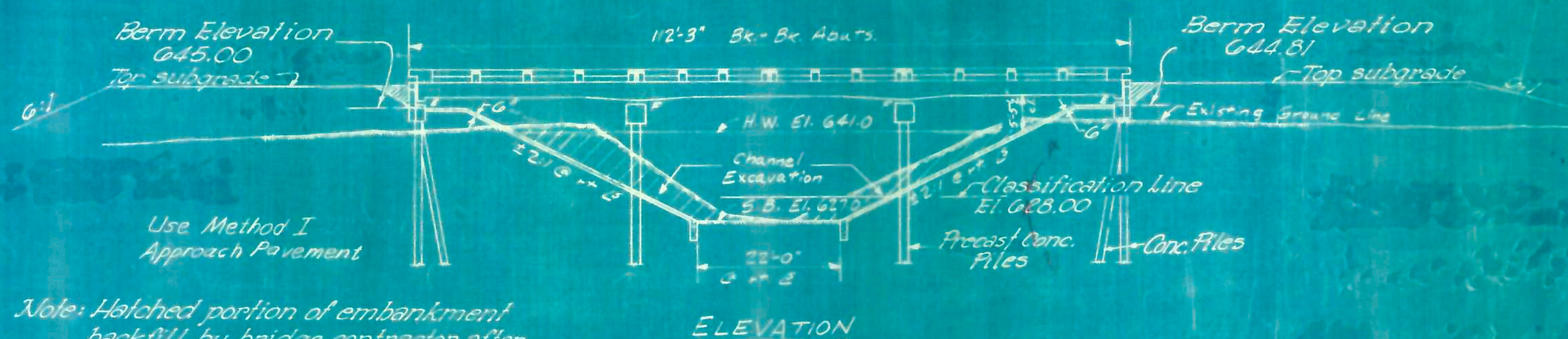


B.M. #17 Pipe driven into tree
137 ft. Sta. 455 + 02
Elevation 643.68
No existing structure

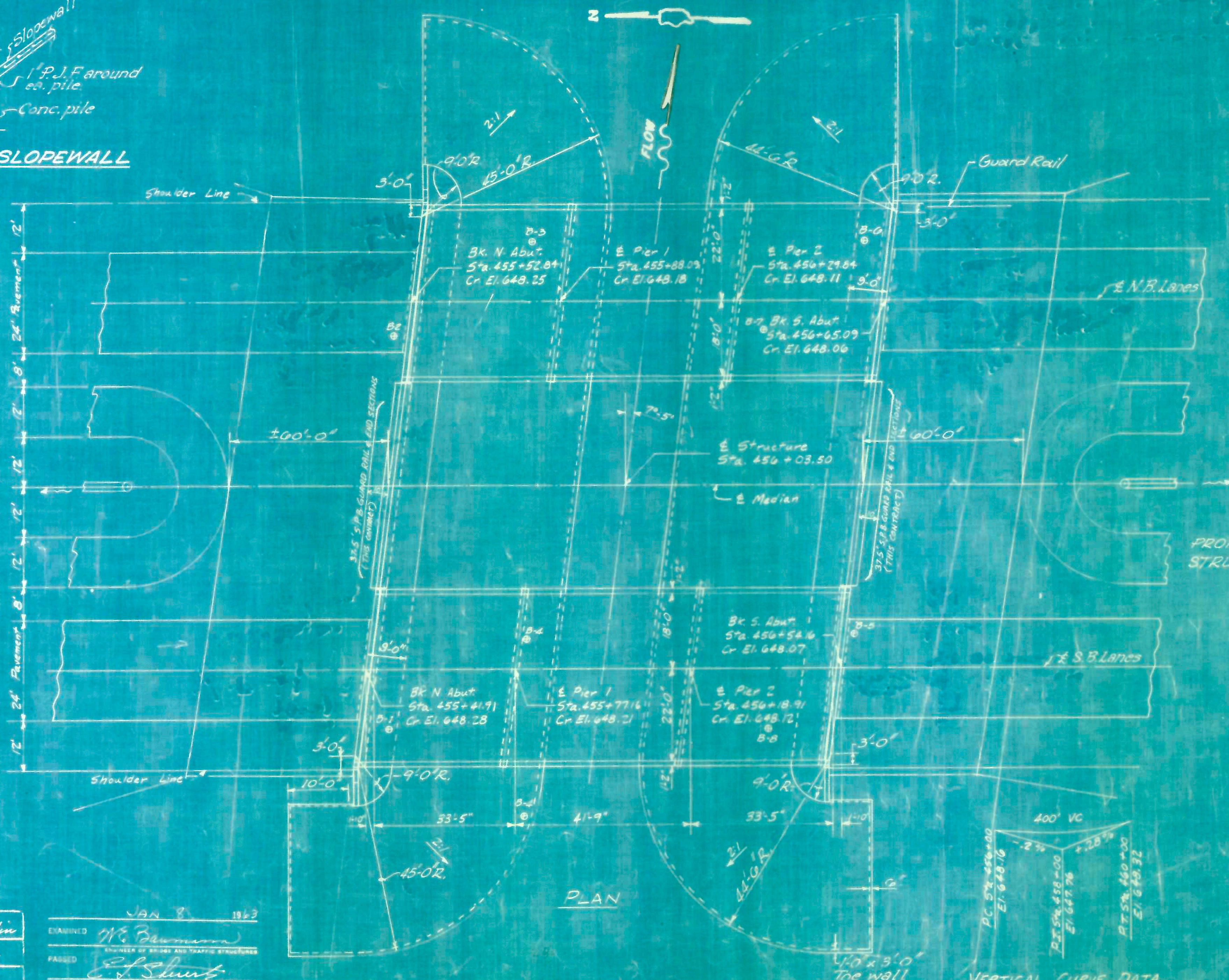
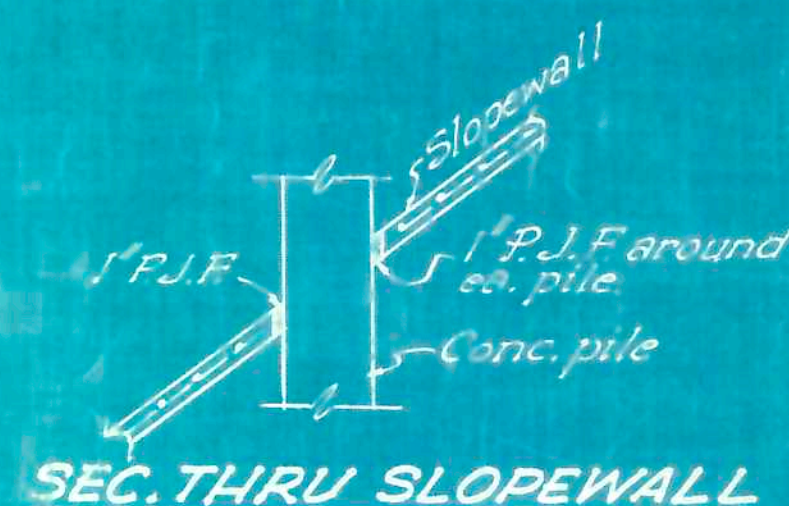
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SHEET NO.	TOTAL SHEETS	SHEET NO.
157	2	31	7

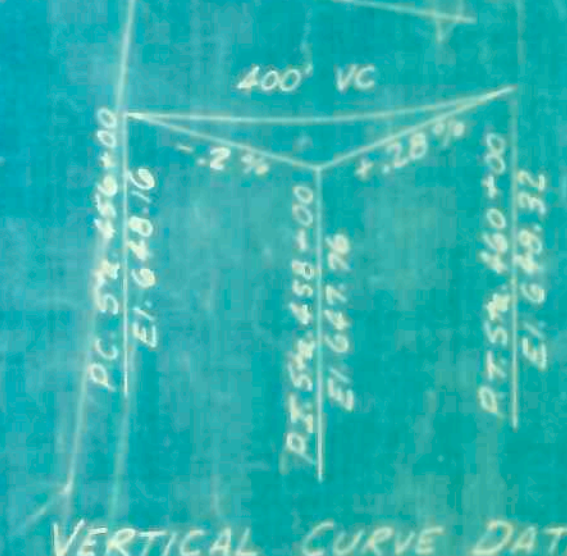
PROJECT: I-57-6(3) 278
#30-4, 48, 48-1, 48-2, 48-3



Note: Helmed portion of embankment backfill by bridge contractor after abutments are in place.



