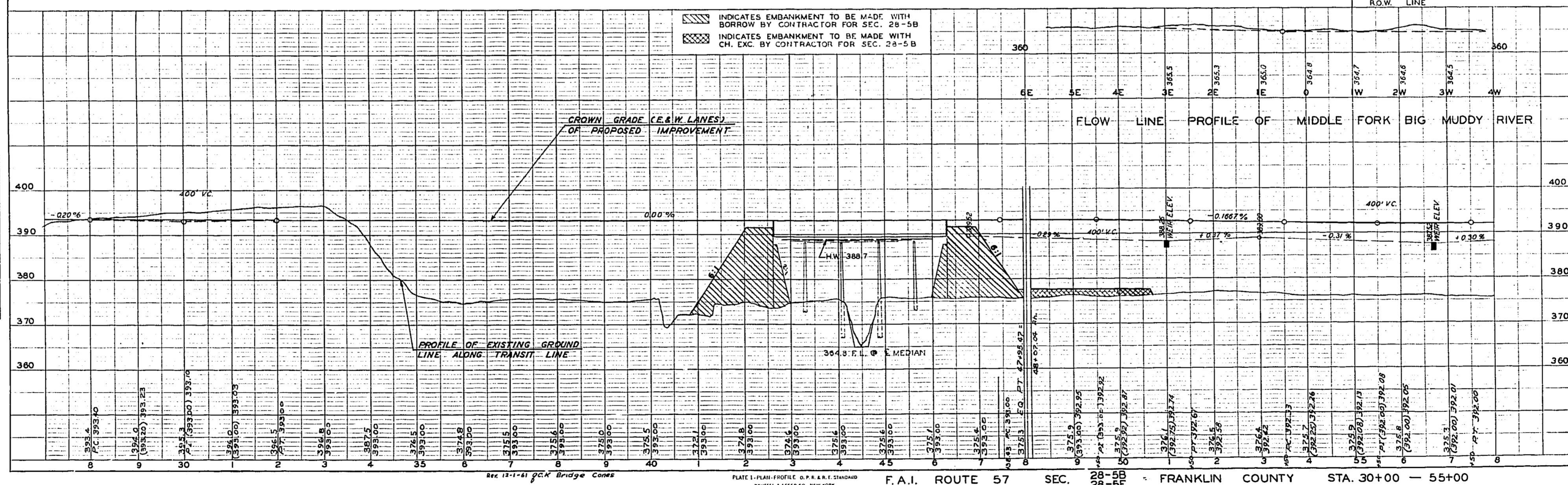
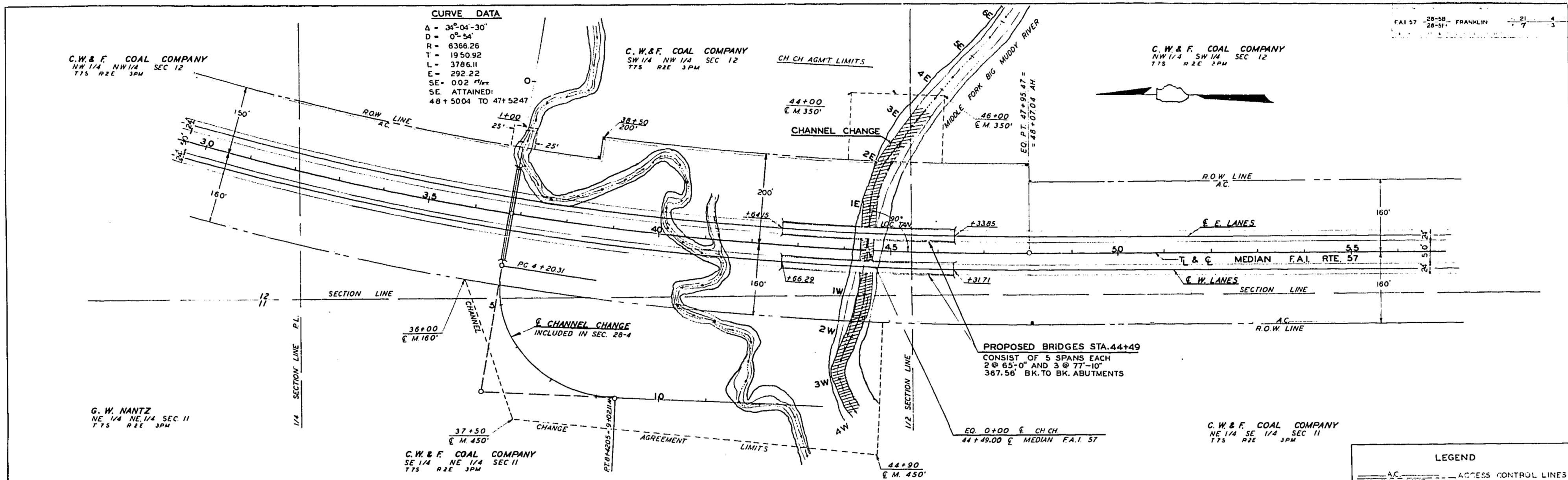
INDEX OF SHEETS

SECTION 28-5B	SECTION 28-5F	SHEET NO.	TITLE SHEET.
1	1	1	TITLE SHEET.
2		2	TYPICAL CROSS SECTION; SCHEDULES OF QUANTITIES.
3	2	3	GENERAL NOTES; SUMMARY OF QUANTITIES; INDEX OF SHEETS.
4	3	4	PLAN AND PROFILE P.A.I. ROUTE 57.
5		5	BENCH MARKS AND TRANSITING TIES P.A.I. ROUTE 57.
6-15	4-7	6-15	STRUCTURES OVER MIDDLE FORK OF BIG MUDDY RIVER (10 SHEETS).
16-18		16-18	CROSS SECTIONS P.A.I. ROUTE 57 (3 SHEETS).
19		19	CROSS SECTIONS CHANNEL CHANGE
20		20	STANDARD NUMBERS 1686-1; 2113
21		21	STANDARD NUMBERS 1972-1; 2114

PREPARED BY *[Signature]* DISTRICT ENGINEER
 EXAMINED BY *[Signature]* DISTRICT ENGINEER
 EXAMINED BY *[Signature]* DISTRICT MAINTENANCE ENG.
 EXAMINED BY *[Signature]* DIST. TRAFFIC ENGINEER
 APPROVED *[Signature]* DISTRICT ENGINEER

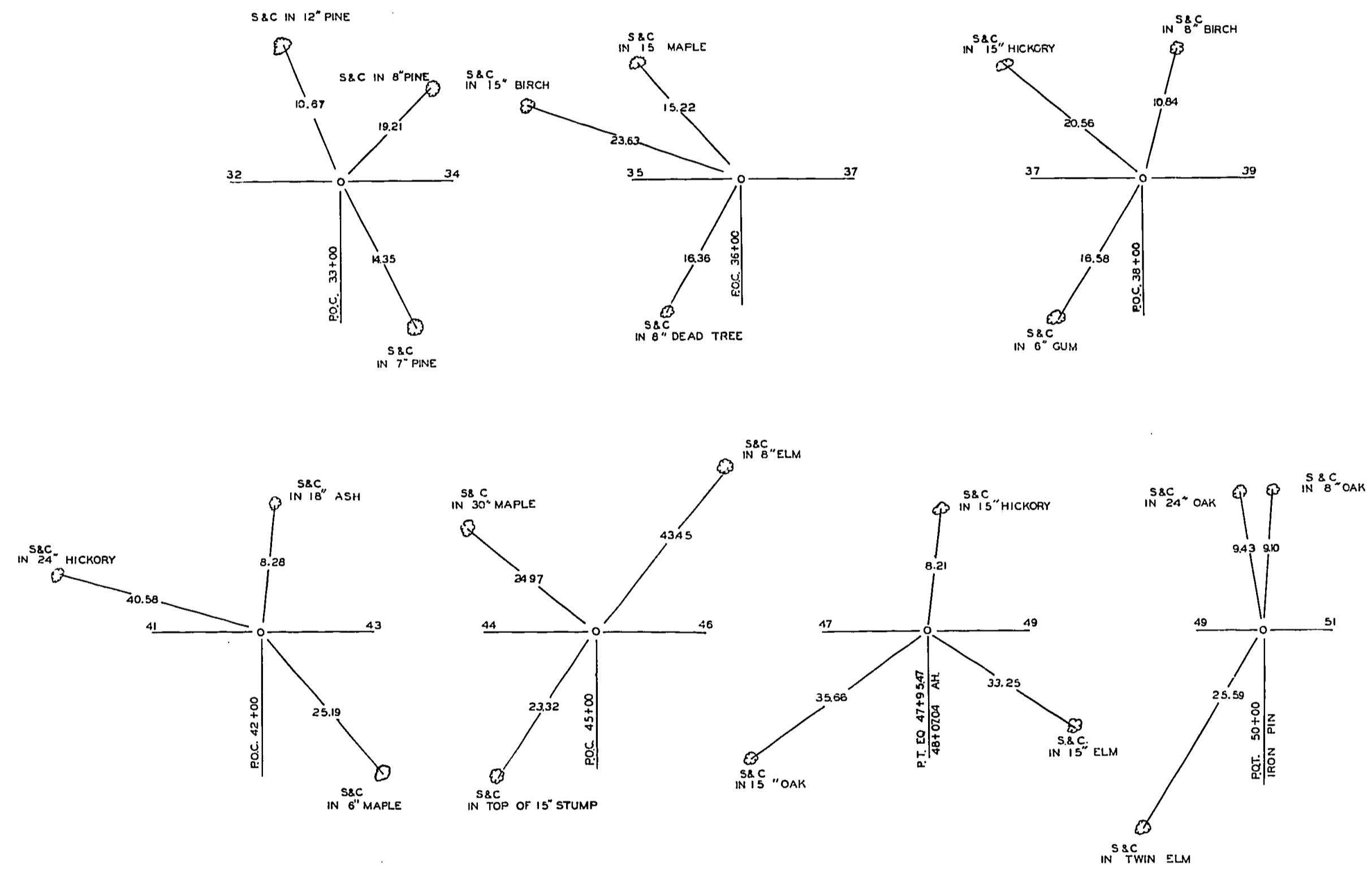
* Revised Unit 10-5-61
 ** Revised from 15624 12-1-61 pcc





ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAJ 57	28-5B	FRANKLIN	21	5
FOR ROAD DIST. NO. 7 ILLINOIS PROJECT				

TIES



BENCH MARKS

- BM — RR. SPINE IN EAST ROOT OF 15" MAPLE .38' RIGHT STA. 43+88 ELEV. 375.75
- BM — CONCRETE MONUMENT 17.5' RIGHT OF STA. 31+61 — ELEV. 394.79
- BM — CONCRETE MONUMENT 150 FT. STA 61+00 ELEV. 375.24

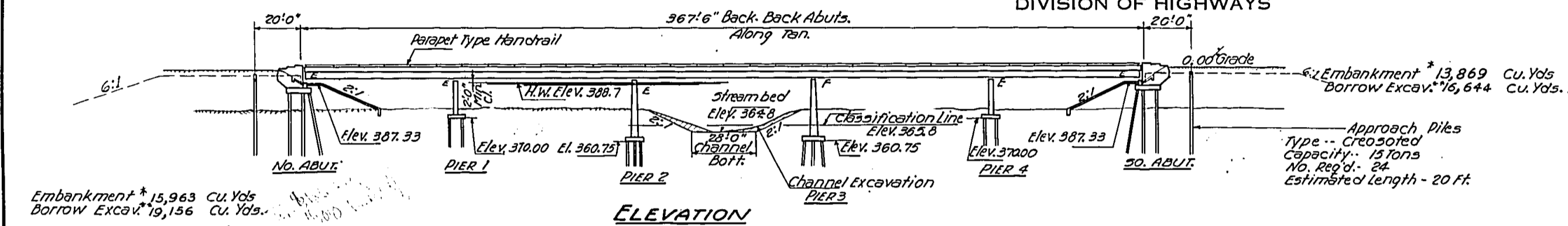
FAJ. ROUTE 57 SEC. 28 - 5B FRANKLIN COUNTY



B.M. spike in East Foot of 15' Dept
36' Ht. Sta. 43+06 Elev. 375.75

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

Sheet No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Project No.	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100														



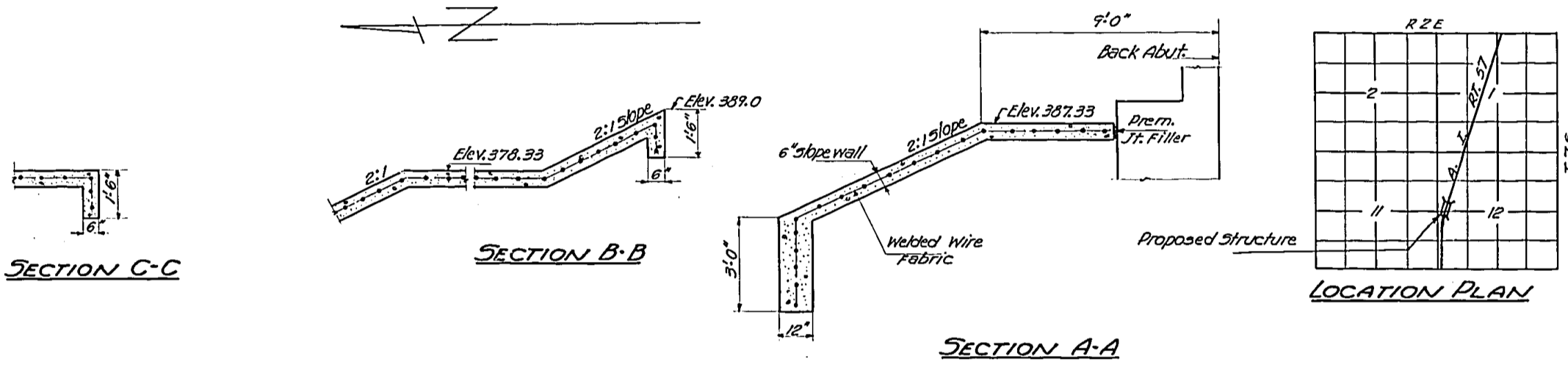
Embankment 15,963 Cu. Yds.
Borrow Excav. 19,156 Cu. Yds.

Embankment 13,869 Cu. Yds.
Borrow Excav. 16,644 Cu. Yds.

GENERAL NOTES

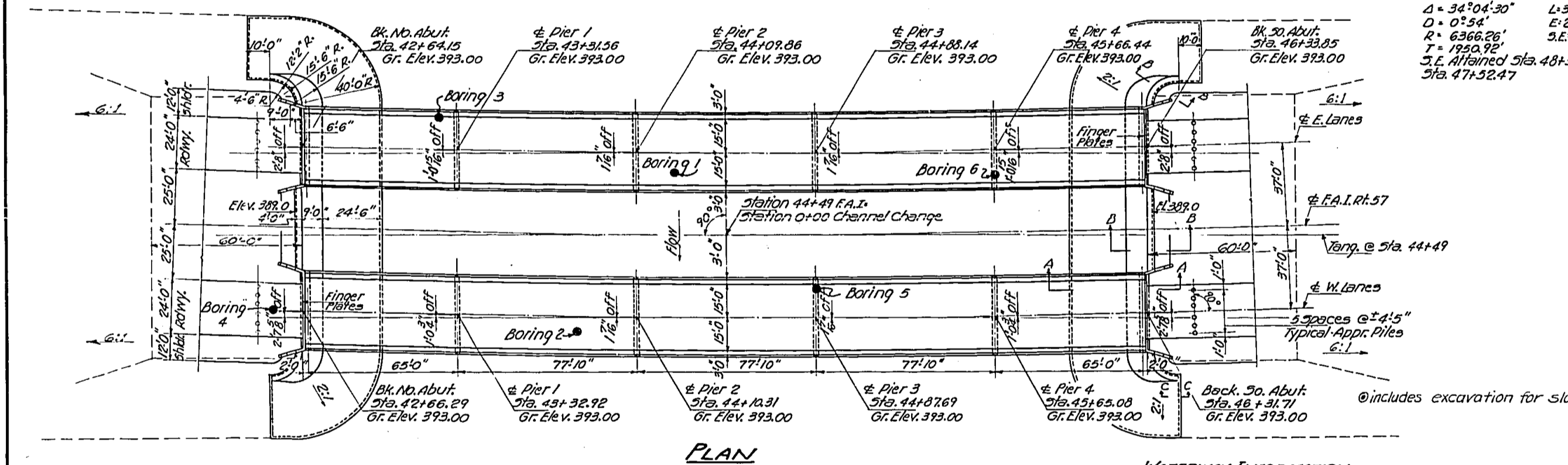
Class-X Concrete shall be used throughout except in Piers
Class-A Concrete shall be used in Piers
Coarse aggregate which is to be used in parapet hand rails and abutment wing walls must be free of chert, flint, limestone and soft sandstone.
The concrete floor slab shall be finished in accordance with Art. 5.19 of the standard specifications.
Rivets shall be open holes unless noted.
All structural steel shall conform to the A.S.T.M. specifications for structural steel, designation A-36.
All rockers, bolsters, bearing plates, lead plates and anchor bolts shall be fabricated and set in accordance with Art. 5.15 of the standard specifications and are included in quantity of structural steel with rivets.
Anchor bolts shall be set before setting diaphragms over supports.
Expansion guards shall be fabricated and erected in accordance with Art. 5.12 (c) of the standard specifications.
The finger plate expansion guards shall be assembled in the shop in proper position with adjacent ends in place and shall be left assembled for shop inspection.
Piles shall be flame cut as provided in Art. 5.4 (c) of the standard specifications.
All surfaces of the expansion guards inaccessible after erection shall be given two shop coats of red lead paint except the anchor studs which shall not be painted.
Expansion guards are included in quantity of structural steel, but not in quantity of concrete.
Except where otherwise provided structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint.
See Art. 5.6.1 to 5.6.3 inclusive of the standard specifications. All paint shall be furnished and applied by the contractor involved.
The contractor shall drive four test piles in permanent locations, before ordering the remainder of the piles. Test piles shall be driven in the North East and South West abutments, and in Pier #1 (East lane) and Pier #3 (West lane).

Layout of the slope wall may be varied to suit the ground conditions in the field as directed by the Engineer.
Slope wall shall be reinforced with welded wire fabric, 6"x6" mesh, weighing 50# per 100 sq. ft.



