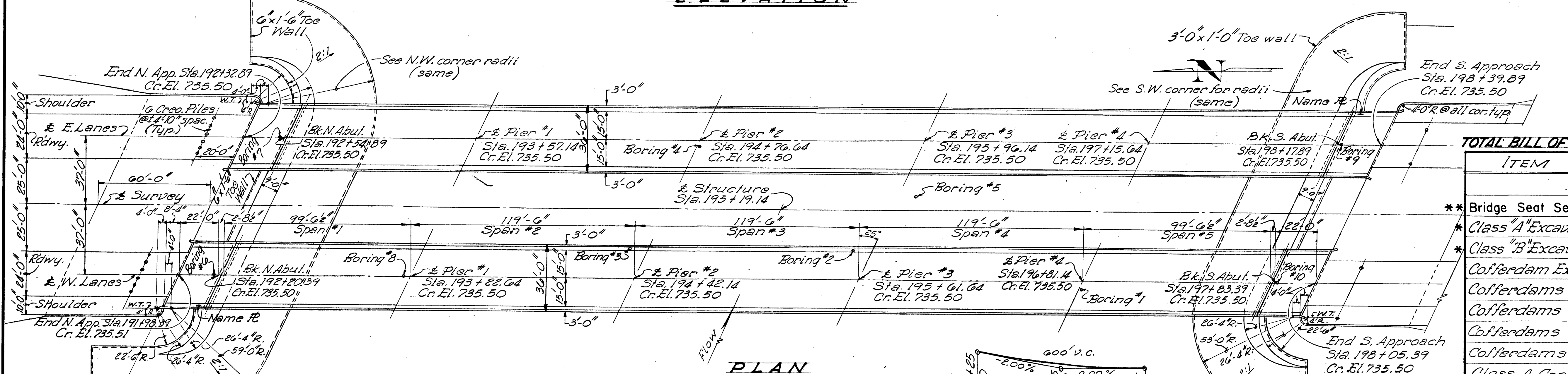
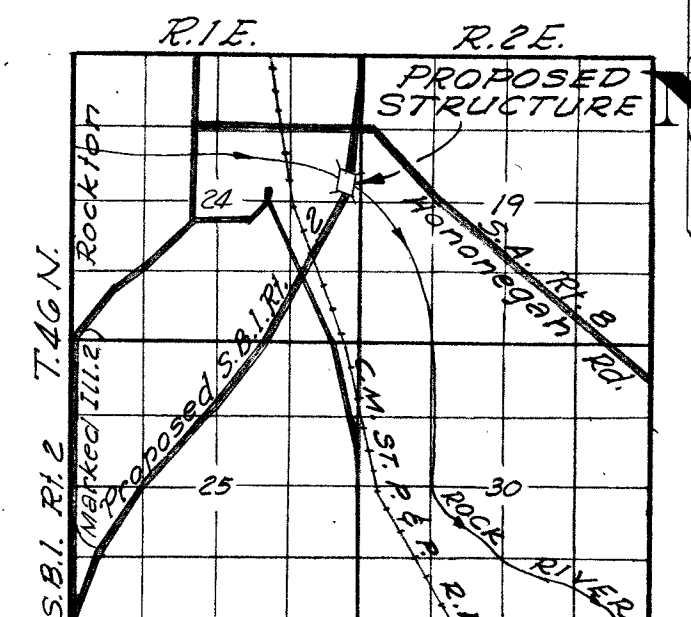
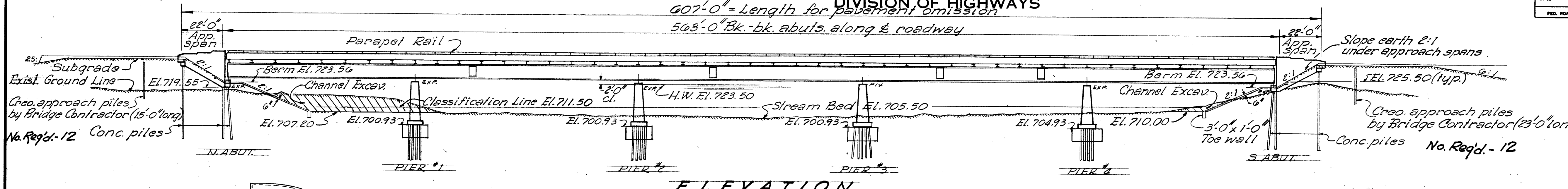


B.M. #10 Railroad spike in underground cable marker- 88 feet right Station 197+51 (South river bank) Elev. 721.64.

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
S.B.I. 2	77-1B	WINNEBAGO	29	12	16 SHEETS
F.A.					
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT: F-142(45)		



APPROACH PILE DATA

Type	Creosoted
No. Req'd.	12 @ 15'-0"
No. Req'd.	12 @ 23'-0"

V.C. DATA

P.C. Sta. 186+25 Elev. 741.50	600' v.c.	P.T. Sta. 192+25 Elev. 735.50
	-2.00%	0.00%
		P.T. Sta. 192+25 Elev. 735.50

STATION 195 + 19.14
BUILT 196 BY
STATE OF ILLINOIS
S.B.I. RT. 2 SEC. 77-1B
F.A. PROJ. F-142(45)
LOADING H2O-SIG

NAME PLATE LETTERING

See Std. 2113-1
Locate as shown on sheet #9

WATERWAY INFORMATION

Drainage Area.....1,800,000 Acres
Character.....Hilly
Required Opening (50 yr. fl.) 7200 sq. ft.
Present Opening (Upstream) 7284 sq. ft.
Proposed Opening.....7200 sq. ft.
Ordinary Water Elev.....710.70

DESIGN STRESSES

f_c = 1,400 psi Super & sub.
f_c = 75 psi Footings
f_s = 20,000 psi Reinf.
f_s = 20,000 psi Struct.
n = 10

LOADING H2O-SIG-44

TOTAL BILL OF MATERIALS - SEC. 77-1B - 2 BRIDGES

ITEM	UNIT	SUPER.	SUB.	TOTAL
** Bridge Seat Sealant	L. Sum		1	1
** Class "A" Excav. for Str.	Cu. Yds.			910
** Class "B" Excav. for Str.	Cu. Yds.			260
Cofferdam Excavation	Cu. Yds.		2,080	2,080
Cofferdams Pier #1	Each		2	2
Cofferdams Pier #2	Each		2	2
Cofferdams Pier #3	Each		2	2
Cofferdams Pier #4	Each		2	2
Class A Concrete	Cu. Yds.		828.4	828.4
Class X Concrete	Cu. Yds.	1,498.4	271.6	1,770.0
Structural Steel	Lbs.	1,224,300		1,224,300
Aluminum Handrail	Lin. Ft.	2,240		2,240
Reinforcement Bars	Lbs.	508,500	55,180	563,680
Untreated Piles	Lin. Ft.		9,420	9,420
Creosoted Piles	Lin. Ft.		456	456
Test Pile (Timber)	Each		2	2
Concrete Piles	Lin. Ft.		2,090	2,090
Test Pile (Concrete)	Each		2	2
Name Plates	Each		2	2
Slope Wall	Sq. Yds.			2,970
Protective Coat	Sq. Yds.			5,410
Seal Coat Concrete	Cu. Yds.		1062.0	1062.0

* Includes Excavation for Slopewall.
** Applies at abutments only.

GENERAL NOTES

- Coarse aggregate to be used in parapet handrails and end posts must be absolutely free of chert, flint, limonite, lignite and soft sandstone.
- The concrete floor slab shall be finished in accordance with Article 51.19 of the Standard Specifications.
- Slope wall shall be reinforced with welded wire fabric 6" x 6" mesh, weighing 58# per 100 square feet.
- Layout of slope walls may be varied to suit ground conditions in the field as directed by the Engineer.
- All reinforcement bars shall be lapped 20 diameters unless otherwise shown.
- Rivets 3/8"; Open holes 1 1/8" unless otherwise noted.
- Anchor bolts shall be set before riveting cross frames over supports.
- Permanent forms will not be permitted in forming the concrete floor.
- Roadway expansion guards shall be assembled in the shop in proper position with the ends in place and shall be left assembled for shop inspection.
- Plates shall be flame cut as provided in Article 54.5 (1) of the Standard Specifications.
- The exposed surfaces of the expansion guard shall be given two shop coats of red lead paint, the contact surfaces shall be given one coat of red lead paint. Anchor studs shall not be painted.
- Expansion guards are included in the quantity of Structural Steel. Est. wt. - 17,040 lbs.
- Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Article 56.1 to 56.5 inclusive of the Standard Specifications.
- The Contractor shall drive one concrete test pile in a permanent location at north and south abutment, west structure and one timber test pile in a permanent location at pier 3, E. structure and pier 2, W. structure as directed by the engineer before ordering the remainder of piles.

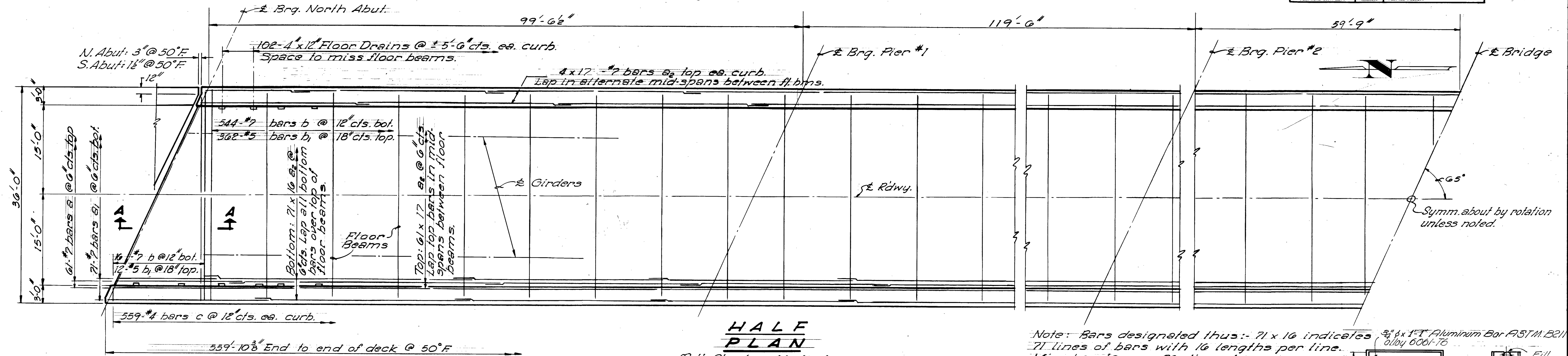
Conc. piles at abuts. & appr. berms shall be driven in holes precored thru the embankment in accordance with Art. 60.9(c) of the Std. Specs. when the penetration thru the embankment will exceed ten feet.

DESIGNED	J. M. Tzavros	EXAMINED	W. Baumann	JAN 8 1963
CHECKED	J. B. Nelson	PASSED	E. J. Shurt	
DRAWN	J. M. J.	APPROVED		
CHECKED	J. B. N.			

GENERAL PLAN & ELEVATION
F.A. PROJECT F-142(45)
ROCK RIVER
S.B.I. RT. 2 SEC. 77 - 1B
WINNEBAGO COUNTY
STATION 195 + 19.14

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

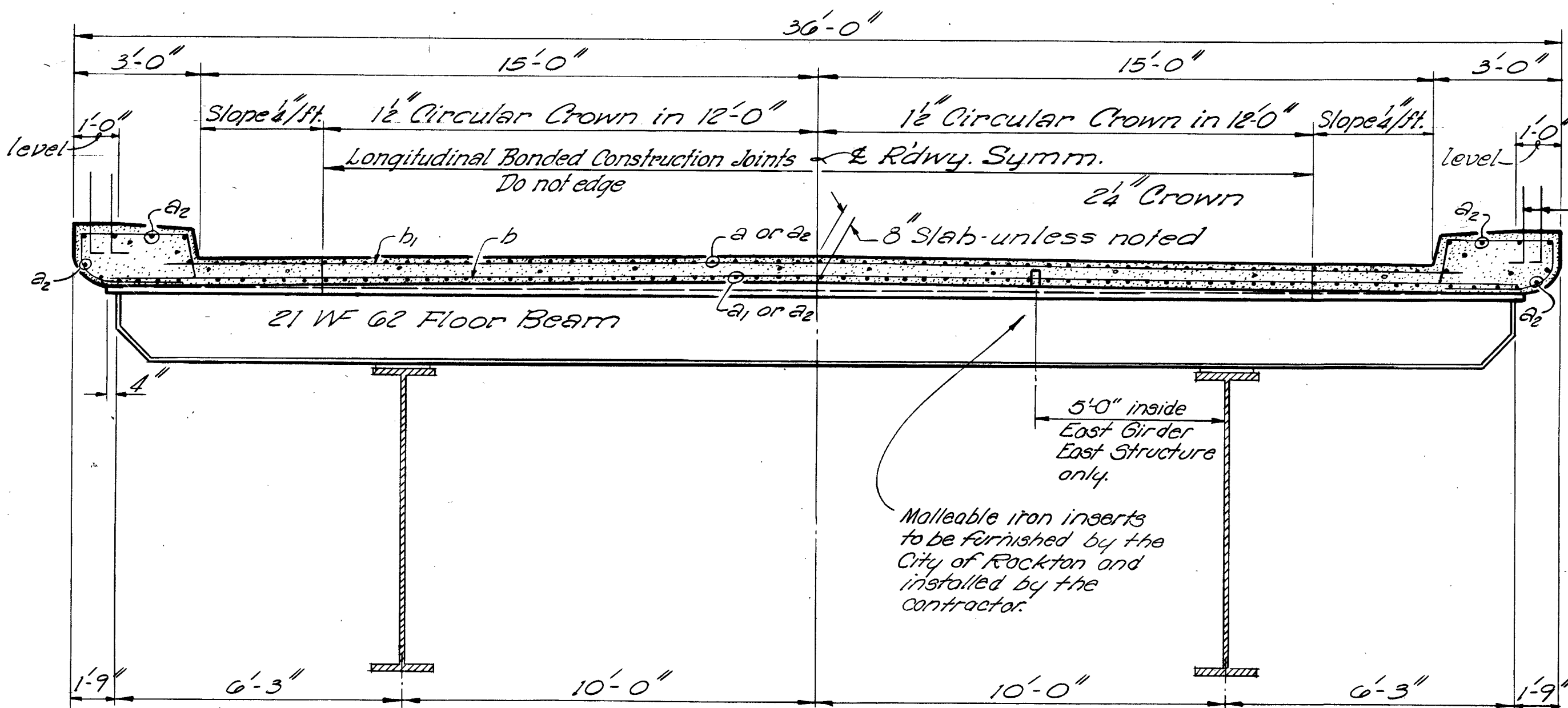
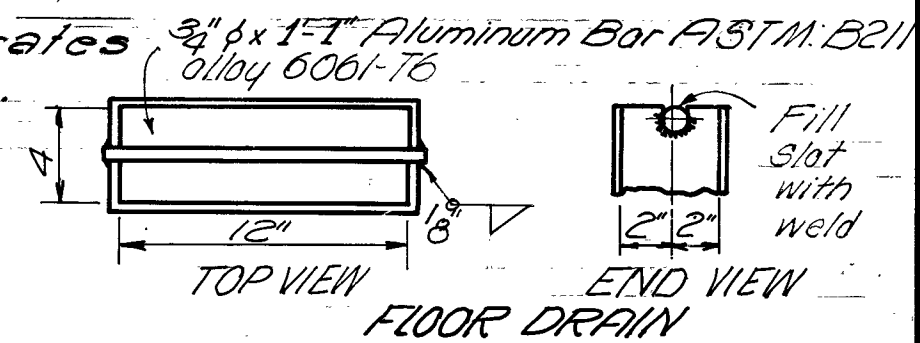
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
S.A. 2	77-1B	WINNEBAGO	29	13	16 SHEETS
FILE NO. DIV. 1		DATE	FILE NO. PROJECT		



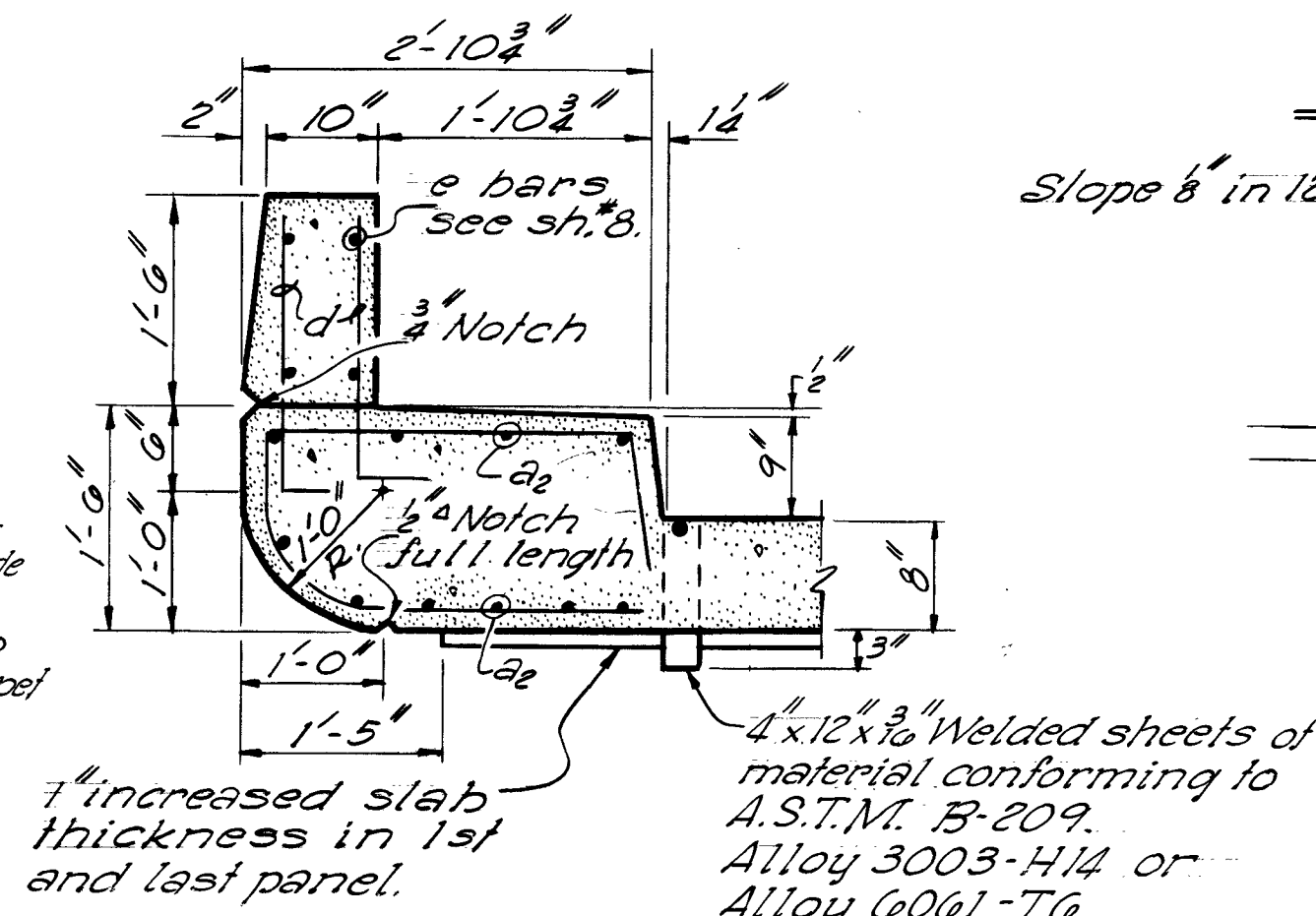
HALF PLAN
Both Structures Identical

Note: Bars designated thus: 71 x 16 indicates 71 lines of bars with 16 lengths per line. Min. bar laps = 20 diameters.

Note: Order bars a, a1, a2, b and b1 full length. Cut in field to fit skew and lapping requirements. Use remainder of bars in opposite end. Do not lap adjacent bars at the same location. For corner details, see sheet #8.