LOCATION PLAN



VERTICAL CURVE DATA

GENERAL NOTES

Class X Concrete shall be used throughout except in handrail and posts.
Handrail concrete shall be used in handrails and posts.
The concrete floor slab shall be finished in accordance with Article 51.19 of the Standard Specifications.
Layout of sloped walls may be varied to suit ground conditions in the field, as directed by the Engineer.
The handrail concrete in the rail posts and railing shall be poured in separate operations.
All rollers, bolsters, brg. plates, lead plates, pintles & anch. bolts shall be fabricated and set in accordance with Article 51.15 of the Standard Specifications and are included in quantity of structural steel.
Expansion guards shall be fabricated and erected in accordance with Article 51.13 (d) of the Standard Specifications.
Expansion guards are included in quantity of Structural Steel. Est. wt. = 4,440.
Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Articles 56.1 to 56.5 inclusive of the Standard Specifications.
All outside faces of vertical legs of angles in expansion guards shall be given two shop coats of red lead paint.
The Contractor shall drive one precast concrete test pile in each bridge in a permanent location, at pier #1 (S.B.) and pier #2 (N.B.) before casting remainder of piles.
Sloped wall shall be reinforced with welded wire fabric 4.6 mesh, #4 wires, weighing 58 lbs. per 100 sq. ft.
Excavation for portions of structures in the embankments shall not be classified.

TOTAL BILL OF MATERIAL (2 BRIDGES)

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu Yds.			2,220
Structural Steel	Lbs.	19,420		19,420
Handrail Concrete	Cu Yds.	10.6		10.6
Class X Concrete	Cu Yds.	466.4	170.8	637.2
Reinforcement Bars	Lbs.	144,860	11,650	156,510
Precast Conc. Piles	Lin. Ft.			910
Test Piles (Precast Conc.)	Each			2
Name Plates	Each	2		2
Slope Wall (6')	Sq. Yds.			2,764
Class A Excavation Struct.	Cu Yds.		170	170
Class B Excavation Struct.	Cu Yds.			1,310
Protective Coat	Sq. Yds.	1,060		1,060
Concrete Piles	Lin. Ft.			840
Bridge Seat Sealant	Lumps		1	1

* At Abutments only.
STATION 456 + 08.50
BUILT 196 BY
STATE OF ILLINOIS
F.A.I.R.T. 57 SEC. 38-4B-2
F.A. PROJ. I-57-6(3)
LOADING H520 & ALT.

NAME PLATE

(Std. 2113)
ONE EACH AT S.E. CORNER (N.B. LANE)
AND AT N.W. CORNER (S.B. LANE)

WATERWAY INFORMATION

Drainage Area.....20,000 Acres
Character.....Cultivated
Reg'd. Opening (50 yr. Flood).....662 Sq. Ft.
Proposed Opening.....607 Sq. Ft.
Ordinary Water.....Elev. 639.00
Low Water.....Elev. 629.00

PROJECT I-57-6(3) 278

GENERAL PLAN & ELEV.

F.A.I.R.T. 57 SEC. 38-4B-2
OVER PRAIRIE CREEK
IROQUOIS COUNTY
STATION 456 + 08.50

DESIGN STRESSES

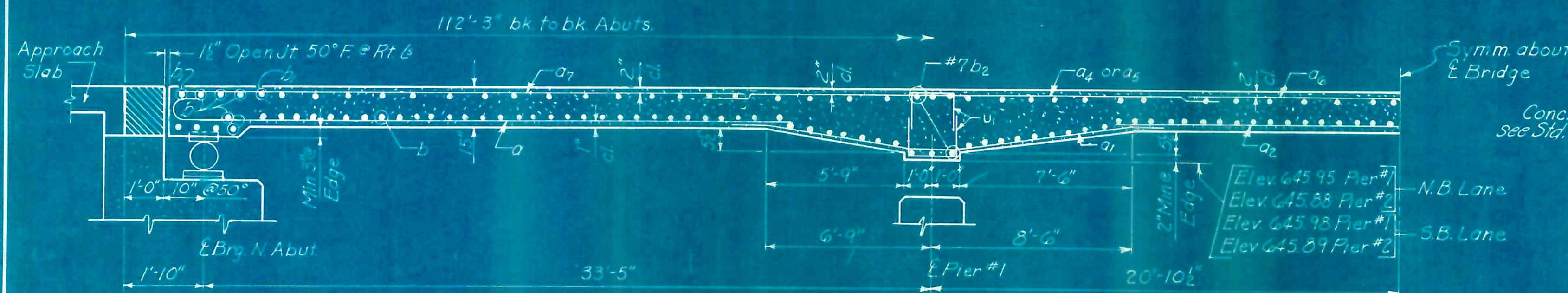
$f_c = 1400$ psi. Super & Sub.
 $f_s = 20,000$ psi. Reinf.
 $v = 75$ psi. Frg.
 $n = 10$
 $f_s = 29,000$ psi. Structural Steel (A-36)

LOADING H520 & ALT.

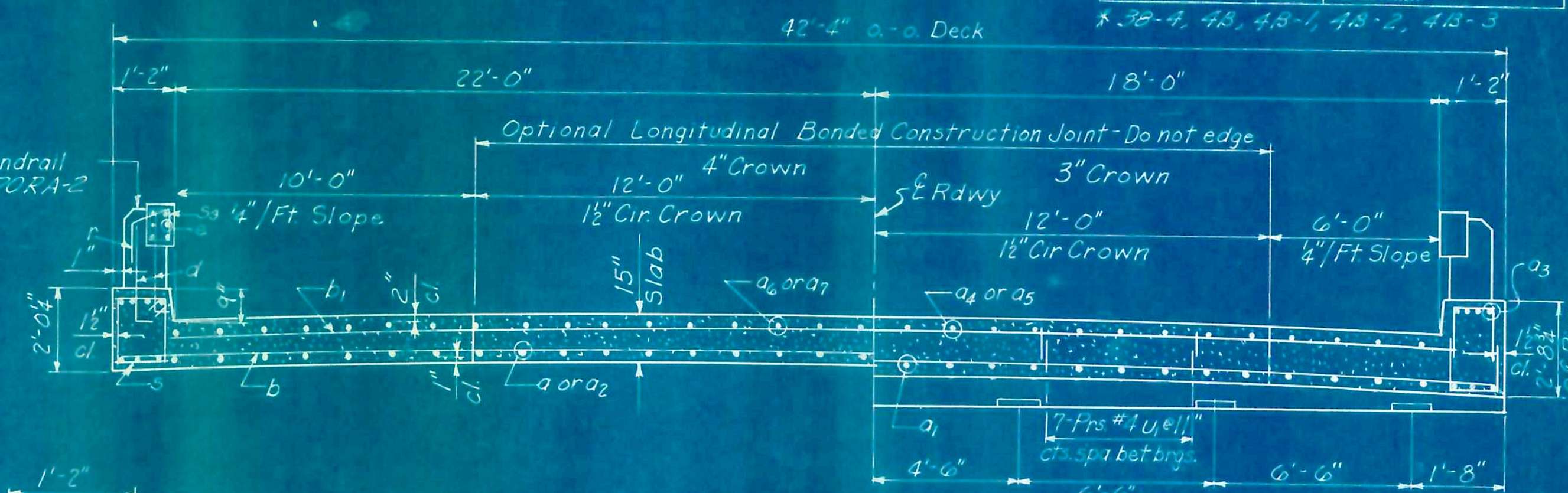
DESIGNED: Nabil R. Zakrodin
CHECKED: J.M. Tjauw
DRAWN: J.C.M.
CHECKED: J.M.T.

EXAMINED: J.R. B...
FASSED: E.L. Sch...
APPROVED: O.S. ...

1-57-67 Revised quantity of Handrail Concrete from 10.8 to 10.6 Cu Yds.