Horiz. Curve Data

Δ = 34°04'20"	L = 3786.11'
D = 0°54'	E = 292.22'
R = 6368.28'	S.E. = 0.0211
T = 1920.92'	
T.E. Affected Sta. 43+50.04 to 44+47.52+7	



TOTAL BILL OF MATERIAL - SEC. 20-5B

ITEM	UNIT	SUPER.	SUB.	TOTAL
Channel Excavation	Cu. Yds.			3,336
Borrow Excavation	Cu. Yds.			35,800
Class-A Excavation for structures	Cu. Yds.			1160
Class-X Excavation for structures	Cu. Yds.			460
Class-X concrete	Cu. Yds.	814.1	182.0	996.1
Erecting structural steel	Lbs.	886720		886720
Aluminum Handrail	Lin. Ft.	1461		1461
Steel Piles (8" x 36")	Lin. Ft.	9009		9009
Creosoted Piles	Lin. Ft.	480		480
Test Piles Steel (8" x 36")	Each		4	4
Name Plates	Each		2	2
Slope Wall	Sq. Yds.		2120	2120
Class-A Concrete	Cu. Yds.		741.4	741.4
Reinforcement Bars	Lbs.	16200		36940

TOTAL BILL OF MATERIAL - SEC. 20-5F

ITEM	UNIT	TOTAL
Furnishing structural steel	Lbs.	886720

GENERAL PLAN & ELEVATION
MIDDLE FORK OF THE MUDDY
F.A.L. RT. 57 - SEC. 20-5B-F
F.A. PROJ. 1-57-2 (25) 63
FRANKLIN COUNTY
STATION 44+49

DESIGNED: *Blount*
CHECKED: *Walter Perry*
DRAWN: *E.K.*
APPROVED: *H. Miller*

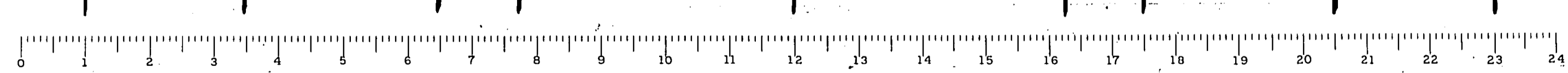
EXAMINED: *H.C. Beaman*
PASSED: *[Signature]*

STATION 44+49
BUILT 1966 BY
STATE OF ILLINOIS
F.A.L. RT. 57 - SEC. 20-5B
F.A. PROJ. 1-57-2 (25)
LOADING 120-360, 447

LETTERS FOR NAME PLATE
See Standard 210

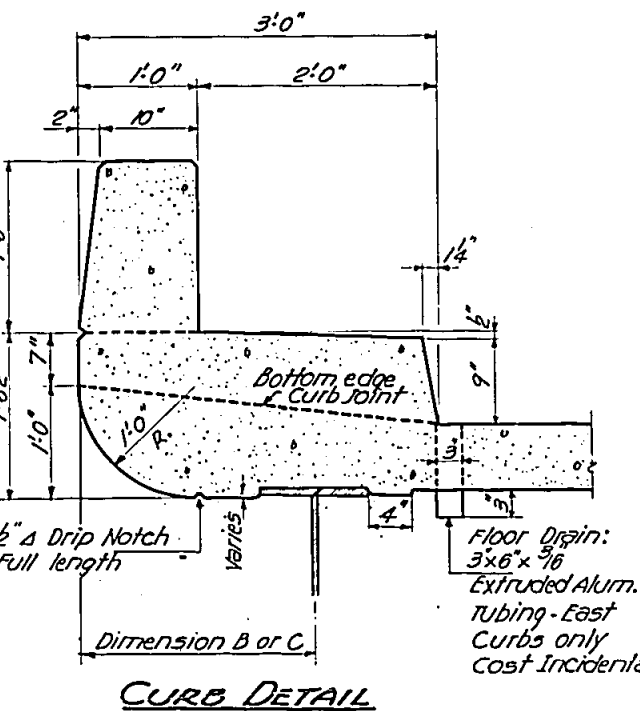
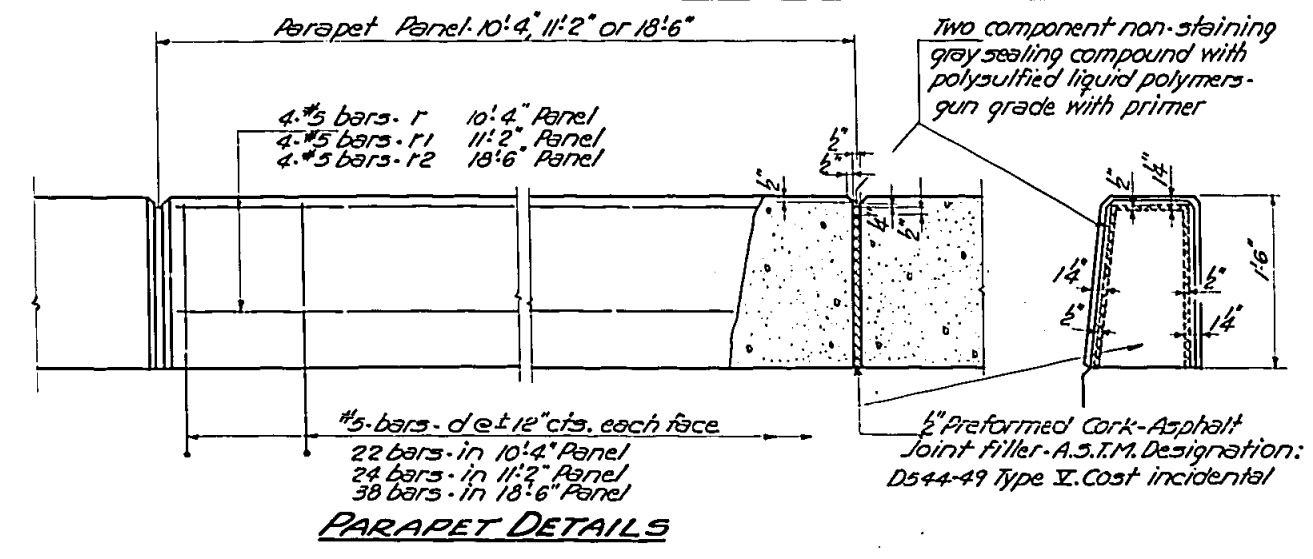
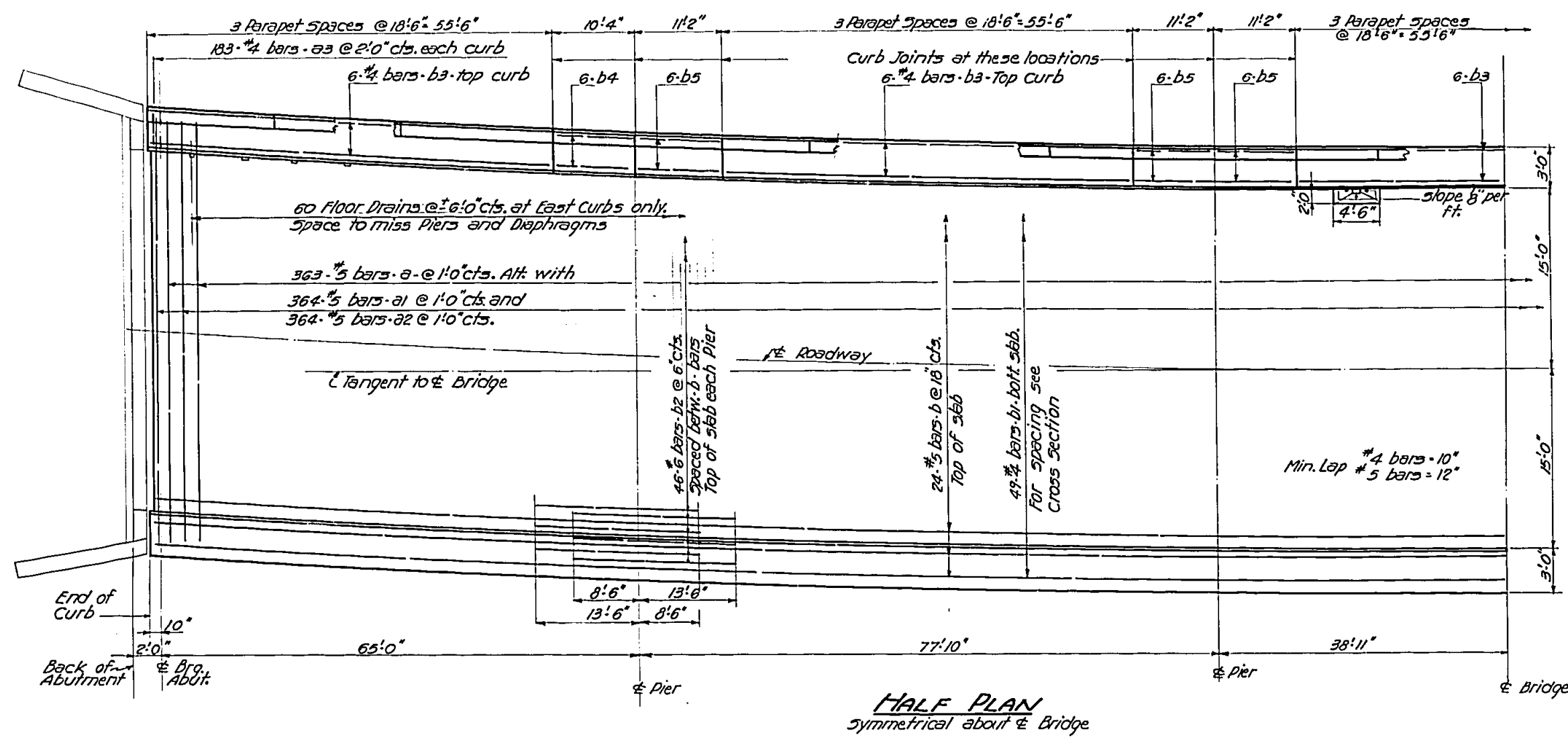
DESIGN STRESSES
F_c = 1400 lbs. square in.
F_s = 20000 lbs. square in.
F_s = 20000 lbs. square in. (25 steel)
F_c = 75% Footings
n = 10

Revised 9-11-1931 - In ELEVATION of No. Abut. Change quantity of Embankment from 15,963 Cu. Yds. to 13,869 Cu. Yds. & Borrow Excavation from 19,156 Cu. Yds. to 16,644 Cu. Yds. Change quantity of Channel Excavation from 3,336 Cu. Yds. to 1,160 Cu. Yds. Change quantity of Borrow Excavation from 35,800 Cu. Yds. to 35,800 Cu. Yds. Change quantity of Class-A Excavation for structures from 1,160 Cu. Yds. to 1,160 Cu. Yds. Change quantity of Class-X Excavation for structures from 460 Cu. Yds. to 460 Cu. Yds. Change quantity of Class-X concrete from 996.1 Cu. Yds. to 996.1 Cu. Yds. Change quantity of Erecting structural steel from 886,720 Lbs. to 886,720 Lbs. Change quantity of Aluminum Handrail from 1,461 Lin. Ft. to 1,461 Lin. Ft. Change quantity of Steel Piles (8" x 36") from 9,009 Lin. Ft. to 9,009 Lin. Ft. Change quantity of Creosoted Piles from 480 Lin. Ft. to 480 Lin. Ft. Change quantity of Test Piles Steel (8" x 36") from 4 Each to 4 Each. Change quantity of Name Plates from 2 Each to 2 Each. Change quantity of Slope Wall from 2,120 Sq. Yds. to 2,120 Sq. Yds. Change quantity of Class-A Concrete from 741.4 Cu. Yds. to 741.4 Cu. Yds. Change quantity of Reinforcement Bars from 36,940 Lbs. to 36,940 Lbs.

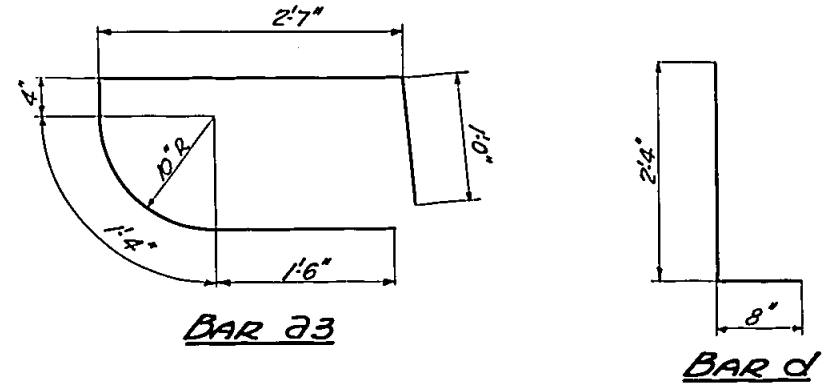
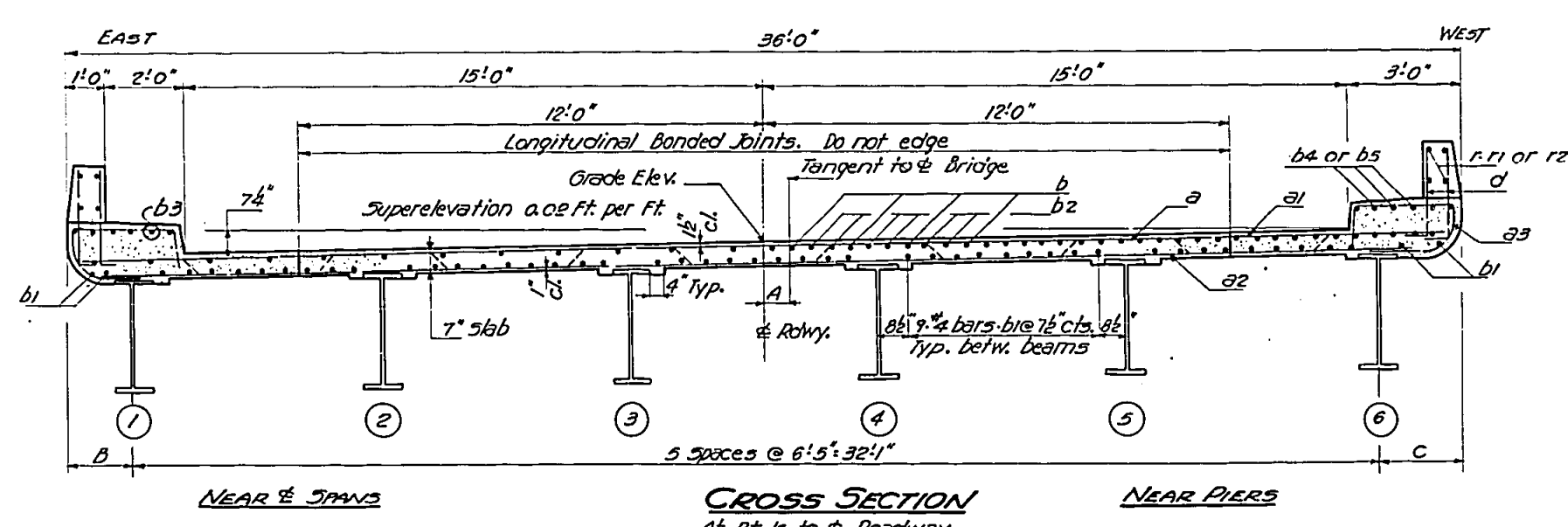


STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	COUNTY	TOWNSHIP	RANGE	SHEET NO. 2
28-58	28-58	Franklin	21	7	10 SHEETS
1-11-51	28-58				



DETAILS OF 6" ALUMINUM SHEETS
used in curb joints (3003-H14)
cost incidental



BILL OF MATERIAL

Bar	Qty	SIZE	Length	Shape
a	726	#5	36'7"	—
b1	726	#5	35'6"	—
b2	726	#5	34'0"	—
b3	732	#4	6'9"	—
b	672	#5	27'10"	—
b1	1568	#4	29'8"	—
b2	368	#6	22'0"	—
b3	240	#4	28'9"	—
b4	48	#4	10'1"	—
b5	144	#4	10'11"	—
d	3032	#5	3'0"	—
r	32	#5	10'1"	—
r1	96	#5	10'11"	—
r2	240	#5	18'3"	—

Class-X Concrete Cu.Yds. 814.1
Reinforcement Bars Lbs. 162010
Structural Steel Lbs. 886720

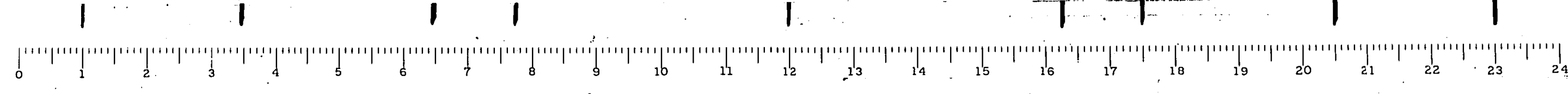
TABLE OF VARYING DIMENSIONS: A-B-C

LOCATION	WEST BRIDGE			EAST BRIDGE		
	A	B	C	A	B	C
@ Brg. Abut.	2'7"	2'0 1/2"	1'10 3/8"	2'7 1/8"	2'0 1/8"	1'10 1/8"
@ Pier 1 or 4	1'0 3/8"	2'2 3/8"	1'8 3/8"	1'0 7/8"	2'2 1/8"	1'8 1/8"
@ Splice 1 or 4	9 7/8"	2'4 3/8"	1'6 3/8"	9 7/8"	2'4 1/8"	1'6 1/8"
@ Pier 2 or 3	1'6"	1'8 3/8"	2'2 3/8"	1'6"	1'8 3/8"	2'2 3/8"
@ Bridge (Cts 44+49)	0"	1'7"	2'4"	0"	1'7"	2'4"

DESIGNED R. Kowal
CHECKED Walter Perry
DRAWN R.K. Miller
CHECKED W.P.