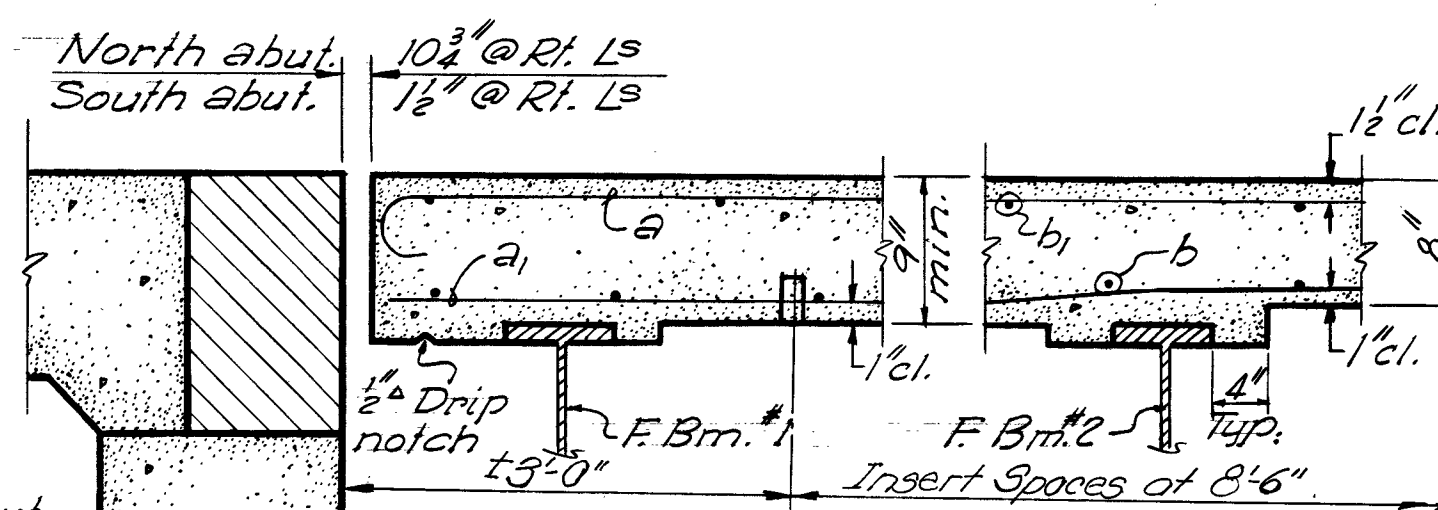


CROSS SECTION



CURB DETAILS

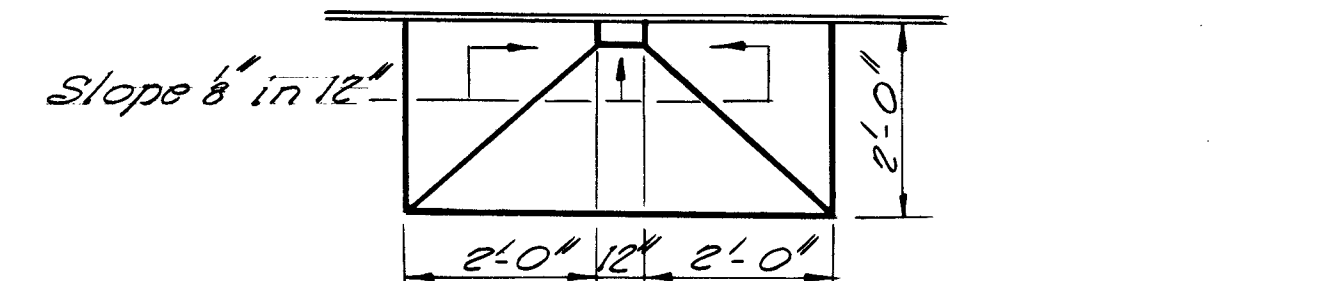
For Expansion Device Detail, see sheet #7



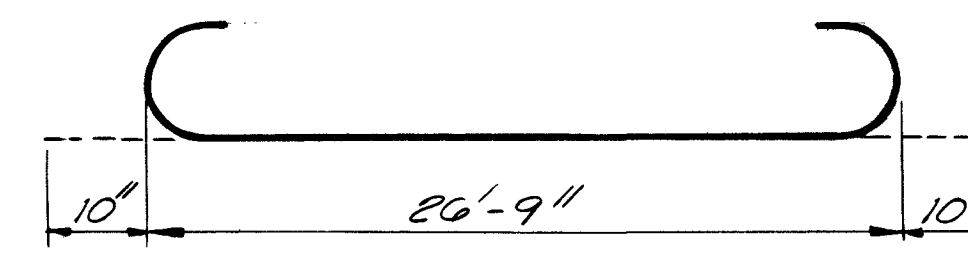
SECTION A-A

Hatched area to be poured after superstructure and approach span falsework has been removed. Bill of Material.

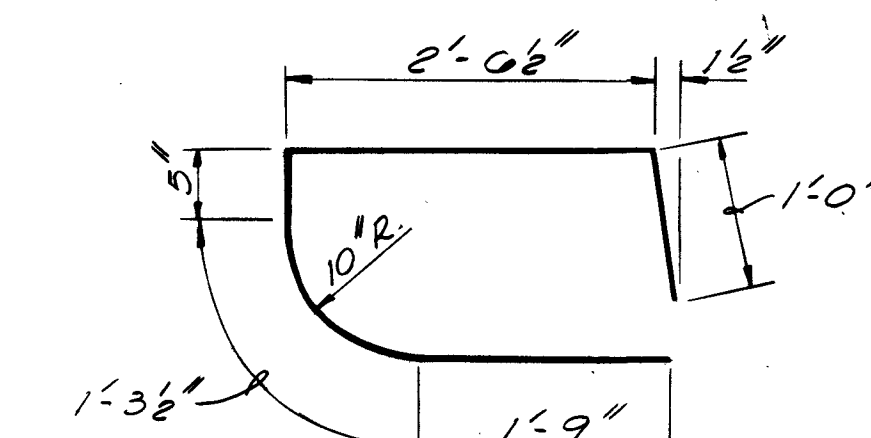
Weights of bearing assemblies (including lead plates, H.S. bolts and anchor bolts) and expansion devices are included as structural steel.
Est. Wt. Bearings.....22,050 lbs.
Est. Wt. Expansion Devices.....8,520 lbs.



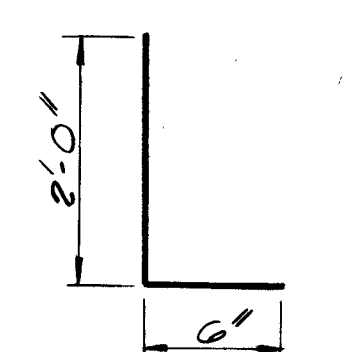
DRAIN DETAILS



BAR B



BAR C



BAR D

ONE BRIDGE
BILL OF MATERIAL

Bar No.	Size	Length	Shape
a	61 #7	28'-5"	C
a1	71 #7	37'-9"	—
a2	2,241 #7	34'-0"	—
b	560 #7	33'-0"	—
b1	374 #5	32'-0"	—
c	1,118 #4	7'-0"	U
d	2,510 #5	2'-0"	L
* e9	8 #5	15'-8"	—
* e10	308 #5	10'-9"	—
* e11	32 #5	9'-0"	—
**	Class X Conc.	Cu. Yds.	055.3
**	Reinf. Bars	Lbs.	233,640
•	Struct. Steel	Lbs.	612,180

* Used in parapet - see sheet #8.
** Totals include parapet quantities.

SUPERSTRUCTURE

ROCK RIVER
S.B.I. RT. 2 SEC. 77-1B
WINNEBAGO COUNTY
STATION 195 ± 19.14

DESIGNED J.M. Jzworoth
CHECKED J.B. Nelson
DRAWN J.M.J. J.Mullenix
CHECKED J.B.N.

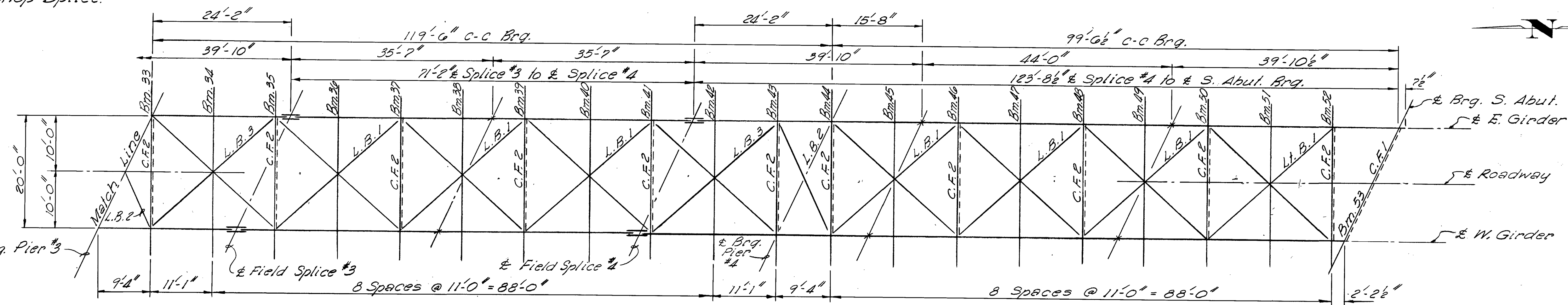
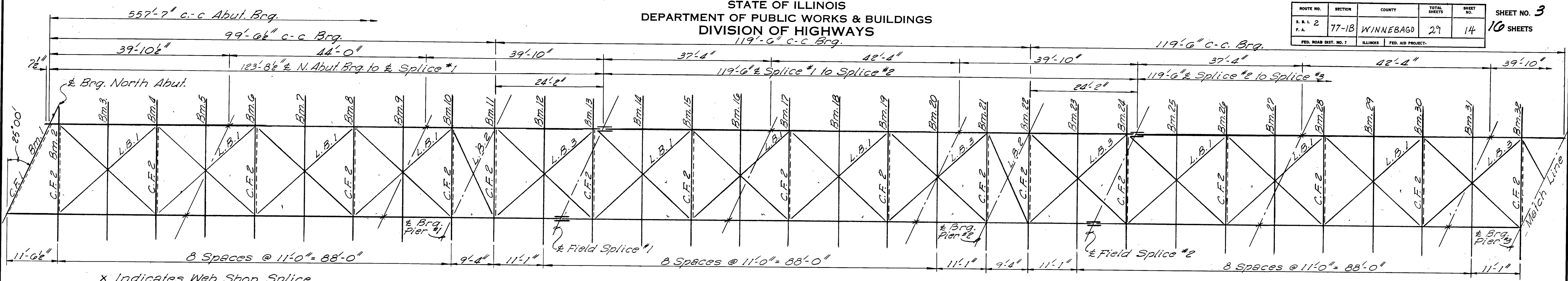
EXAMINED W.C. Baumann
PASSED E.P. Shultz
APPROVED [Signature]

STANDARD FILLET DETAIL

After all structural steel has been erected, elevations of the top flanges of the floor beams shall be taken at a point over the main girders. These elevations subtracted from the "Grade Elevation Adjusted for Dead Load Deflection" shown on sheet #10 equals the fillet heights "t".

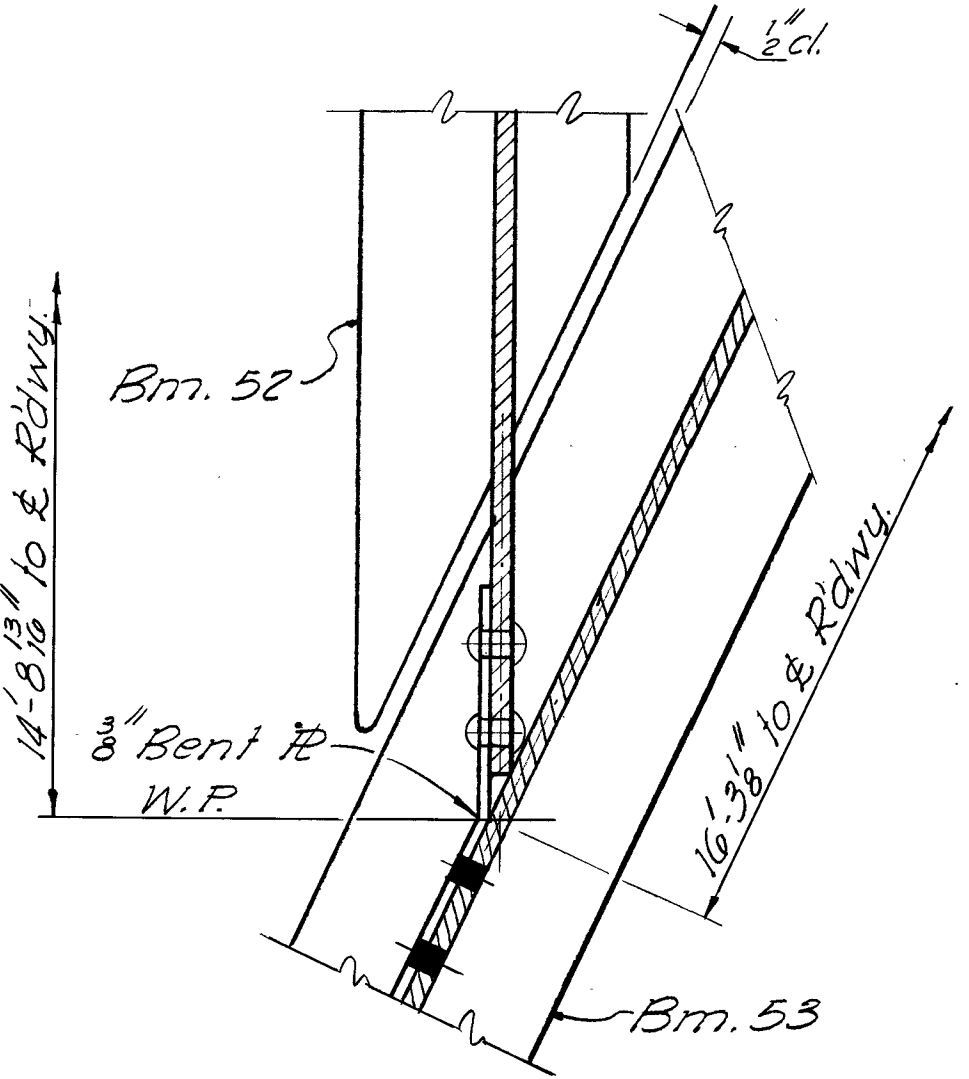
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3 10 SHEETS
S.B.I. 2	77-1B	WINNEBAGO	29	14	
F.A.					

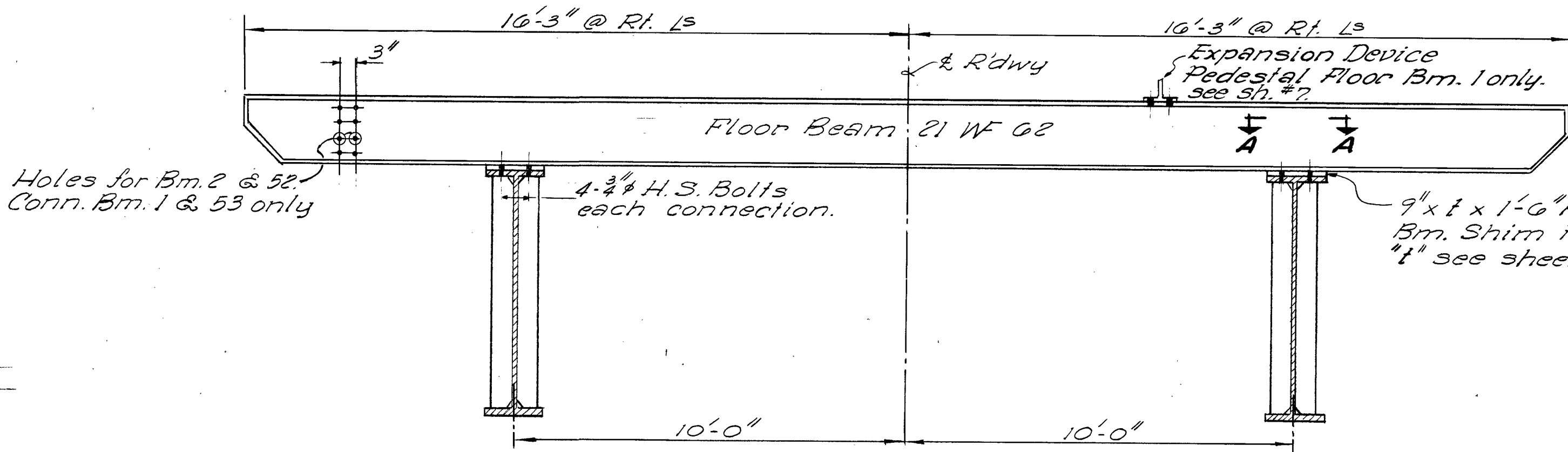


FRAMING PLAN

Both Structures Identical
All structural steel shall conform to A-36 steel

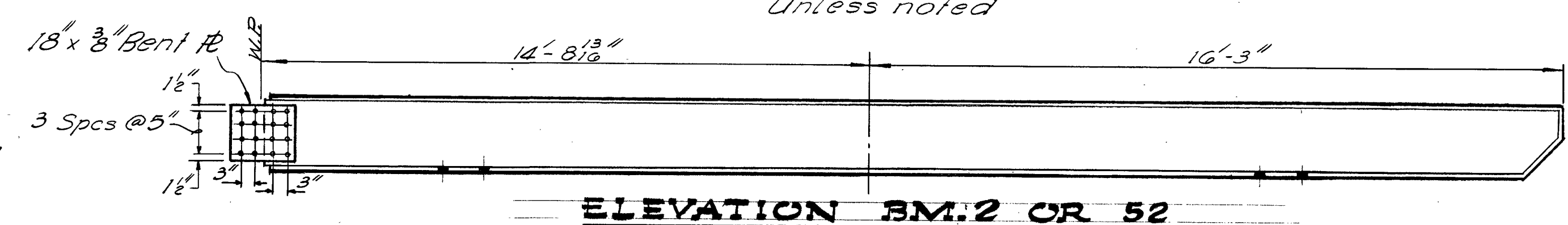


BM. 52 CONNECTION
Bm. 2 similar, but opposite

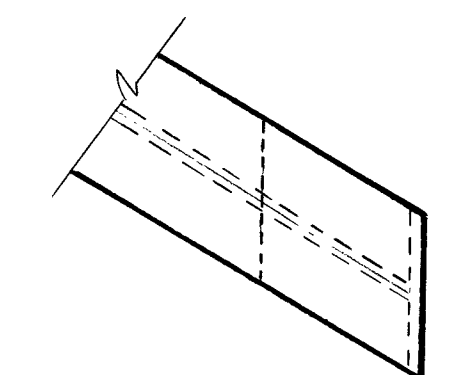


TYPICAL CROSS SECTION

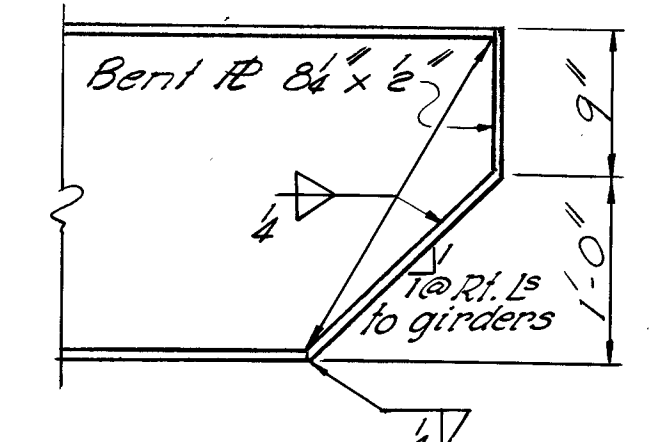
Unless noted



ELEVATION BM. 2 OR 52



**PLAN VIEW
END OF BEAM**
Floor Beams 1 & 53

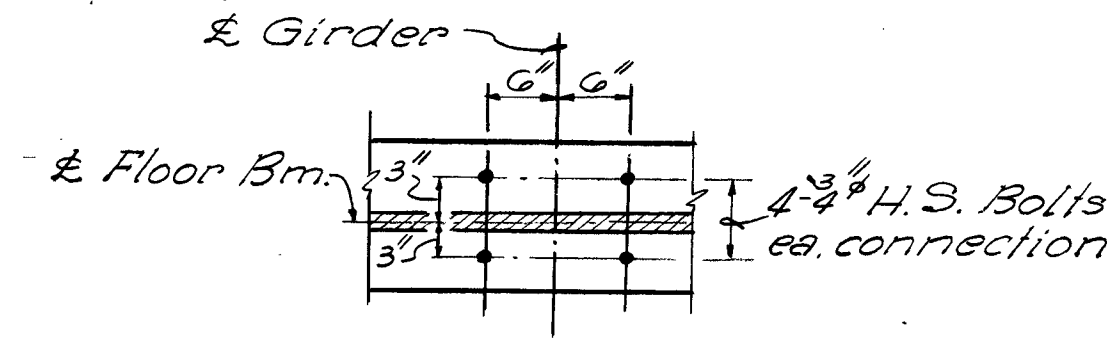


END OF BMS.

