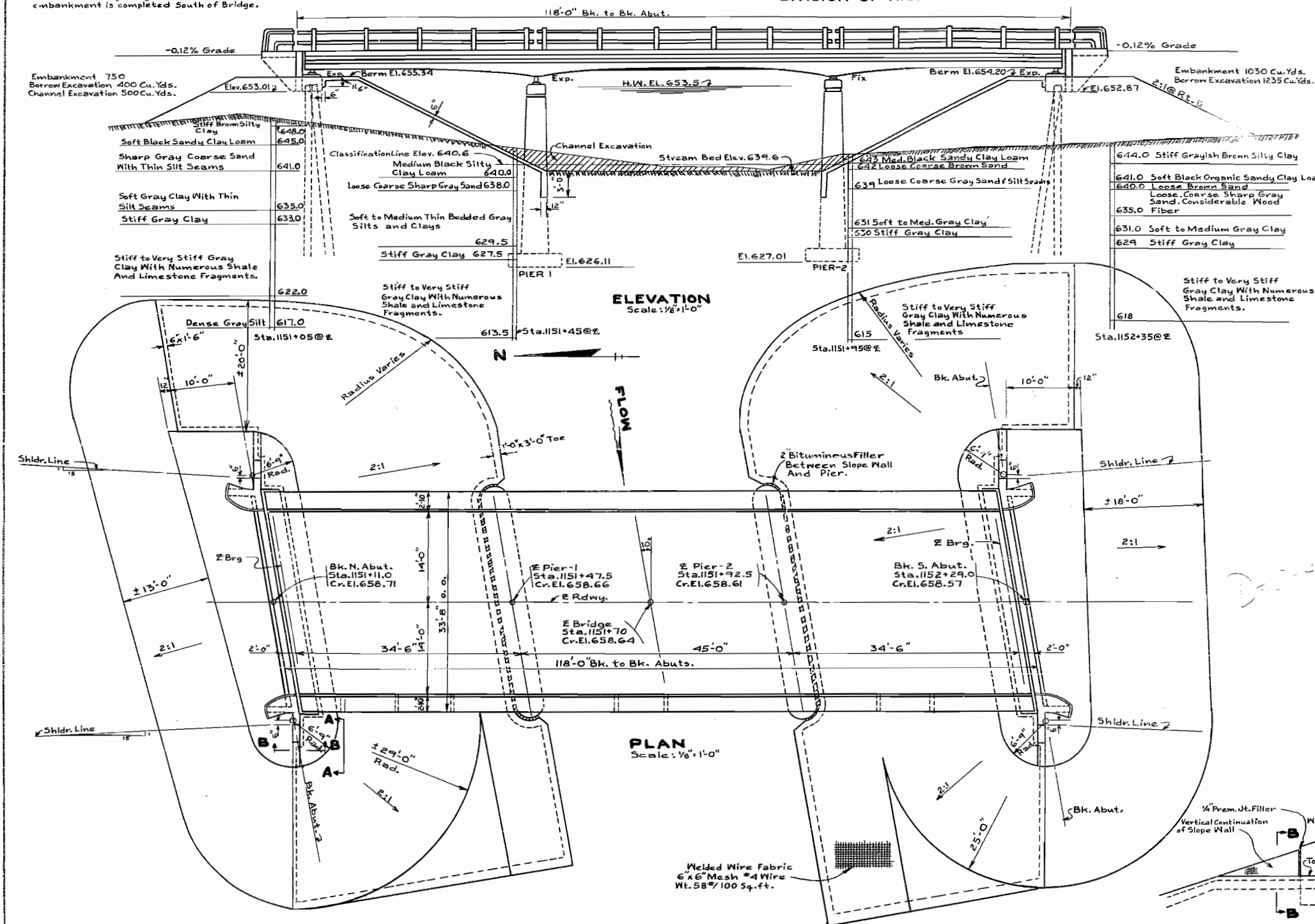


INFORMATION ONLY

B.M. No. 104 - On top of N.E. wing of N. Abut.
75' Rt. Sta. 1151+45 Elev. +651.63
Existing Structure: - R.C. Thru girder 1-span
@ 60' cl. along E. 21.3' Rdwy. on closed R.C. Abuts.
to be removed by Bridge Contractor after
embankment is completed South of Bridge.

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

PROJECT	DATE	BY	CHKD	APP'D	REV
1	15-28	Irigoien	59	47	7-1-52



DESIGNED *Thomas D. Goydas*
CHECKED *J. H. Goydas*
DRAWN *G. D. B.* Stone
CHECKED *J. H. Goydas*

EXAMINED *W. E. Hanson*
PASSED *E. E. Hanson*
APPROVED *A. N. Hanson*
CHIEF HIGHWAY ENGINEER

STRESSES
fs = 18,000 psi (Structural)
fs = 20,000 psi (Reinf.)
fc = 1400 psi (Super)
fc = 800 psi (Sub)
n = 10
Loading H20-S16-44

WATERWAY INFORMATION
Drainage Area 32,000
Character Level, Cultivated
Opening Required (50 Yr. Flood) 850 Sq. Ft.
Proposed Opening 850 Sq. Ft.