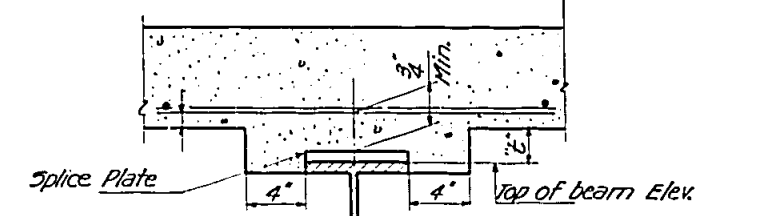
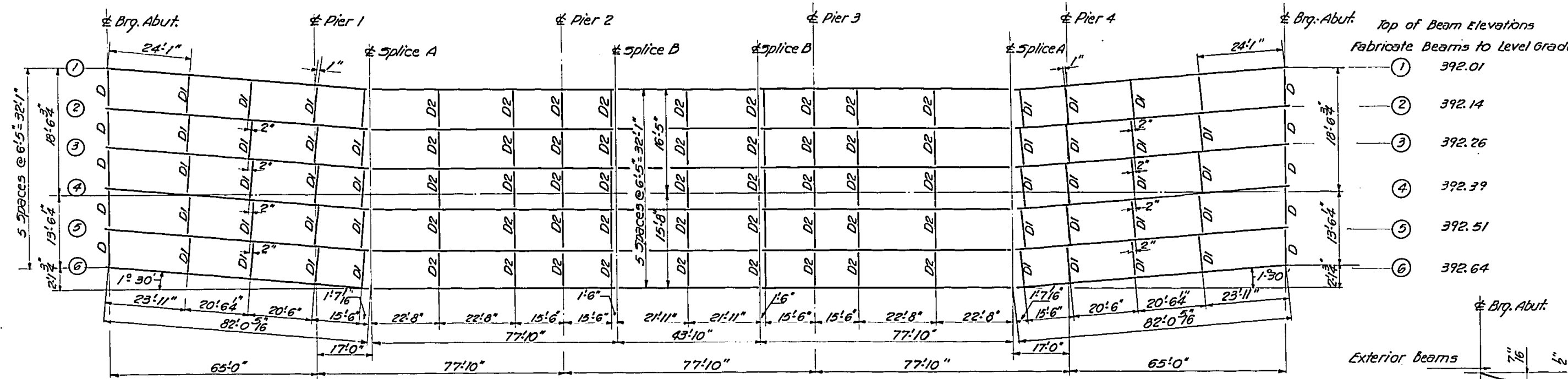
EXAMINED H.E. B...
PASSED
APPROVED

SUPERSTRUCTURE
F.A.L. Rt. 57, Sec. 28-58-F
FRANKLIN COUNTY
STATION 44+49

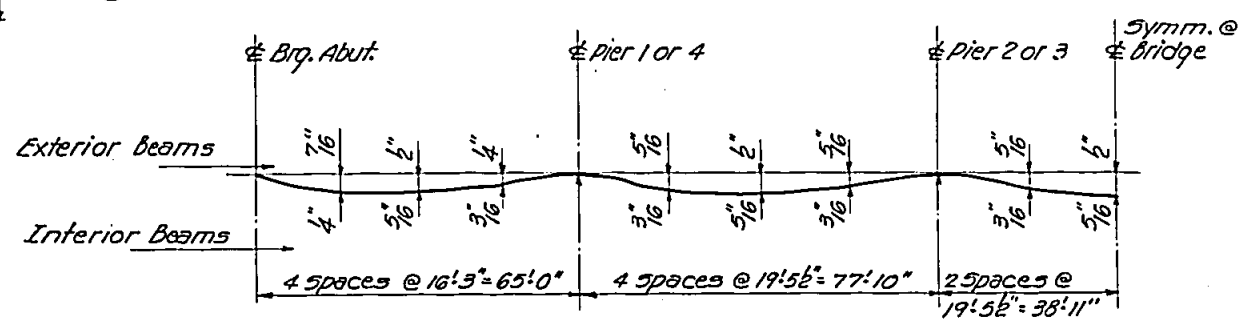


STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	DATE	BY	CHKD.	REV.	SHEET NO.
18-58	Franklin	21	7	6		8
18-57	Franklin	21	7	6		7
18-56	Franklin	21	7	6		6

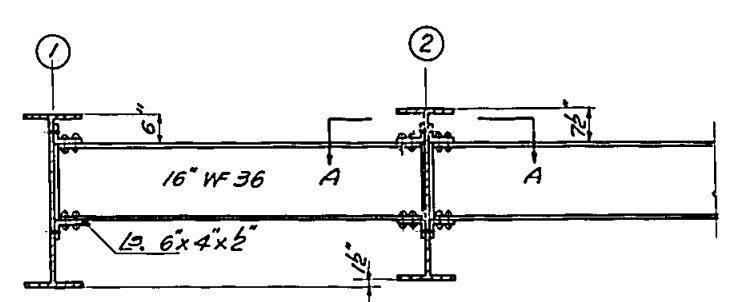


METHOD OF DETERMINING FILLET HEIGHTS
After all structural steel has been erected elevations of the top flanges of the beams shall be taken at interval not to exceed 10 ft. From these elevations subtract the increment of deflection for these points determined for D.L. deflection diagram. The elevations so obtained subtracted from the theoretical grade elevations minus 1/4" or thickness equals the fillet height above top of beam.

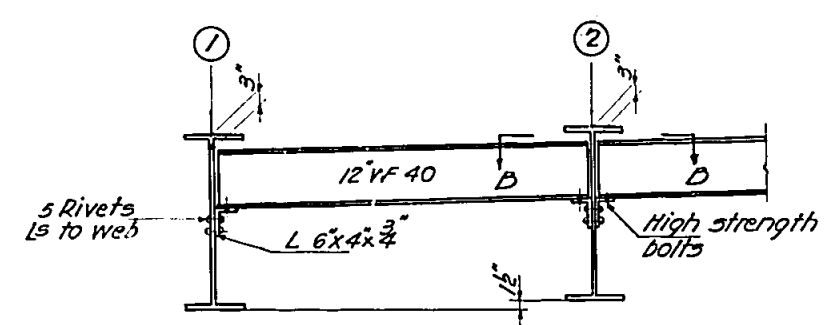


BEAM FRAMING PLAN
All beams 36" W 170

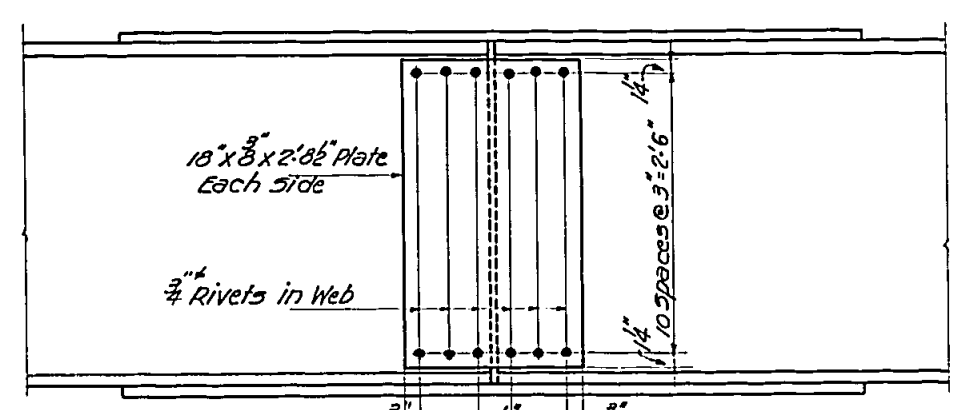
DEAD LOAD DEFLECTION DIAGRAM
Weight of concrete only