*** STEEL ELEVATIONS**

Location	Floor Bms 1, 2, 52 & 53	Floor Bms 3 thru 31
Elev. Top of Floor Bm.	734.57	734.65
Elev. Top of Girder Web	732.69	732.69

Piers & Splices included.
* All Girders without deflection.



SEC. A-A

STRUCTURAL STEEL LAYOUT

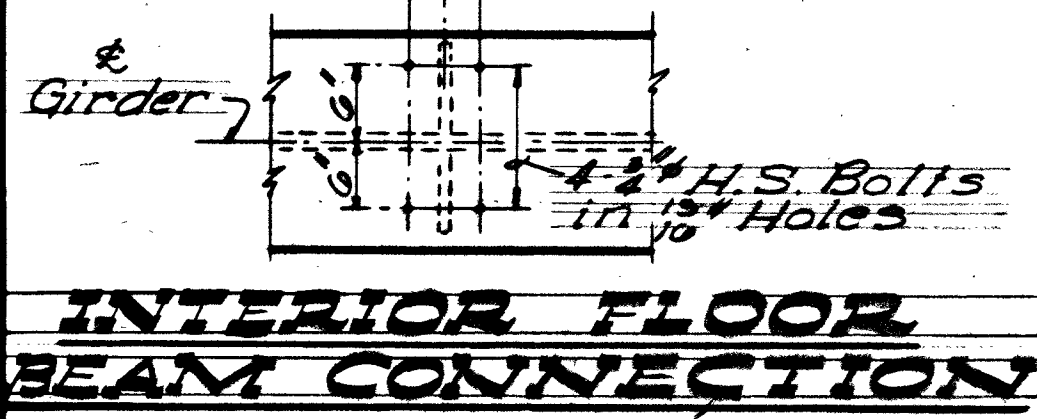
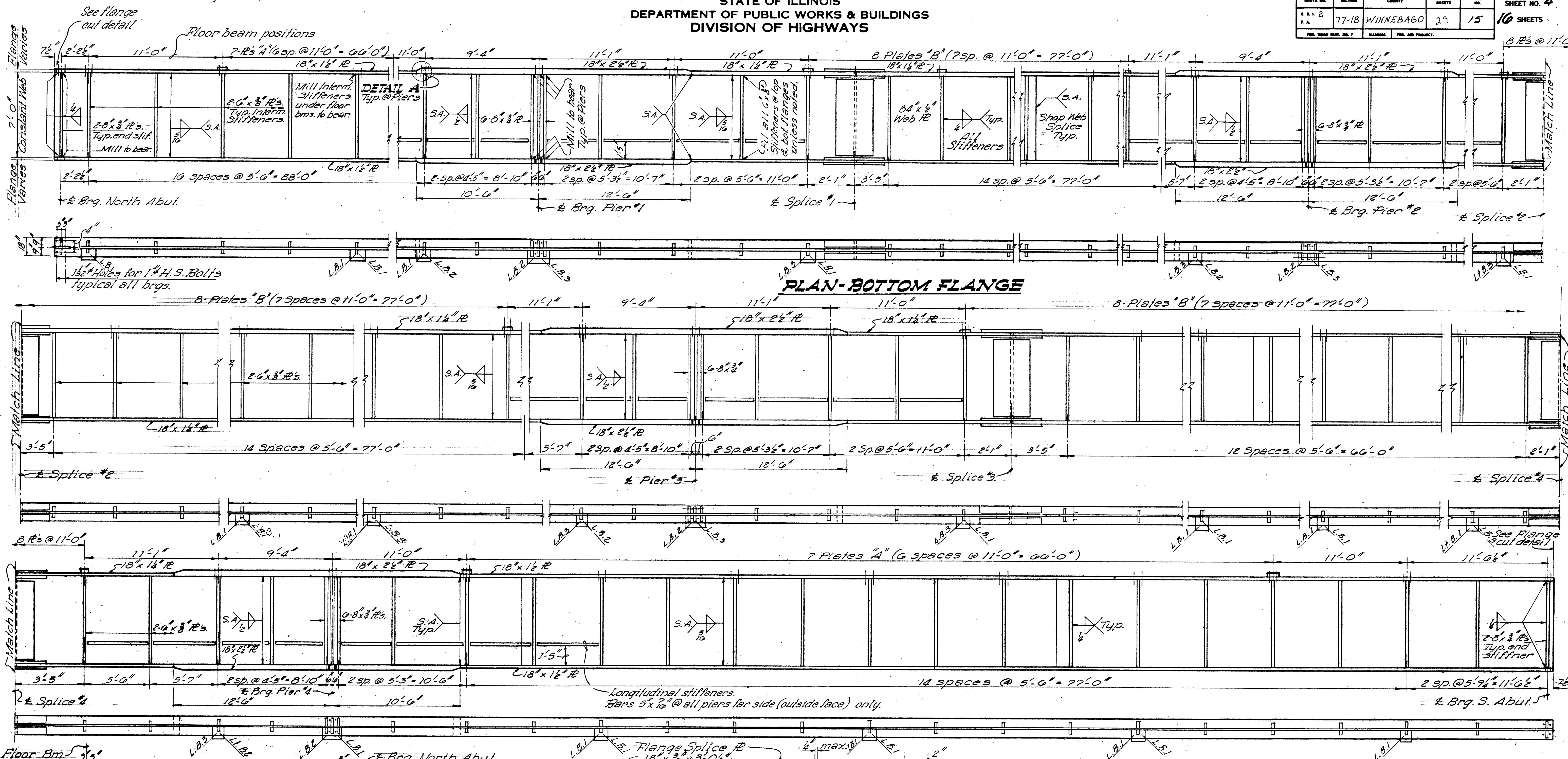
**ROCK RIVER
S.B.I. RT. 2 SEC. 77 - 1B
WINNEBAGO COUNTY
STATION 195 ± 19.14**

DESIGNED	J. M. Jyamoch	EXAMINED	H. E. Baumann ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
CHECKED	J. B. Mullerix	PASSED	J. E. [Signature]
DRAWN	J. M. J.	APPROVED	J. E. [Signature] CHIEF HIGHWAY ENGINEER
CHECKED	J. B. N.		

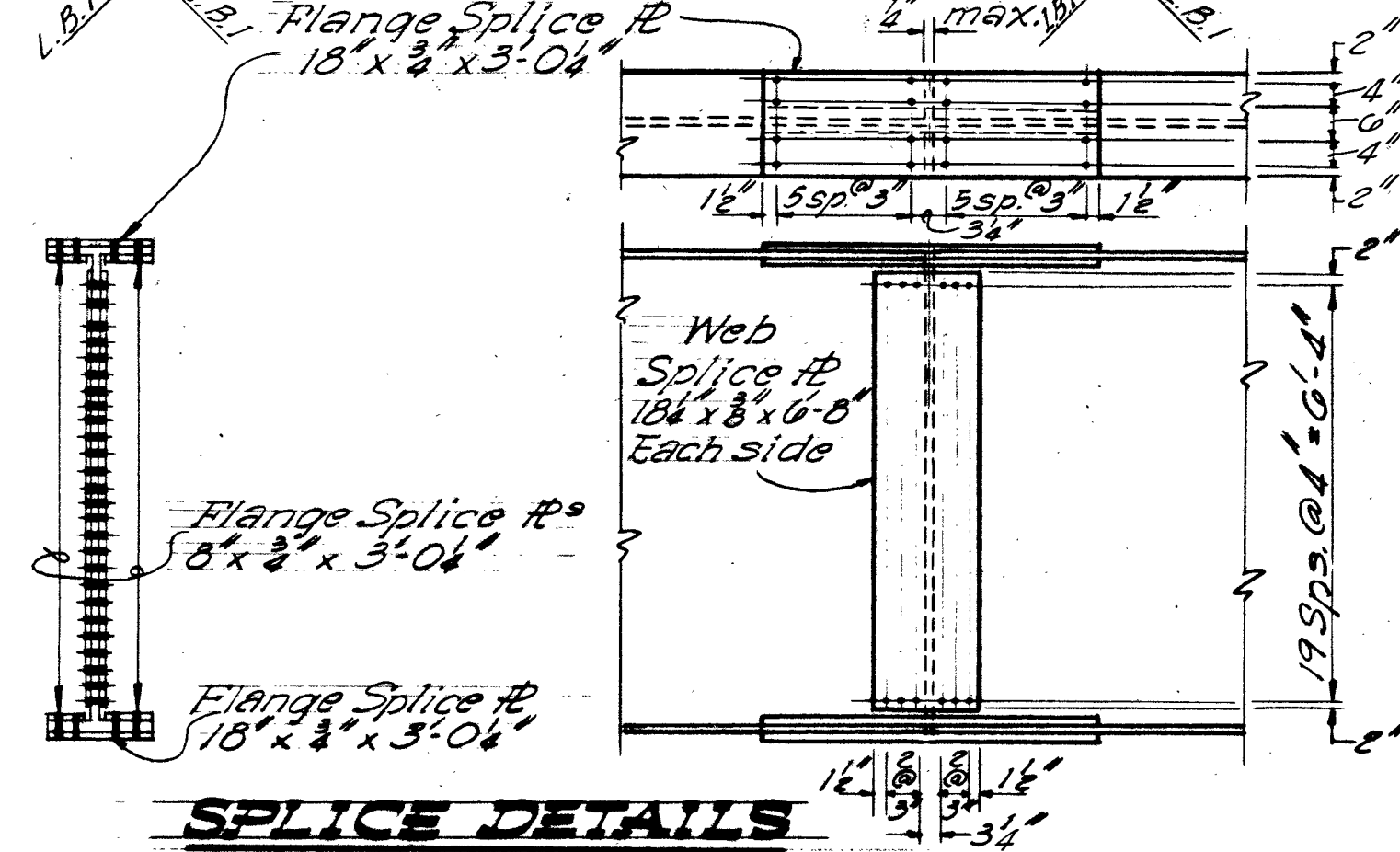
JAN 8 1963

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

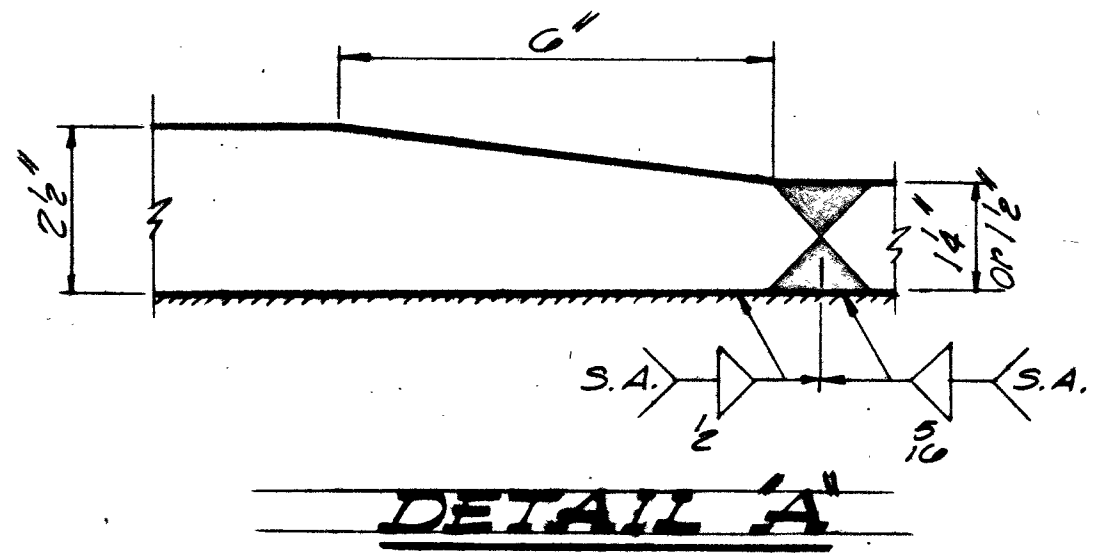
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 2	77-1B	WINNEBAGO	29	15
P.A.		ILLINOIS	10 SHEETS	
PUB. ROAD DIST. NO. 7		ILLINOIS	PUB. ROAD PROJECT	



FLOOR BEAM SHIM #S A & B
 Plate A 9x1x1'-0"
 Plate B 9x1x1'-0"
 See sheet #3 for details



Note: For additional details, see sheets #3 and #5



DESIGNED J. M. Jyavooch
 CHECKED J. B. Muller
 DRAWN J. M. J.
 CHECKED J. B. N.

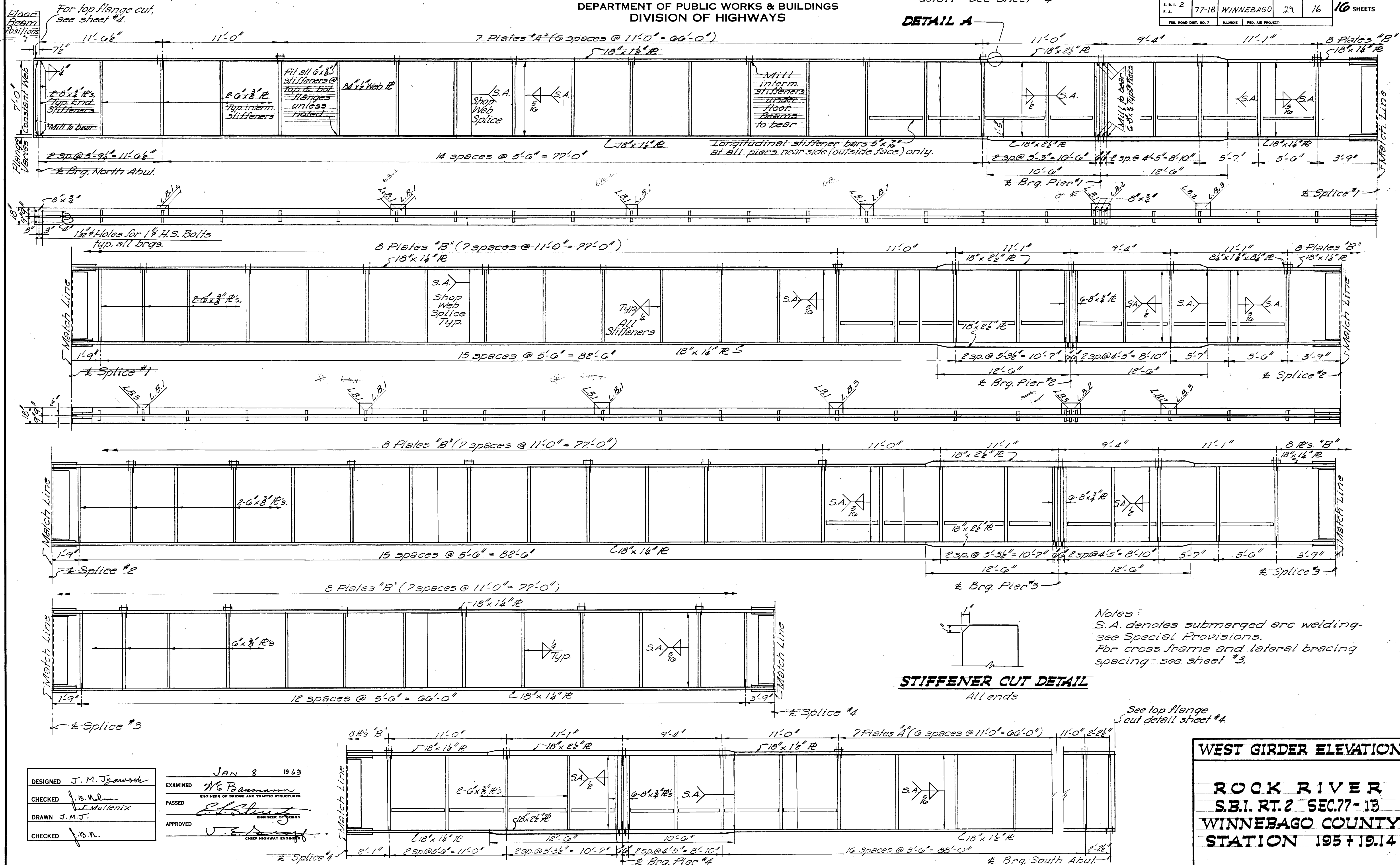
JAN 8 1963
 EXAMINED W. G. Baummann
 PLANNED E. J. Sherry
 APPROVED V. F. [Signature]

EAST GIRDER ELEVATION
 ROCK RIVER
 S.B.I. RT. 2 SEC. 77 - 1B
 WINNEBAGO COUNTY
 STATION 195 + 19.14

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

Note: For detail "A" and Splice detail - see sheet #4

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
S.B.I. 2	77-18	WINNEBAGO	29	16	10
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:			



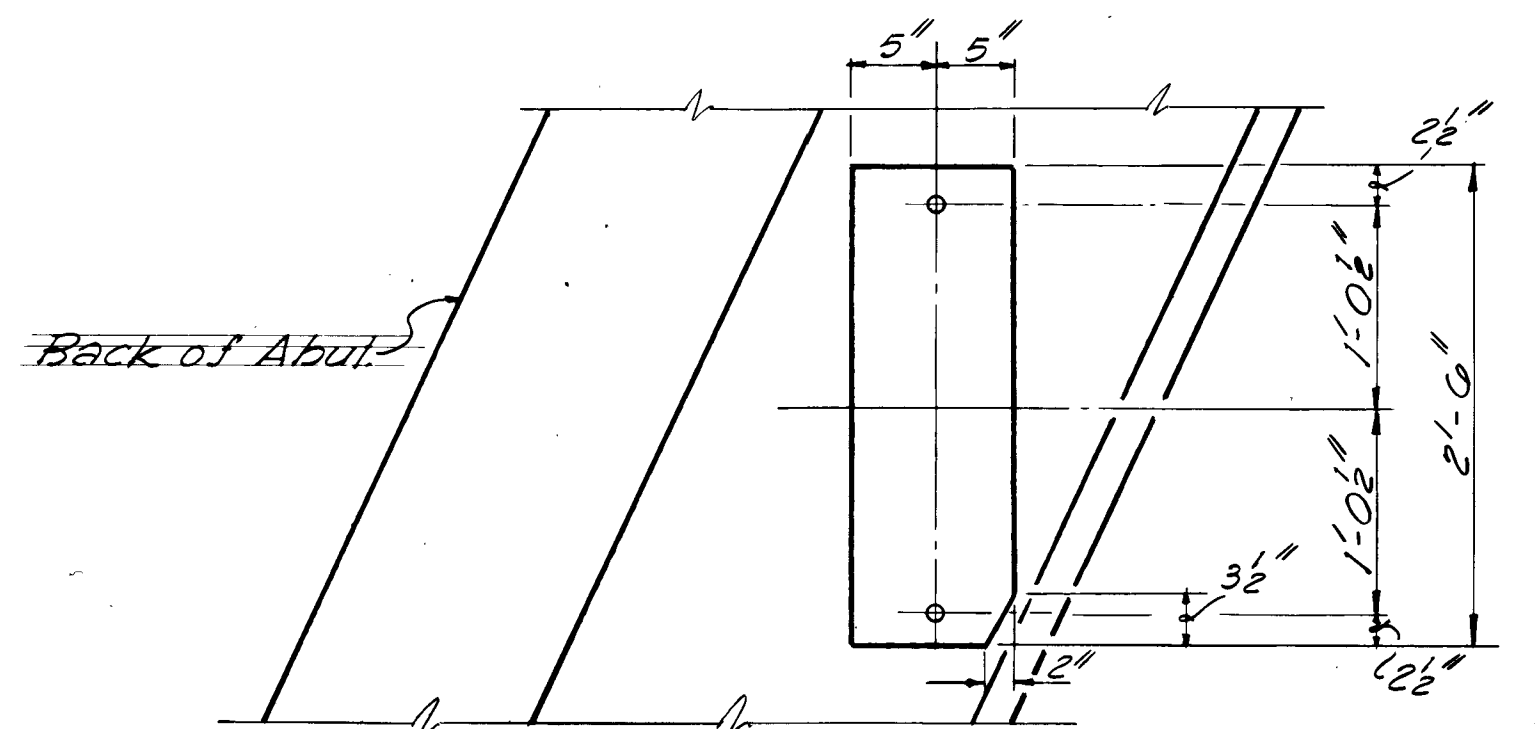
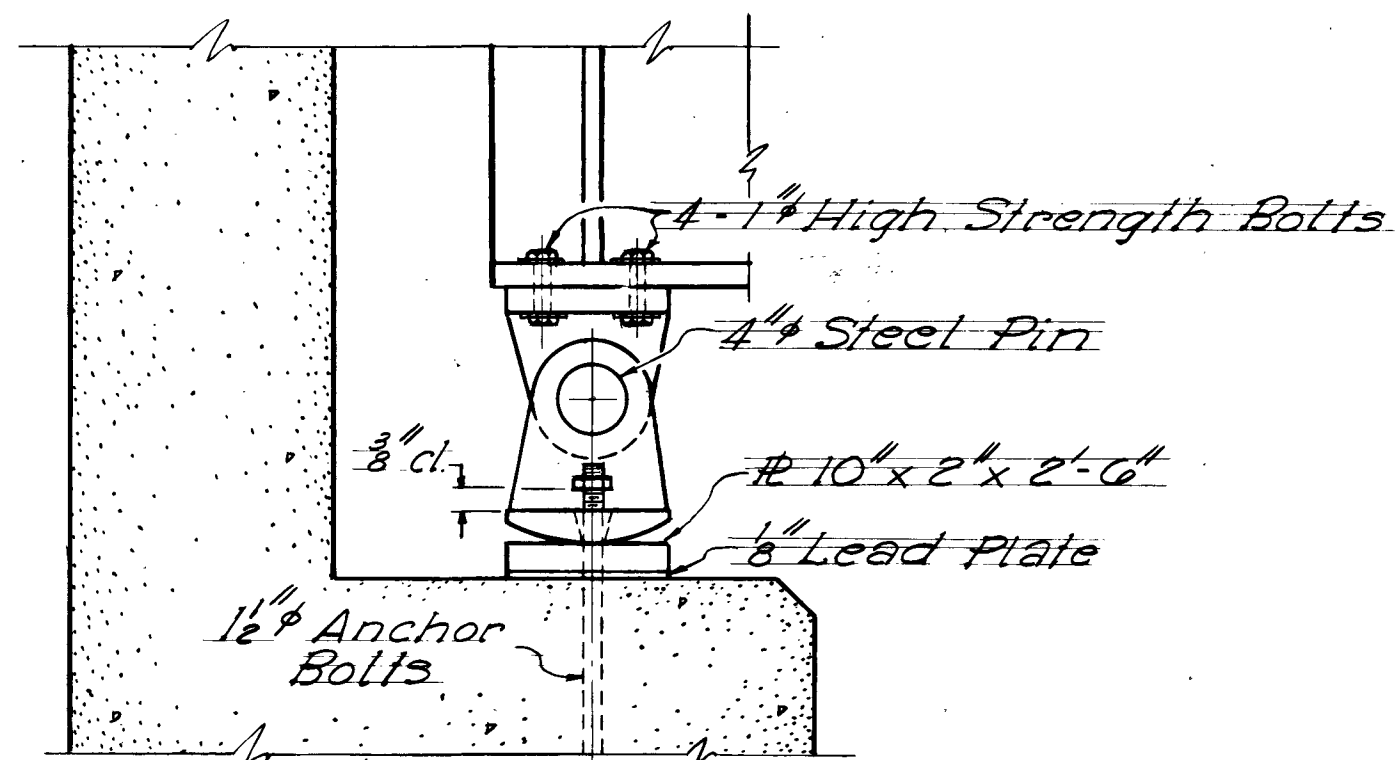
DESIGNED J. M. J. GAWOOL
CHECKED J. B. NELSON
DRAWN J. M. J.
CHECKED J. B. N.