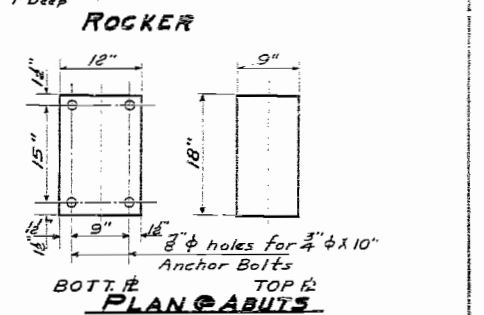
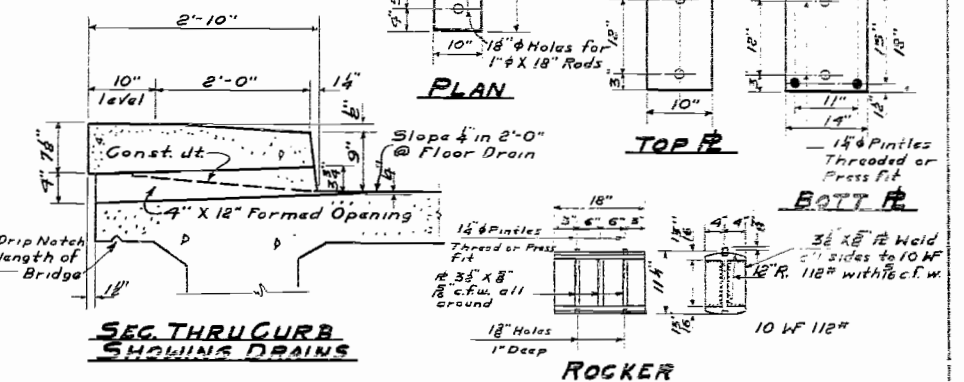
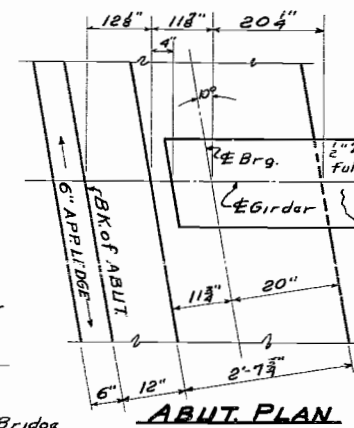
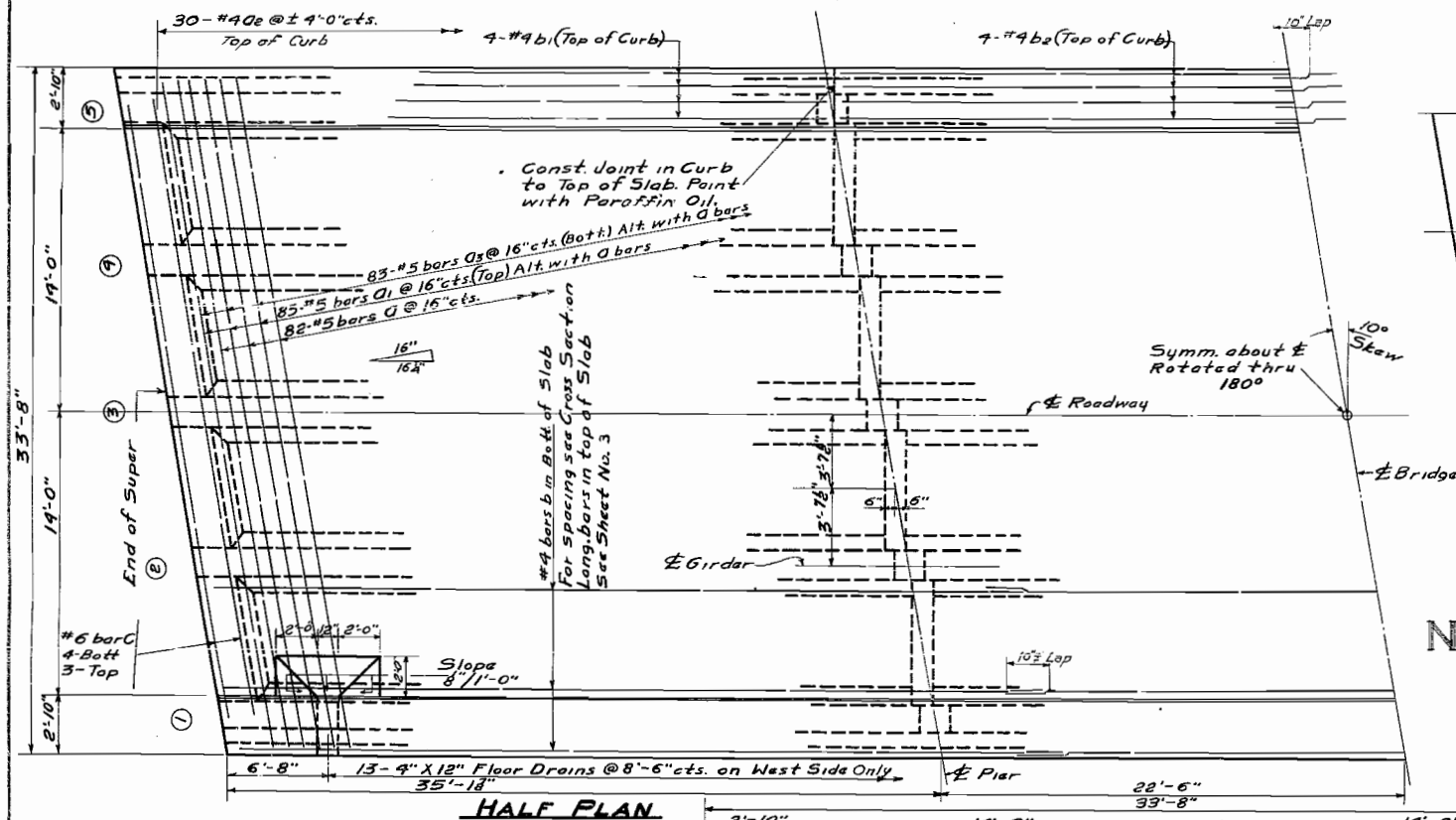
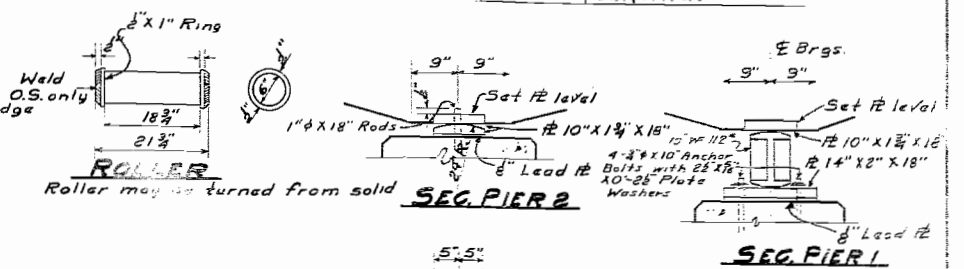
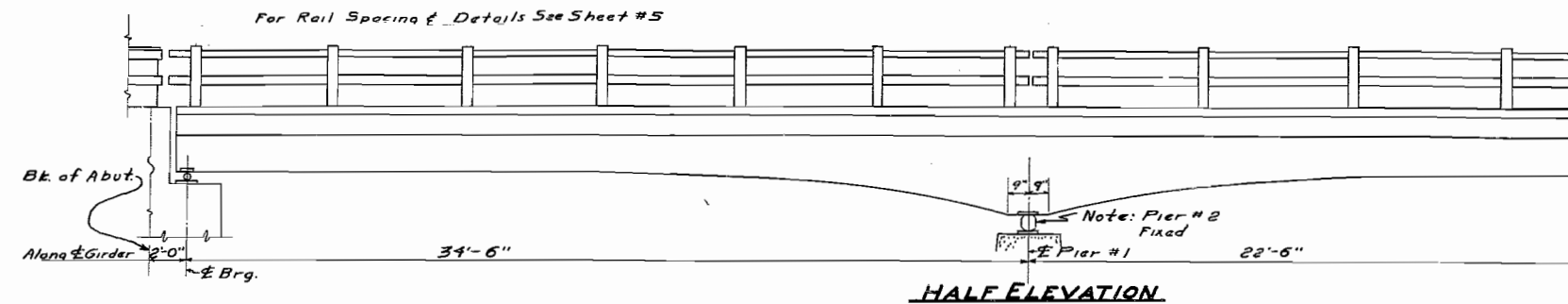
STATION 1151+70
BUILT 1953 BY
STATE OF ILLINOIS
S.B.I. RT. 1 SEC. 15-R-B
PROJECT F-2(25)
LOADING H20-S16
LETTERING FOR NAME PLATE
See Standard 2113