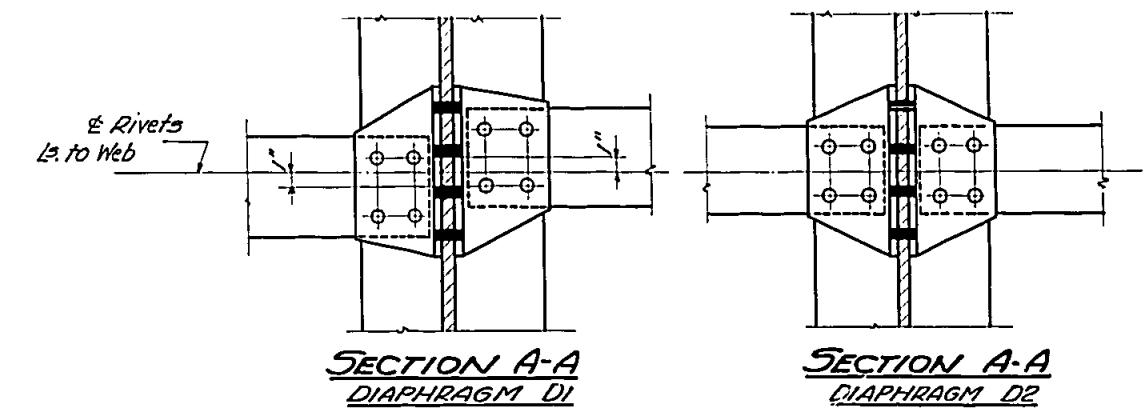
PARTIAL ELEVATION-DIAPHRAGMS D1 & D2



PARTIAL ELEVATION-DIAPHRAGMS D

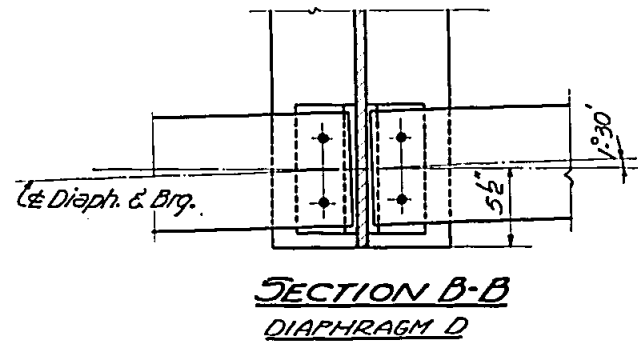


ELEVATION SPICE A & B

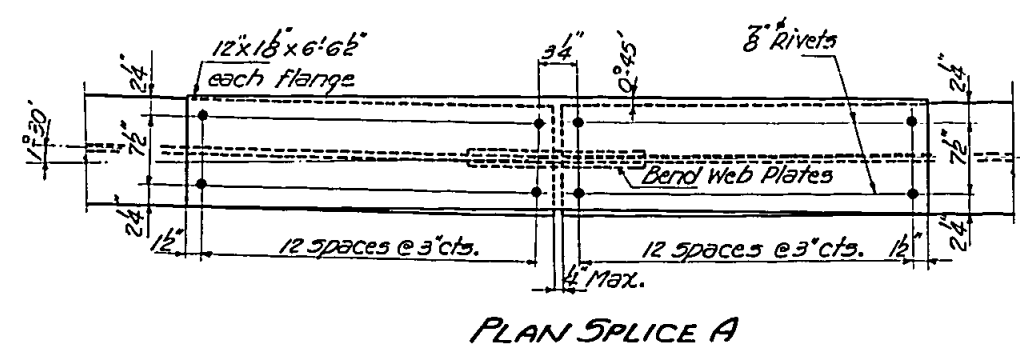


SECTION A-A DIAPHRAGM D1

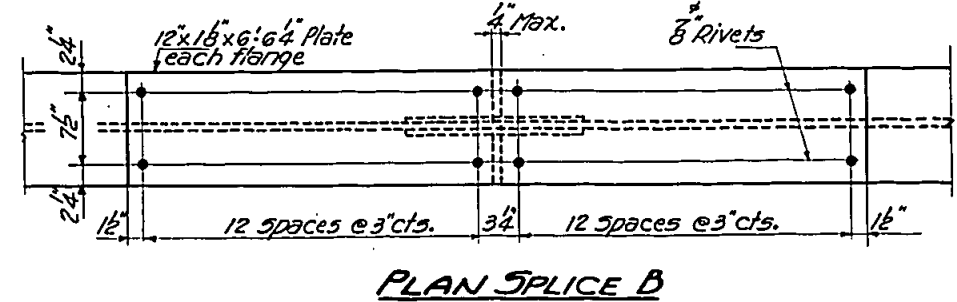
SECTION A-A DIAPHRAGM D2



SECTION B-B DIAPHRAGM D



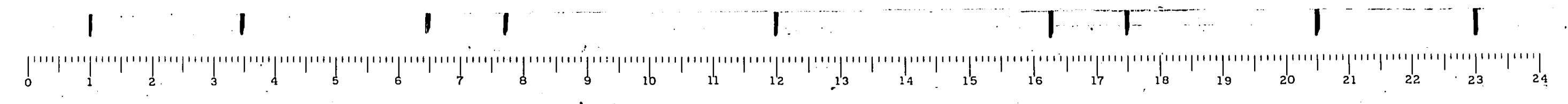
PLAN SPICE A



PLAN SPICE B

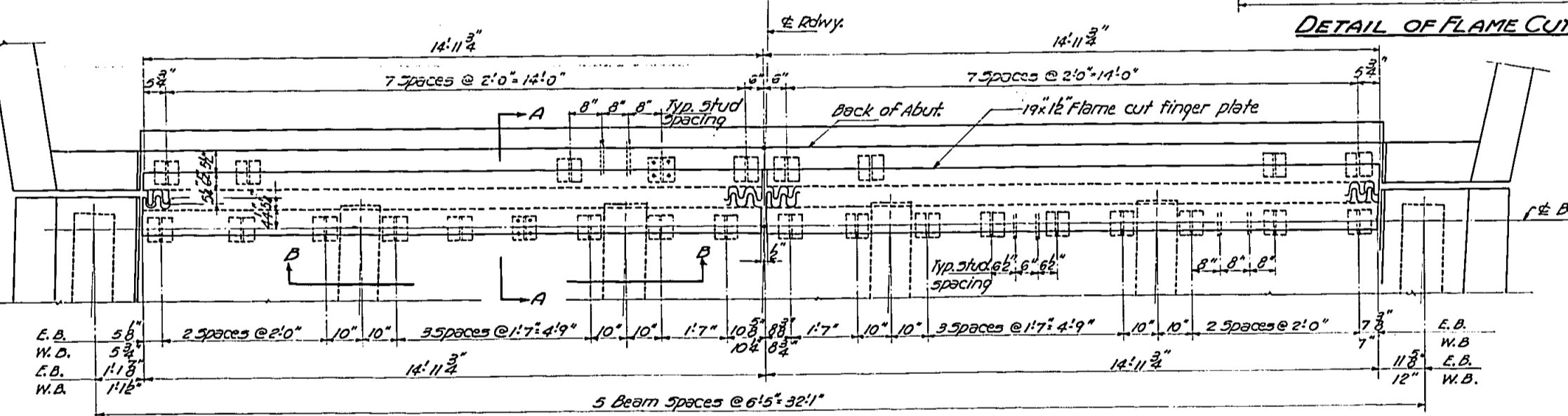
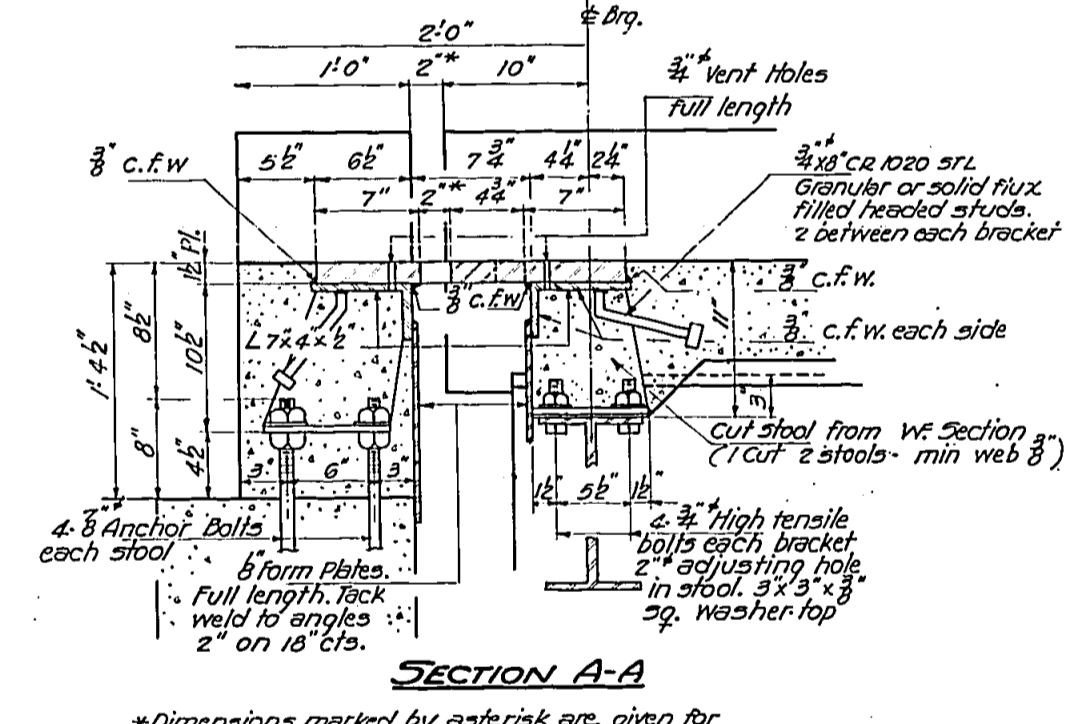
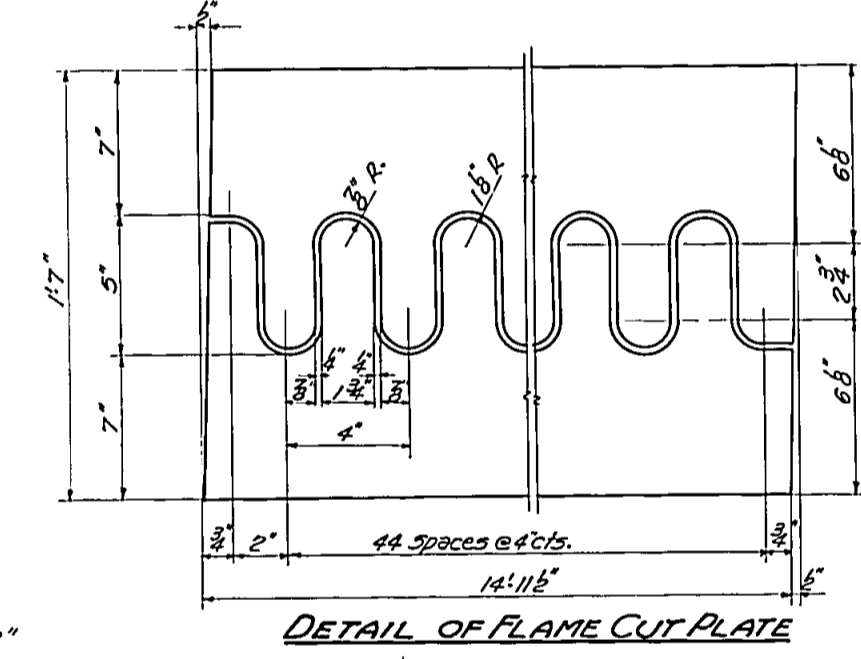
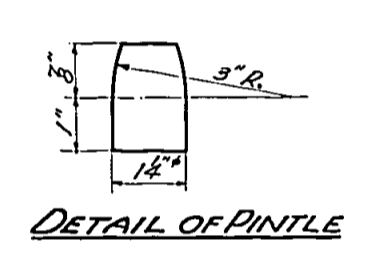
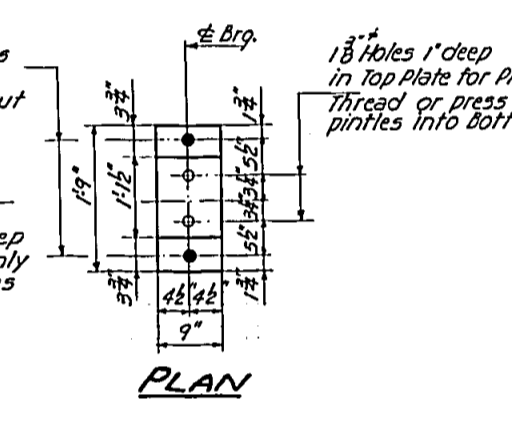
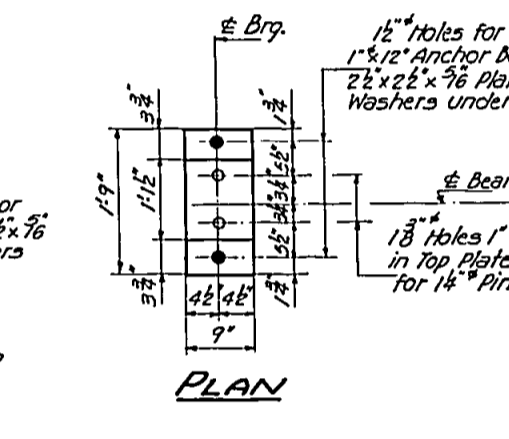
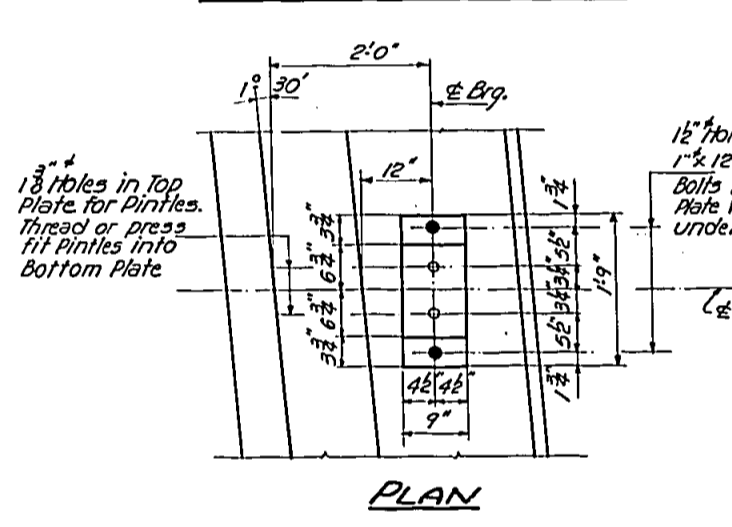
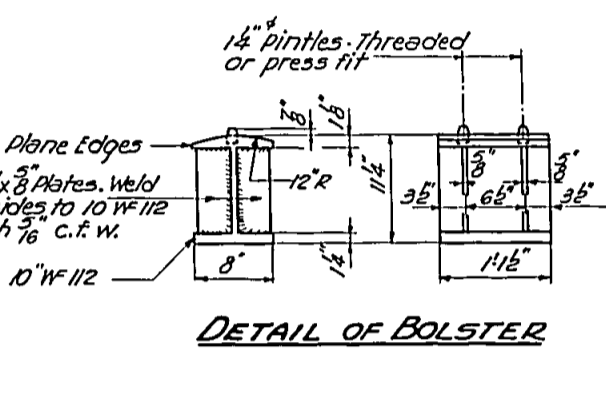
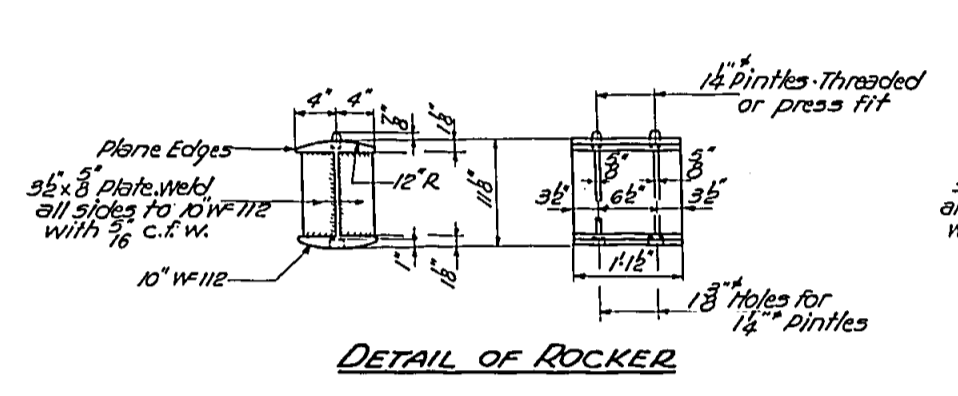
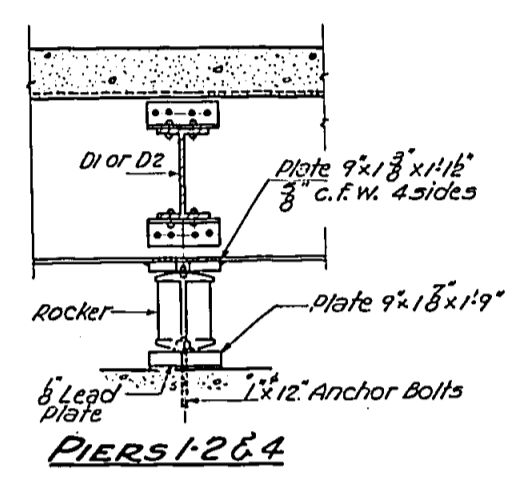
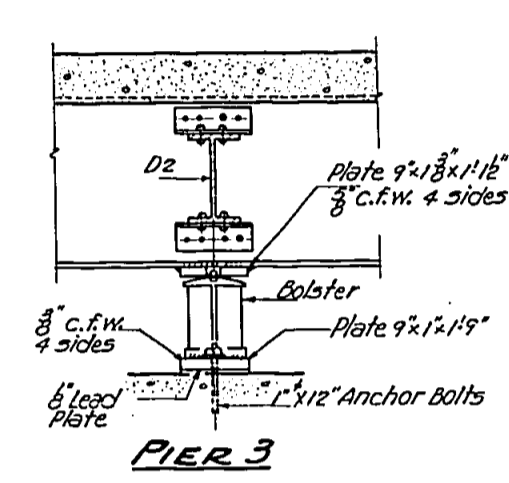
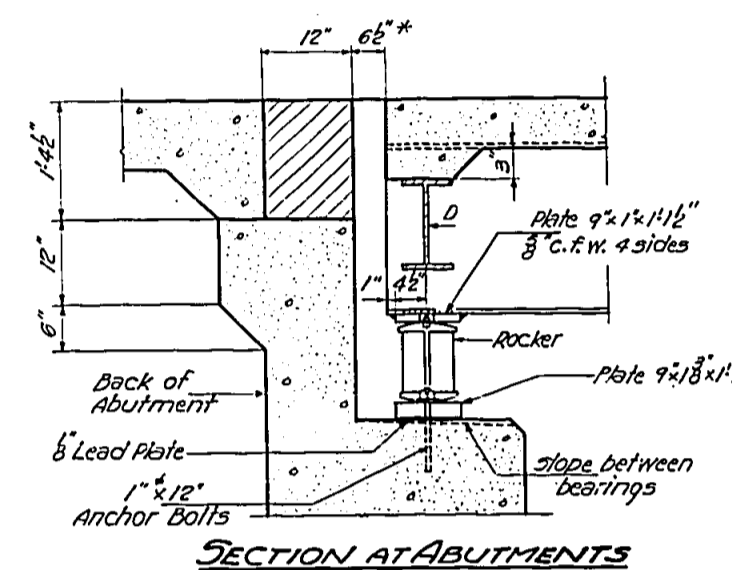
DESIGNED	R. Kowal	EXAMINED	AUG 19 1951
CHECKED	Walter Boney	PASSED	M. B. Boney
DRAWN	M. Miller	APPROVED	M. B. Boney
CHECKED	W.P.		

STRUCTURAL STEEL
CAL. RT. 57- SEC. 20-50-F
FRANKLIN COUNTY
STATION 44+47



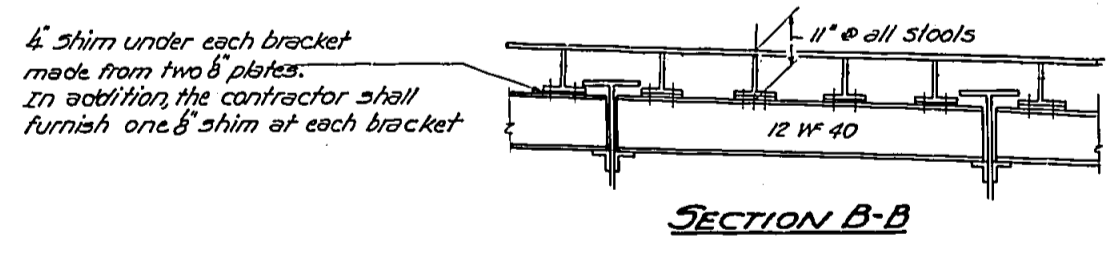
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PIER NO.	SECTION	COUNTY	SPANS	FEET	SHEET NO. OF 10 SHEETS
1 & 2	28-58	Franklin	21	9	
3 & 4	28-58		7	7	
DESIGNED BY: [Signature]					SCALE: AS SHOWN

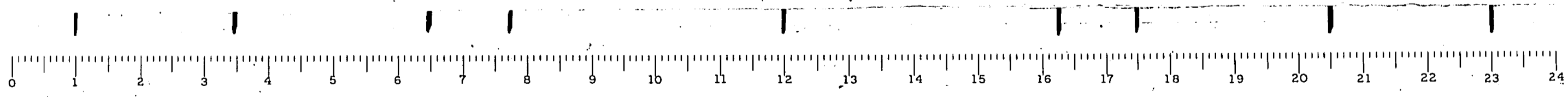


*Dimensions marked by asterisk are given for normal temperature of 50°F