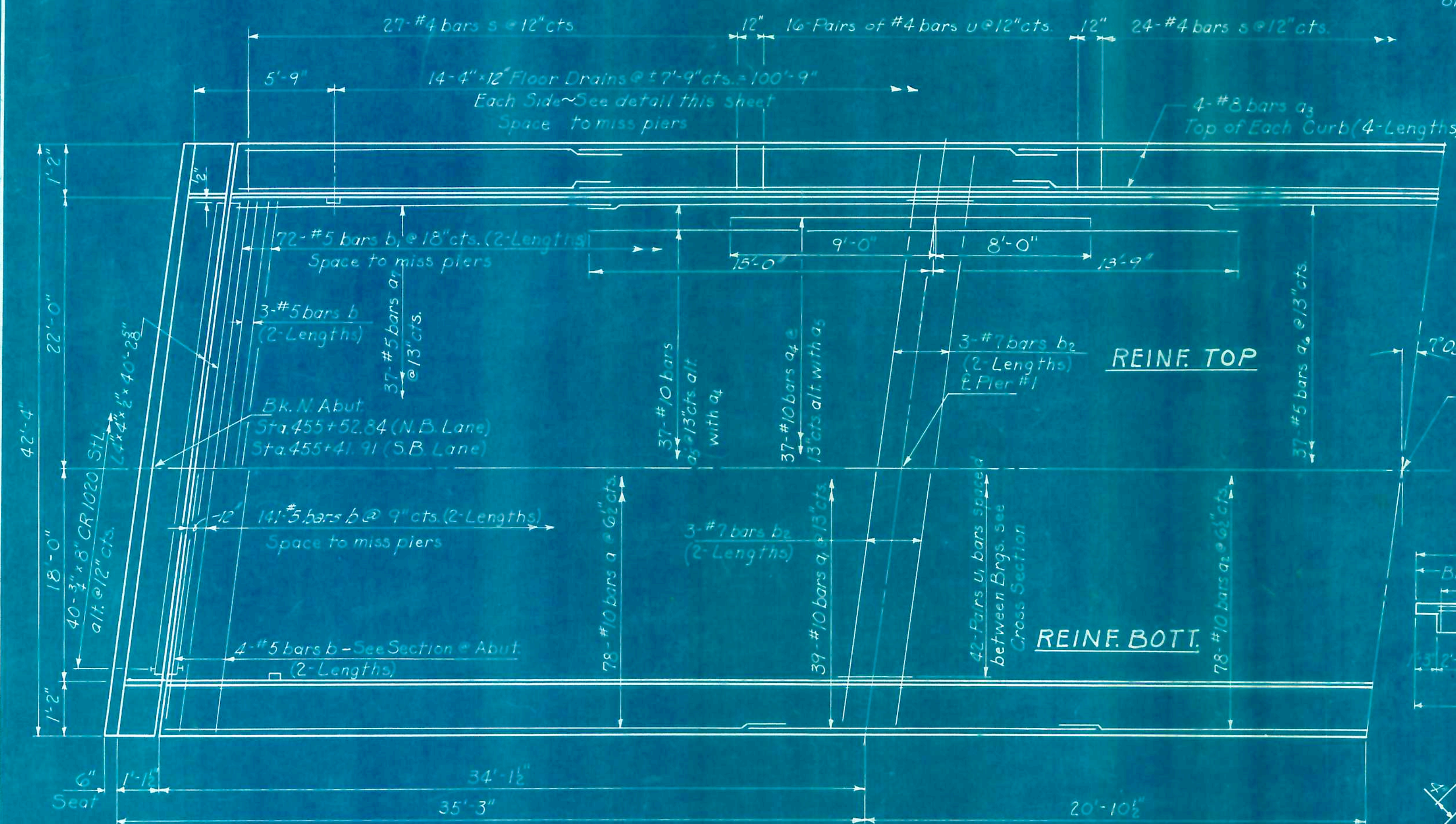
HALF LONGITUDINAL SECTION



NEAR CENTER OF SPAN

NEAR PIER

CROSS SECTION



REINF. TOP

REINF. BOT.

CURB DETAIL

Dimensions

REINFORCEMENT

SECTION @ ABUTMENT

Dimensions

SECTION @ PIER

Dimensions

SECTION @ PIER

Dimensions

SECTION @ PIER

Dimensions

SECTION @ PIER

Dimensions

SECTION @ PIER

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SECTION @ PIER

Dimensions

SECTION @ PIER

Dimensions

4"x12" DRAIN DETAIL

ONE BRIDGE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	156	#10	29'-9"	C
a ₁	78	#10	17'-9"	C
a ₂	78	#10	27'-0"	C
a ₃	32	#8	29'-0"	C
a ₄	74	#10	17'-0"	C
a ₅	74	#10	28'-9"	C
a ₆	37	#5	16'-9"	C
a ₇	74	#5	19'-9"	C
b	310	#5	21'-6"	C
b ₁	144	#5	20'-6"	C
b ₂	24	#7	22'-0"	C
d	148	#8	3'-0"	C
e	48	#8	18'-6"	C
e ₁	24	#8	20'-6"	C
r	76	#4	3'-0"	C
r ₁	12	#4	4'-0"	C
s	156	#4	6'-0"	C
s ₁	496	#3	3'-5"	C
u	128	#4	3'-10"	C
u ₁	168	#4	4'-3"	C
Structural Steel		Lbs.	9710	
Handrail Concrete		Cu. Yds.	5.3	
Class X Concrete		Cu. Yds.	243.2	
Reinforcement Bars		Lbs.	11,437	
Name Plates		Each	1	

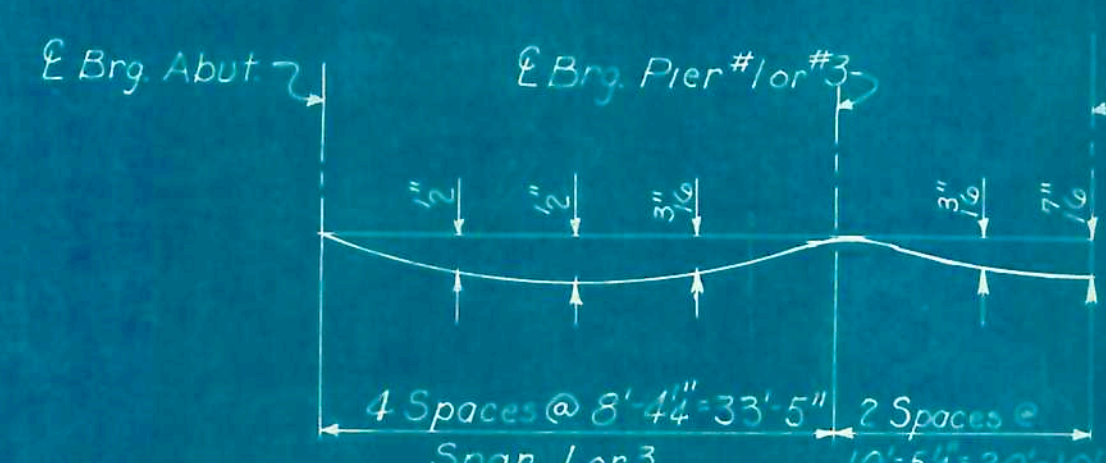
* Weight of rollers, bolsters, bearing plates, anchor bolts and load plates included as structural steel. Est. Wt. 7490 lbs.

SUPERSTRUCTURE

F.A.I. RT. 57 SEC. 38-43-2
IROQUOIS COUNTY
STATION 456 + 03.50

DESIGNED Nabe R. Zakroddin
CHECKED J. M. J. J. J.
DRAWN W. E. Dickerson
CHECKED J. M. J.