SECTION A-A
(TYPICAL)
SECTION B-B

COON CREEK
F.A. RT. 1 (S.B.I. RT. 1) SEC. 15-R-B
STA. 1151+70
IROQUOIS COUNTY

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

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
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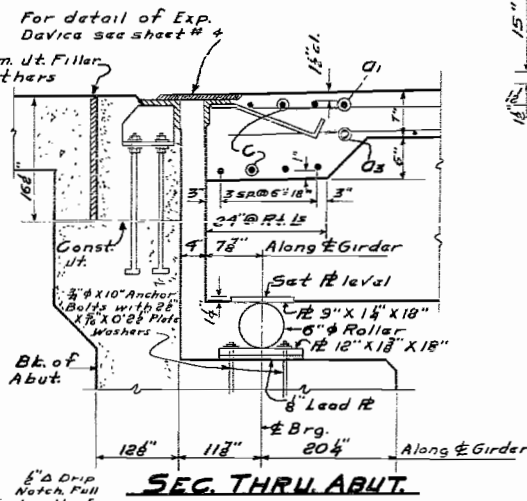
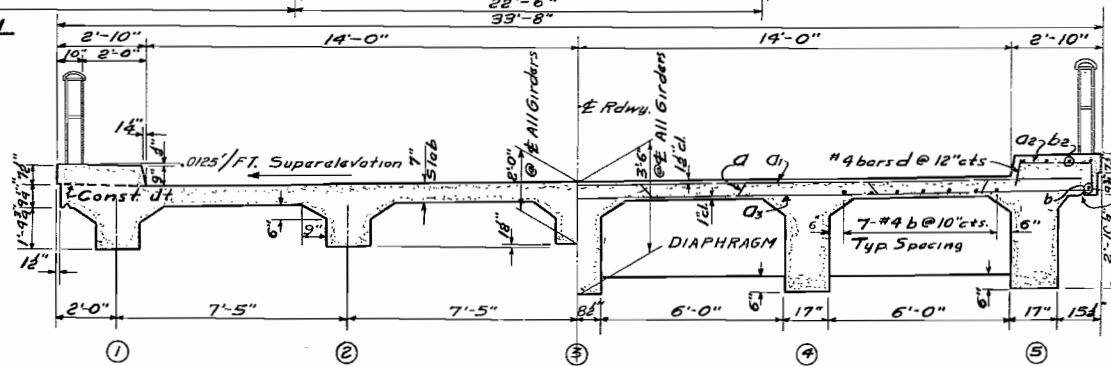
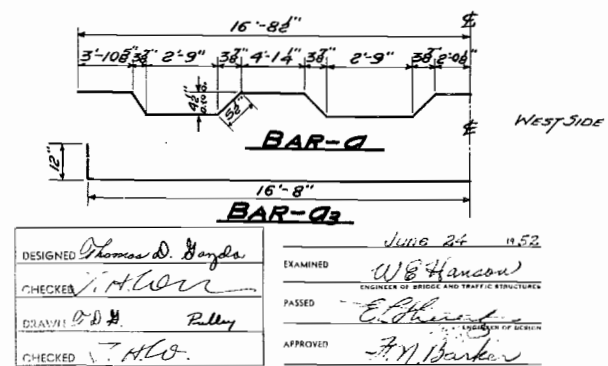


LIST OF BARS IN SLAB

BAR	NO	SIZE	LENGTH	SHAPE
Q1	82	#5	34'-8"	
Q1	83	#5	33'-3"	
Q2	60	#4	2'-6"	
Q3	83	#5	35'-4"	
b	90	#4	39'-0"	
b1	16	#4	34'-3"	
b2	16	#4	22'-9"	
C	14	#6	30'-0"	
d	236	#4	1'-3"	

BILL OF MATERIAL-SUPER

ITEM	QUANTITY
Class X Concrete Cu Yds.	170
Reinforcement Bars Lbs.	15,870
Structural Steel Lbs.	12,560
Metal Handrail Lin. Ft.	235
Name Plate Ea.	1



SEC. THRU ABUT.

SEC. THRU ABUT.

SEC. THRU ABUT.

SEC. THRU ABUT.

SEC. THRU ABUT.

SEC. THRU ABUT.

SEC. THRU ABUT.

SEC. THRU ABUT.

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SEC. THRU ABUT.

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SEC. THRU ABUT.

SEC. THRU ABUT.

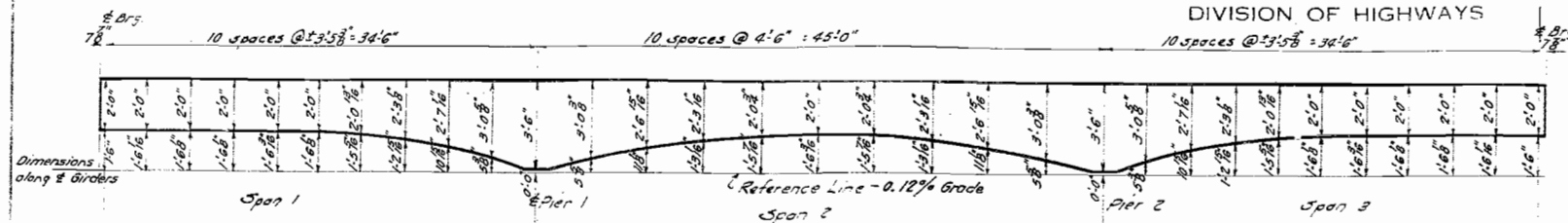
SEC. THRU ABUT.

SEC. THRU ABUT.