DESIGNED <i>R. Kowal</i>	EXAMINED <i>Aug 19 1911</i>
CHECKED <i>Walter Leary</i>	PASSED <i>[Signature]</i>
DRAWN <i>CH</i>	APPROVED <i>[Signature]</i>
CHECKED <i>472</i>	



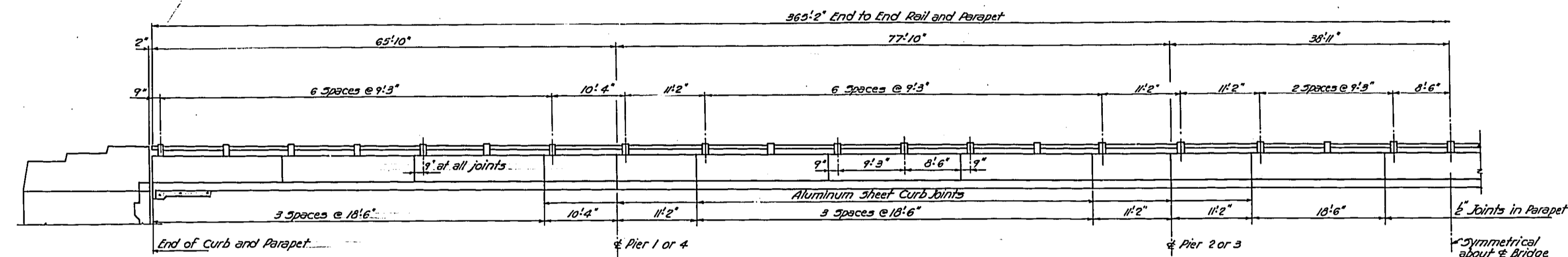
BEARING & EXPANSION GUARD
DETAILS
I.A.I. 27-57-SEC. 28-58-F
FRANKLIN COUNTY
STATION 44+49



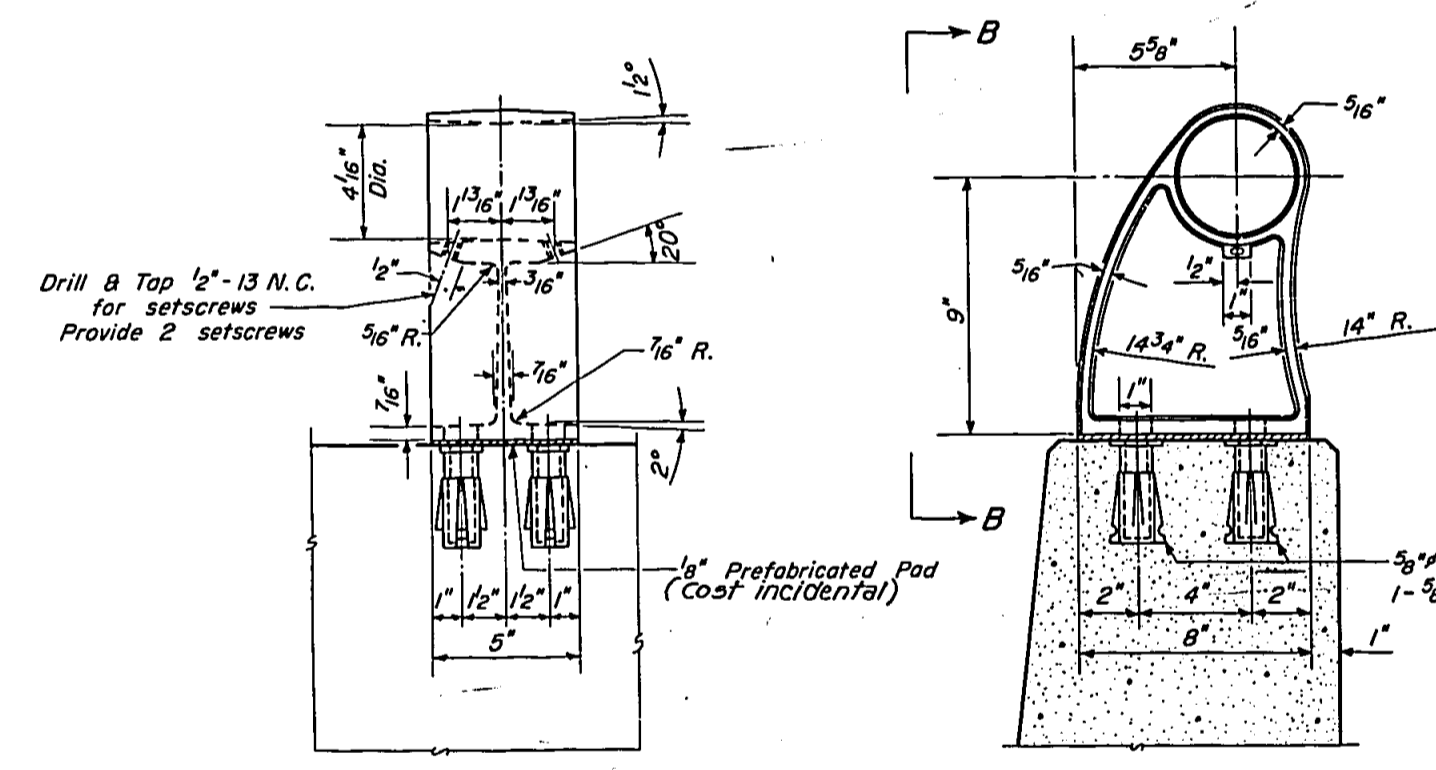
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	LENGTH	SHEET NO.	TOTAL SHEETS
28-5B	Franklin	21	10	10

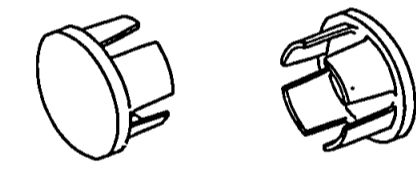
SHEET NO. 5
10 SHEETS



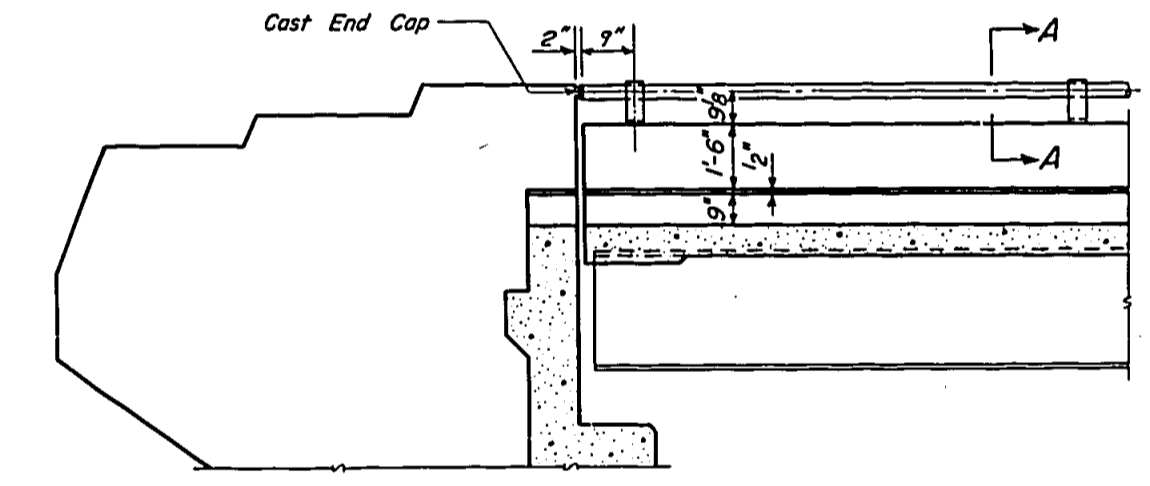
HALF ELEVATION - RAIL



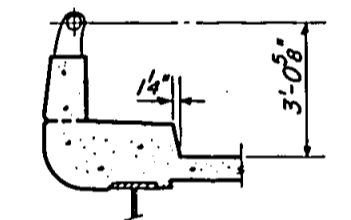
RAIL POST DETAILS



CAST END CAP
DRIVE FIT TYPE
4" Required
Incidental to Item "Aluminum Handrail"



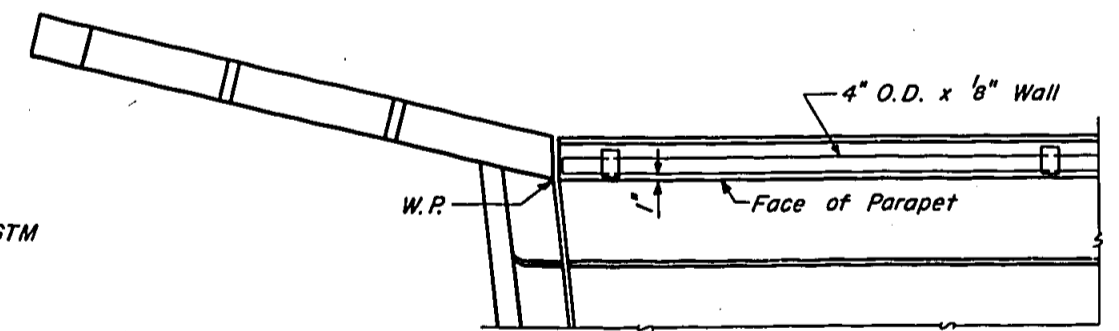
ELEVATION - END POST



SEC. THRU CURB

BILL OF MATERIAL

Item	Unit	Quantity
Aluminum Handrail	Lin. Ft.	14.67



PLAN - END POST

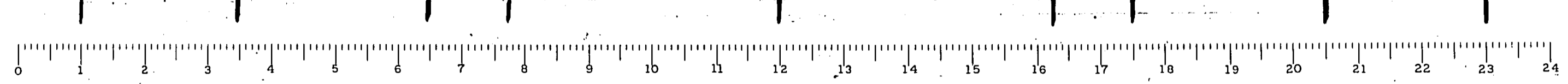
NOTES
All Posts shall be placed normal to parapet
All Posts shall be of Aluminum conforming to ASTM Specification B-109 alloy 56-702-T6.
All Rail Tubing shall be of Aluminum conforming to ASTM Specification B-235 alloy 6S-11A-T6.
Alclad Washers shall be made from sheet conforming to ASTM Specification B-209 alloy clad CG-42A-T4.
For material composition of Prefabricated Pad, See Art. 54.9 (F), (Bearings and Anchorage), of the Std. Specs.
Set Screws shall be of Aluminum conforming to ASTM Specification B-211 alloy CG-42A-T4.