EXAMINED H. E. Baumann
PASSED E. P. Shurtz
APPROVED J. E. Duff



DEAD LOAD
DEFLECTION DIAGRAM

BAR S₃

BAR d

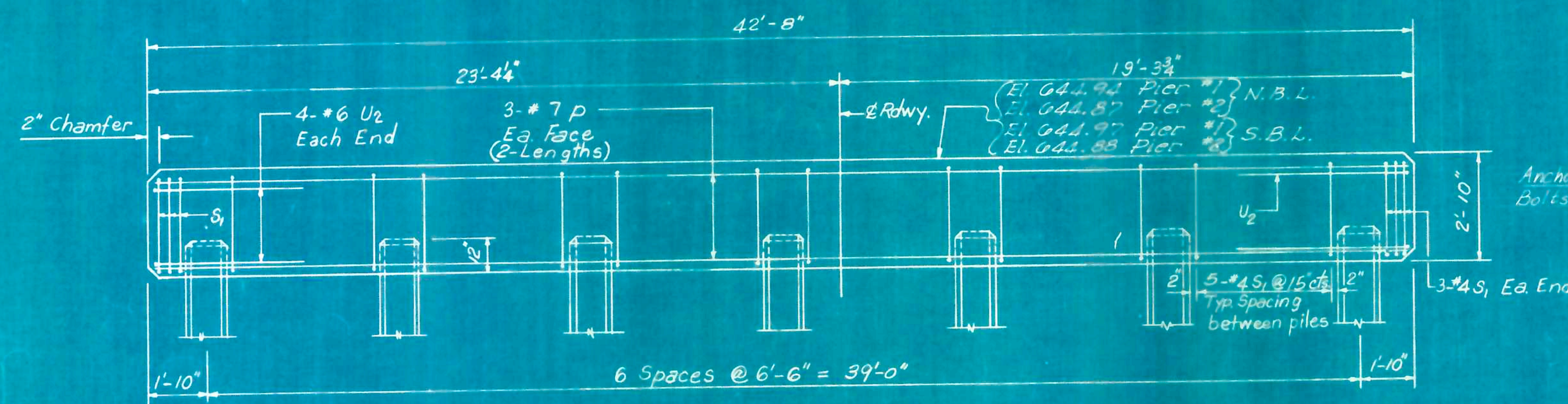
BAR r

BAR s

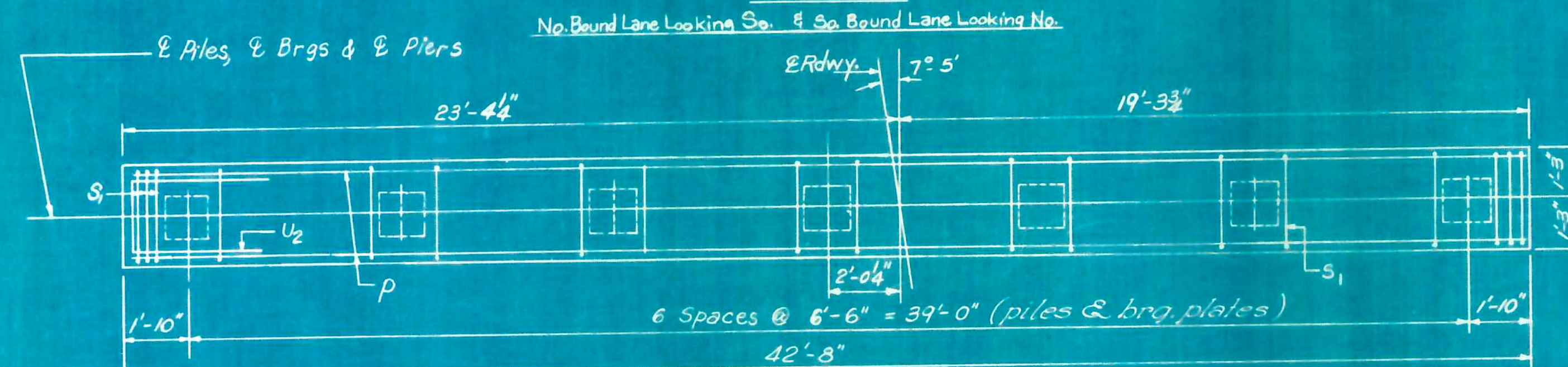
BAR S₁ & S₂

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

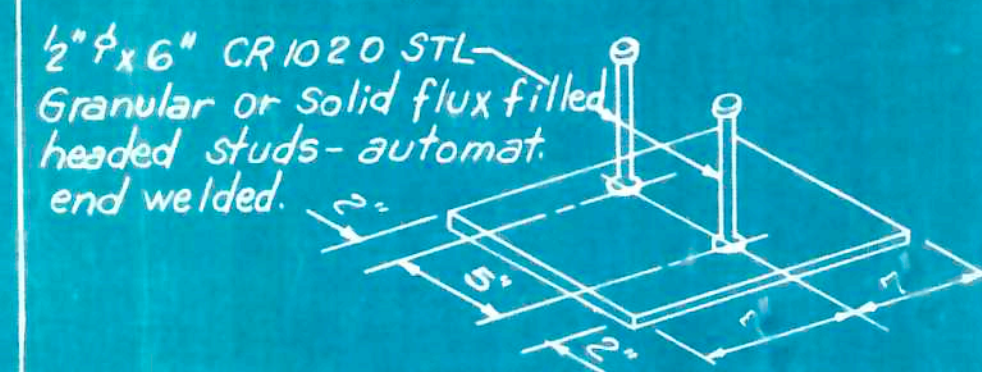
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
55	1	IROQUOIS	82	33
SHEET NO. 3				
7 SHEETS				
* 38-4, 4B, 4B-1, 4B-2, 4B-3				