JAN 8 1963
EXAMINED W. BAUMANN
PASSED E. BLUMENTHAL
APPROVED J. E. ...
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
ENGINEER OF DESIGN
CHIEF HIGHWAY ENGINEER

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

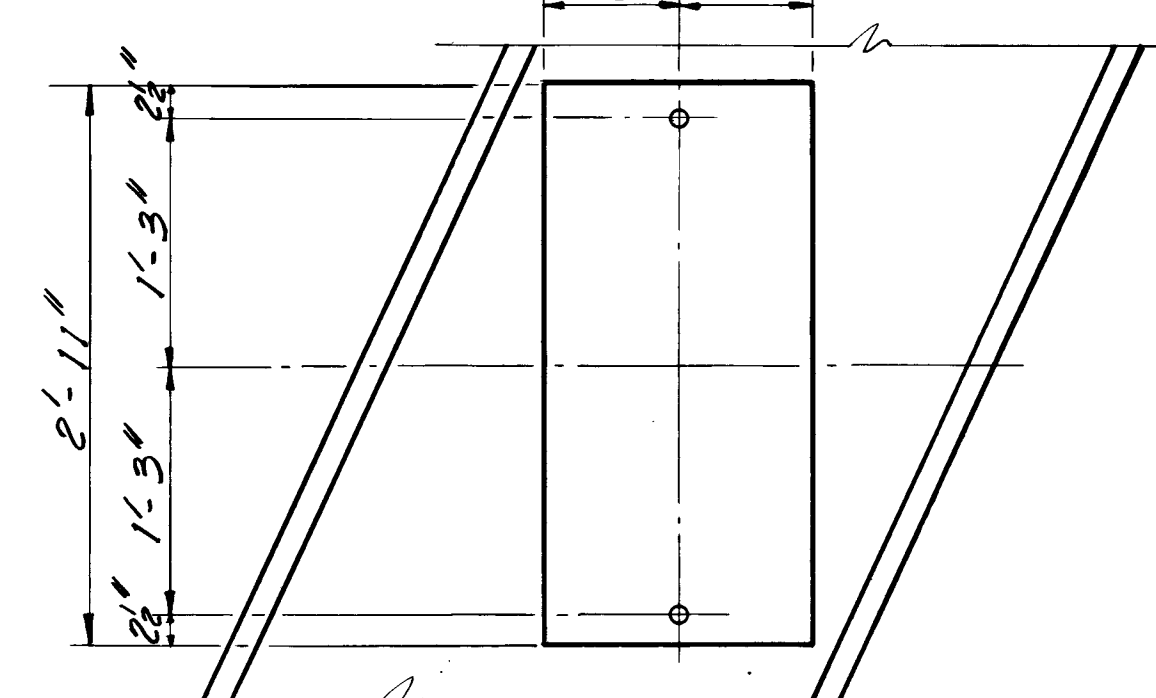
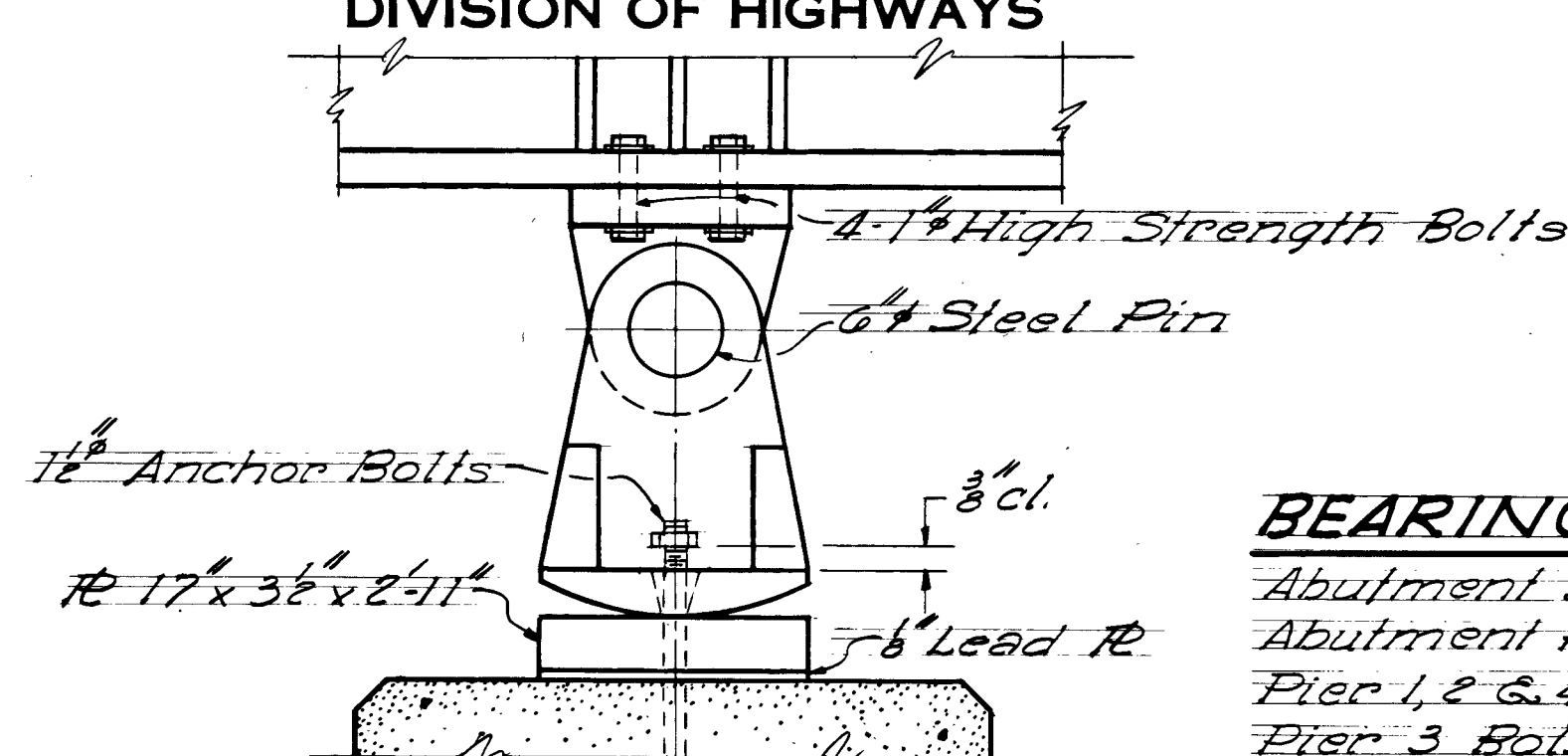
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
A.R.L. 2	77-1B	WINNEBAGO	29	17

SHEET NO. 6
16 SHEETS



PLAN & ELEV. @ ABUTS.

Note:
All pins are Standard Steel Pins with Hexagon recessed Pin Nuts.



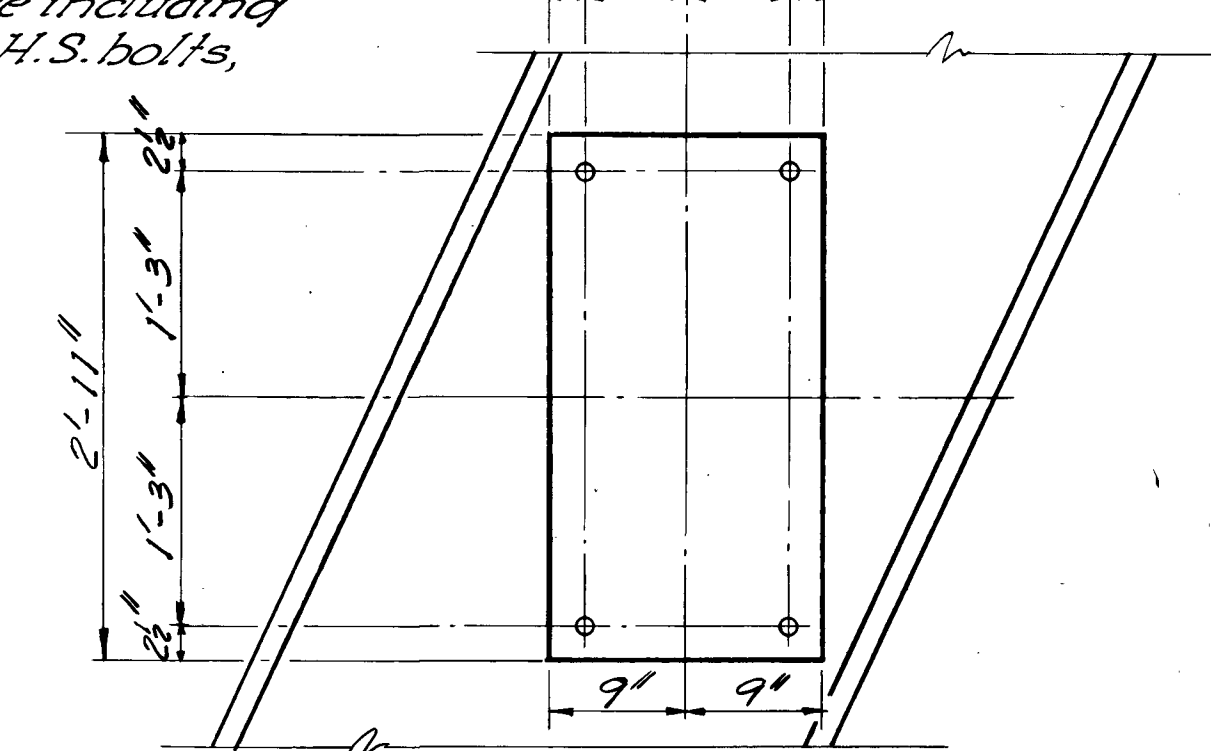
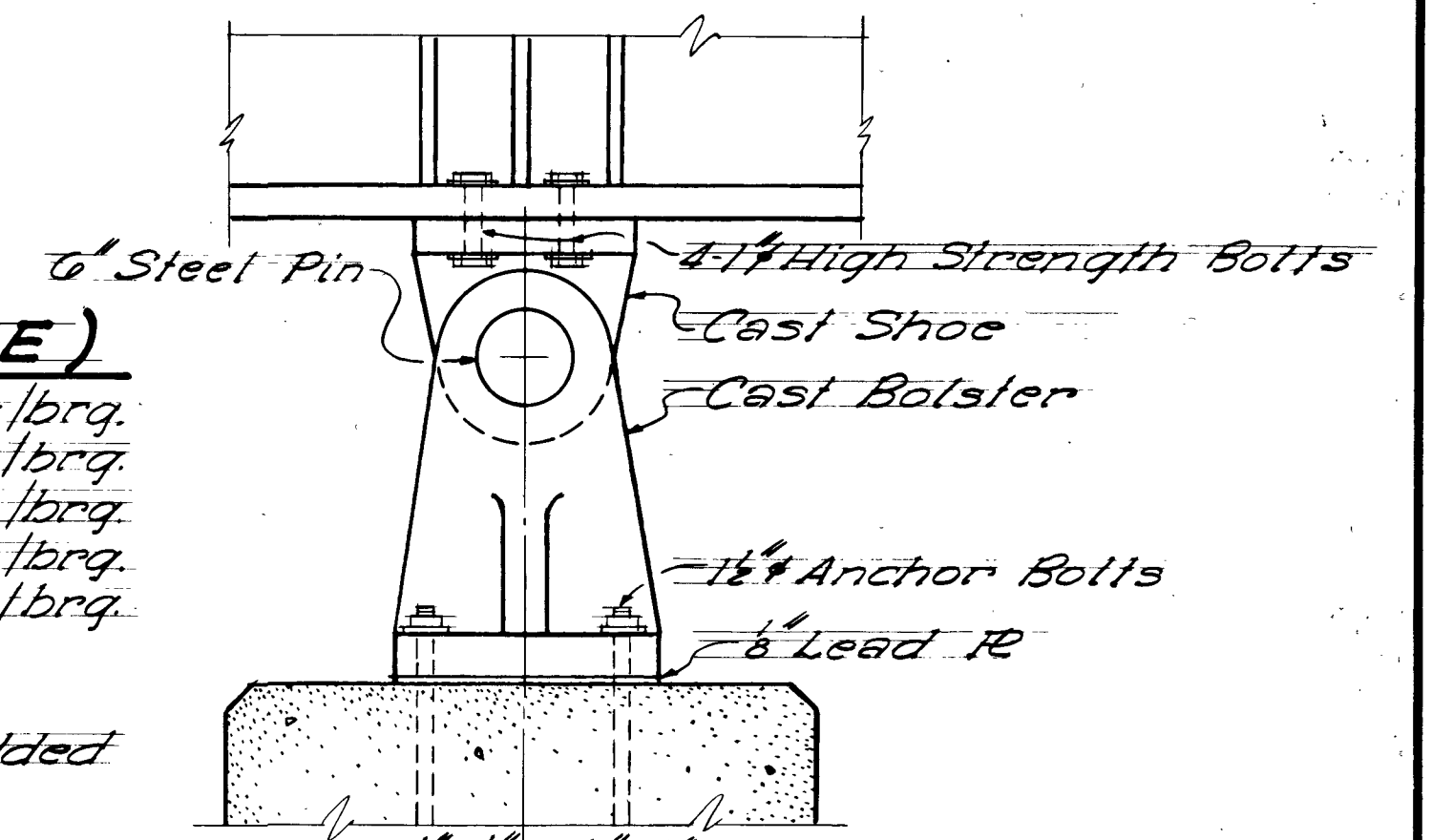
PLAN & ELEV. @ PIERS 1, 2 & 4

BEARING LIST (ONE BRIDGE)

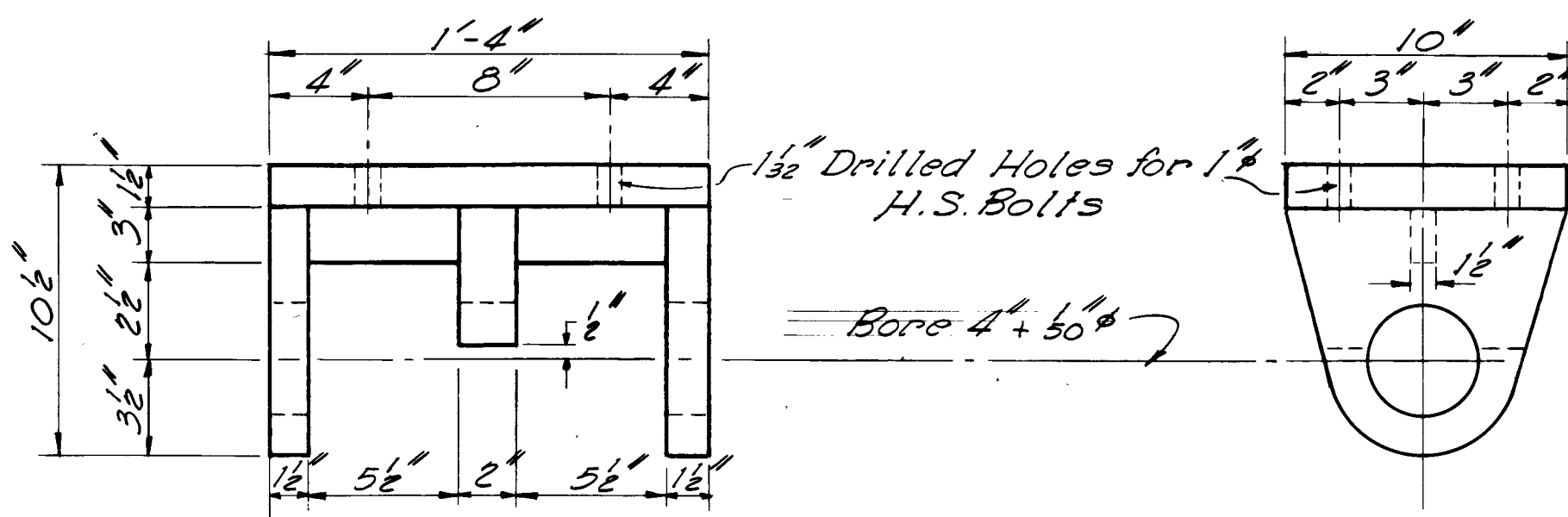
Abutment Shoes	4	Req'd. 160 lbs/brg.
Abutment Rockers	4	Req'd. 320 lbs/brg.
Pier 1, 2 & 4 Rockers	6	Req'd. 1,120 lbs/brg.
Pier 3 Bolsters	2	Req'd. 1,400 lbs/brg.
Pier Shoes	8	Req'd. 400 lbs/brg.

Note: Anchor bolts shall be imbedded a minimum of 1'-3" in concrete.