DESIGNED <i>Elwood</i>	EXAMINED <i>H.C. B.</i>
CHECKED <i>Walter Perry</i>	PASSED <i>R.P. Perry</i>
DRAWN <i>W. A. Sausaman</i>	APPROVED <i>R.P. Perry</i>
CHECKED <i>W.R.</i>	

Aug 19 1961

R-10 Drawn 2-16-60

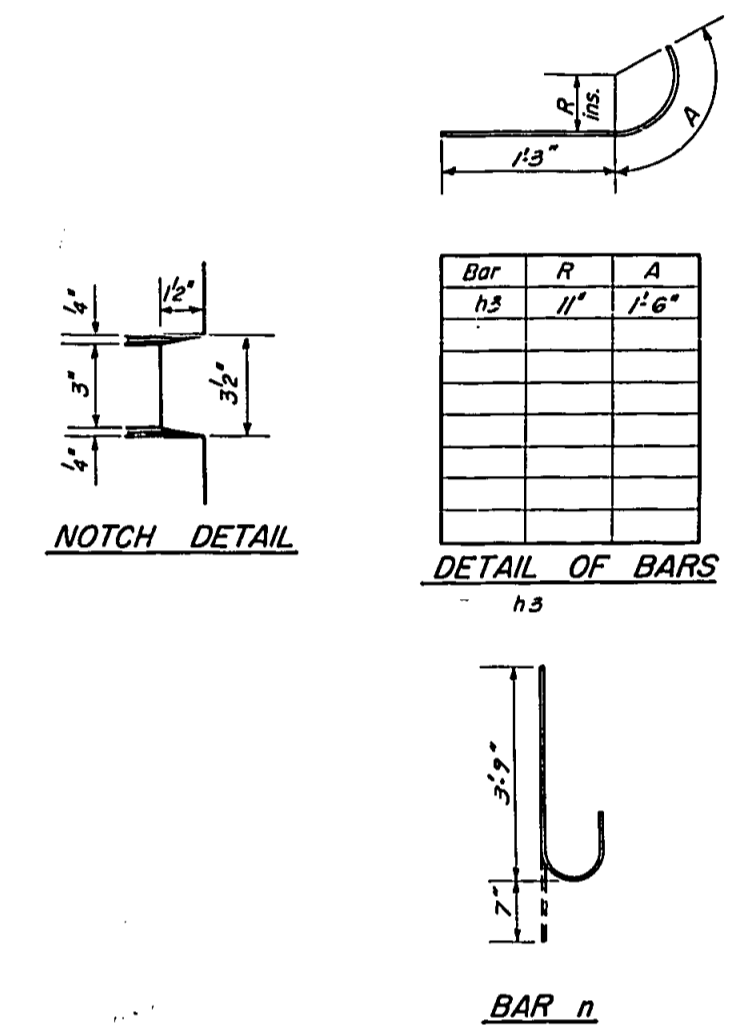
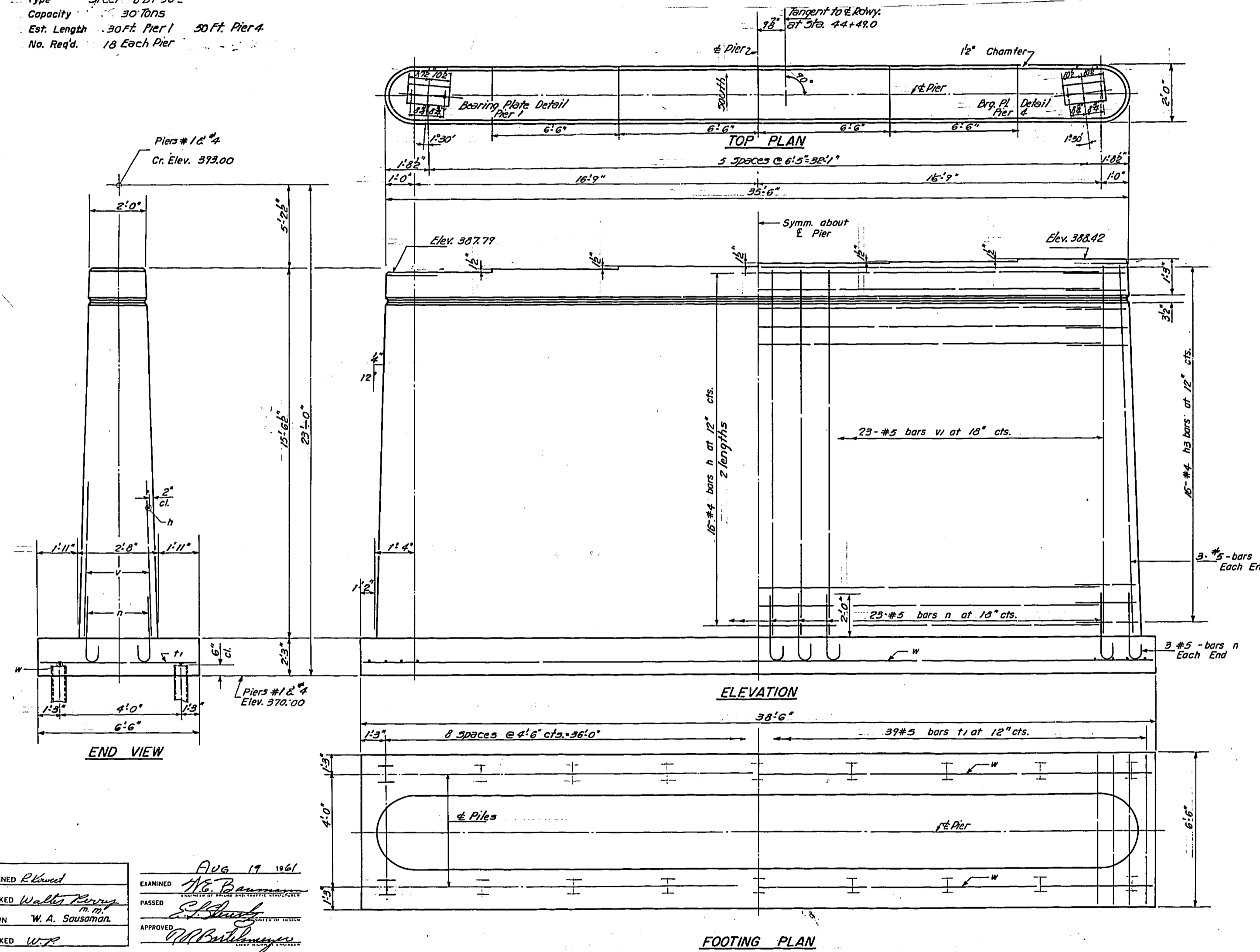
RAIL DETAILS
F.A.T. RES. SEC. 28-5B
FRANKLIN COUNTY
STATION 44+49



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

ROUTE NO.	SECTION	COUNTY	DIST.	POST MILE	SHEET NO. OF SHEETS
21	28-5B	Franklin	21	11	10 SHEETS

PILE DATA
Type Steel 8" P 36
Capacity 30 Tons
Est. Length 30 Ft. Pier 1 30 Ft. Pier 2
No. Req'd. 18 Each Pier



4 Piers

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	256	#4	17.9'	—
hb	296	#4	21.9'	—
n	208	#5	4.2'	—
t1	136	#5	6.3'	—
v1	208	#5	15.3'	—
w	16	#4	19.9'	—

Class-A Concrete Cu. Yds. 276.4
Reinforcement Bars Lbs. 8590
Steel Piles (8" P 36) Lin. Ft. 2850
Test Pile (Steel) Each 1

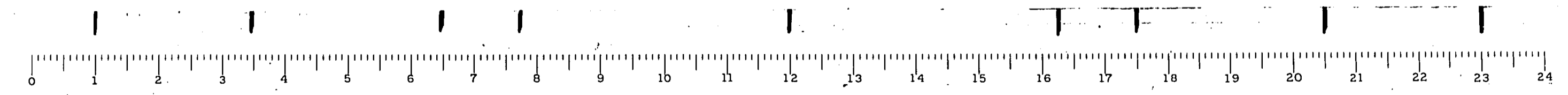
DESIGNED *R. Wood*
CHECKED *Walter R. ...*
DRAWN *W. A. Sausaman*
CHECKED *W. R.*

EXAMINED *H. B. ...*
PASSED *[Signature]*
APPROVED *[Signature]*

Aug 17 1961

PIERS 164
E.A.T. RT-57-5EC-28-5B
FRANKLIN COUNTY
STATION 44+27

P-1 Re-drawn 7-21-59 Rev. II-25-59



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

ROUTE NO.	SECTION	COUNTY	POST MILE	SHEET NO.	TOTAL SHEETS
285B	Franklin	21	12	19	19

PILE DATA
Type Steel 8" x 36"
Capacity 307 tons
Est. Length 32 Ft. Pier 2, 42 Ft. Pier 3
No. Req'd. 27 Each Pier (including Test Piles)

Tangent to Rowy. @ Sta. 44+49.0

Piers # 2 & 3
Or. Elev. 399.00

Pier 2 Elev. 387.79
Pier 3 Elev. 387.65

Pier 2 Elev. 388.42
Pier 3 Elev. 388.38

Symm. about 2 Pier

12" Chamfer

5 Spaces @ 6'5" = 32'1"

16'9"

16'9"

16'9"

16'9"

16'9"

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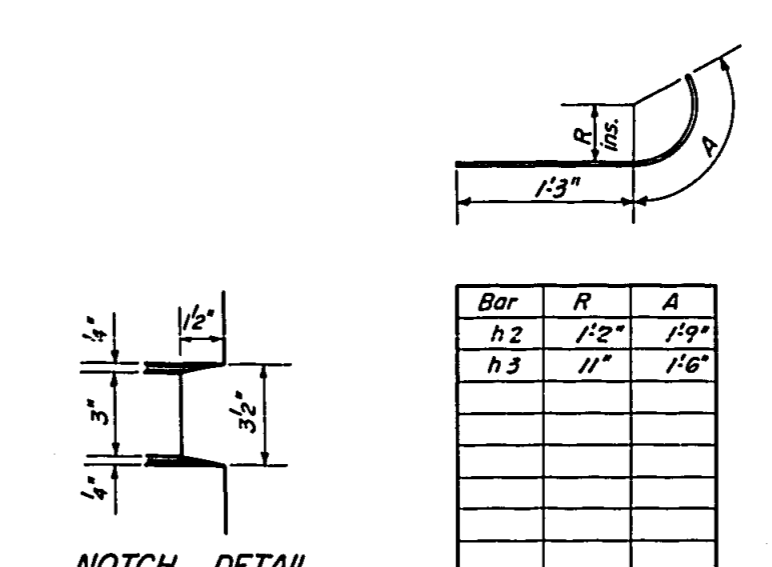
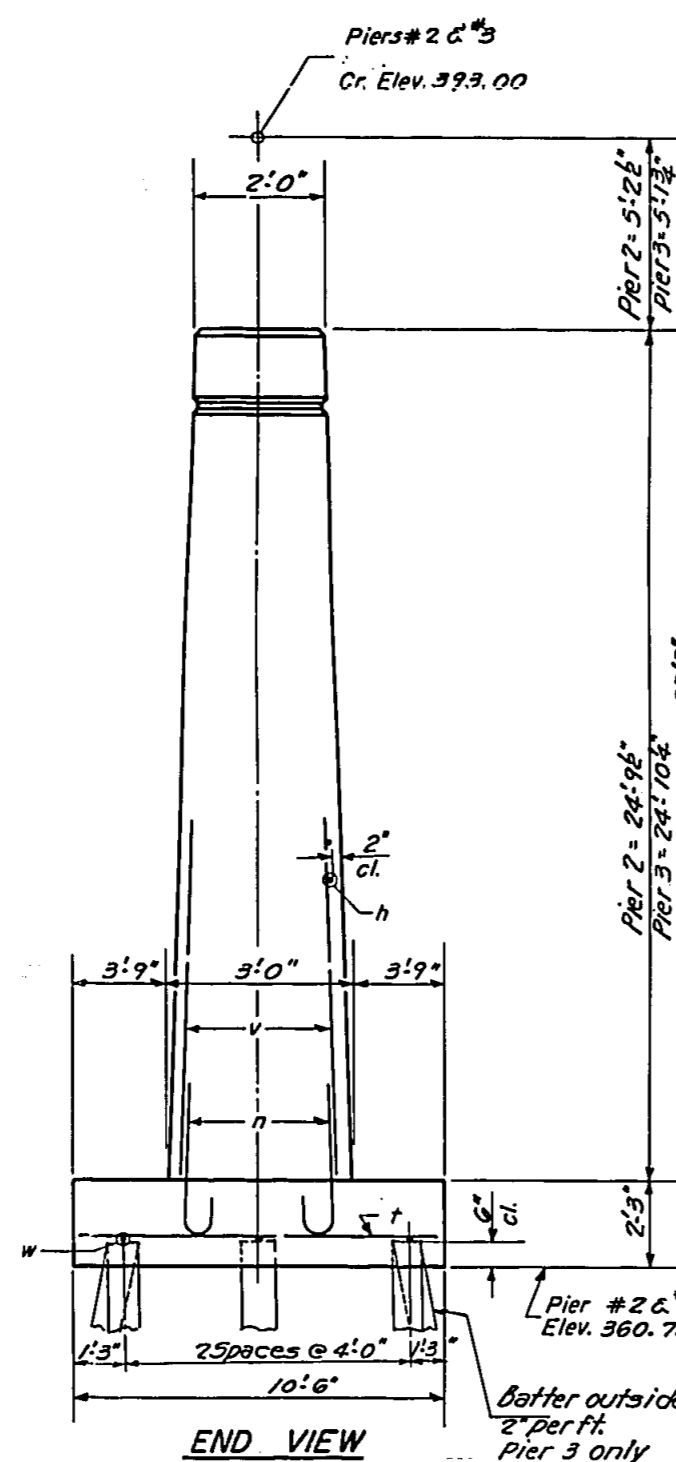
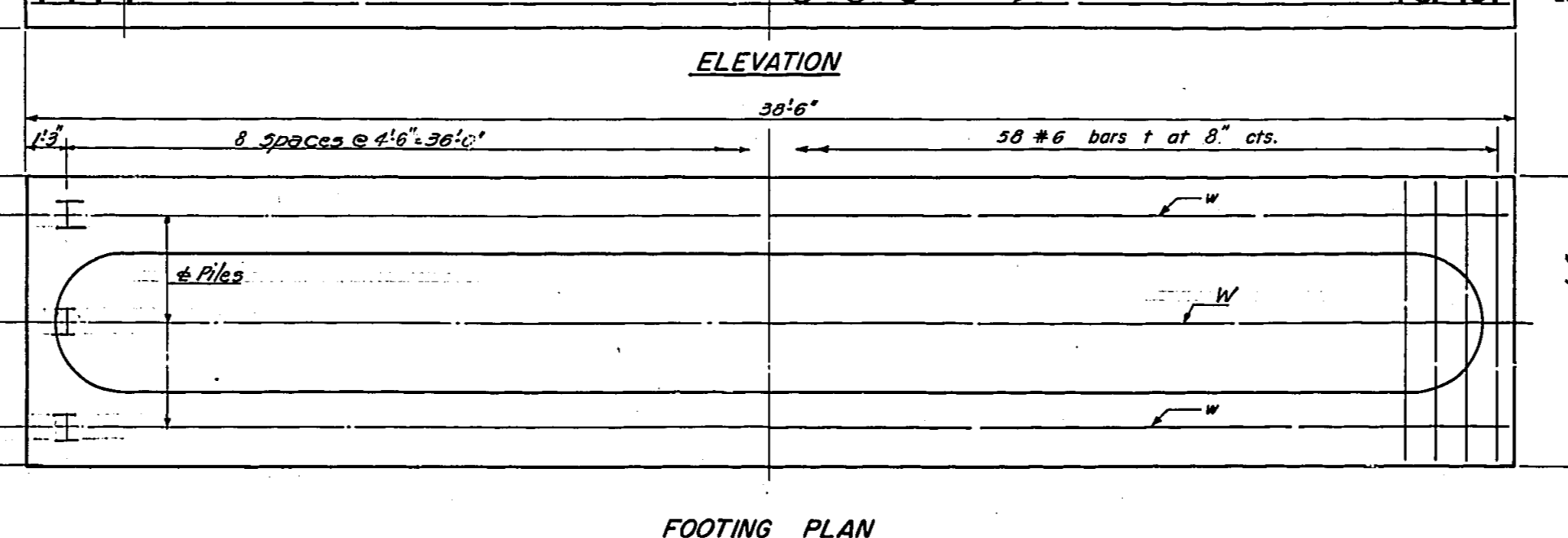
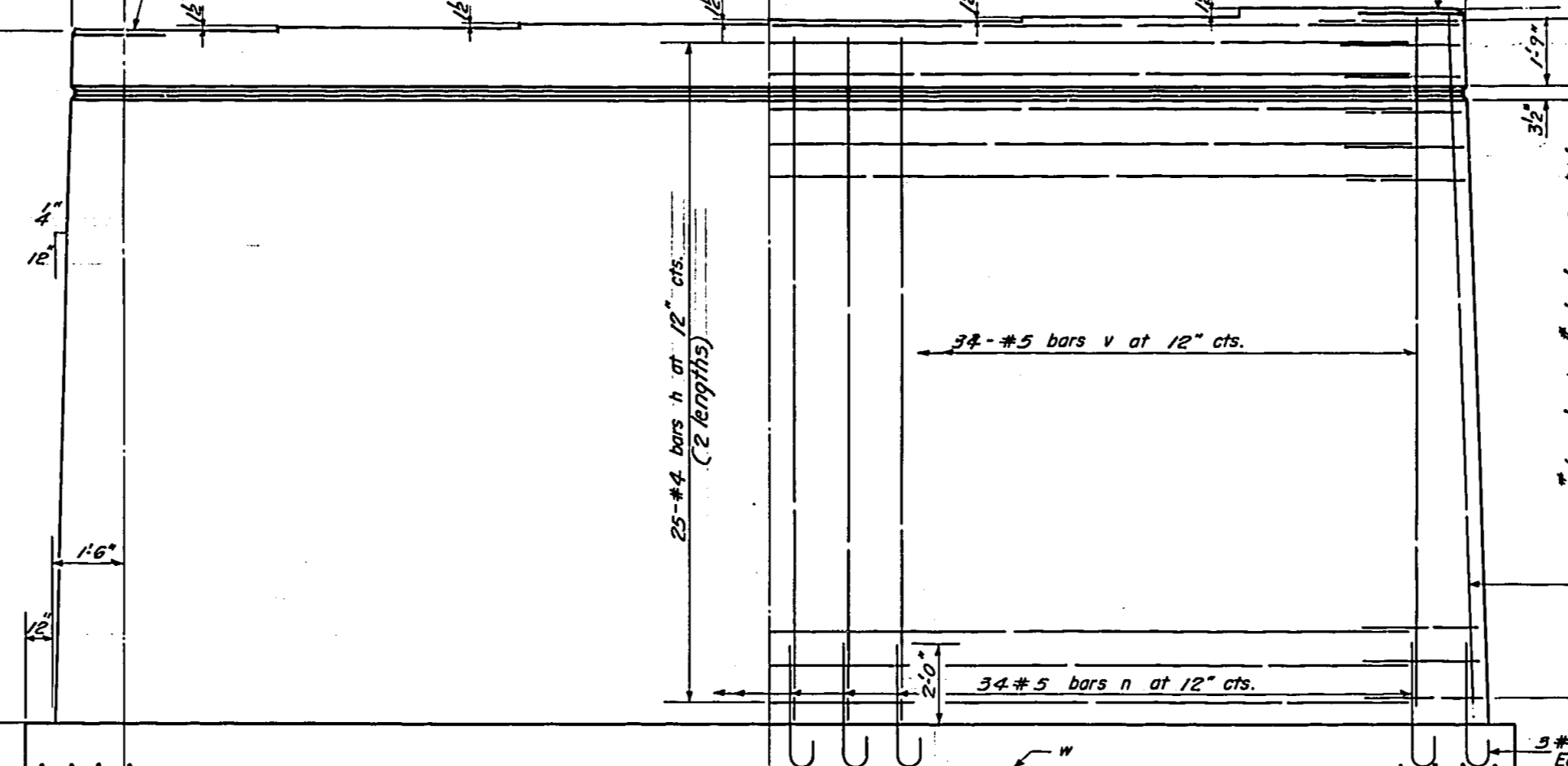
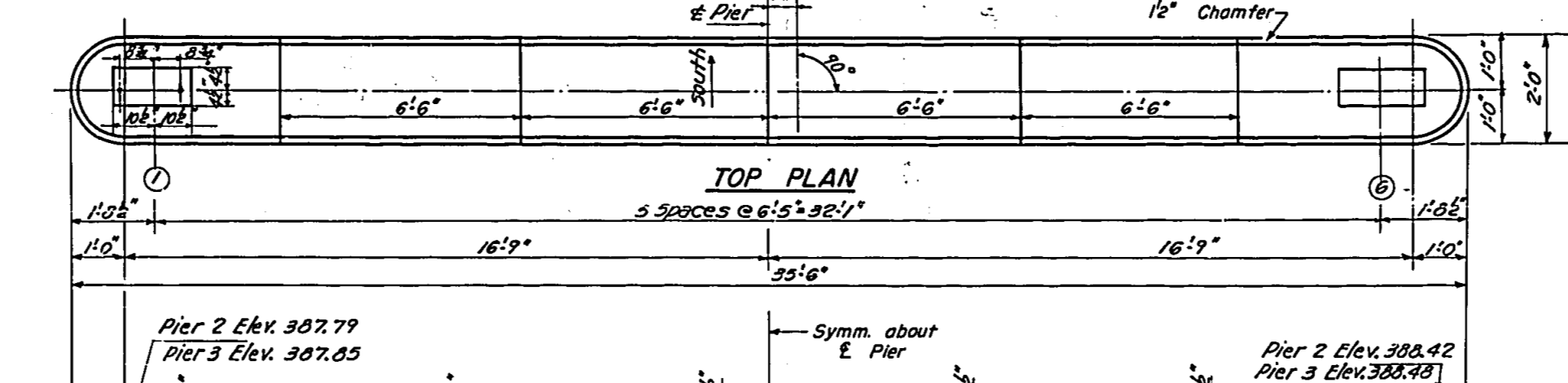
16'9"