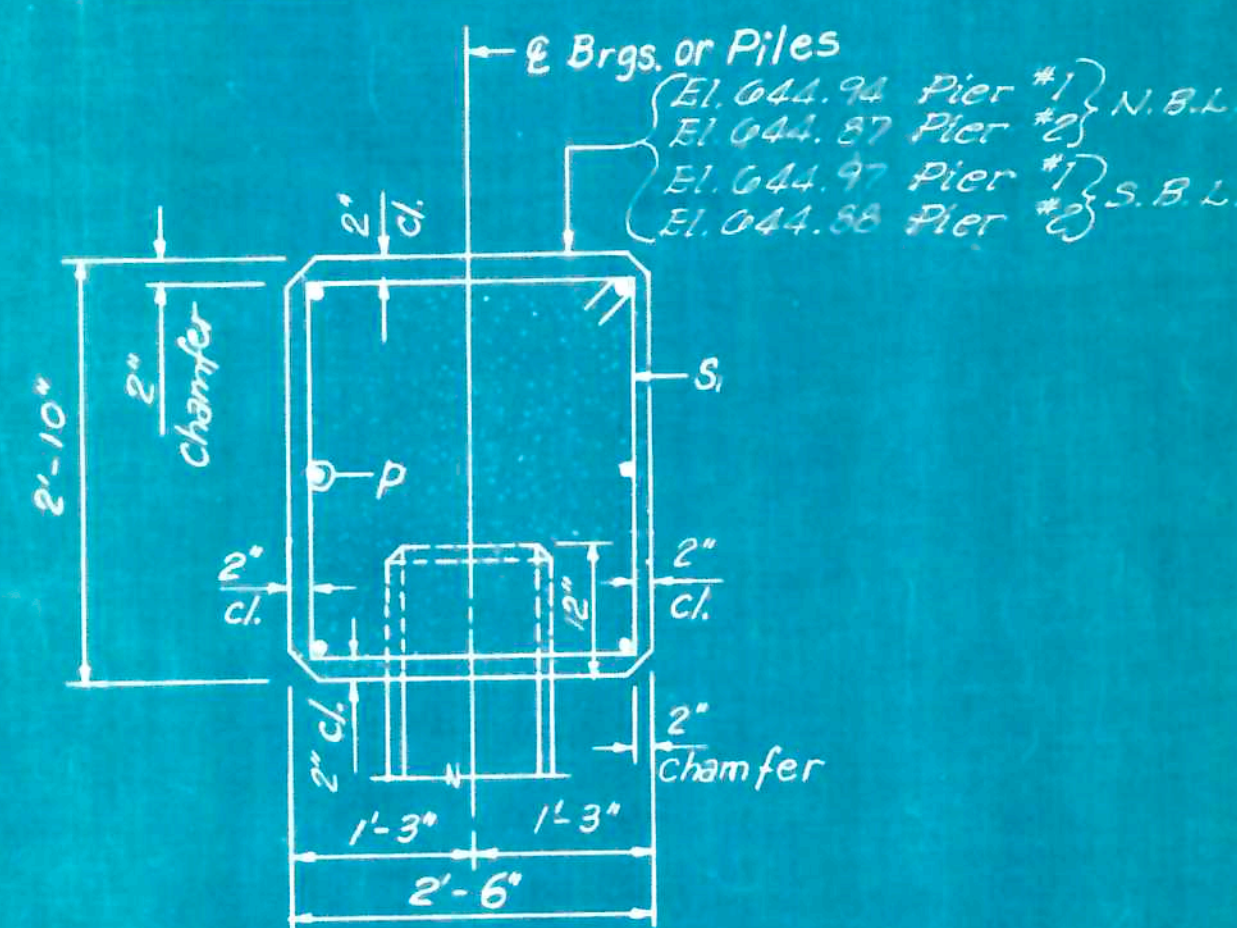
ELEVATION



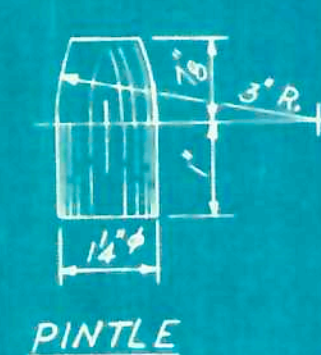
PLAN PIERS 1 OR 2



TOP BEARING PLATE DETAIL



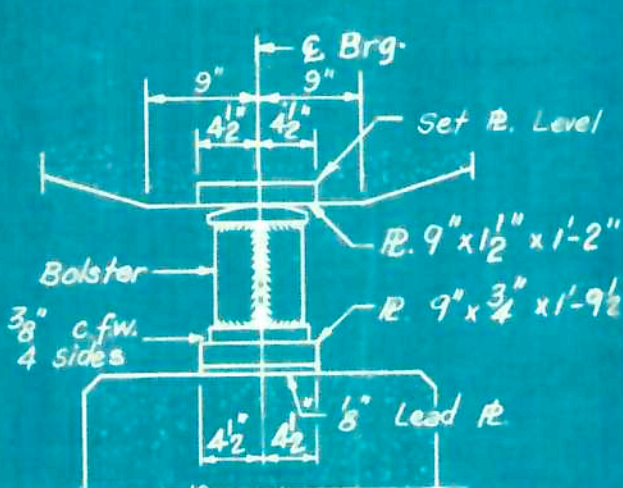
SECTION @ PIER



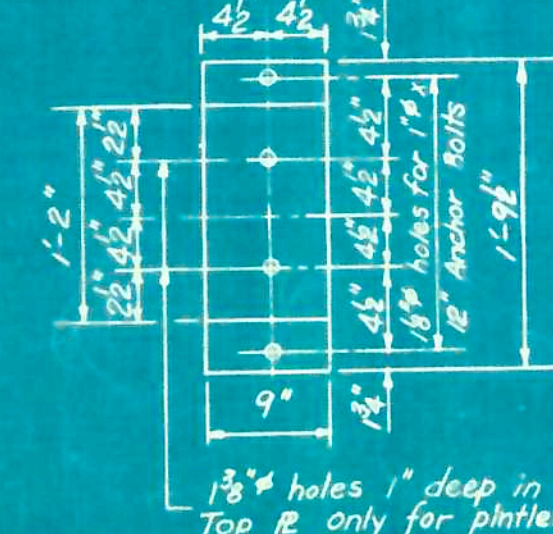
PINTO



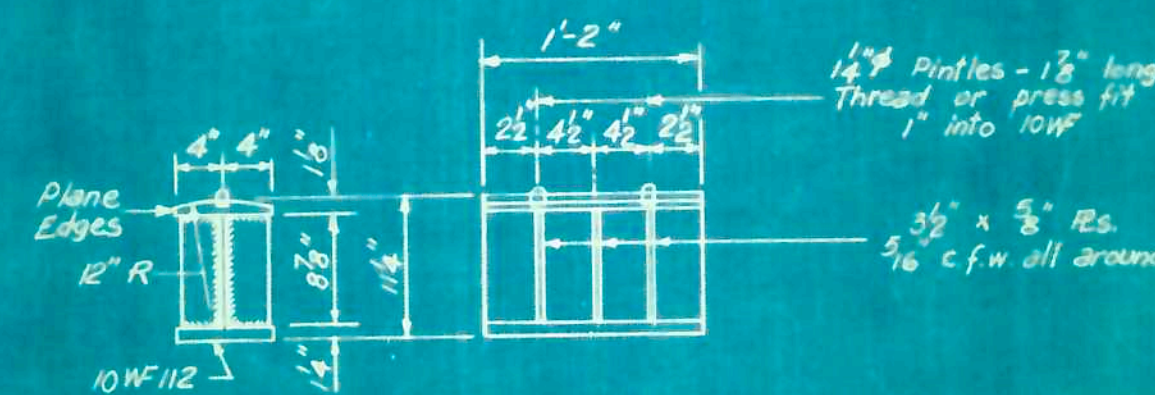
Bot. Brg. Pl. @ Piers



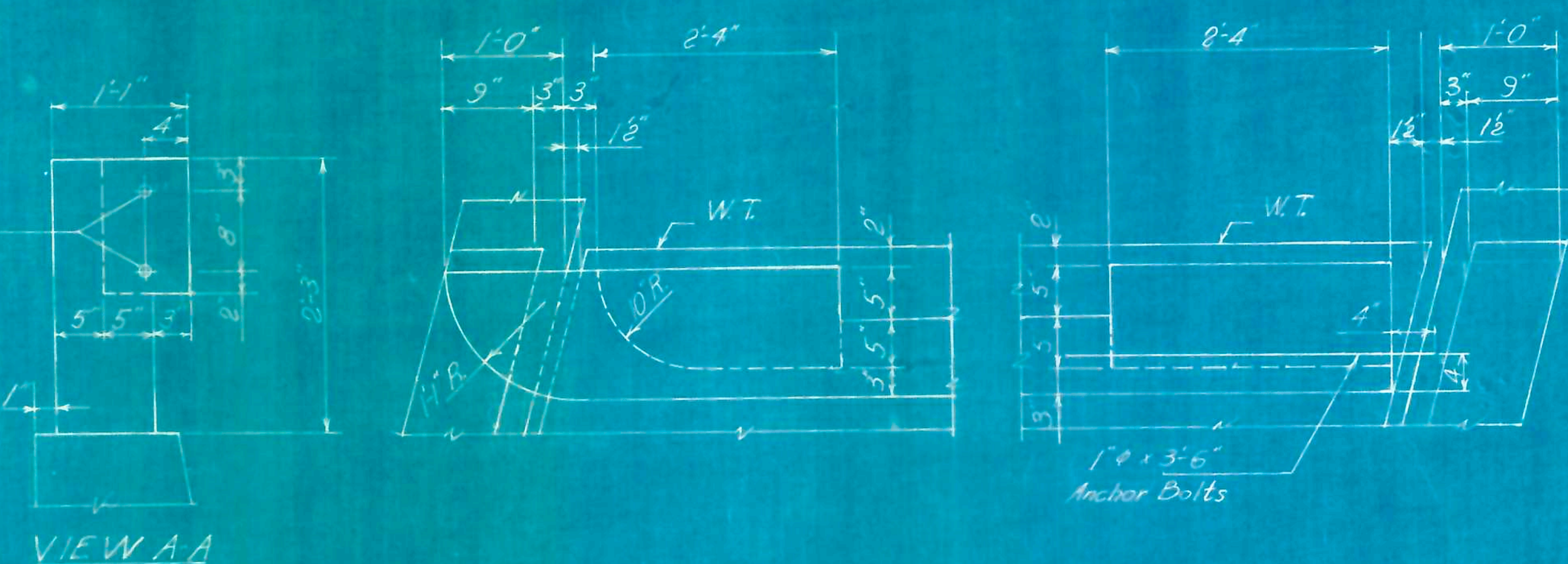
PIER #1 or #2



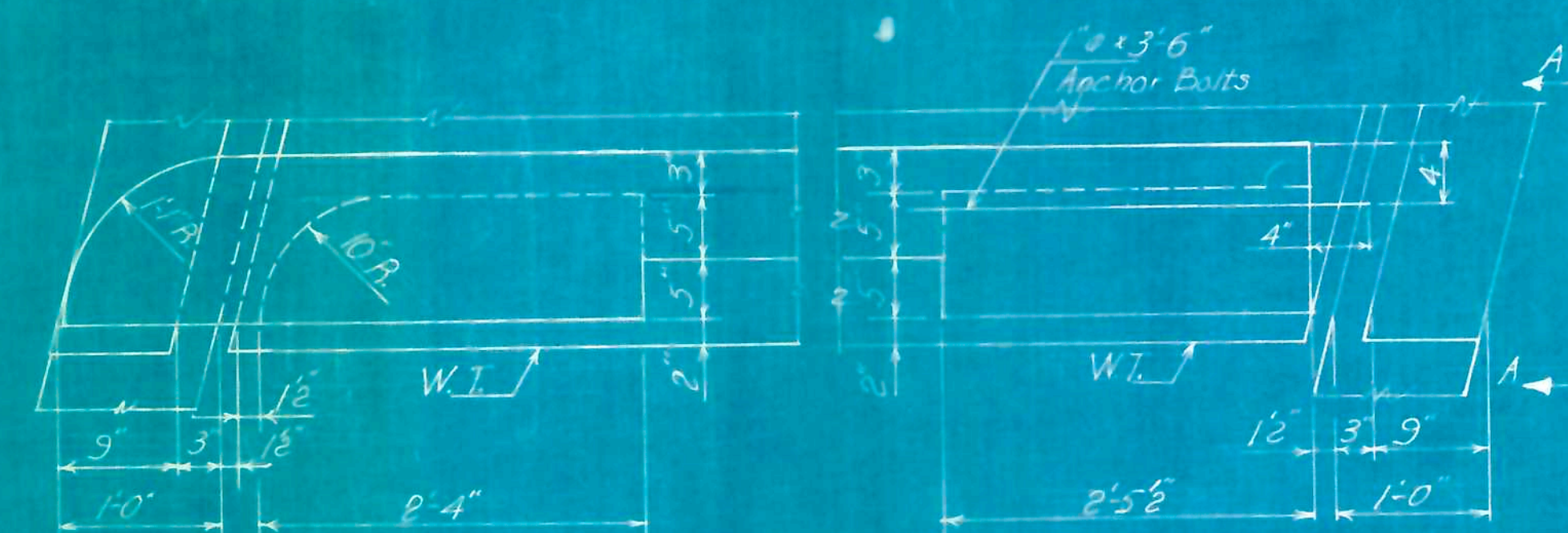
PLAN - PLATES



BOLSTER DETAIL