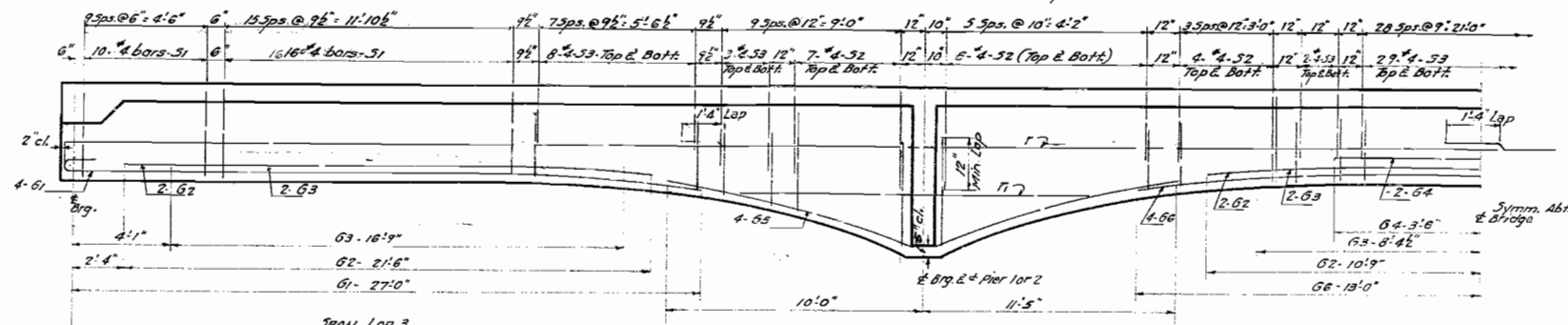
COON CREEK
F.A.R.T. (S.B.I.R.T.) SEC. 15-R-B
STA. 1151+70
IROQUOIS COUNTY

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

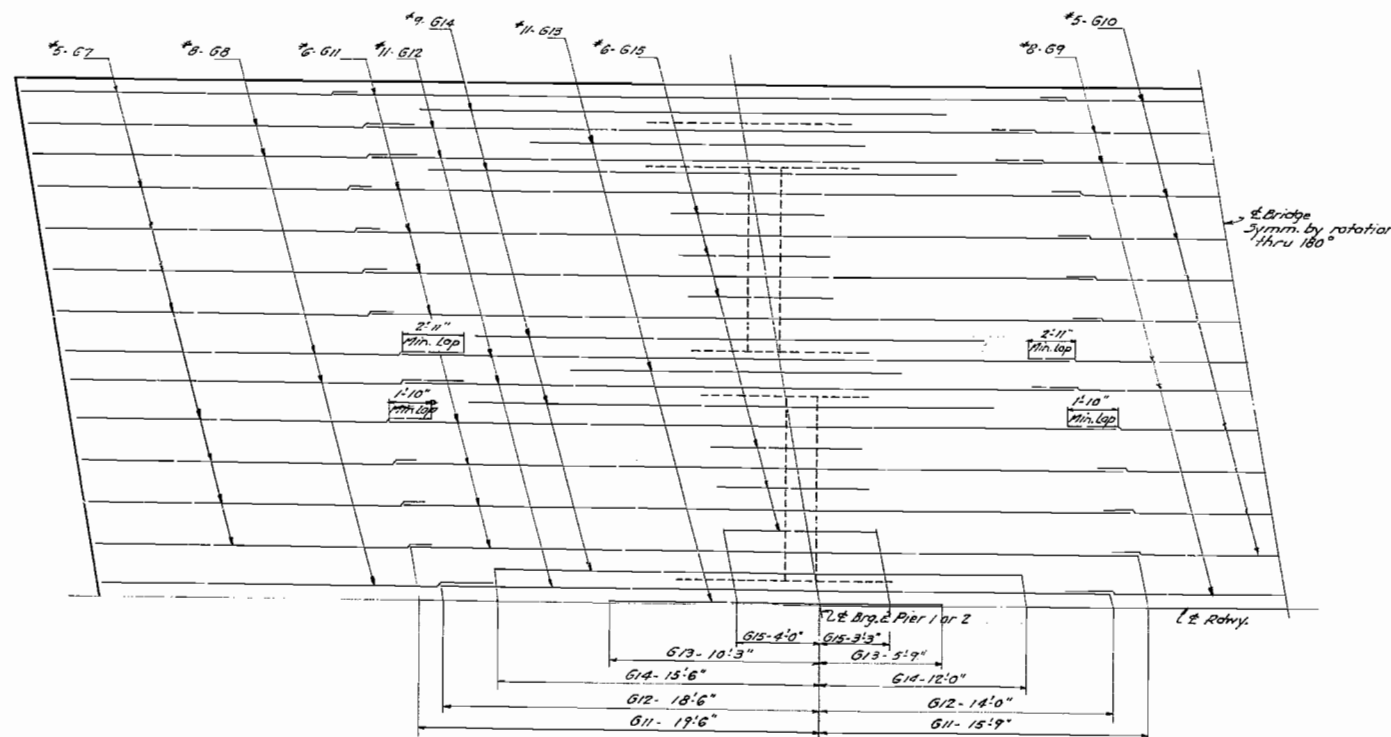
15-R-2 Iroquois 58 48 7 1



GIRDER ORDINATES (ALL GIRDERS)
Girder Ordinates include Dead Load Deflections
Contractor shall also allow for Settlement of Forms and Shrinkage

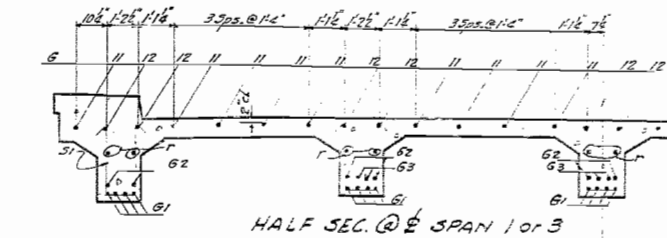
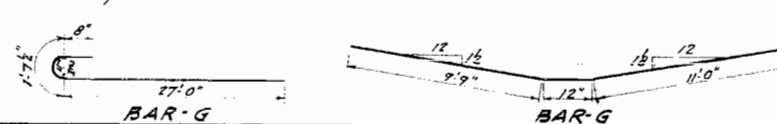


HALF ELEVATION OF GIRDERS
Omit bars #3-64 in Exterior Girders

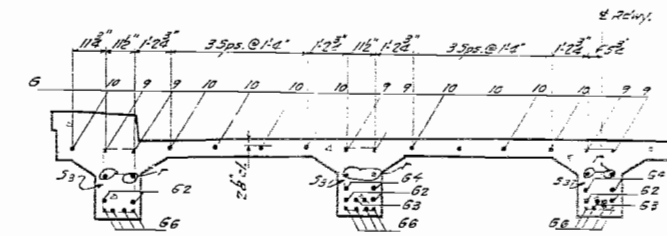


QUARTER PLAN

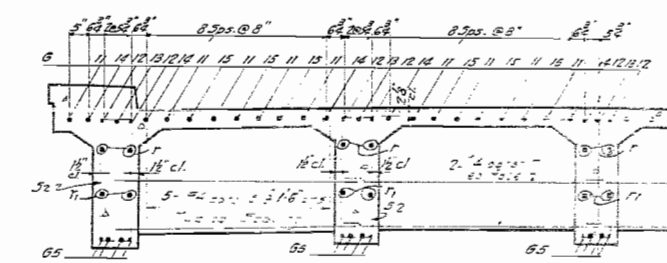
Showing Longitudinal Reinforcement
in Top of Slab



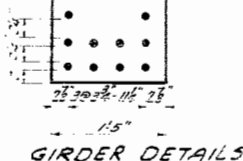
HALF SEC. @ SPAN 1 or 3



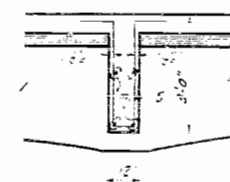
HALF SEC. @ SPAN 2



HALF SECTION @ PIER 1 or 2



GIRDER DETAILS



SEC. THRU DIAPH.