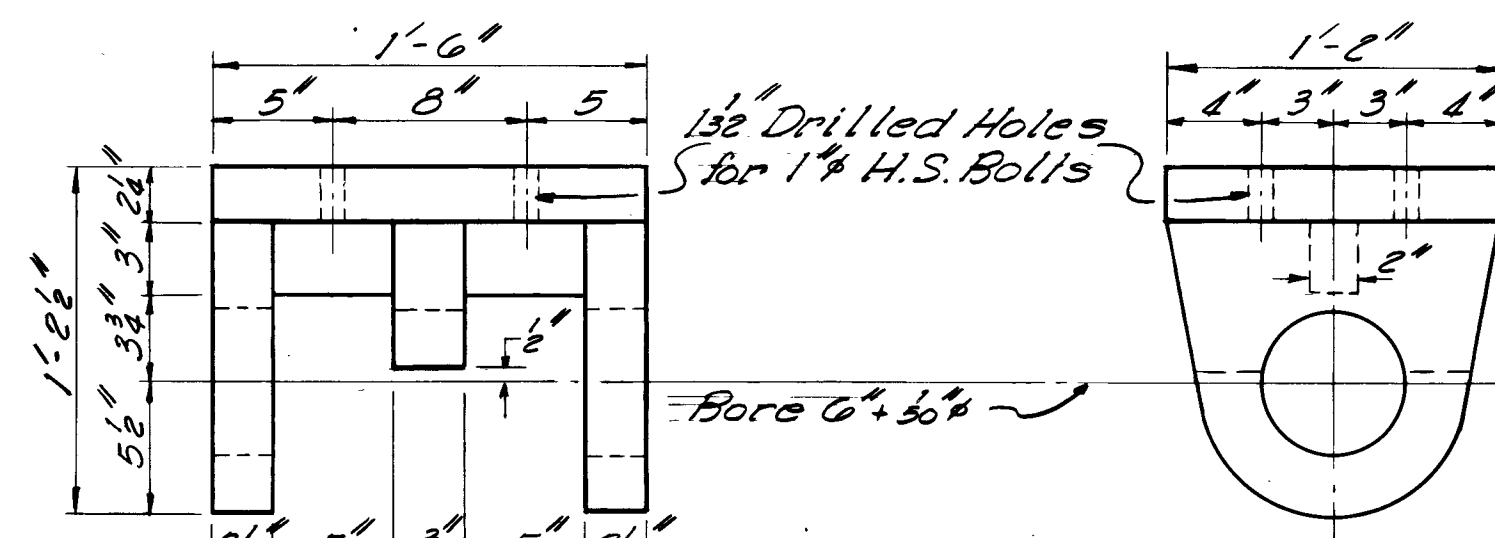
Total quantity of bearings for one bridge including castings, lead plates, bottom plates, H.S. bolts, pins and anchor bolts = 22,050 lbs.



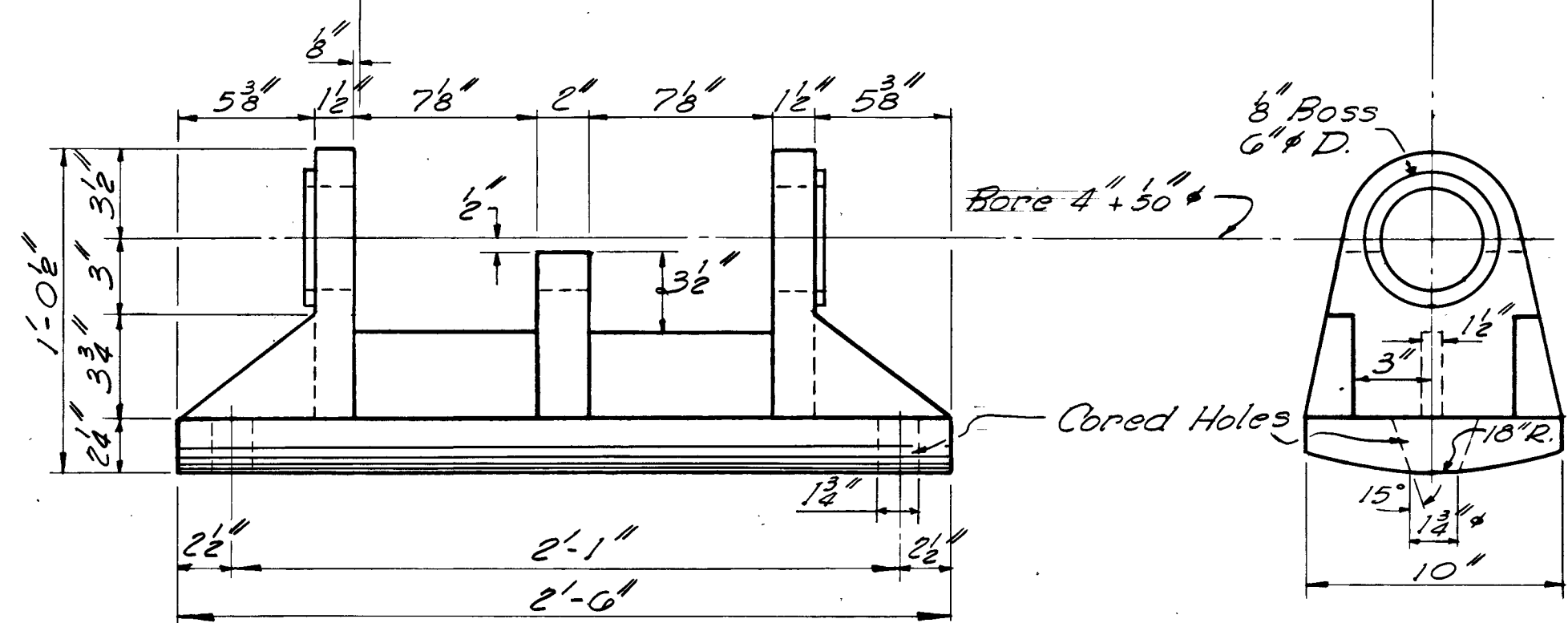
PLAN & ELEV. @ PIER 3



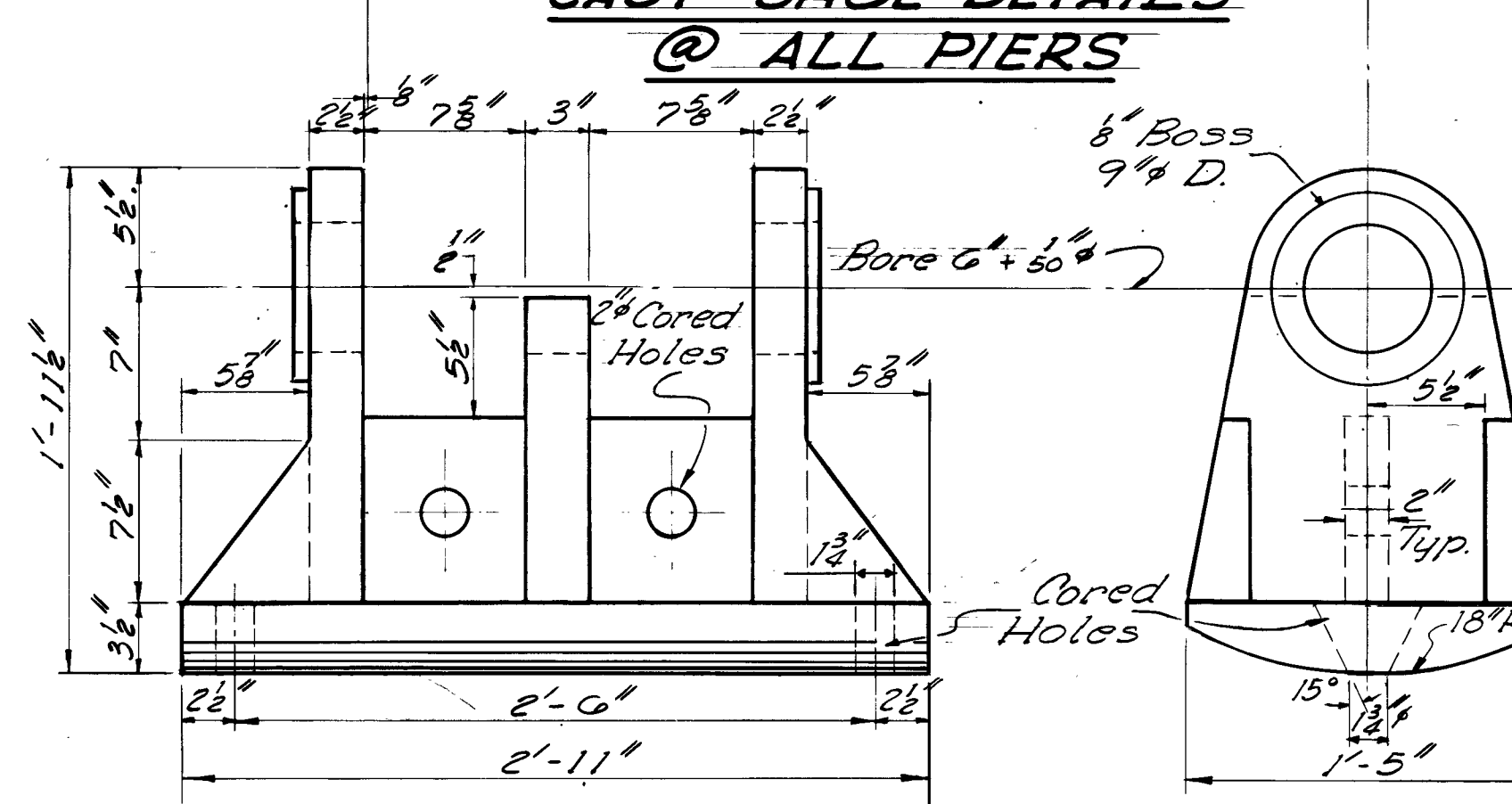
CAST SHOE DETAILS @ ABUTS.



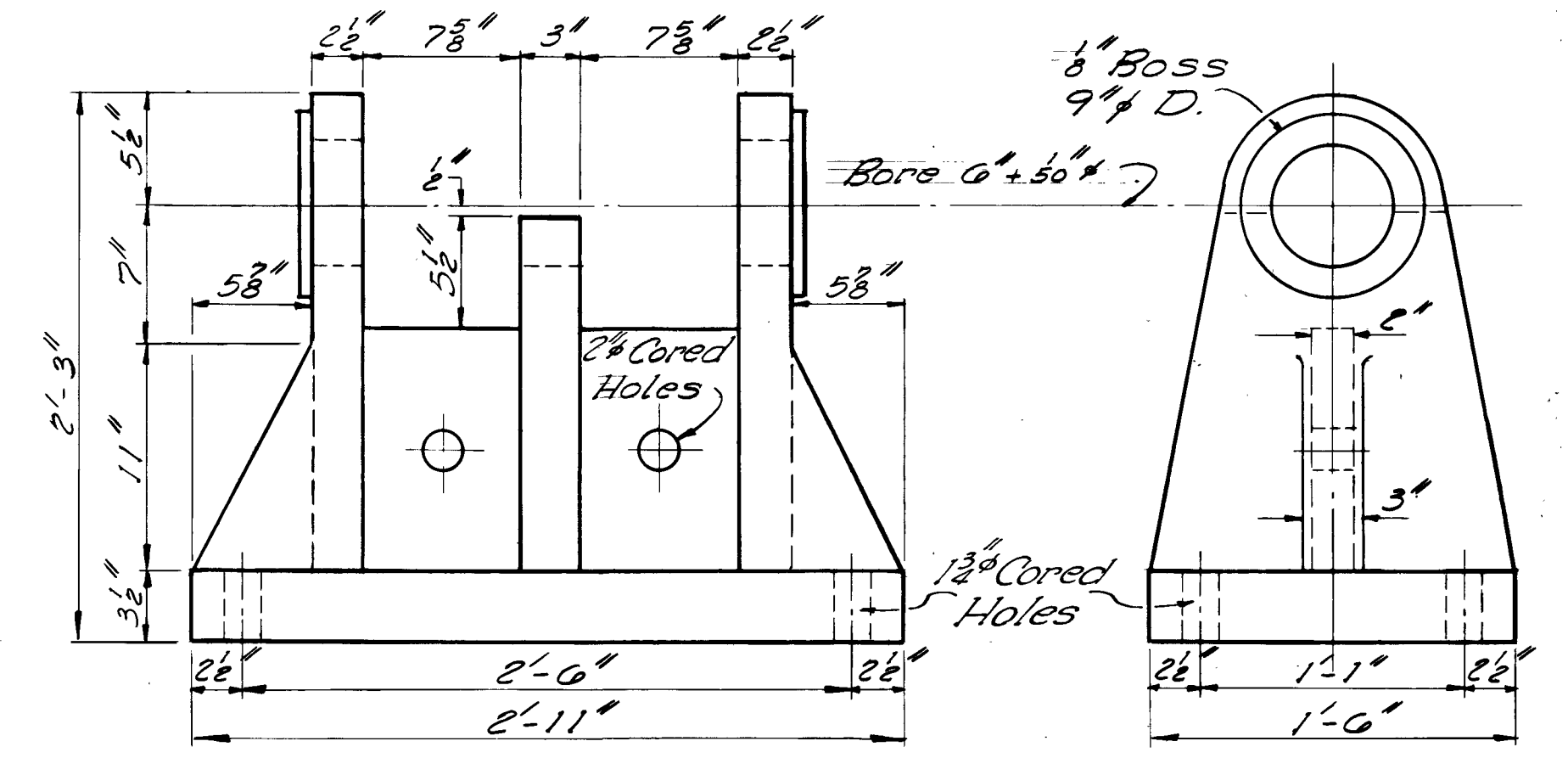
CAST SHOE DETAILS @ ALL PIERS



CAST ROCKER DETAILS @ ABUTS.



CAST ROCKER DETAILS @ PIERS 1, 2 & 4



CAST BOLSTER DETAILS @ PIER 3

BEARING DETAILS

ROCK RIVER
S.B.I. RT. 2 SEC. 77-1B
WINNEBAGO COUNTY
STATION 195 + 19.14

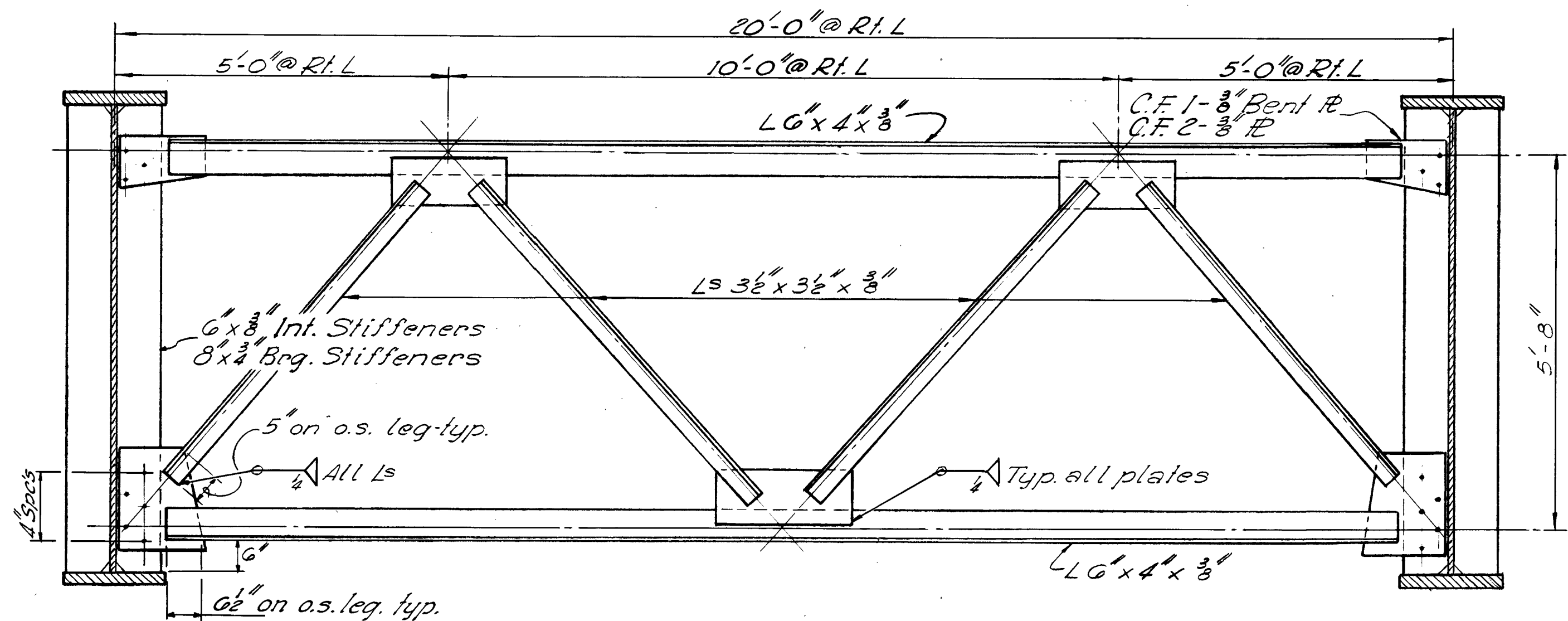
DESIGNED	J. M. Tjarnosh
CHECKED	J. B. Nelson J. M. J. J. Mullerix
DRAWN	
CHECKED	J. B. N.

EXAMINED	W. E. Baummann ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED	R. S. Stewart ENGINEER OF DESIGN
APPROVED	J. E. ... CHIEF HIGHWAY ENGINEER

JAN 8 1963

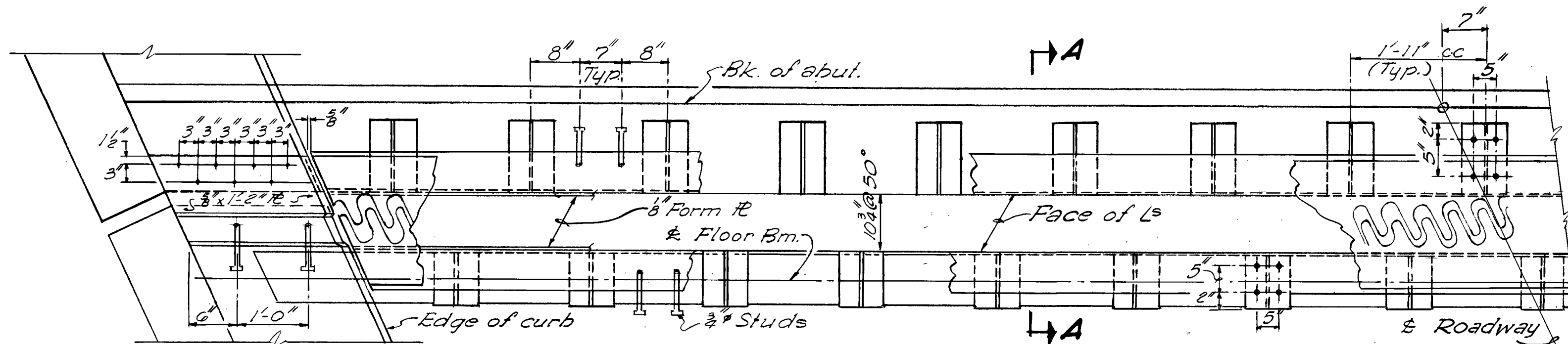
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 7
S. B. 1. 2	77-1B	WINNEBAGO	29	18	10 SHEETS
F. A.					
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT.			