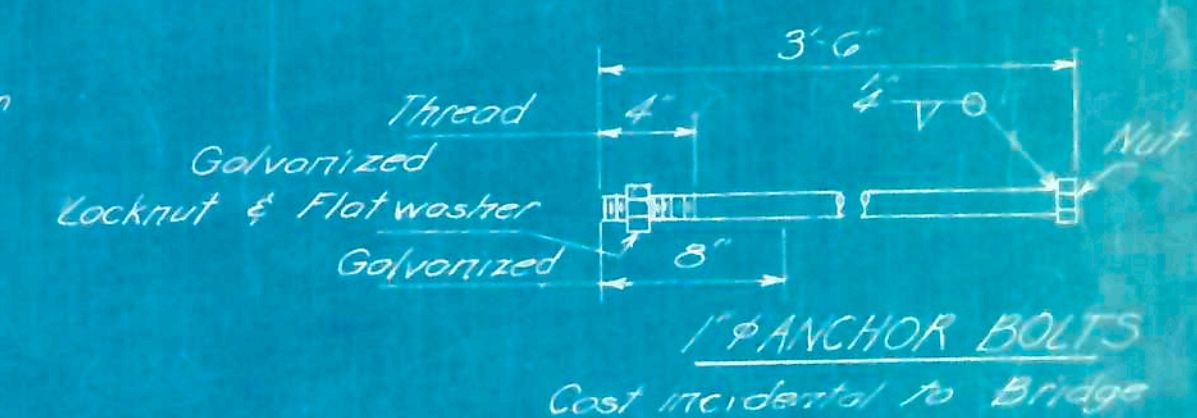
VIEW A-A



PLAN END POSTS

North Bound Lanes shown
South Bound Lanes same thru 180° Rotation

Note: See Sheet #2
for post spacing.



ANCHOR BOLTS
Cost incidental to Bridge

Note: For structural steel quantities,
see sheet #2

BILL OF MATERIAL (ONE BRIDGE)

Bar	No.	Size	Length	Shape
P	24	#7	21'-9"	
U2	16	#6	10'-6"	
S1	72	#4	10'-2"	
Class X Concrete				Qu. Yds. 21.7
Reinforcement Bars				Lbs. 1,800