BAR LIST - GIRDERS & DIAPHR.

Bar No.	Size	Length	Notes
1	40	29'3"	
2	30	21'6"	
3	18	16'9"	
4	6	7'0"	
5	40	21'9"	
6	20	26'0"	
7	36	17'6"	
8	20	19'6"	
9	10	27'0"	
10	18	17'3"	
11	36	35'3"	
12	20	32'6"	
13	10	16'0"	
14	20	27'6"	
15	24	7'3"	
16	40	29'0"	
17	20	14'0"	
18	40	7'0"	
19	260	5'9"	
20	300	5'6"	
21	550	4'3"	
22	32	8'0"	

EA. RT (381. RT. 1) SEC. 15-R-B
COON CREEK
IROQUOIS COUNTY
Sta 1151+70

Thomas D. Hagola
J. H. H. m.m.
J. N. C.
June 24, 58
W. E. H. (L.O.V.)
C. H. H.
J. N. C.

DATE	12-28	ISSUE	59	50	SHEET NO. 4
ISSUE	12-28	ISSUE	59	50	7 SHEETS
ISSUE	12-28	ISSUE	59	50	

Technical drawing showing a side elevation and a cross-section of a bridge and abutment structure.

Side Elevation (Top):

- Vertical dimension: $1\frac{1}{4}"$
- Horizontal dimension: $2'-5" \text{ R.T.L.}$

Cross-Section (Bottom):

- Vertical dimension: $1\frac{1}{2}"$
- Horizontal dimension: $2'-8"$
- Chamfer: $\frac{3}{4}" \text{ Chamfer}$
- Bridge Label: $L4 \times 4 \times \frac{1}{2} \times 2'-8\frac{1}{2}" \text{ Bridge}$
- Abutment Label: $L4 \times 6 \times \frac{1}{2} \times 2'-8\frac{1}{2}" \text{ Abut.}$
- Side Labels: "Side" and "Side" (on opposite sides of the cross-section)

$\frac{1}{2} \times 12$ Plate
 Carnegie M-41 or Equal
 $L 6 \times 4 \times \frac{1}{2}$ "
 $3\frac{1}{2}$ " 4 " $4\frac{1}{2}$ "
 $L 4 \times 4 \times \frac{1}{2}$ "
 $\frac{3}{16}$ " CFW
 $2 \times \frac{9}{16} \times 10$ Strap
 Bolt to L with $\frac{1}{2}$ "
 CFW - 3 sides
 4" x 8" Holes - Wall

2'-9 1/4"

14'-0" @ RT.45

11 1/4" 1'-8 3/4" 1 1/2"

Level Slope

12 1/2" x 8 3/4" Curb RE
Weld to Side Walk RE

10 1/2" x 8 3/4" R to L
Abut. Side Only.

5" CFW

N.W. Elev. 657.15
S.W. Elev. 657.02

Construction Joint

N.E. Elev. 657.51
S.E. Elev. 657.39

STR

Plate $\frac{1}{2}" \times 12"$

$L6" \times 4" \times \frac{1}{2}"$

$L6" \times 4" \times \frac{1}{2}" \times 0'-8"$

$12" @ Rt. Lb$

$3\frac{1}{2}"$ $4"$ $4\frac{1}{2}"$ $@ Rt. Lb$

$\frac{3}{16}" cfw$ $L4" \times 4" \times \frac{1}{2}"$

$2" \times \frac{3}{4}" \times 12" Strap$

$\frac{3}{8}" \times 2'-0"$ Anchor Bolt Thread $6"$ Provide 2 Cut Washers & Nuts With Each Bolt - $\frac{1}{2}" \phi$ Holes In Angle.

$\frac{3}{8}" \phi$ Nail Holes @ $12"$ cts. $\frac{1}{8}" cfw$

Const. Joint

$16\frac{1}{2}"$

$@ Rt. Lb$

$6"$ $3\frac{1}{2}"$ $4"$ $2\frac{1}{2}"$ $4"$

$18" @ Rt. Lb$

10° Rdwy.

6 Sp. @ 2'-0" = 12'-0"

6 Sp. @ 2'-0" = 12'-0"

7-9/16" Straps @ 2'-0" cts. = 12'-0" (Top)
Alternate with 6-3/16" Straps @ 2'-0" cts. (Bott.)

L 6" x 4" x 1/2" x 14'-1 1/2"
L 4" x 4" x 1/2" x 14'-1 1/2"

7-9/16" Straps @ 2'-0" cts. = 12'-0" (Top)
Alternate with 6-3/16" Straps @ 2'-0" cts. (Bott.)

SHOWING EXP. R. REMOVED

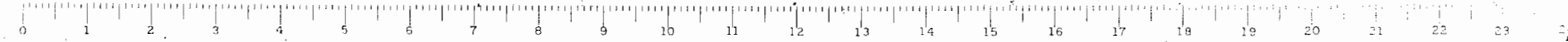
SHOWING EXP. R. IN PLACE

PLAN OF EXPANSION DEVICE
NORTH ABUTMENT
SOUTH ABUTMENT SIMILIAR
BYROTATING THRU 180°
EXCEPT AS NOTED.

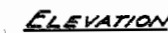
PLAN OF EXPANSION DEVICE
NORTH ABUTMENT
SOUTH ABUTMENT SIMILAR
BYROTATING THRU 180°
EXCEPT AS NOTED.