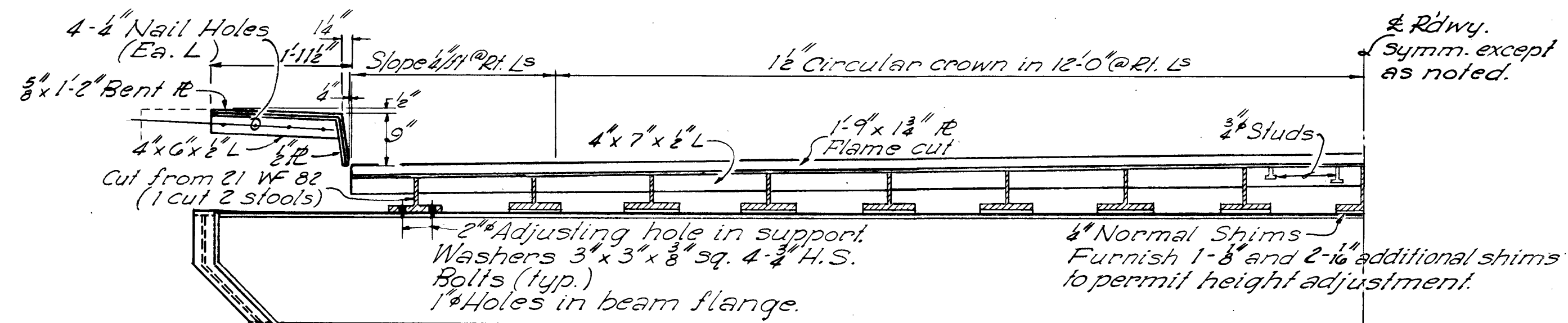


CROSS FRAME DETAILS

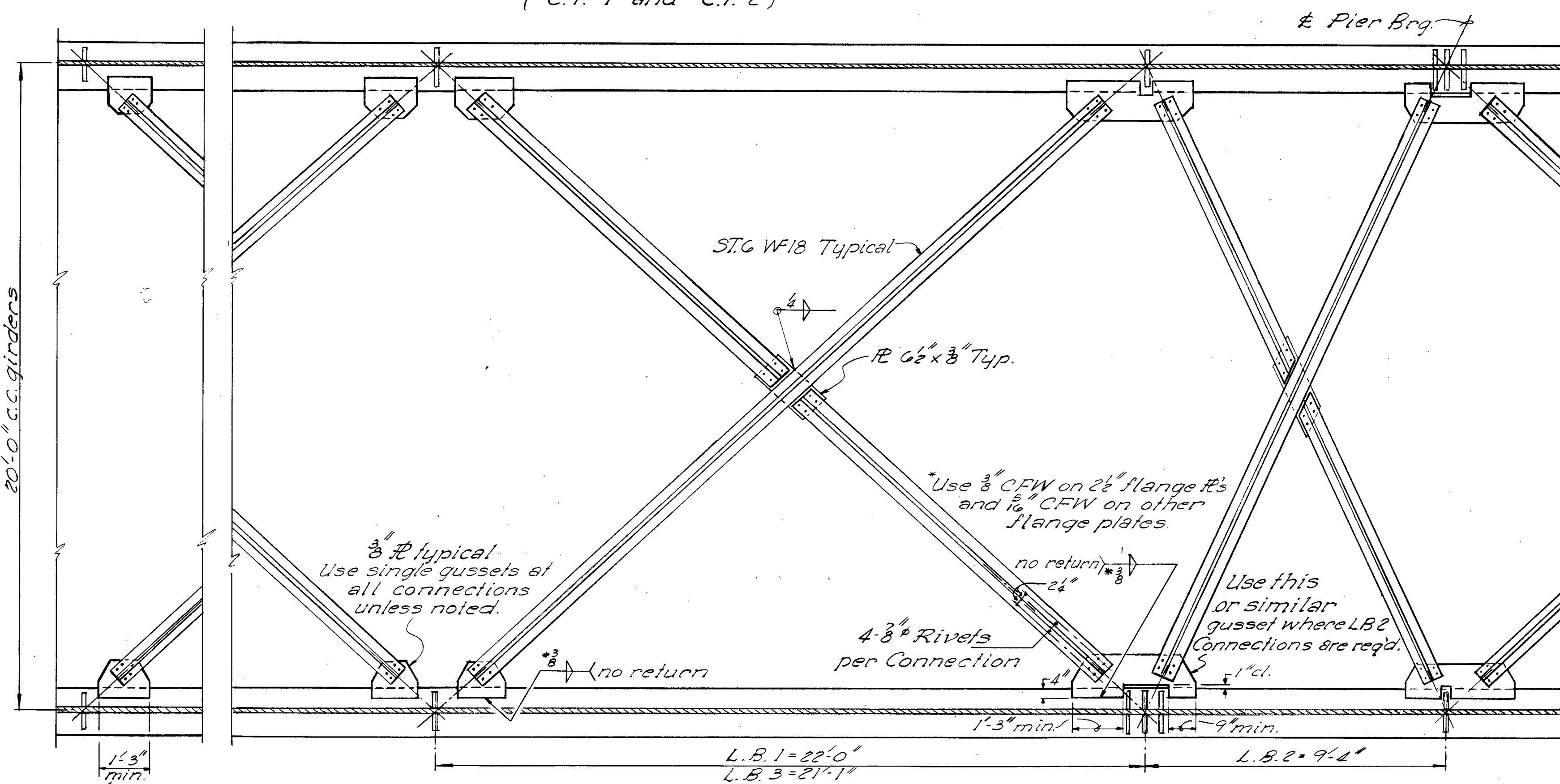
(C.F. 1 and C.F. 2)



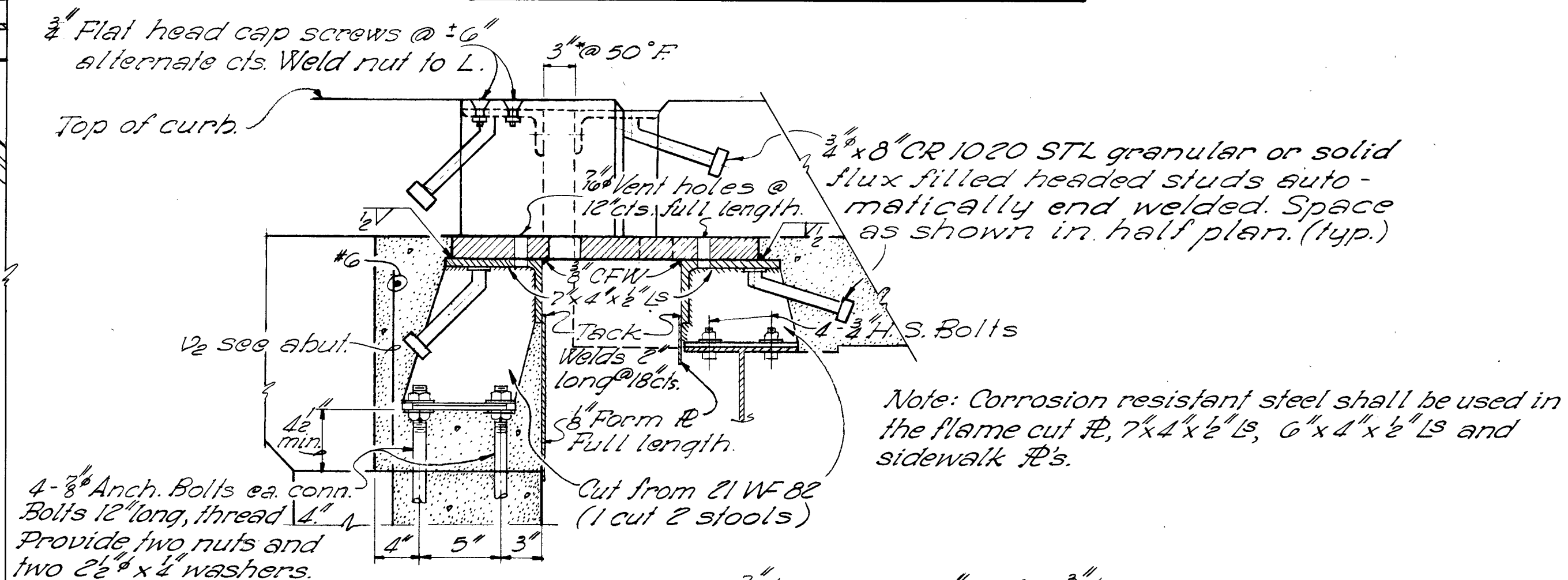
HALF PLAN - EXPAN. DEVICE @ N. ABUT.



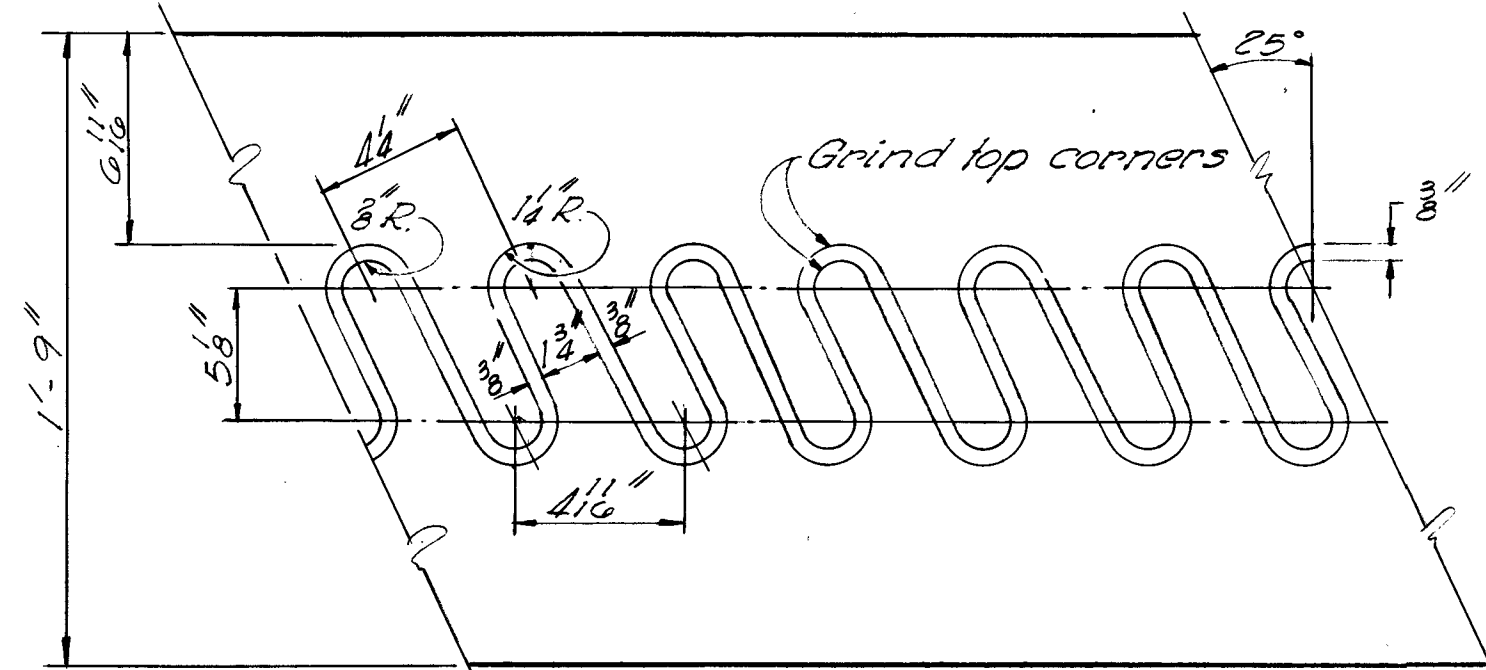
HALF ELEVATION @ RT. L



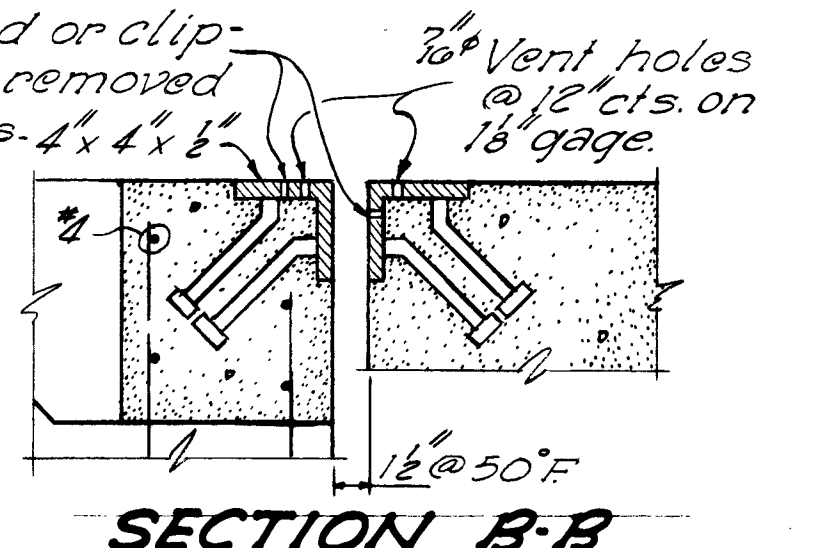
LATERAL BRACING DETAILS



SECTION A-A



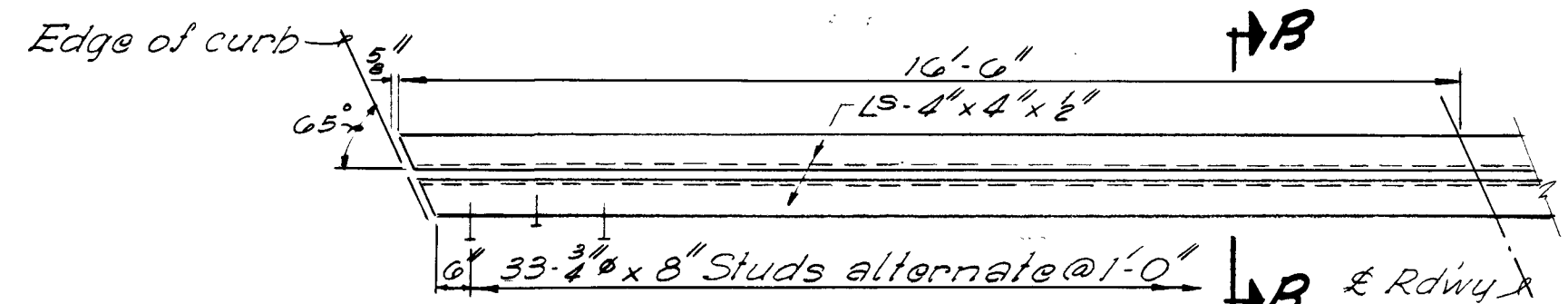
FLAME CUT # DETAILS



SECTION B-B

DESIGNED	J. M. Jzworsch	EXAMINED	W. C. Baumann ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
CHECKED	J. B. Nelson J. Mullenix	PASSED	E. S. Stuart ENGINEER OF HIGHWAY
DRAWN	J. M. J.	APPROVED	[Signature]
CHECKED	J. B. N.	CHIEF HIGHWAY ENGINEER	[Signature]

JAN 8 1963



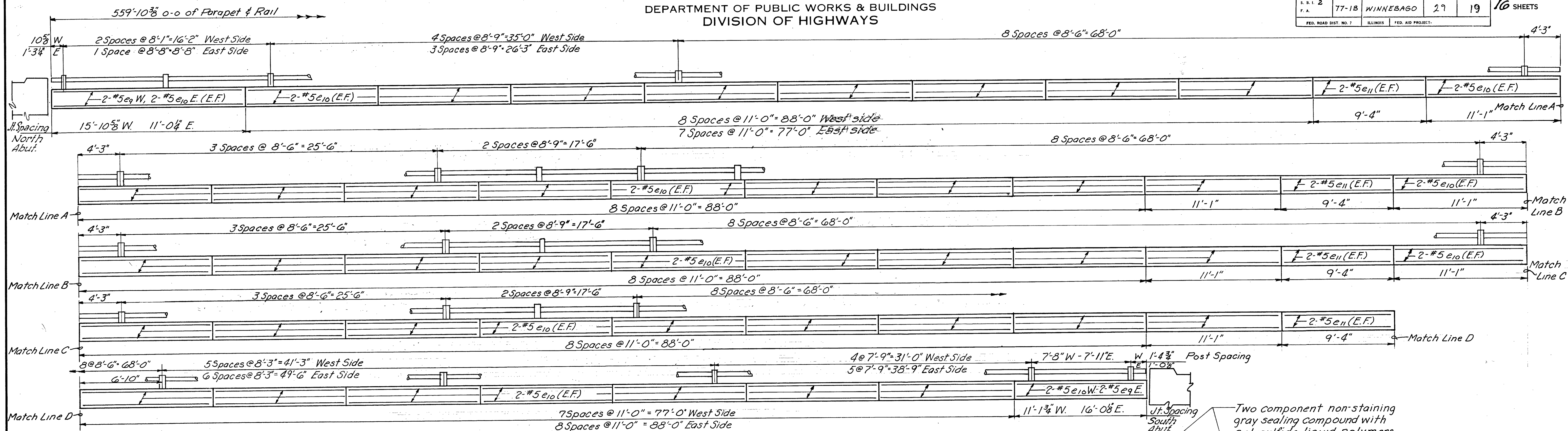
HALF PLAN - EXPAN. DEVICE @ S. ABUT.

STRUCTURAL STEEL

**ROCK RIVER
S.B. 1. RT. 2 SEC. 77-1B
WINNEBAGO COUNTY
STATION 195 + 19.14**

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

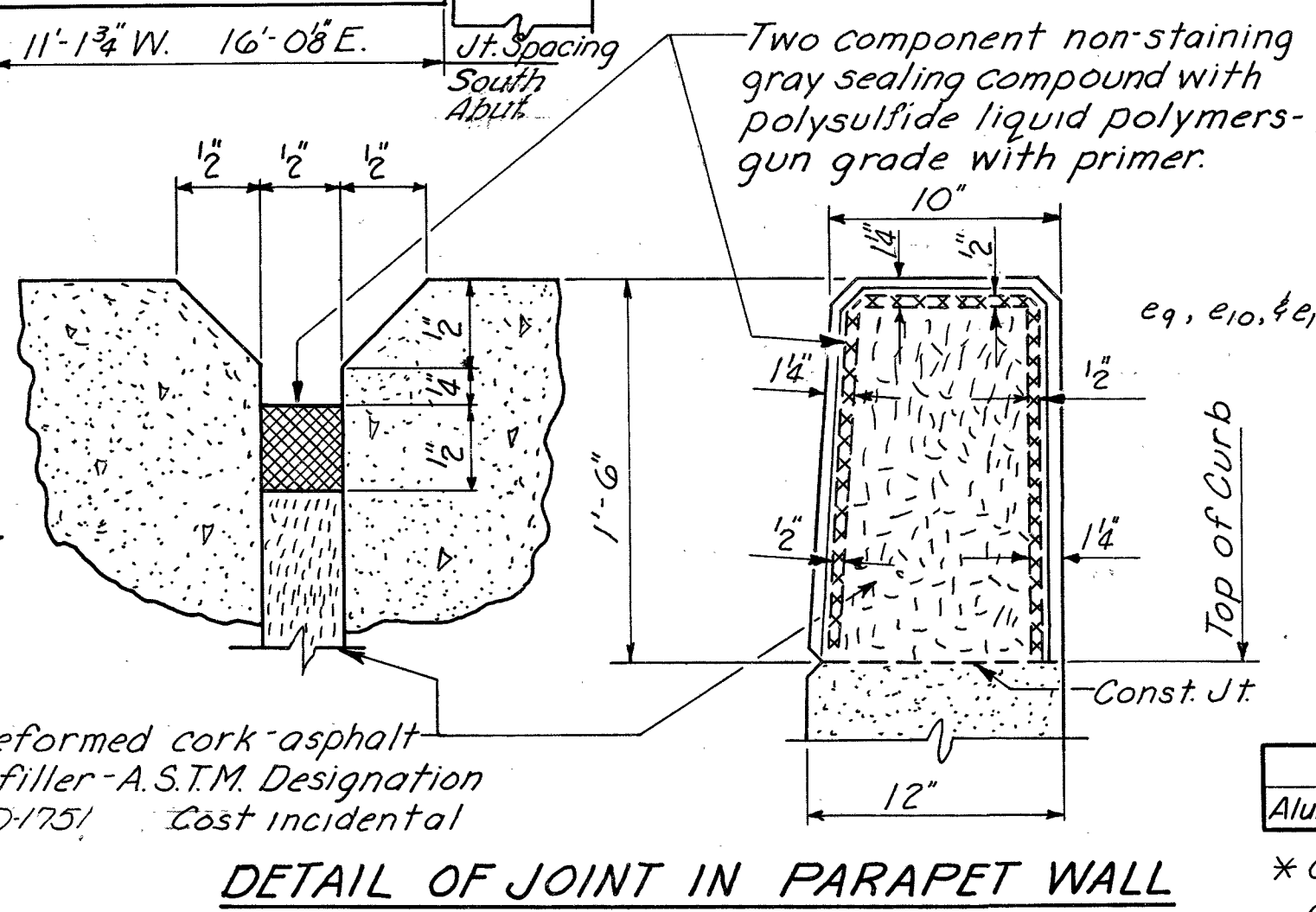
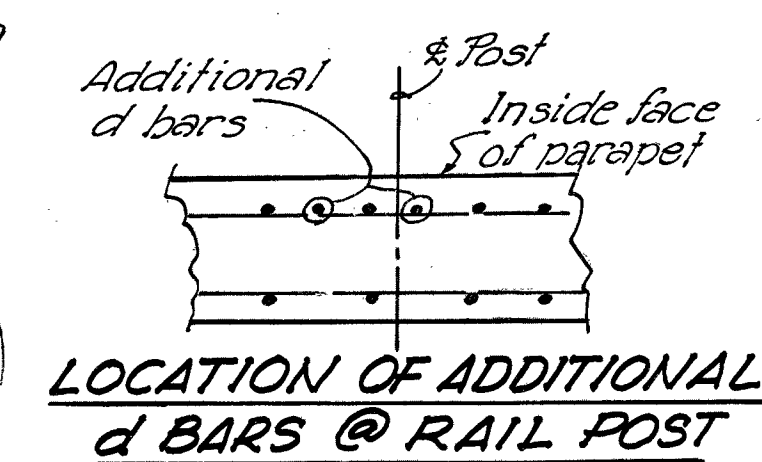
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 8 16 SHEETS
S. B. I. 2	77-1B	WINNEBAGO	29	19	
F.A.					
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT:		



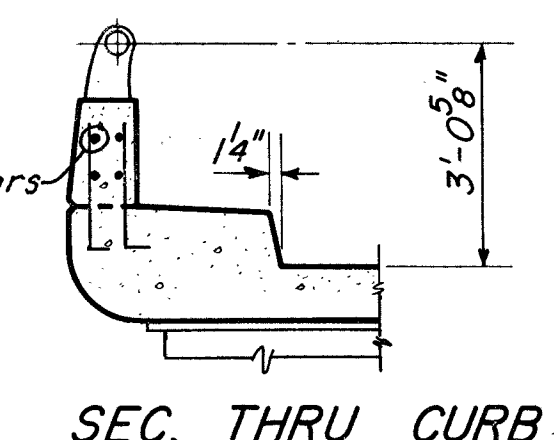
For Aluminum Handrail details see sheet-8A