Precast Concrete Piles				Lin. Ft. 455
Test Piles (Concrete)				Each 1

PIERS

F.A.I. RT. 57 SEC. 38-4B-2
IROQUOIS COUNTY
STATION 456+03.50

DESIGNED	Nabi R. Pakroodi	DATE	12-2-1963
CHECKED	J. E. Smith	PAID	
DRAWN	N.R.F.	APPROVED	
CHECKED	J. E. Smith	CHIEF HIGHWAY ENGINEER	

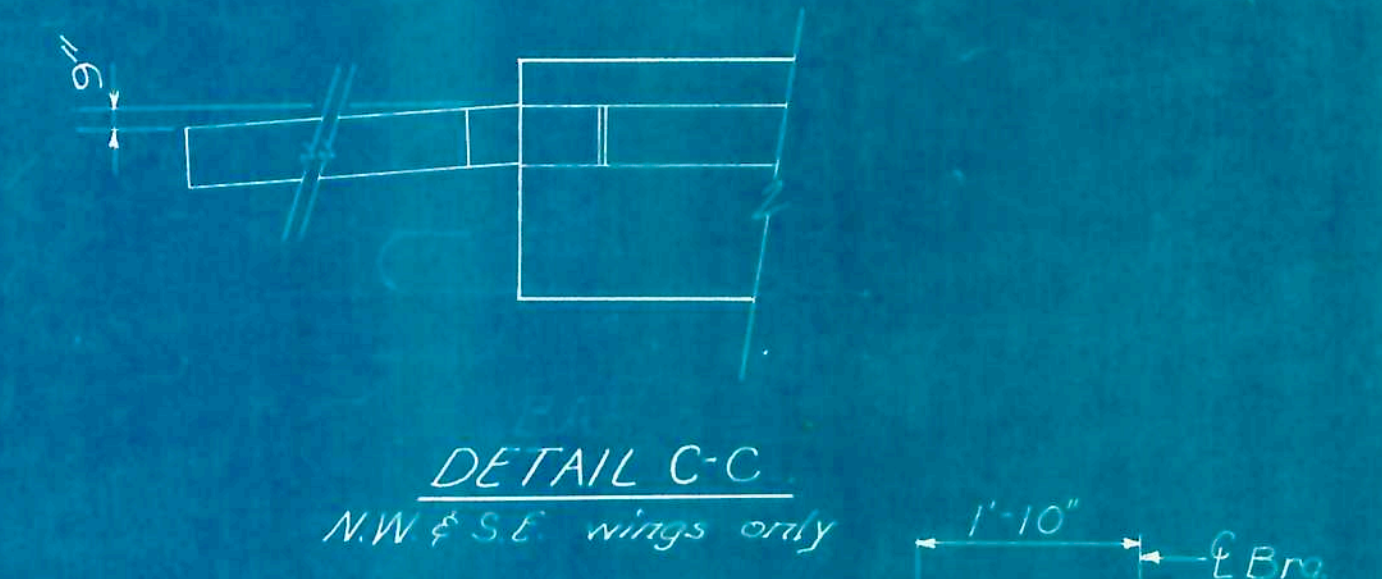
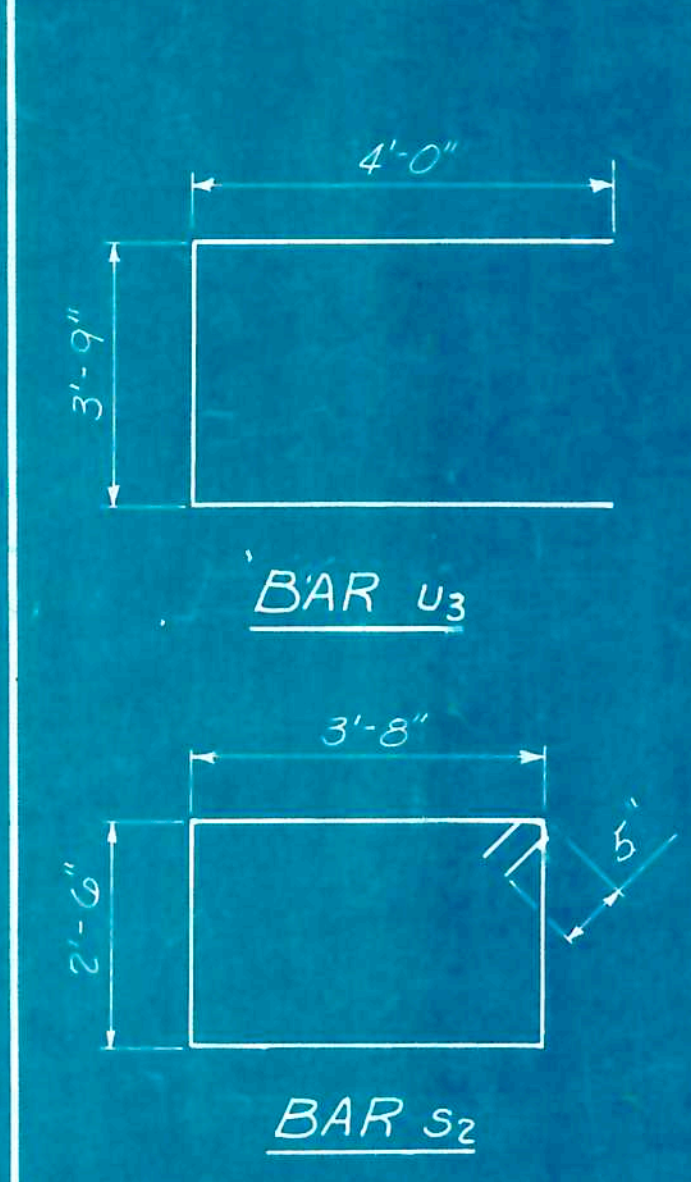
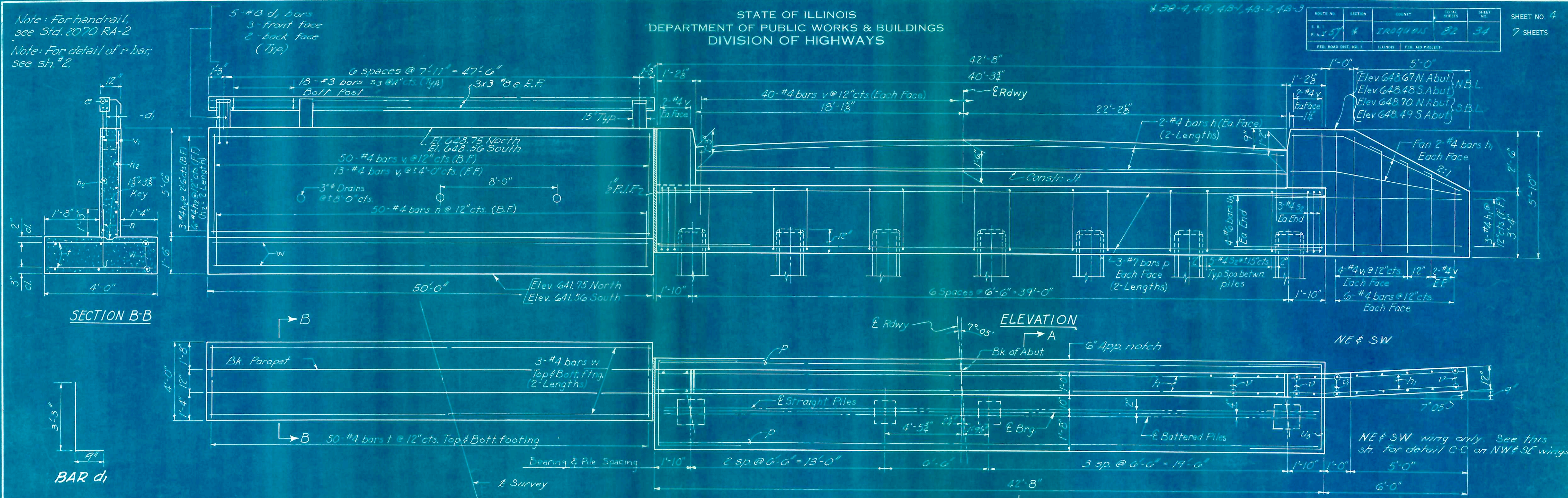
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