4 Spiral Hooping may be Structural Grade Reinforcement

EXPANSION DEVICE
COON CREEK
F.A.R.T.(S.B.I.R.T.) SEC.15-R-B
IROQUOIS COUNTY
STA.1151+70



En. 15-RE Iroquois 59 51



Bar	No.	Size	Length	Shape
B1	32	#4	3'9"	—
B2	24	#4	3'9"	—
B3	24	#4	2'6"	⌊
Handrail Concrete			Cu. Yds. 1.6	
Reinforcement Bars			Lbs. 170	
Metal Handrail			Lin. Ft. 235	

HANDRAIL DETAILS

COON CREEK
F.A. RT. 1 (S.B. RT. 1) SEC. 15 R. B
IROQUOIS COUNTY
STA 1151+70



END POST DETAILS

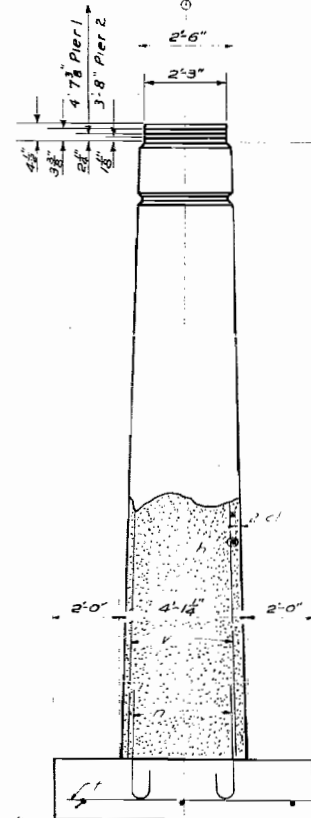


DESIGNED	<i>Thomas D. Snyder</i>	DATE	6-28-52
CHECKED	<i>J. H. Brown</i>	EXAMINED	<i>W. E. Anderson</i>
DRAWN	<i>G. D. H.</i>	PASSED	<i>E. L. Stewart</i>
CHECKED	<i>J. H. C.</i>	APPROVED	<i>J. M. B. [Signature]</i>

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

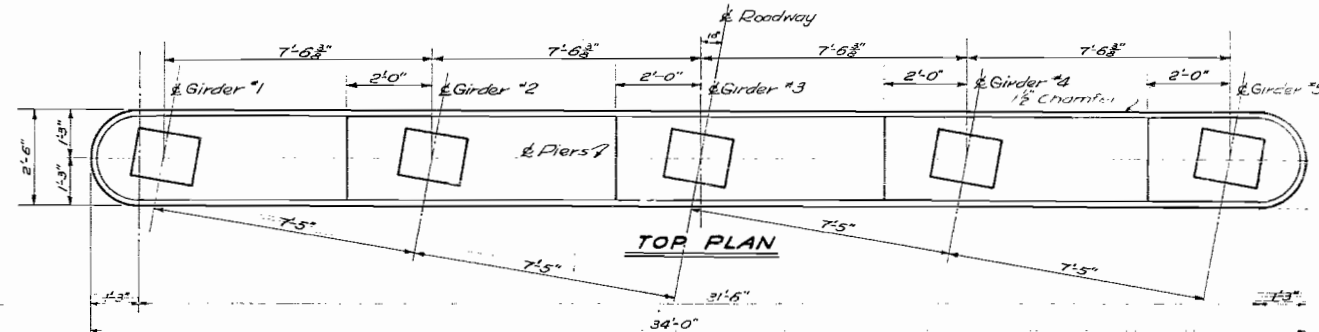
FA 572 Iroquois 59 52 7 SHEETS

Pier #1 Sta. 1151+475 E. Elev. 658.65
Pier #2 Sta. 1151+925 E. Elev. 658.61

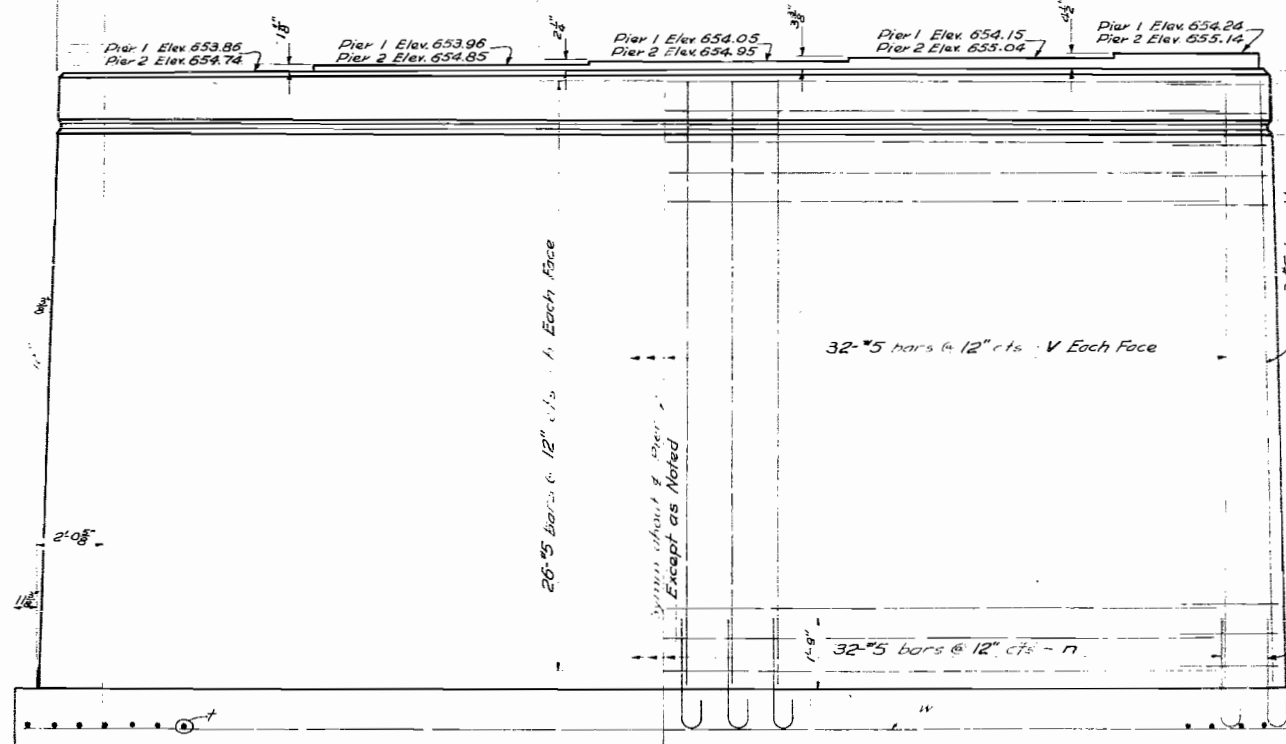


END VIEW

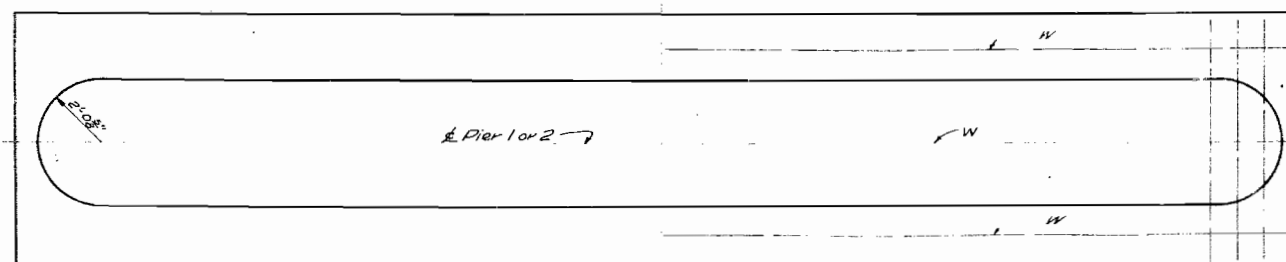
Pier #1 Elev. 626.11
Pier #2 Elev. 627.01