16'9"

16'9"

16'9"

16'9"



4 Piers
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	400	#4	17'9"	—
h2	208	#4	31'0"	—
h3	192	#4	21'9"	—
n	276	#5	41'4"	C
r	232	#6	10'9"	—
v	276	#5	24'6"	—
w	24	#4	19'9"	—
Class-A Concrete		Cu. Yds.	465.0	
Reinforcement Bars		Lbs.	18770	
Steel Piles (8" x 36")		Lin. Ft.	3954	
Test Piles (Steel)		Each	1	

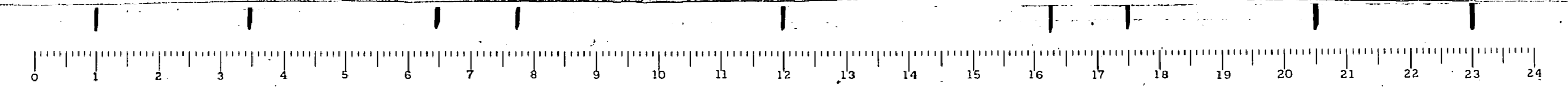
DESIGNED *E. Hunt*
CHECKED *Walter Perry*
DRAWN *W. A. Sausaman*
CHECKED *W.P.*

EXAMINED *M. B. ...*
PASSED *E. ...*
APPROVED *M. B. ...*

Aug 19 1961

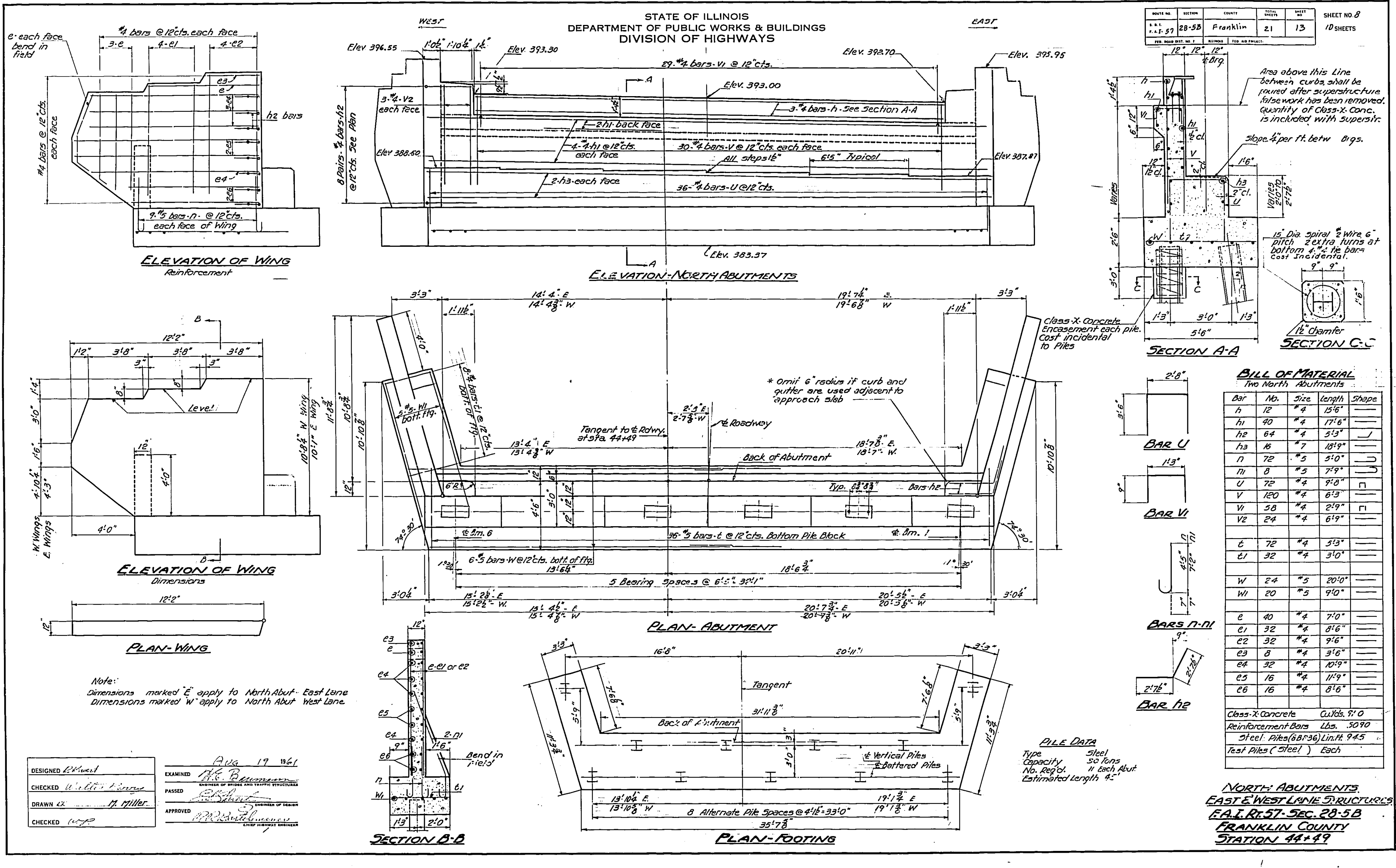
P-1 Re-drawn 7-21-59 Rev. 11-25-59

Piers 2 & 3
F.A.R. 57, Sec. 28-5B
FRANKLIN COUNTY
STATION 44+49



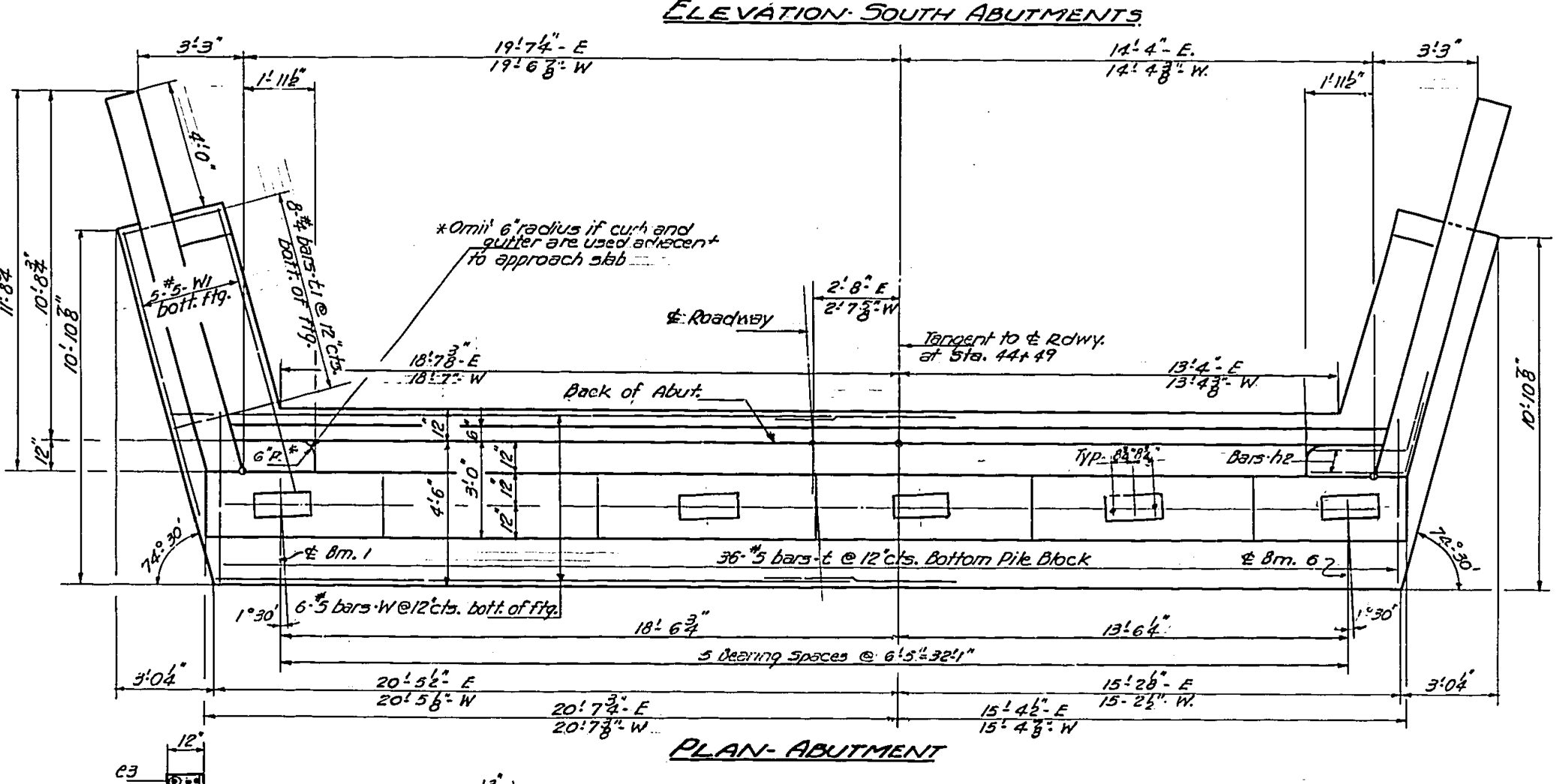
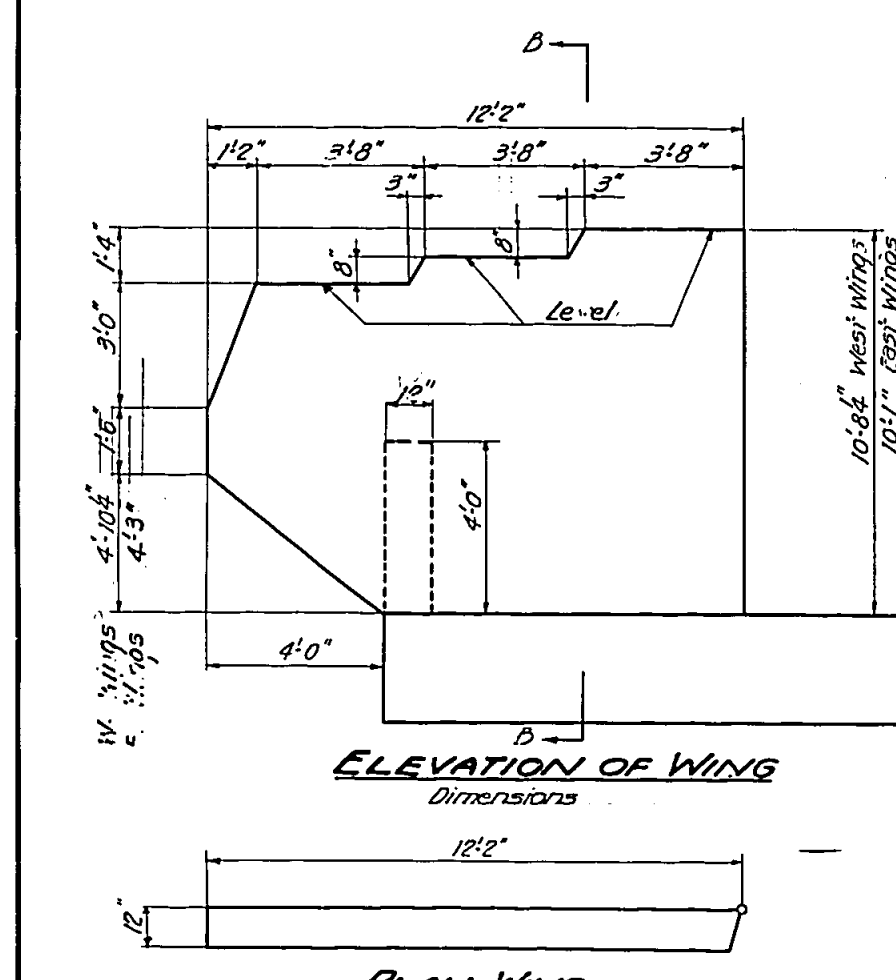
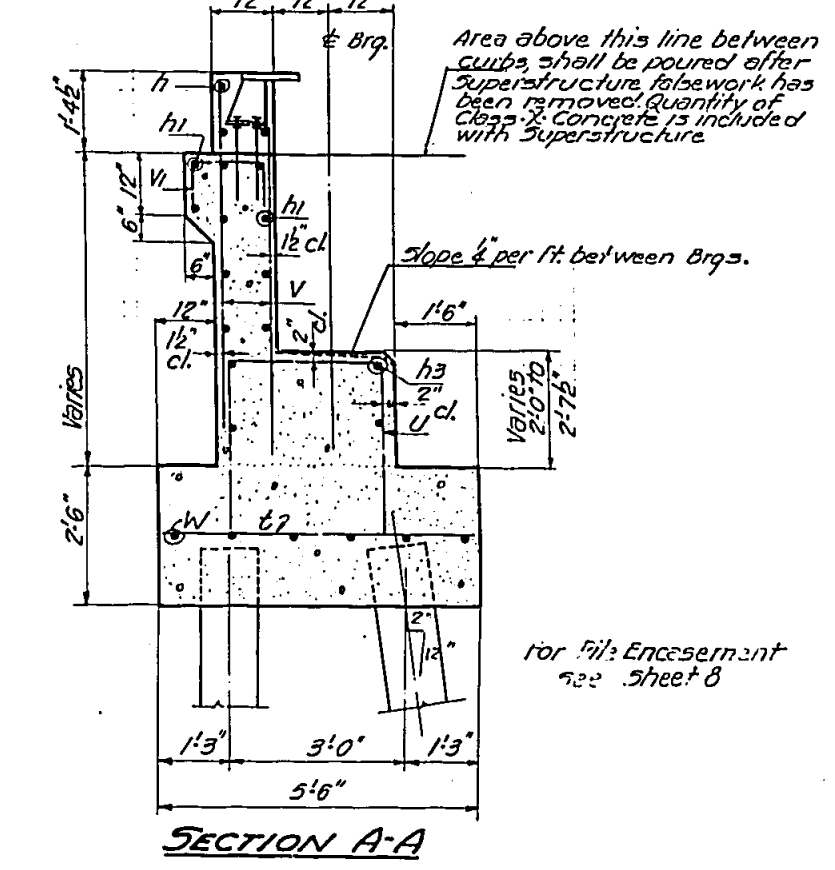
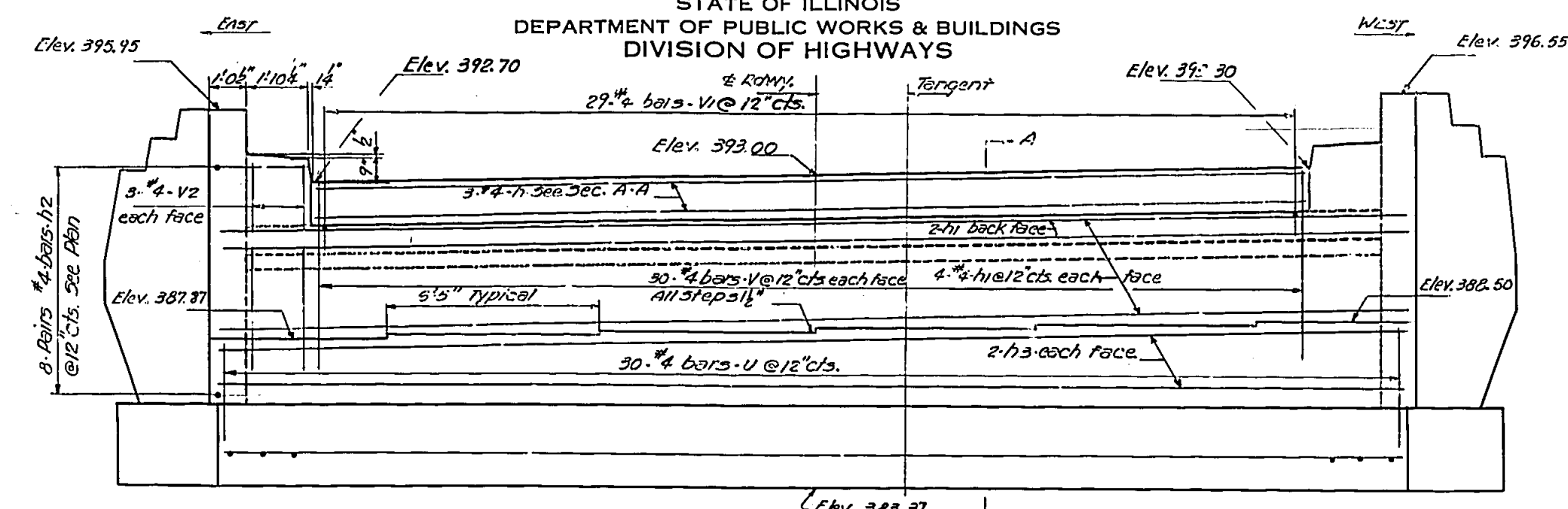
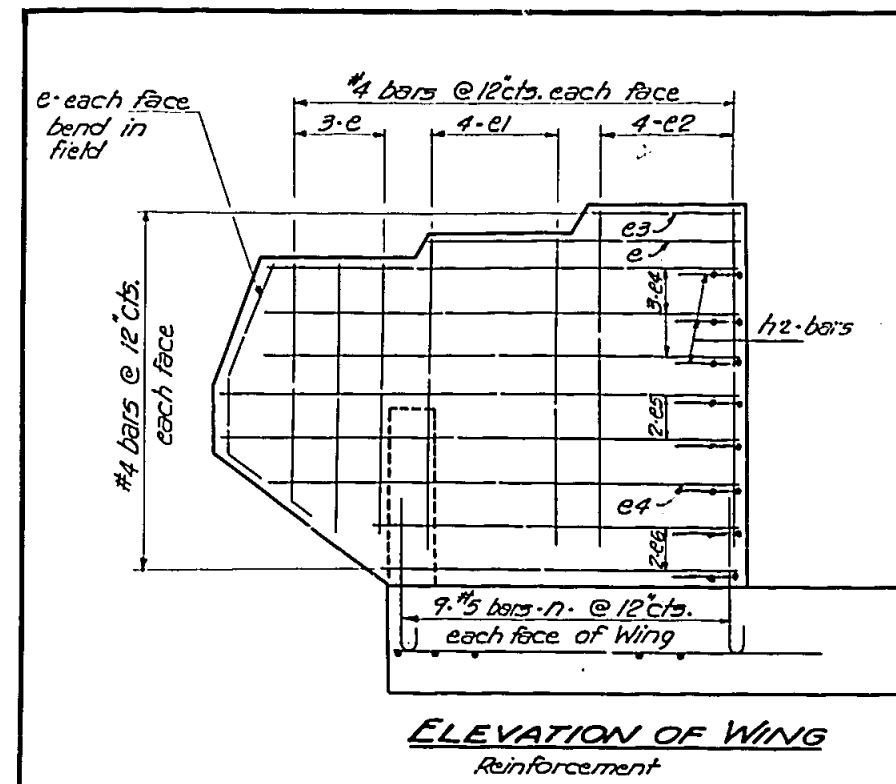
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	COUNTY	TOWNSHIP	RANGE	SHEET NO. OF SHEETS
11-5-59	28-5B	Franklin	21	13	10 SHEETS



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

PROJECT NO.	28-58	COUNTY	Franklin	SHEET NO.	9
DATE	8-1-31	ALIGNED	21	OF SHEETS	14



BILL OF MATERIAL
Two South Abutments

Bar	No.	Size	Length	Shape
h	12	#4	15'-6"	U
h1	40	#4	17'-6"	U
h2	64	#4	5'-3"	U
h3	16	#7	18'-9"	U
n	72	#5	3'-0"	U
n1	8	#5	7'-9"	U
u	72	#4	9'-8"	U
v	120	#4	6'-3"	U
v1	58	#4	2'-9"	U
v2	24	#4	6'-9"	U
l	72	#4	3'-3"	U
l1	32	#4	3'-0"	U
w	24	#5	20'-0"	U
w1	20	#5	9'-0"	U
e	40	#4	7'-0"	U
e1	32	#4	8'-6"	U
e2	32	#4	9'-6"	U
e3	8	#4	3'-6"	U
e4	32	#4	10'-9"	U
e5	16	#4	11'-9"	U
e6	16	#4	8'-6"	U

Class X Concrete Ckts. 91.0
Reinforcement Bars Lbs. 3070
Steel Piles (B.P.P.) Lbs. 1280
Leaf Piles (Steel) Each 1

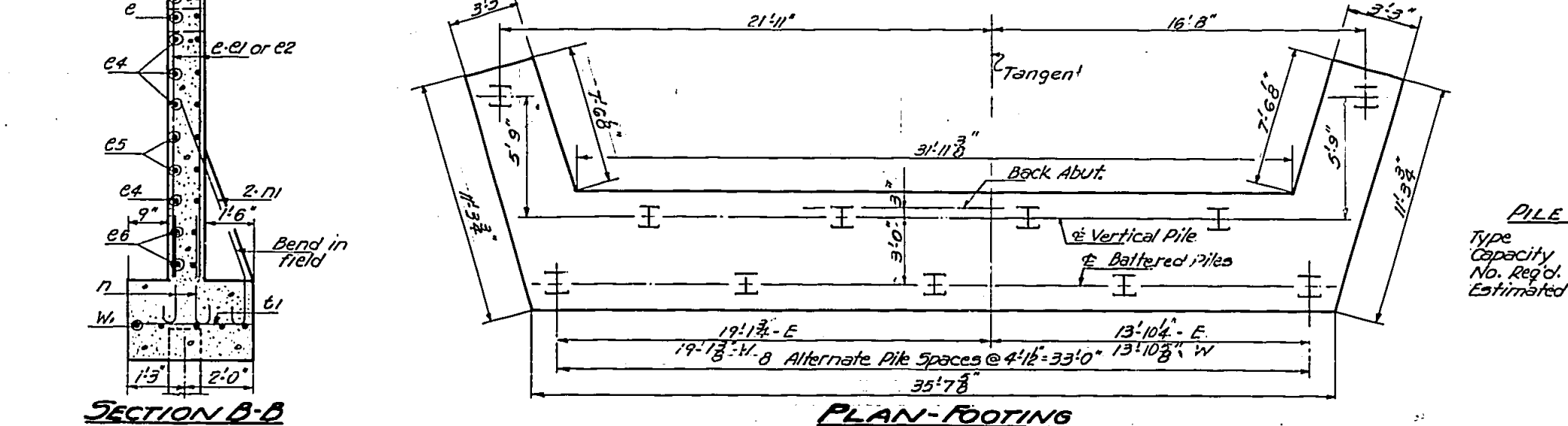
PLAN-WING

Note: Dimensions marked 'E' apply to So. Abut. East Lane
Dimensions marked 'W' apply to So. Abut. West Lane

DESIGNED: E. Kowal
CHECKED: Walter Perry
DRAWN: H. Miller
CHECKED: W. J. Miller

EXAMINED: H. K. Bannerman
PASSED: [Signature]
APPROVED: [Signature]

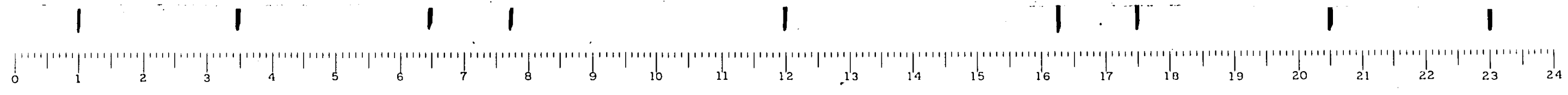
Aug 19 1931



PILE DATA

Type: Steel
Capacity: 30 tons
No. Req'd: 11 Each Abut
Estimated Length: 60 Ft.

SOUTH ABUTMENTS
EAST & WEST LANE STRUCTURES
E.A. 1057-SEC. 28-58
FRANKLIN COUNTY
STATION 44+49



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

28-5B Franklin 21 15
SHEET NO 10
10 SHEETS

Boring No. 1 Cont.				Boring No. 2				Boring No. 3				Boring No. 4				Boring No. 5				Boring No. 6 Cont.				
Elevation	N	Q	W (%)	Elevation	N	Q	W (%)	Elevation	N	Q	W (%)	Elevation	N	Q	W (%)	Elevation	N	Q	W (%)	Elevation	N	Q	W (%)	
374.6				375.2				374.4				374.0				374.0				374.0				
Ground Surface 374.6 0				Ground Surface 375.2 0				Ground Surface 374.4 0				Ground Surface 374.0 0				Ground Surface 374.0 0				Ground Surface 374.0 0				
Soft and very moist brown silty clay to silty clay-loam A-6(10)				Loose and wet grey medium graded fine sand				Stiff and moist tan silty clay loam A-6(10-11)				Medium and moist tan silty clay loam to silty clay A-6(10-11)				Soft and very moist tan silty loam A-6(8)				Loose and wet grey poorly graded fine sand				
370.6				372.6				370.7				370.0				368.2				371.1				
Medium to stiff and moist tan clay A-7-6(15)				Medium to hard and dry clay shale				Very stiff and moist tan silty clay A-7-6(15)				Hard and moist tan mottled tan silty clay to clay A-7-6(15)				Medium and moist tan silty clay A-7-6(15)				Medium and very moist grey mottled brown silty clay A-6(10-11)				
367.6				368.6				369.2				369.0				366.2				367.1				
Stiff and moist tan mottled brown clay A-7-6(13-14)				Medium to hard and dry black bituminous coal				Very stiff and moist tan mottled brown and black clay A-7-6(14)				Stiff and moist tan clay A-7-6(15)				Medium and very moist grey mottled brown silty clay A-6(10-11)				Medium and very moist grey mottled brown silty clay A-6(10-11)				
363.6				322.1				365.2				365.0				364.2				364.6				
Stiff and moist grey mottled brown silty clay to silty clay loam A-6(9-10)				During drilling operations it was observed that free water was encountered at 10.5 feet. The hole was washed to obtain the sample from 45.5 feet to 46.5 feet.				Very stiff and moist tan mottled brown and black clay A-7-6(13)				Stiff and moist tan mottled brown silty clay A-6(13-12)				Stiff and moist tan mottled brown silty clay A-6(13-12)				Medium and very moist grey mottled brown silty clay A-6(13-12)				
360.1				362.7				362.7				362.0				361.7				361.6				
Stiff and moist grey mottled brown silty clay to clay A-6(11-12)								Stiff and moist tan mottled brown and black clay A-7-6(13)				Very stiff and moist grey mottled brown silty clay A-7-6(13)				Stiff and moist tan mottled brown silty clay A-6(13-12)				Medium and very moist grey mottled brown silty clay A-6(13-12)				
357.6				352.1				362.7				362.0				359.5				358.2				
Medium to stiff and moist grey silty clay A-6(10)								Stiff and moist tan mottled brown and black clay A-7-6(13-14)				Stiff and moist tan mottled brown silty clay A-6(13-12)				Medium to stiff and moist tan silty clay A-6(13-12)				Soft to medium and moist bluish grey silty clay A-6(10-11)				
355.1				357.2				357.2				357.0				357.0				356.7				
Medium and moist grey silt loam A-6(10)				Stiff and moist red with grey & black streak silty clay A-6(11-12)				Stiff and moist red with grey & black streak silty clay A-6(11-12)				Stiff and moist tan mottled brown silty clay A-6(13-12)				Stiff and moist tan mottled brown silty clay A-6(13-12)				Stiff and moist bluish grey clay A-7-6(15)				
353.6				352.3				352.3				352.0				351.5				351.2				
(See next column)				Soft and wet brown sandy clay loam				Soft and wet brown sandy clay loam				Medium and moist grey silty loam to sand				Medium to stiff and moist tan silty clay (13-12)				Stiff and moist bluish grey clay A-7-6(15)				
350.1				352.2				352.2				352.0				351.2				351.2				
Very stiff and moist brown clay A-7-6(14-15)				Stiff and moist brown silty clay A-7-6(13-14)				Stiff and moist brown silty clay A-7-6(13-14)				Stiff and moist brown silty clay A-6(10)				Very stiff and moist brown clay A-7-6(10)				Soft and very moist bluish grey silty clay A-6(10)				
345.1				349.4				349.4				349.0				348.2				347.2				
Stiff and moist brown clay A-7-6(14-15)				Very stiff and moist brown silty clay A-7-6(13-14)				Very stiff and moist brown silty clay A-7-6(13-14)				Medium and wet brown medium graded fine sand				Loose and wet brown medium graded medium sand				Stiff and moist grey mottled brown clay A-7-6(20)				
342.6				348.2				348.2				347.4				347.0				346.6				
Medium to stiff and moist brown silty clay to clay A-6(10-11)				Stiff and moist brown clay to clay loam A-6(10)				Stiff and moist brown clay to clay loam A-6(10)				Medium and wet brown gravelly sand				Medium and very moist grey clay to clay loam A-6(10-11)				Stiff and moist bluish grey clay A-7-6(20)				
341.1				345.0				345.0				344.0				344.0				343.6				
Medium and moist grey clay loam A-6(8)				Medium to stiff and moist tan mottled grey clay to clay loam A-6(10)				Medium to stiff and moist tan mottled grey clay to clay loam A-6(10)				Hard and dry grey clay shale				Very stiff and moist grey clay to clay loam A-6(10-11)				Medium and wet grey sandy clay loam				
338.6				342.7				342.7				342.0				341.0				340.2				
Soft and moist grey sandy loam				Stiff and moist greenish grey clay to clay loam A-6(10)				Stiff and moist greenish grey clay to clay loam A-6(10)				Stiff and moist greenish grey clay to clay loam A-6(11-12)				Hard and moist grey clay shale				Medium and wet grey sandy clay loam				
336.1				340.2				340.2				339.7				339.0				338.7				
Loose and very moist grey medium graded fine sand				Stiff and moist greenish grey clay to clay loam A-6(11-12)				Stiff and moist greenish grey clay to clay loam A-6(11-12)				Hard and dry grey clay shale				Hard and dry grey clay shale				Medium and wet grey sandy clay loam				
333.6				338.7				338.7				338.0				337.0				337.1				
				Hard and dry grey clay shale				Hard and dry grey clay shale				Hard and dry grey clay shale				Hard and dry grey clay shale				Medium and wet grey sandy clay loam				
331.6				336.7				336.7				336.0				335.2				334.7				
Bottom of Hole 43.6 feet				During drilling operations, it appeared that free water was encountered at 15.0 feet.				During drilling operations, it appeared that free water was encountered at 15.5 feet. Hole was washed to obtain samples between 25.0 feet and 31.5 feet.				Bottom of Hole 39.7 feet				During drilling operations, it appeared that free water was encountered at 25.0 feet. Hole was washed to obtain sample from 28.0 feet to 30.0 feet.				Medium and wet well graded medium sand				
-45				-45				-45				-45				-45				-45				