* 38-4, 418, 43-1, 43-2 & 3

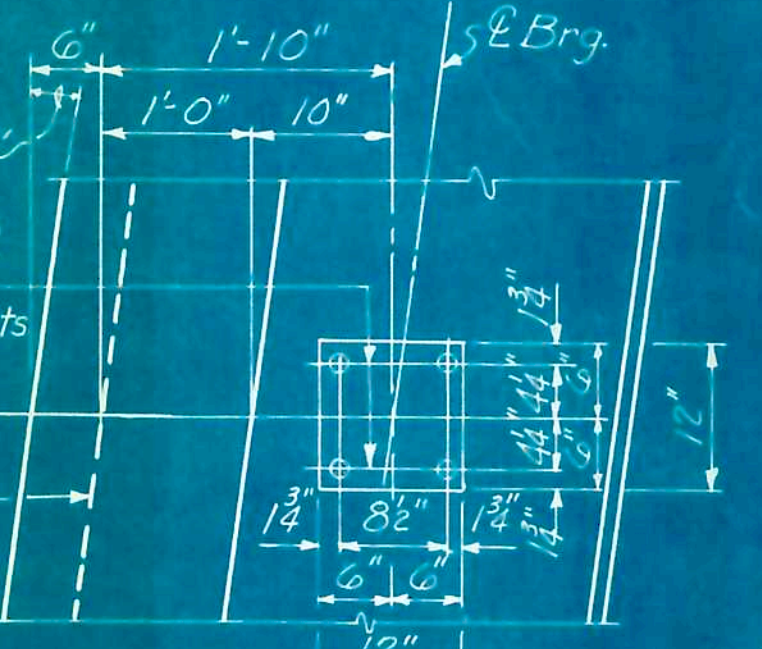
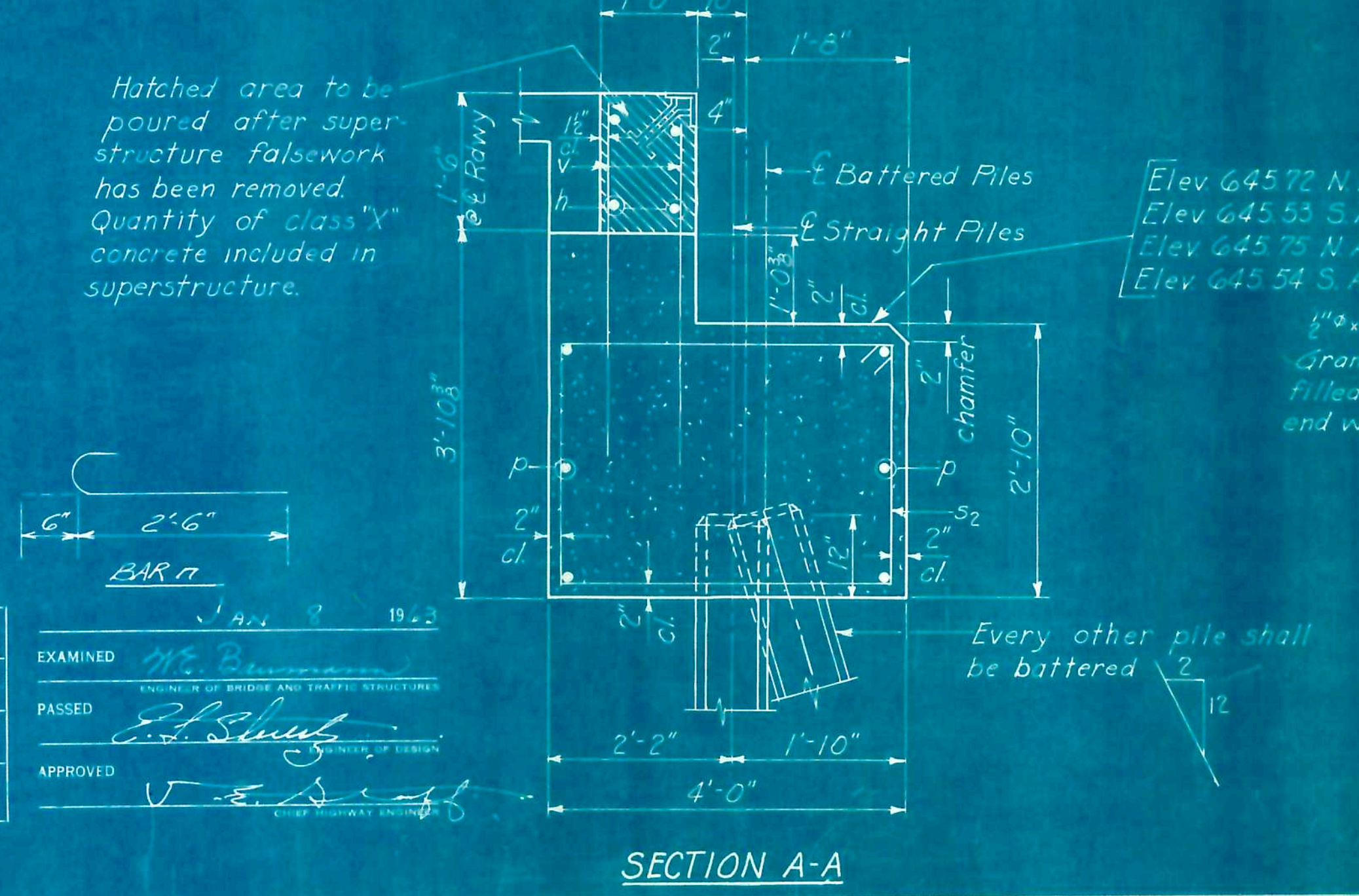
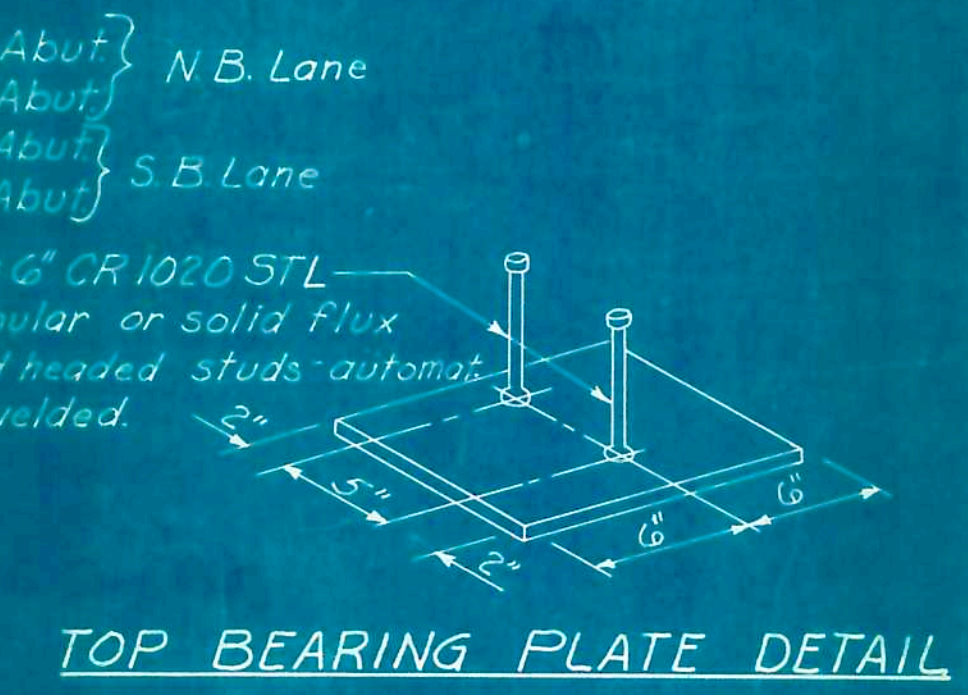
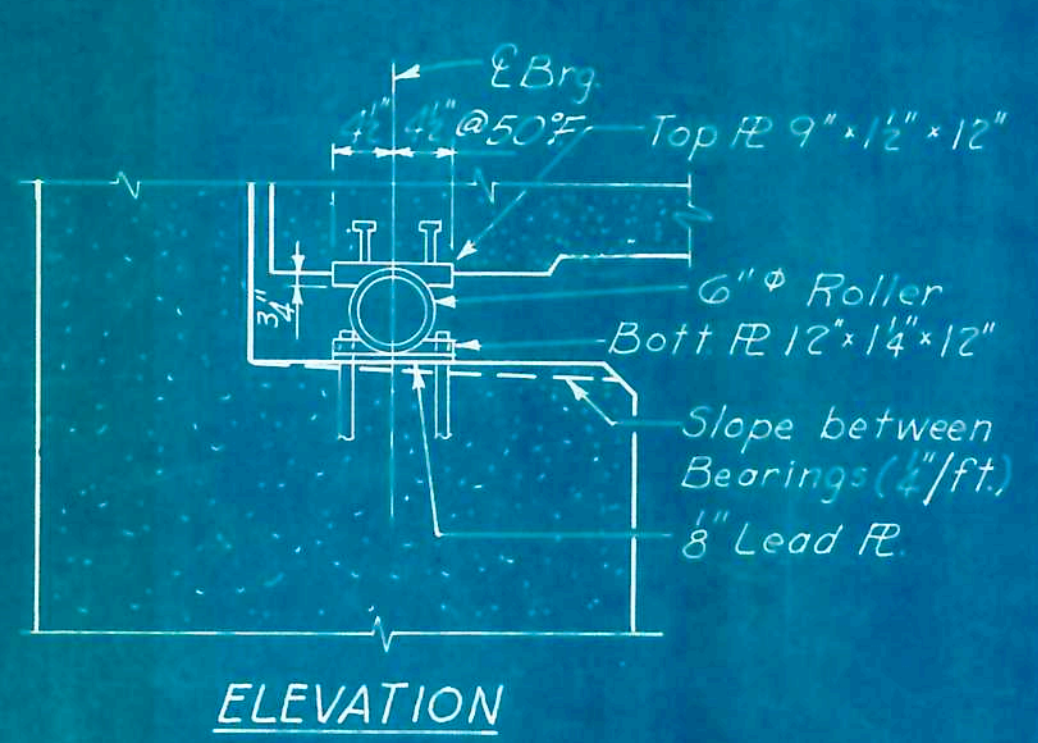
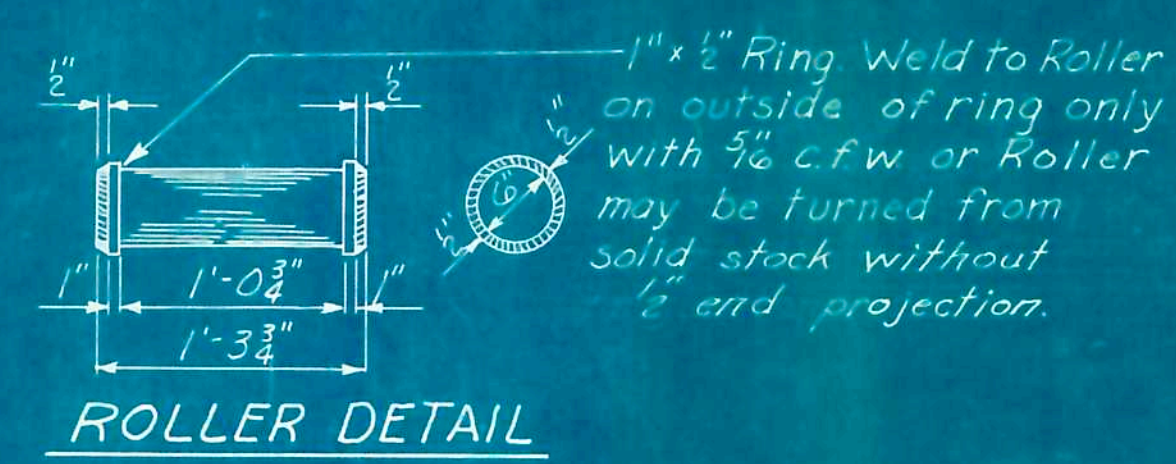
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RT. 57	*	IROQUOIS	32	31
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 4
7 SHEETS

Note: For handrail, see Std. 2070 RA-2
Note: For detail of r-bar, see sh #2.



PILE DATA
Type - Conc. Piles
Capacity - 25 Tons
Est. Length - 30'-0"
No. Req'd - 14



* Quantities for two abutts and one retaining wall.

ONE BRIDGE*
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	16	#4	20'-6"	
h1	40	#4	7'-0"	
h2	18	#4	25'-6"	
n	50	#4	3'-0"	
p	24	#7	21'-9"	
d1	35	#8	2'-0"	
s2	76	#4	13'-2"	
t	100	#4	3'-9"	
u3	16	#6	11'-9"	
v	192	#4	3'-6"	
w	95	#4	5'-4"	
w	12	#4	25'-6"	
e	18	#8	18'-6"	
r	14	#2	3'-0"	
s3	103	#3	3'-5"	
Class X Conc.			Cu. Yds.	63.7
Reinforcement Bars			Lbs.	5400
Conc. Piles			Lin. ft.	420
Handrail Conc.			Cu. Yds.	1.1

ABUTMENTS

F.A.I. RT. 57 SEC. 38-43-2
IROQUOIS COUNTY
STATION 450+03.50

DESIGNED: *W. F. Dickerson*
CHECKED: *J. H. Hancock*
DRAWN: *W. F. Dickerson*
CHECKED: *J. H. Hancock*

EXAMINED: *W. F. Dickerson*
PASSED: *J. H. Hancock*
APPROVED: *W. F. Dickerson*

Note: See sheet #2 for details of s3 bars.

Note: For structural steel quantities, see sh #2.