TOP PLAN



ELEVATION



FOOTING PLAN

NOTCH DETAIL

BAR-N

BAR	NO.	SIZE	LENGTH
h1	140	#5	25'-6"
h2	72	#5	4'-3"
h3	72	#5	5'-3"
h	208	#5	17'-0"
n	12	#5	19'-0"

DETAIL OF BARS
h1 - h2 - h3

TOTAL
BILL OF MATERIAL - PIERS 1 & 2

BAR	NO.	SIZE	LENGTH	BAR	NO.	SIZE	LENGTH
h1	140	#5	25'-6"	h1	64	#5	4'-3"
h2	72	#5	4'-3"	h2	72	#5	4'-3"
h3	72	#5	5'-3"	h3	72	#5	5'-3"
h	208	#5	17'-0"	h	208	#5	17'-0"
n	12	#5	19'-0"	n	12	#5	19'-0"
CLASS A CONCRETE				CU YDS			
REINFORCEMENT BARS				LBS.			
				261.5			
				9930			

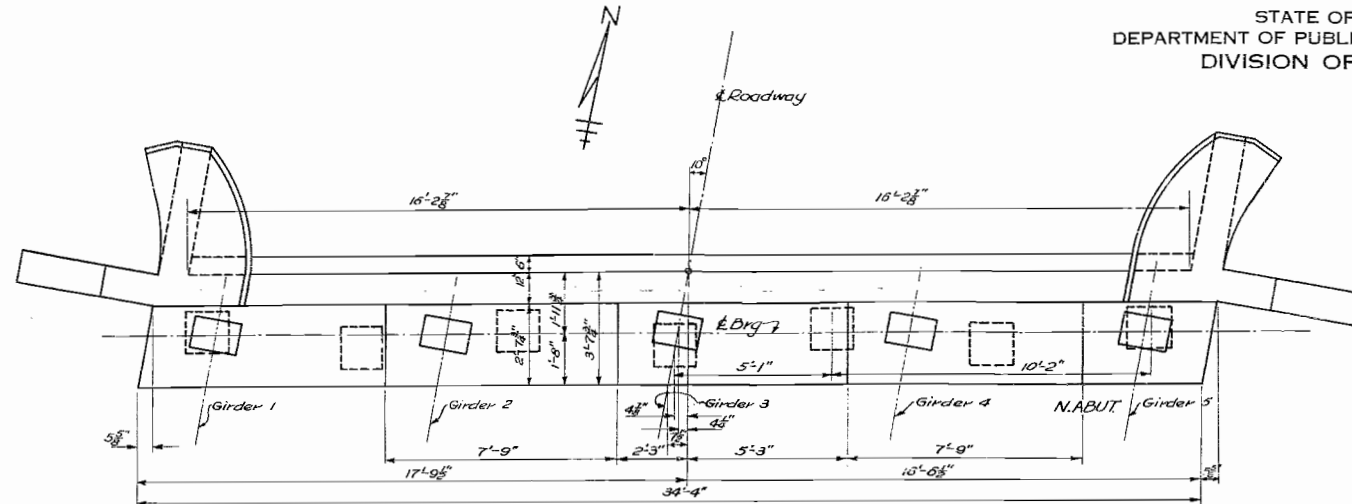
COON CREEK

FA R11(S.B.I.R11) SEC 15-R-B
IROQUOIS COUNTY
STA. 1151 + 70

DESIGNED BY Thomas D. Snyder
CHECKED BY J. H. Allen
DRAWN BY J. H. Allen
APPROVED BY W. E. Hanson
JUNE 24 1952
W. E. Hanson
J. H. Allen
J. H. Allen

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

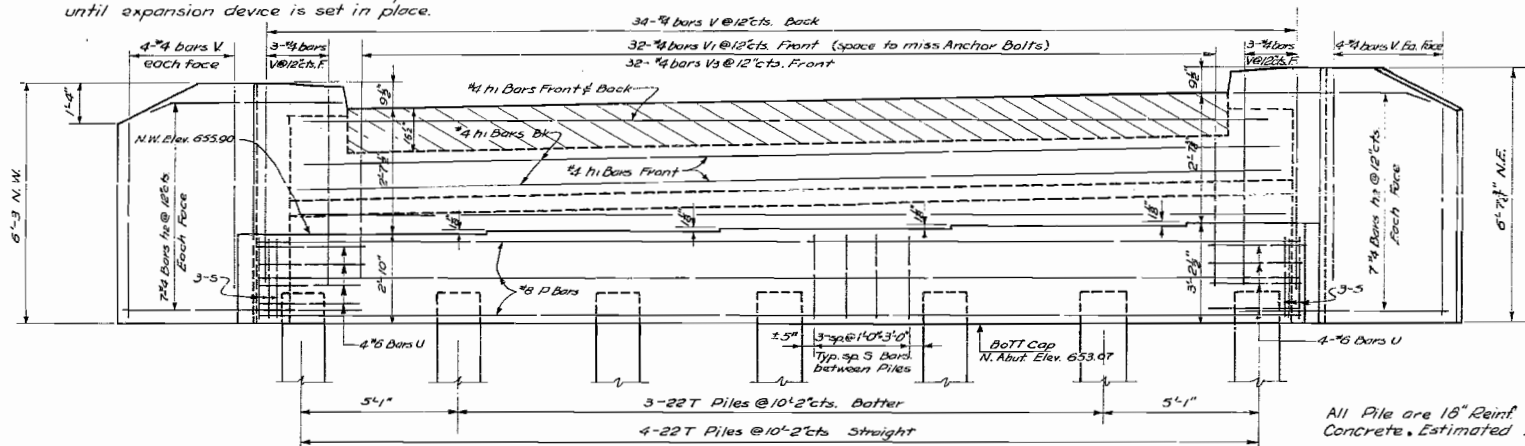
PROJECT NO.	15R-2	IRROQUOIS	53	53	SHEET NO. 7
					7 SHEETS



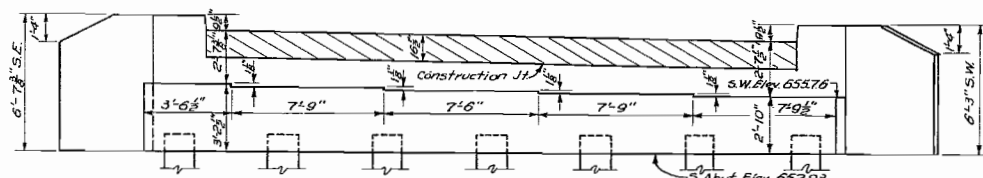
PLAN NORTH ABUT.