DESIGNED *R. Kautz*
CHECKED
DRAWN
CHECKED

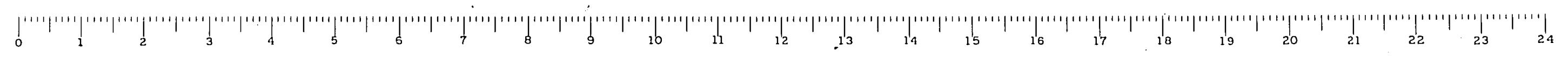
EXAMINED *H. B. Baumann*
PASSED
APPROVED *M. J. ...*

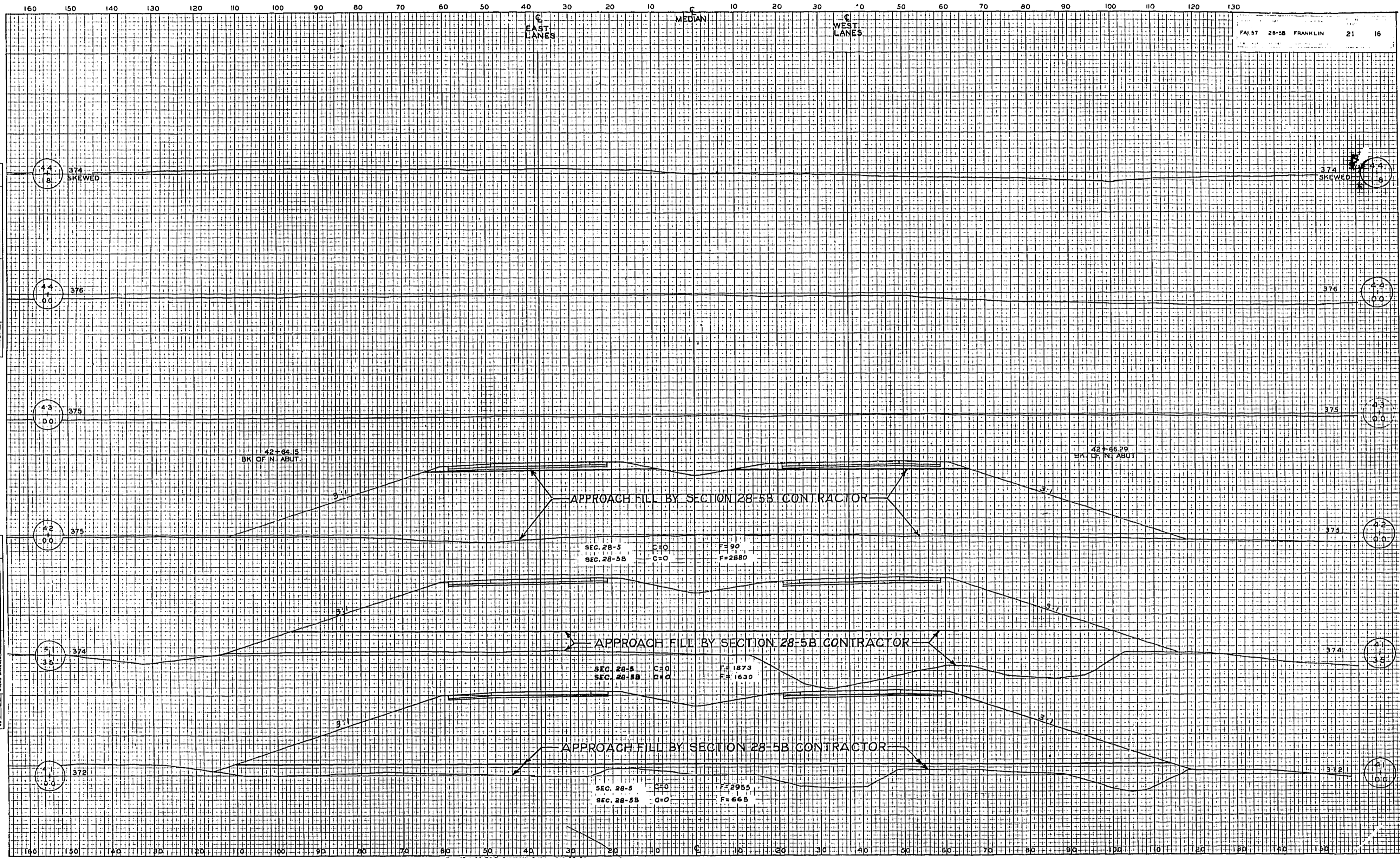
AUG 14 1961

N - Standard Penetration Test - Blows per foot to drive 2" O.D. Split Spoon Sampler with 1 1/2" diameter.
Qu - Unconfined Compressive Strength - lbs/sq in.
w - Water Content - percentage of oven dry weight %.

Type Failure:
B - Single Failure
S - Shear Failure
E - Estimating Value
P - Piezometer Hole

BORINGS
FAI RT 57 SEC 28-5B
FRANKLIN CO.
STATION 44+49



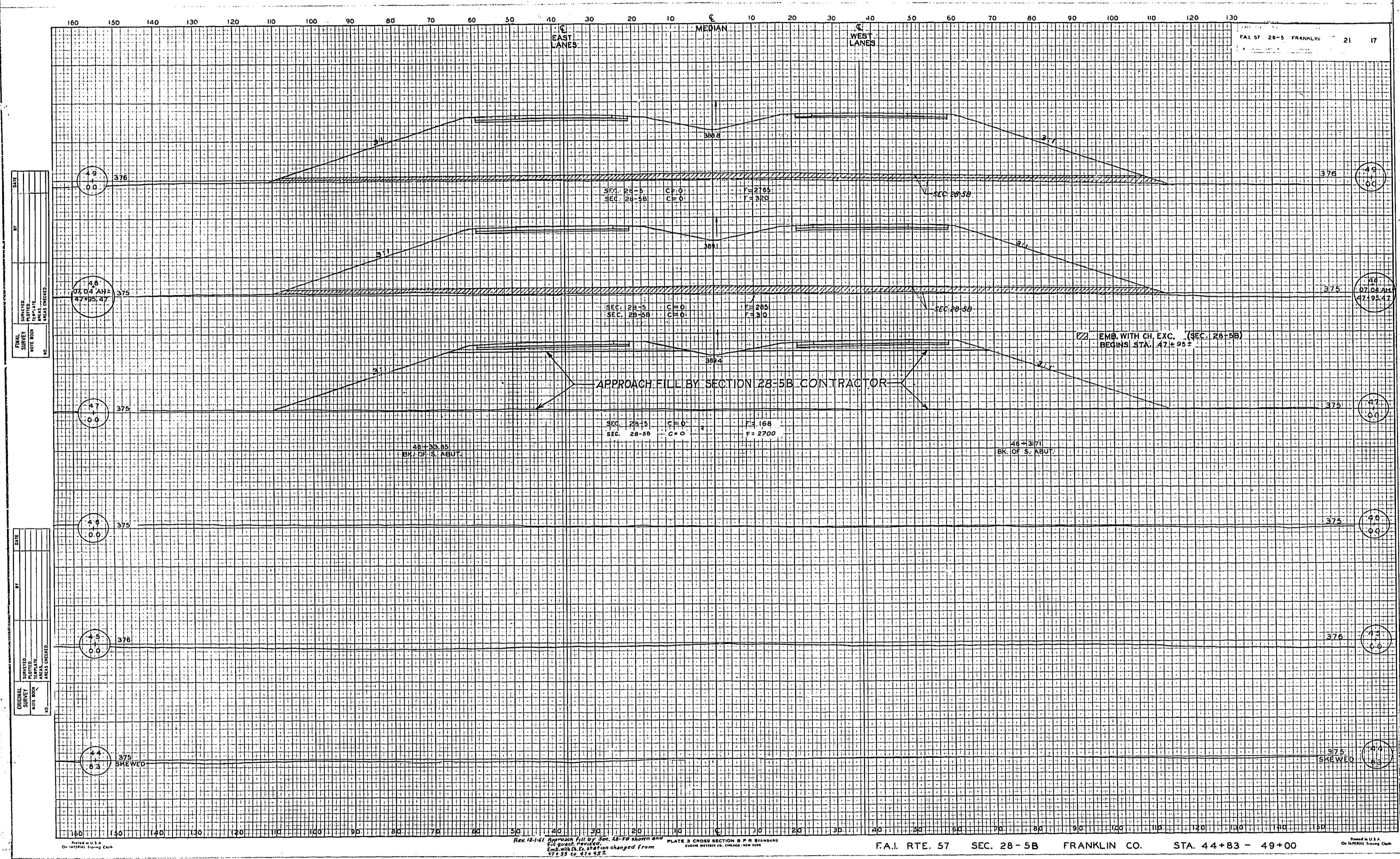


DATE	
BY	
REVISION	
NO.	
DESCRIPTION	

DATE	
BY	
REVISION	
NO.	
DESCRIPTION	



FAJ. RTE. 57 SEC. 28-5B FRANKLIN CO. STA. 41+00 - 44+18

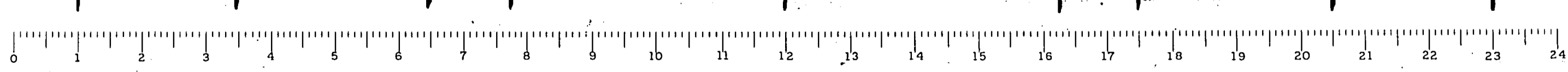


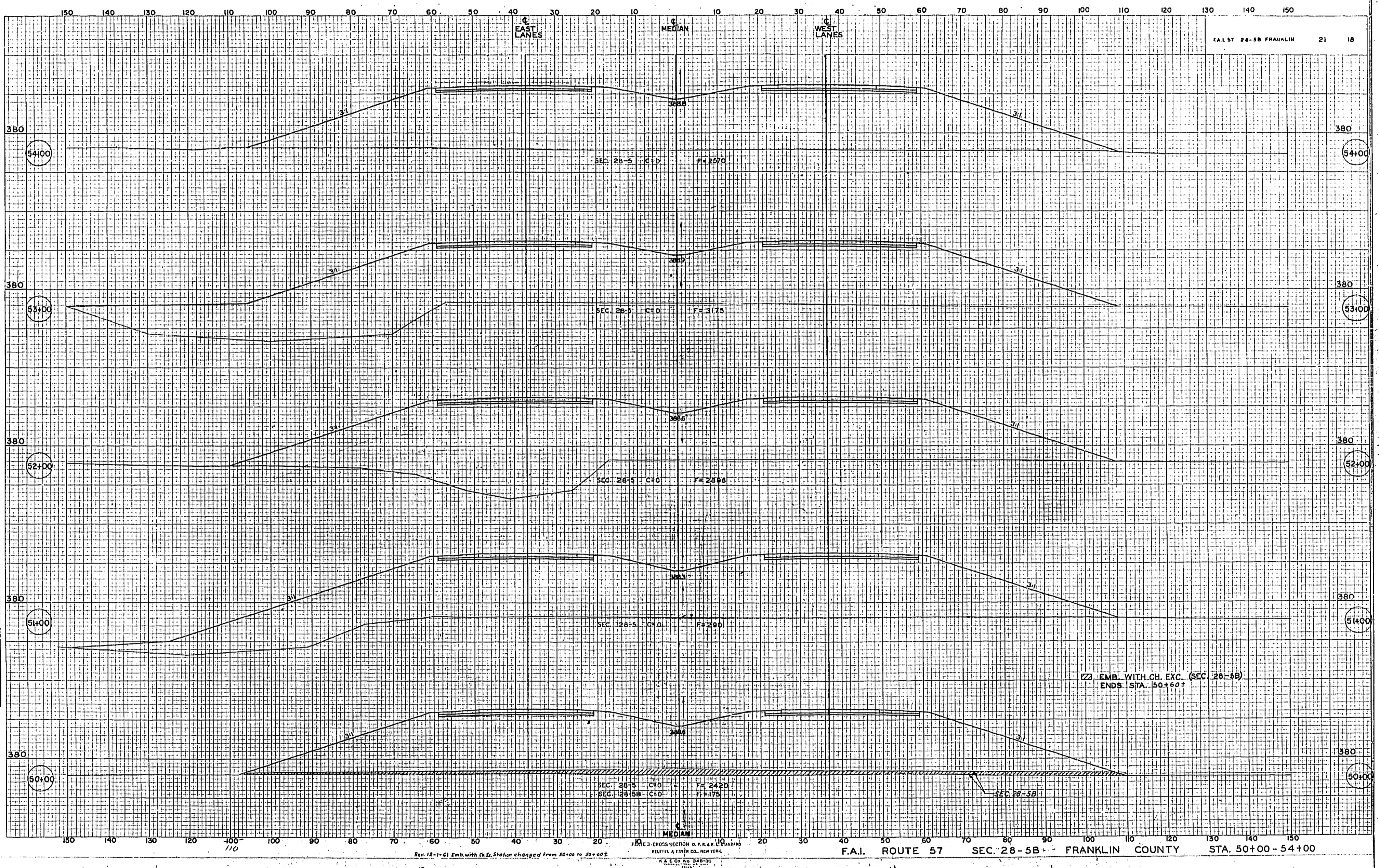
DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
APPROVED	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
APPROVED	

PLATE 3 CROSS SECTION B P R BROADWAY
 REVISIONS TO 1945: changed from
 57-59 to 57-58

F.A.I. RTE. 57 SEC. 28-5B FRANKLIN CO. STA. 44+83 - 49+00



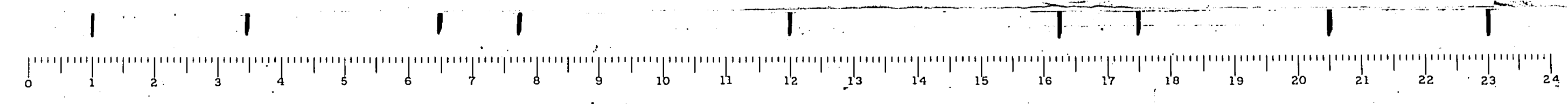
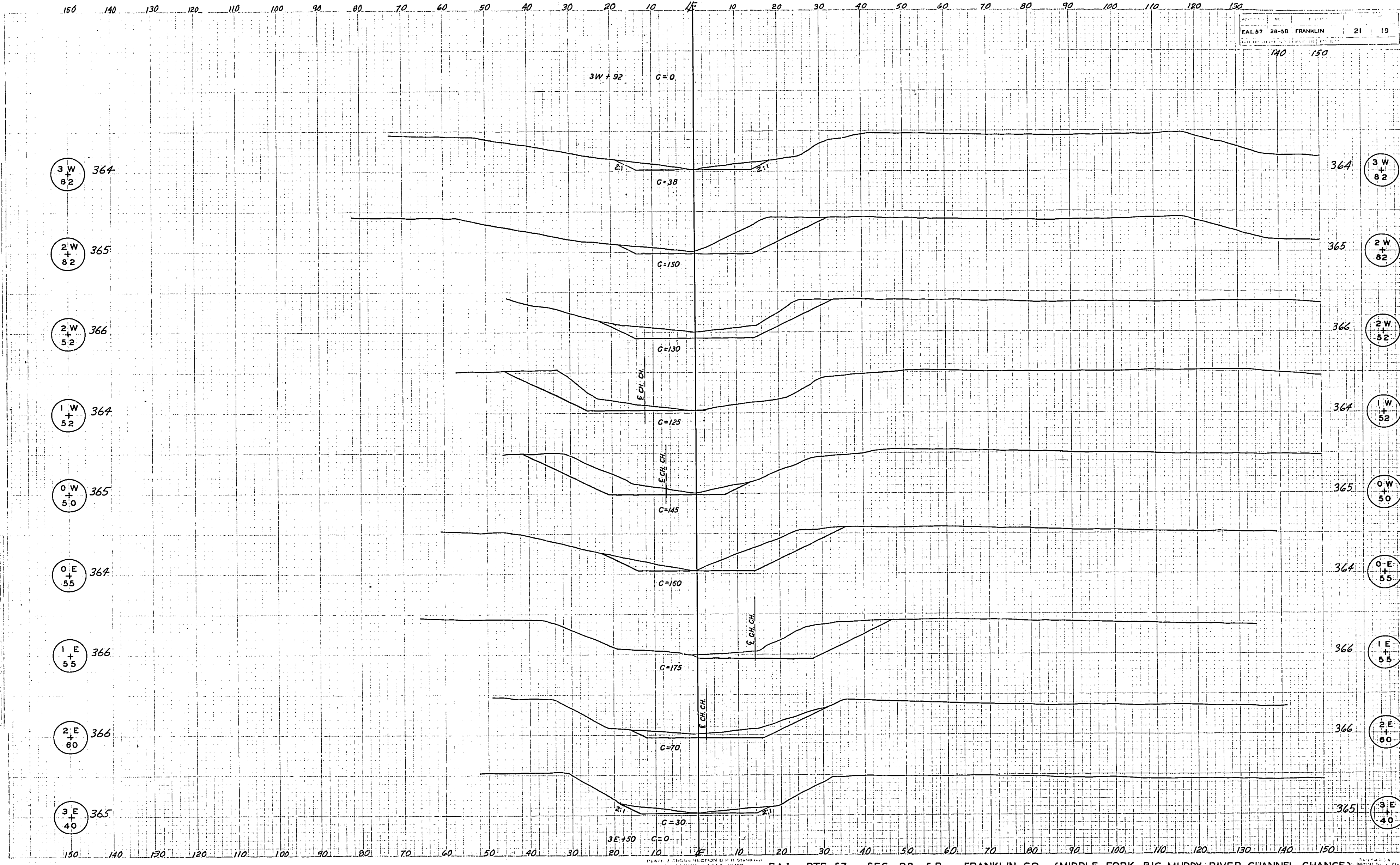


ORIGINAL DATE OF
 SURVEY
 DATE OF
 REVISION
 NO.

ORIGINAL DATE OF
 SURVEY
 DATE OF
 REVISION
 NO.



Rev. 12-1-61 Emb with Ch. Exc. Station changed from 50+00 to 50+60
 F.A.I. ROUTE 57 SEC. 28-5B FRANKLIN COUNTY STA. 50+00-54+00



F.A.I. RTE. 57 SEC. 28-5B FRANKLIN CO. (MIDDLE FORK BIG MUDDY RIVER CHANNEL CHANGE)