ELEVATION

Showing Post & Parapet Joint Spacing



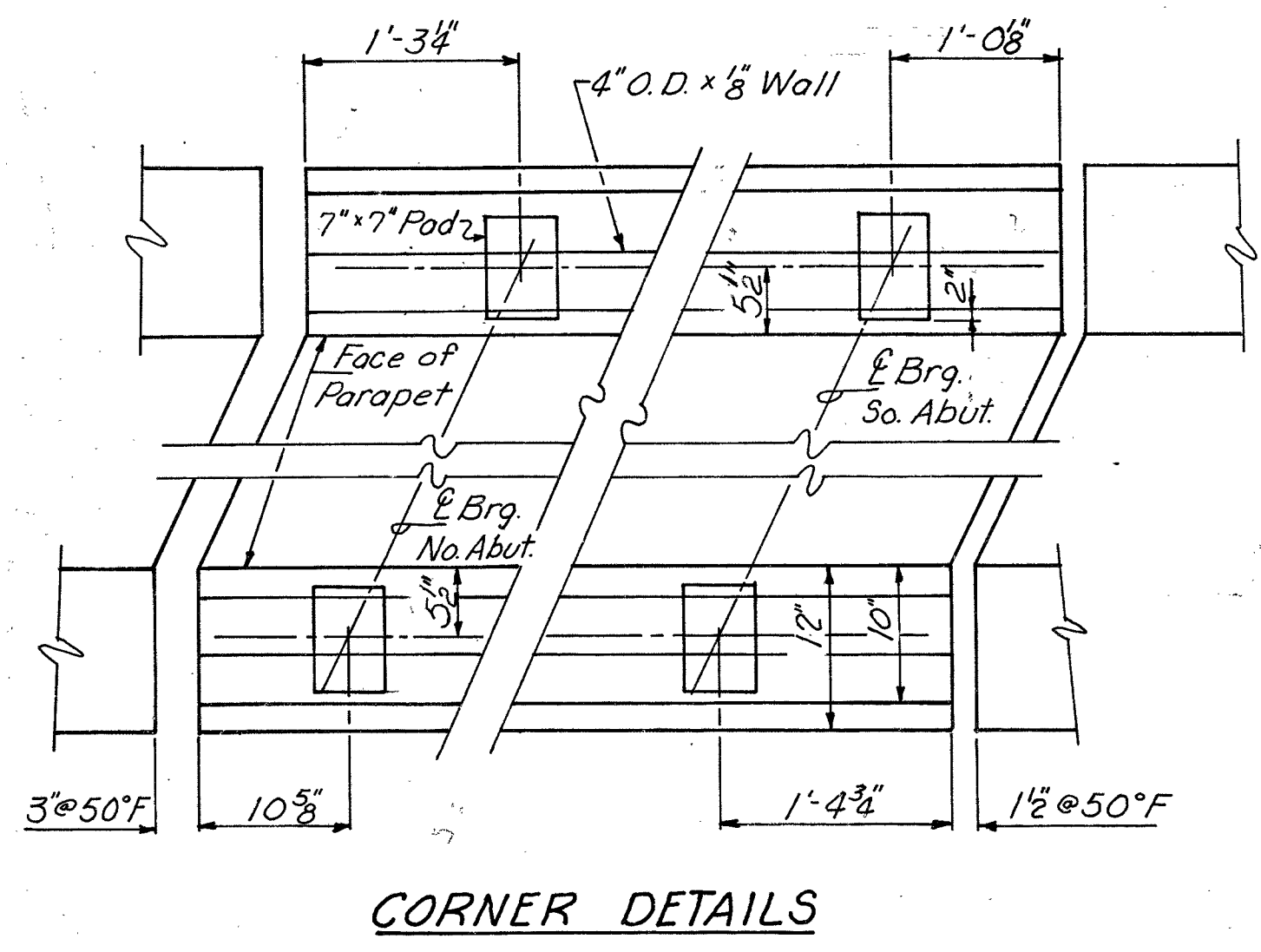
DETAIL OF JOINT IN PARAPET WALL



ONE BRIDGE BILL OF MATERIAL*

Item	Unit	Quantity
Aluminum Handrail	Lin. Ft.	1120

* Quantities of Class X concrete and reinforcement bars for Parapet Wall are included with Superstructure Bill of Material Sheet #2.



CORNER DETAILS

HANDRAIL & PARAPET DETAILS

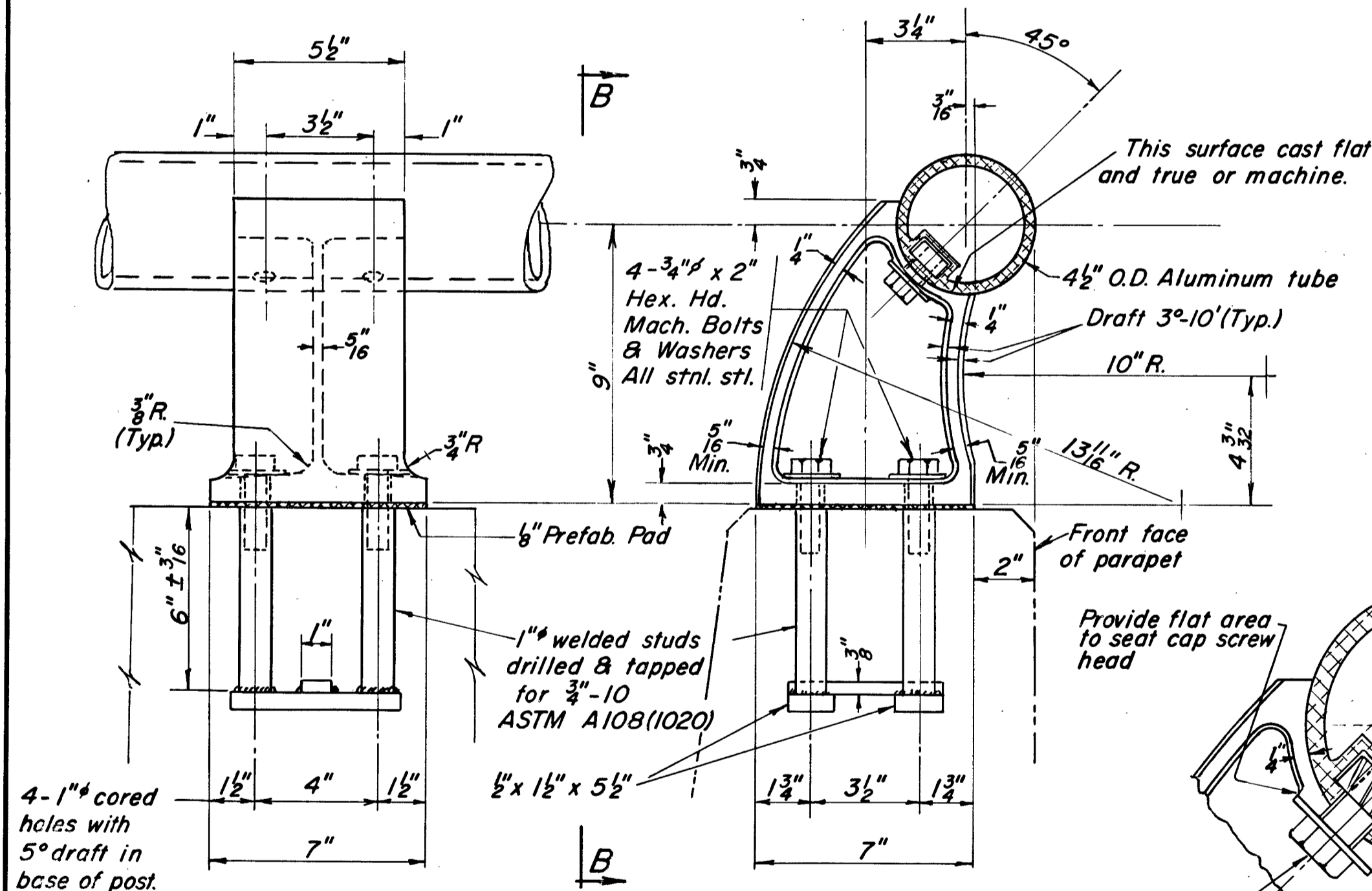
ROCK RIVER
S. B. I. RT. 2 SEC. 77-1B
WINNEBAGO COUNTY
STATION 195+19.14

DESIGNED	J. M. Jzworsk	EXAMINED	W. E. Blumstein
CHECKED	J. B. Nelson	PASSED	E. J. Shurt
DRAWN	W. A. Sausaman	APPROVED	J. E. Hoff
CHECKED	J. B. N.		

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 8A 16 SHEETS
P. M. I. 2	77-1B	WINNEBAGO	29	19A	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

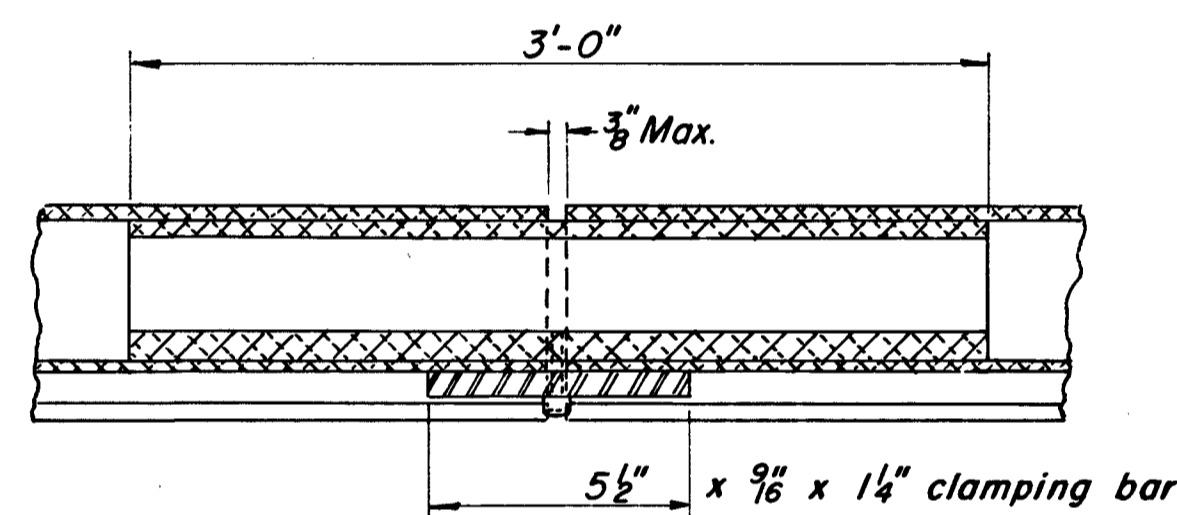
For Parapet & Rail Post Spacing see Sheet-B



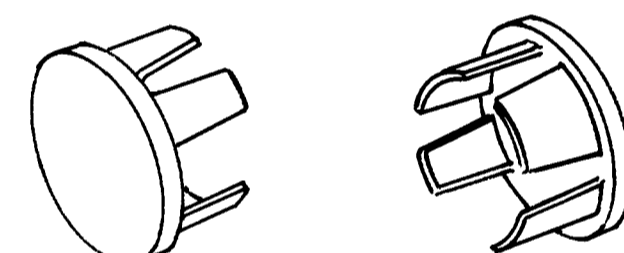
VIEW B-B

SECTION A-A

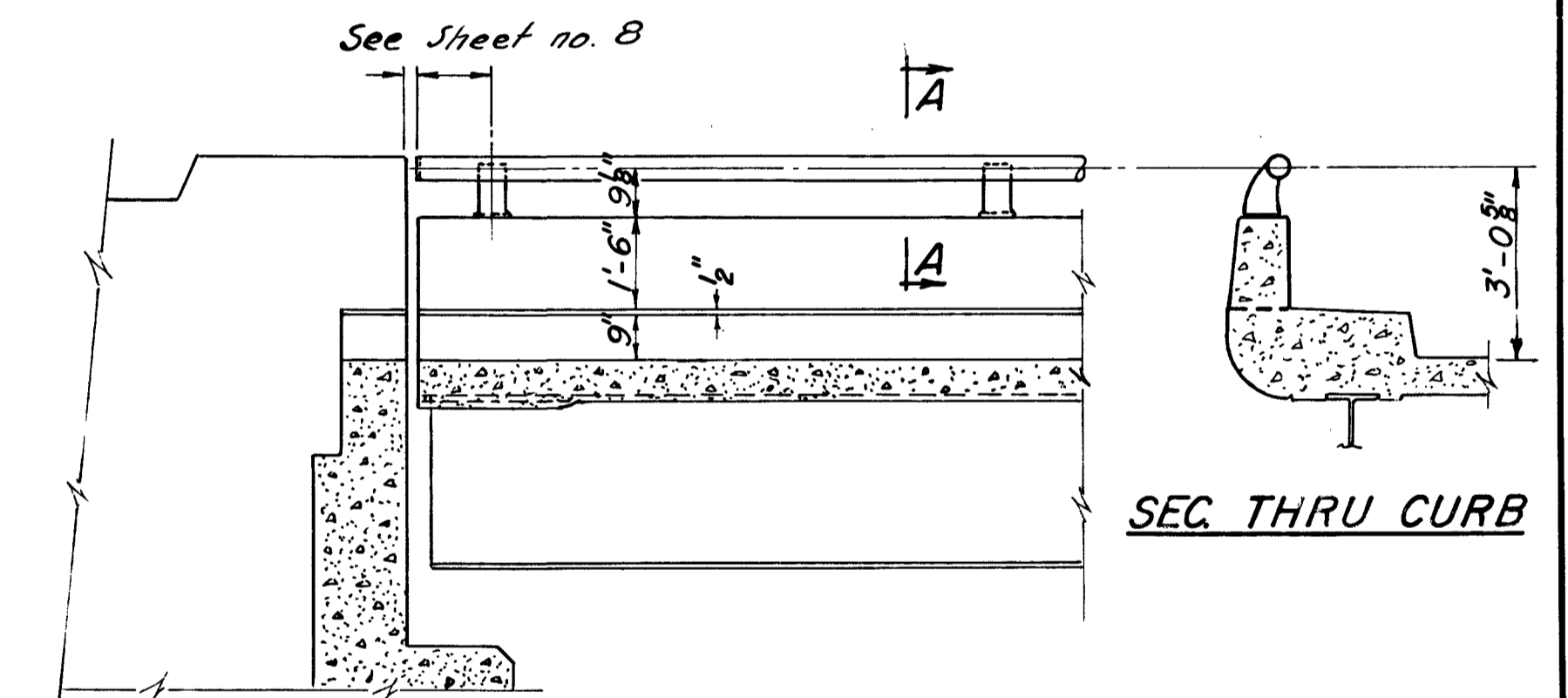
RAIL POST DETAILS



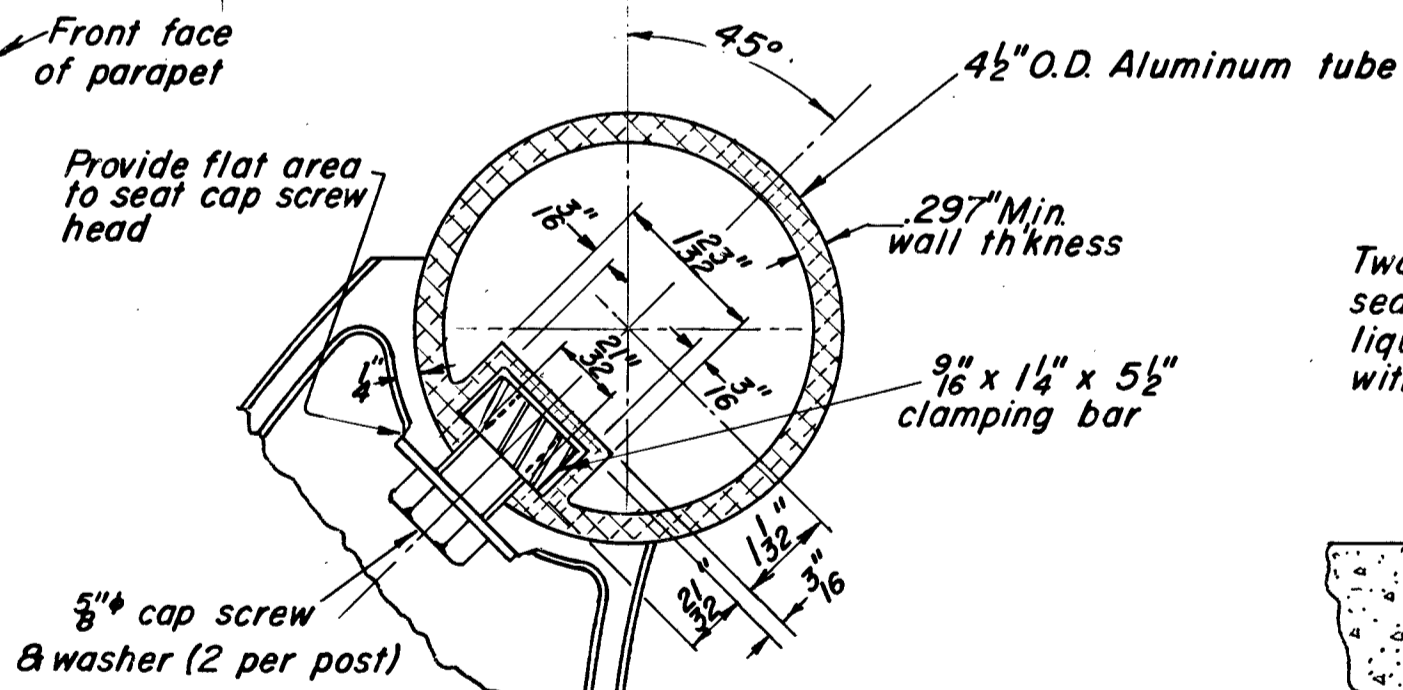
SECTION C-C



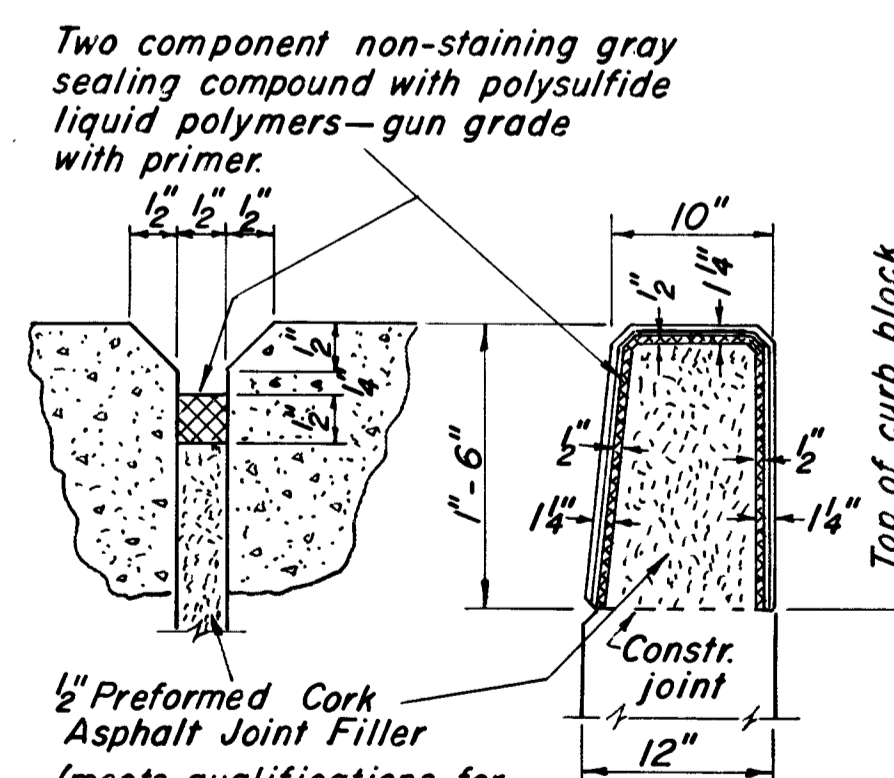
CAST END CAP
DRIVE FIT TYPE
B Required



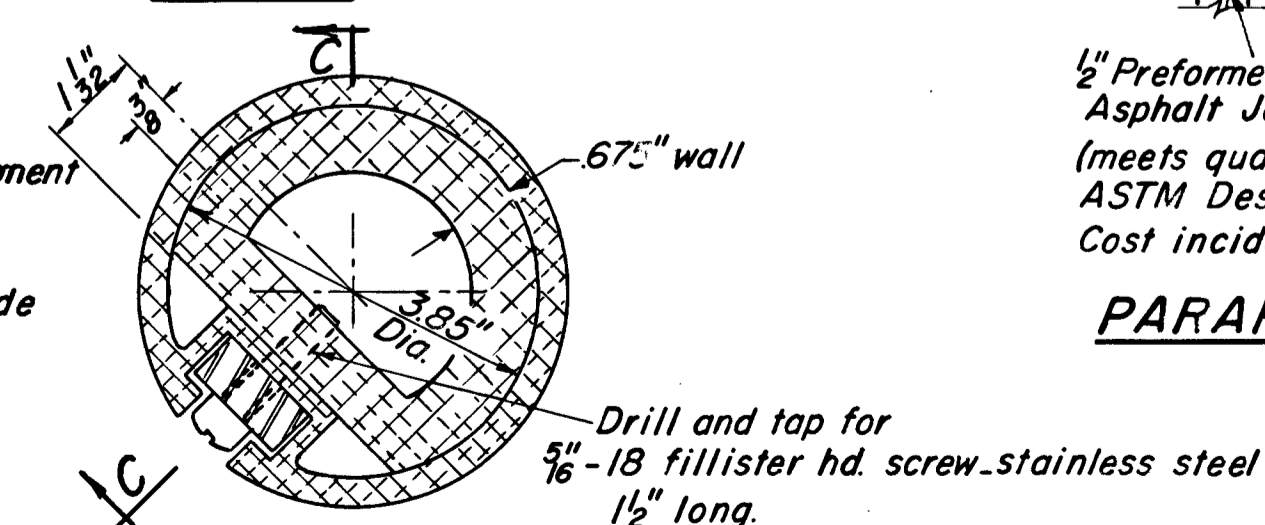
ELEVATION—END POST



DETAIL of RAIL ATTACHMENT to POST



PARAPET JOINT DETAIL



RAILING SPLICE DETAIL

NOTES:

All Posts shall be normal to parapet.
All Aluminum Alloy Extruded Rail shall conform to ASTM specification B-235 alloy 6061-T6, or 6062-T6, and shall extend a minimum of 2 panel lengths (attached to a minimum of 3 posts) except at ends or at open joints where a minimum of 1 panel length is required. All joints in railing must be spliced per detail.