South Abut Similar

Cross-hatched section shall not be poured until expansion device is set in place.

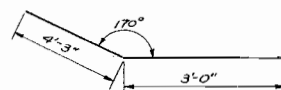


ELEVATION NORTH ABUT.

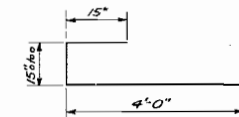


ELEVATION SOUTH ABUT.

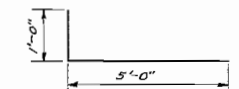
Looking South
Reinf. Similar to North Abut.



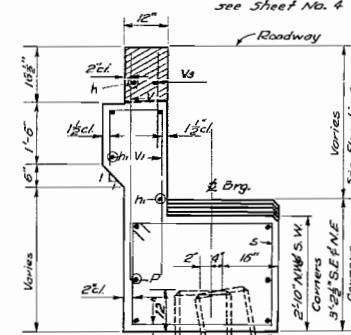
BAR-h2



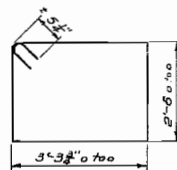
BAR-V1



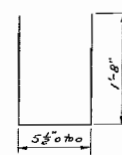
BAR-hs



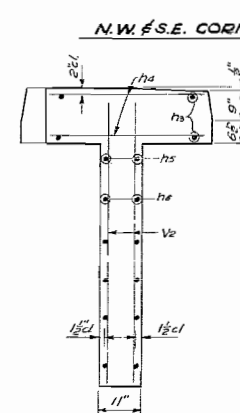
SECTION THRU ABUTS.



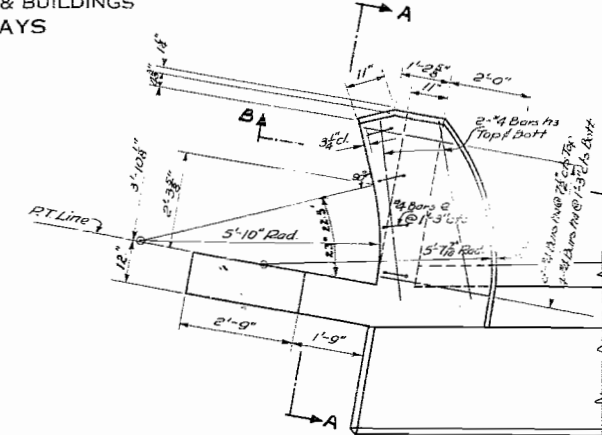
BAR-S



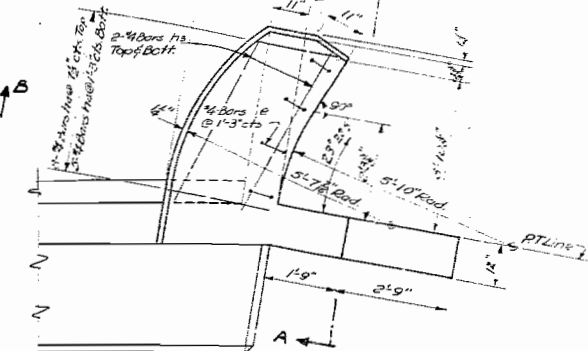
BAR-e



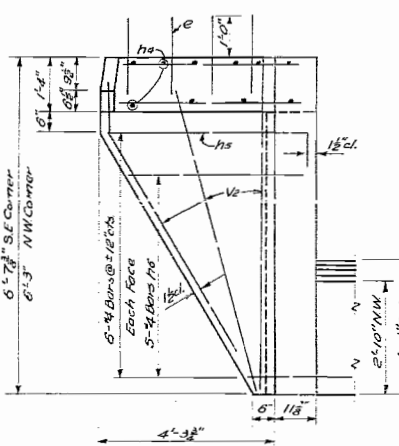
SECTION B-B



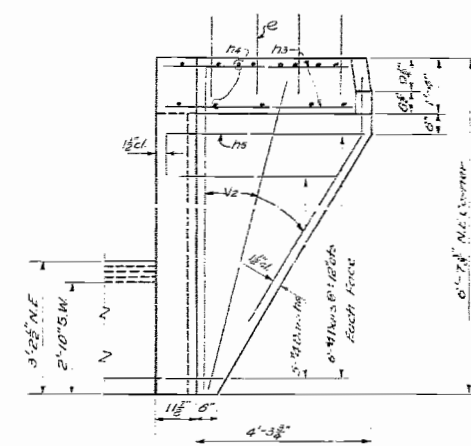
N.W. & S.E. CORNERS



N.E. & S.W. CORNERS



N.W. & S.E. CORNERS



N.E. & S.W. CORNERS

SECTION A-A

BILL OF MATERIAL - TWO ABUTMENTS

BAR	No.	SIZE	LENGTH	SHAPE	BAR	No.	SIZE	LENGTH	SHAPE
e	10	"4	3'-9"	U	V2	24	"4	6'-3"	—
					V3	64	"4	2'-6"	—
					P	12	"8	34'-0"	—
h1	12	"4	31'-0"	—	S	60	"4	12'-3"	—
h2	56	"4	7'-3"	—	U	10	"6	10'-0"	—
h3	8	"4	4'-6"	—					
h4	46	"4	2'-6"	—					
h5	6	"4	6'-0"	—					
h6	40	"4	4'-6"	—					
V	112	"4	5'-0"	—					
V1	64	"4	6'-6"	—					

COON CREEK

F.A.R.T. (S.D.I.R.T.) SEC. 15-R-B
IROQUOIS COUNTY
STA. 1151 + 70

DESIGNED	Thomas D. Bayless	EXAMINED	June 24 1952
CHECKED	T. A. Allen	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES	W. E. Hanson
DRAWN	G. B. H.	PASSED	E. L. Hansen
CHECKED	T. A. Allen	APPROVED	A. M. Hansen