See Special Provisions for following Material Specifications:

Cast Aluminum Alloy Bridge Post Alloy 344-T4.
Stainless Steel Machine Bolts, Washers, and Bars.

For material composition of Prefabricated Pad, see Article 54.9(f), (Bearing and Anchorage), of the Standard Specifications.

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

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

Cost of rail splice, end caps, and hardware to be incidental to item ALUMINUM HANDRAIL.

Provide 1-1/8 inch and 2-1/16 inch Aluminum Shims for 25% of the Posts. Rail element shall be parallel to Grade—high spots shall be ground and low spots shimmed.

BILL of MATERIAL

Item	Unit	Quantity
ALUMINUM HANDRAIL	Lin. Ft.	

ALUMINUM HANDRAIL
ROCK RIVER
S.B.I.R.T.2. SEC. 77-1B
WINNEBAGO COUNTY
STATION 195+19.14

DESIGNED	
CHECKED	
DRAWN	Wm. M. Best
CHECKED	

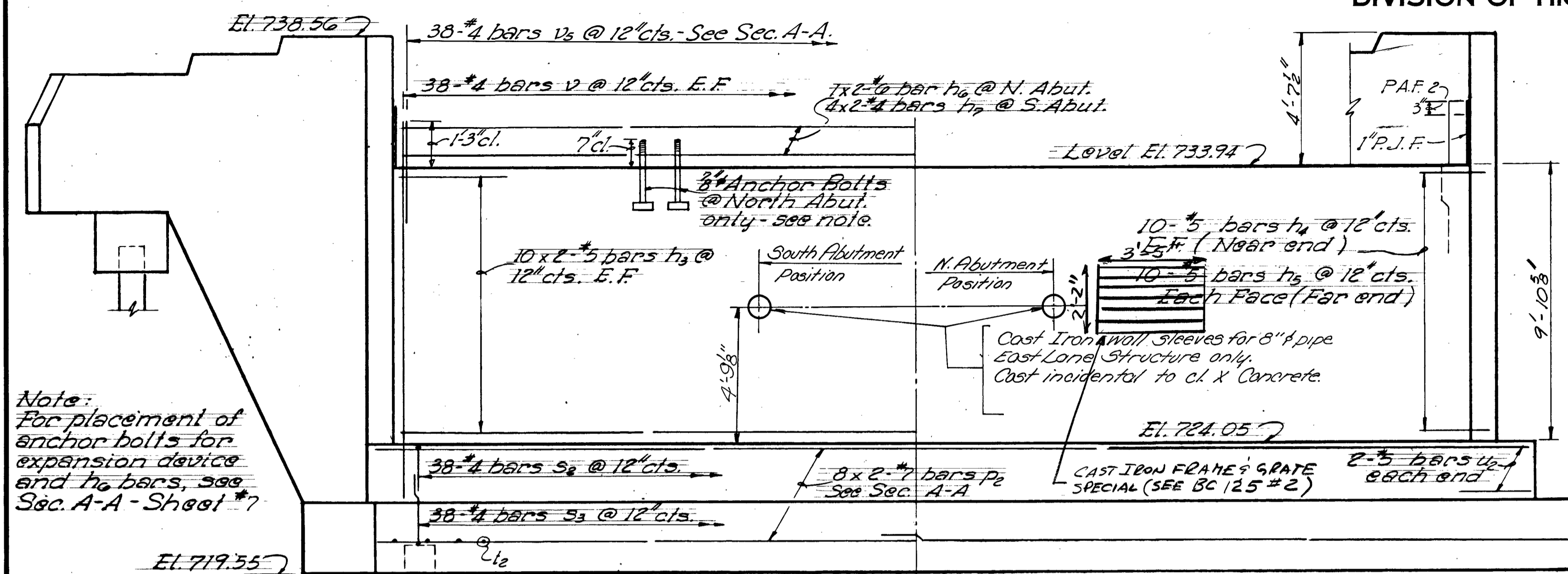
EXAMINED	J.H. 25 1965
PASSED	
APPROVED	

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

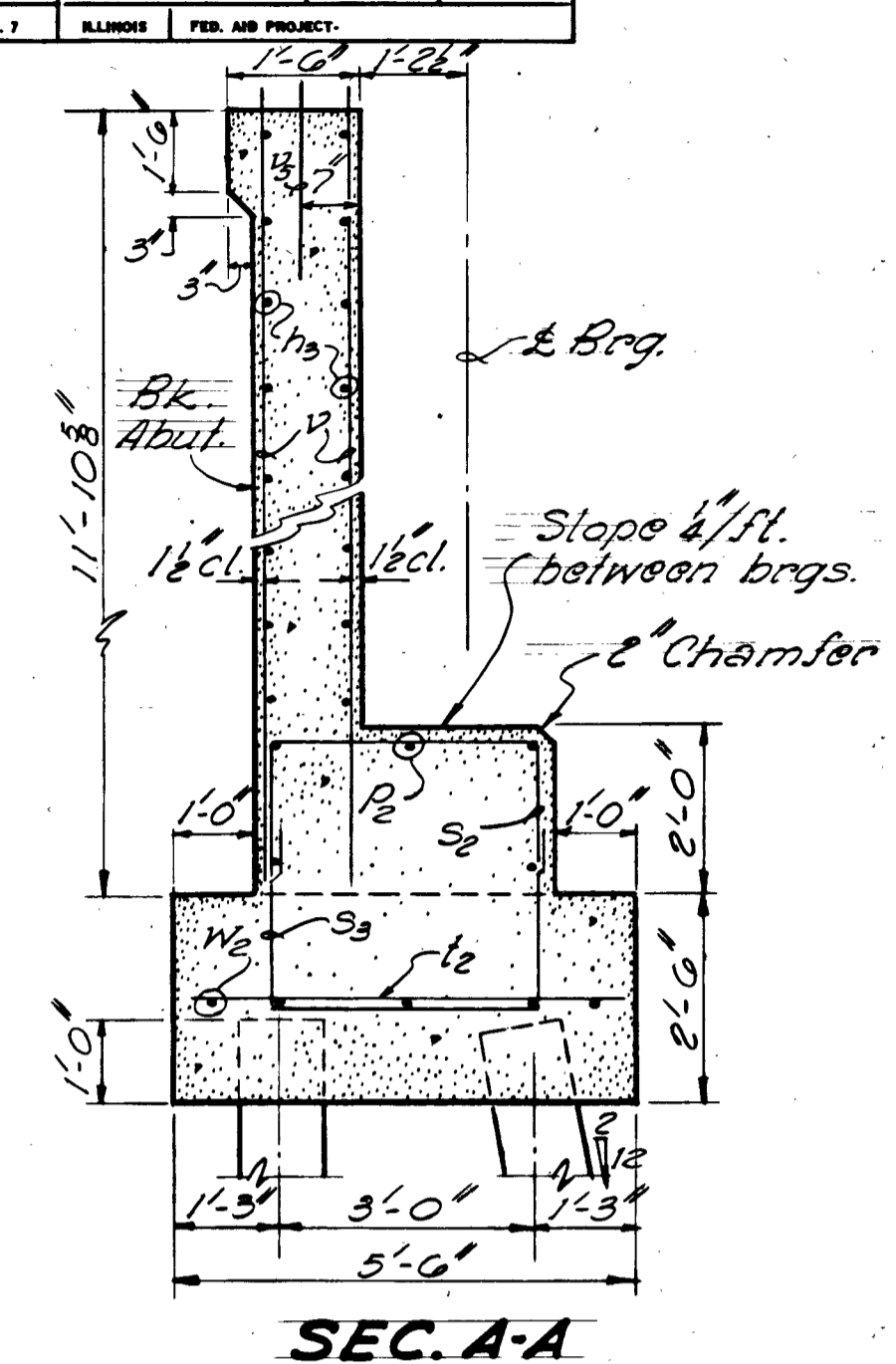
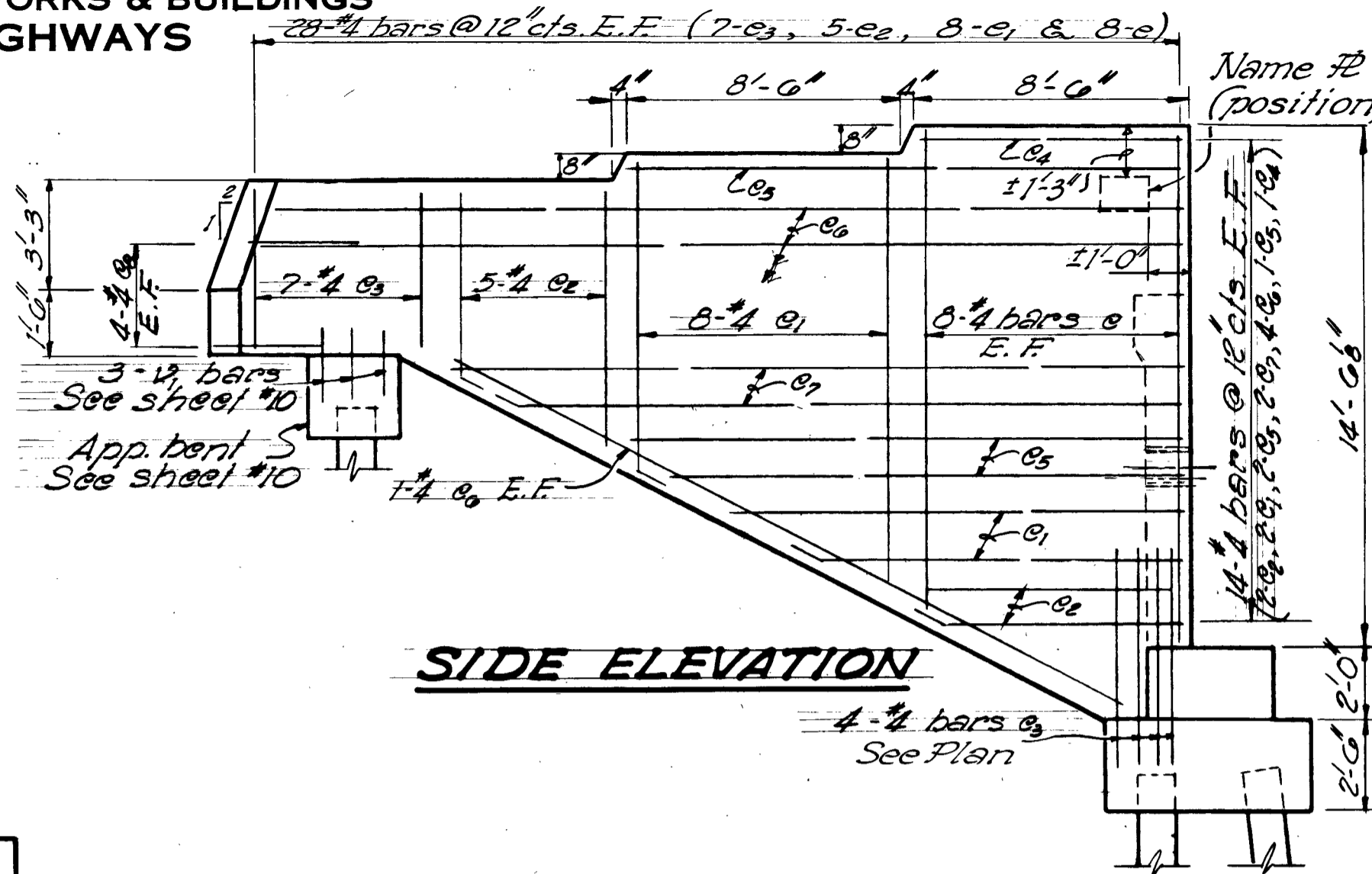
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.R.T. 2	77-1B	WINNEBAGO	29	20
FED. ROAD DIST. NO. 7		ALIGNED	FED. AID PROJECT	

SHEET NO. 9
16 SHEETS



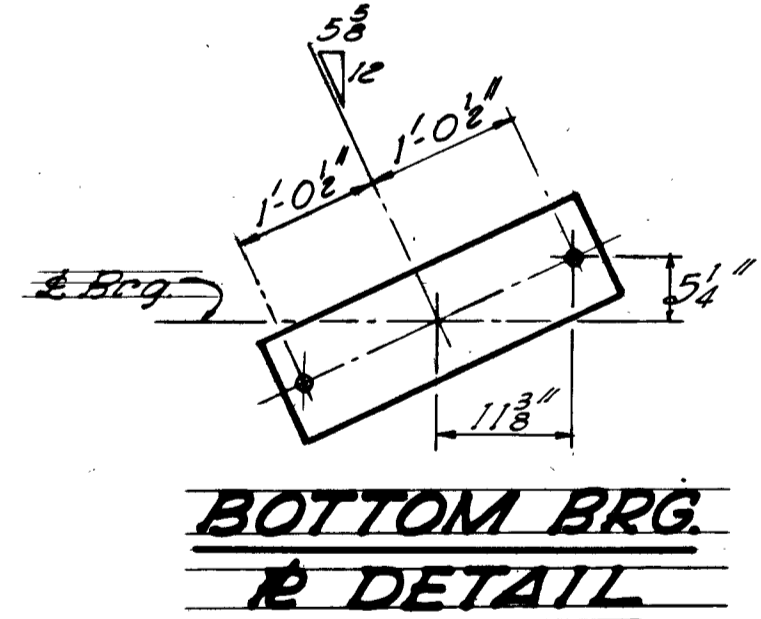
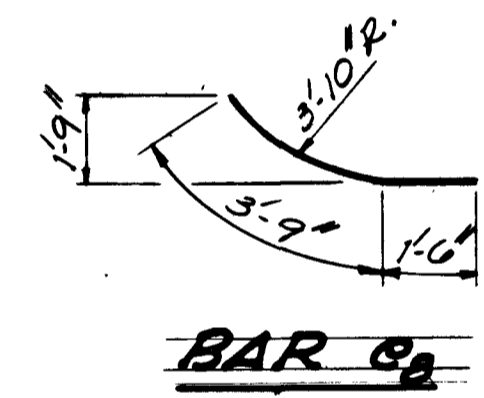
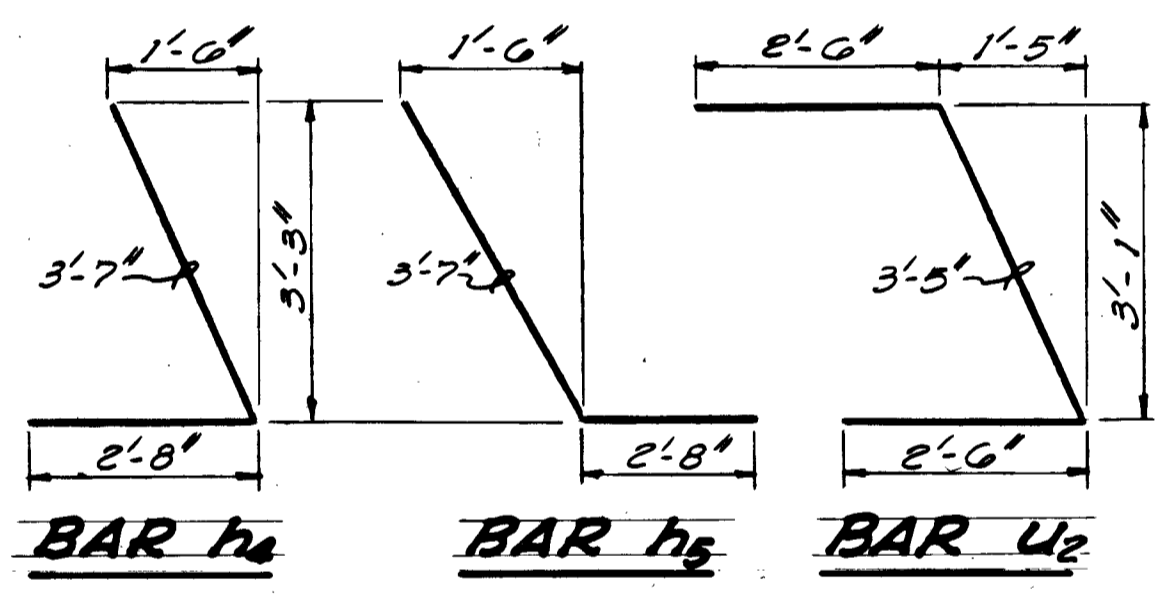
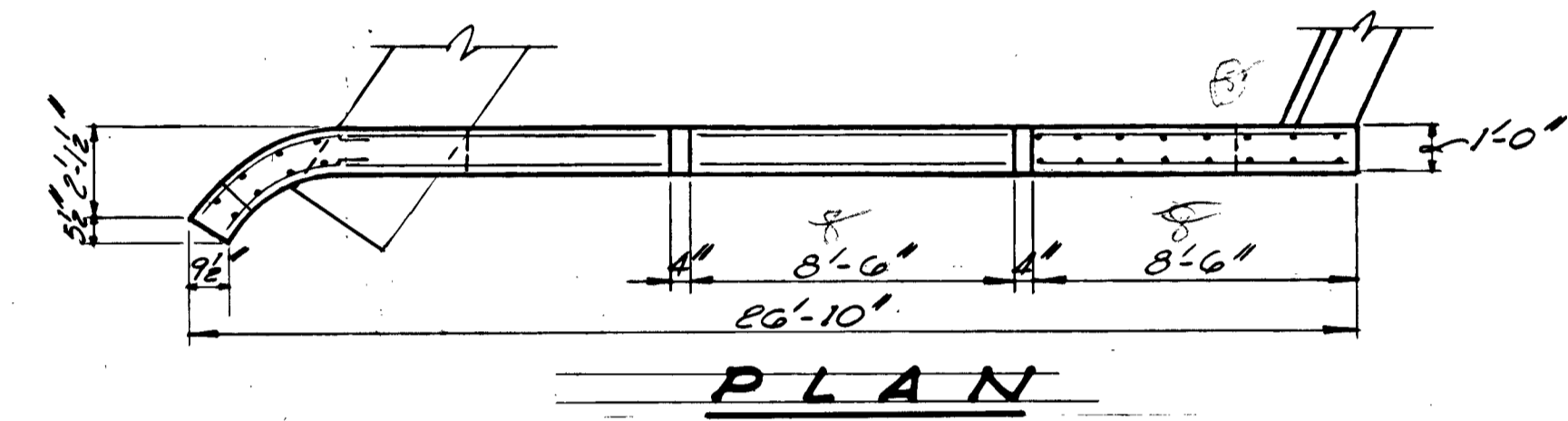
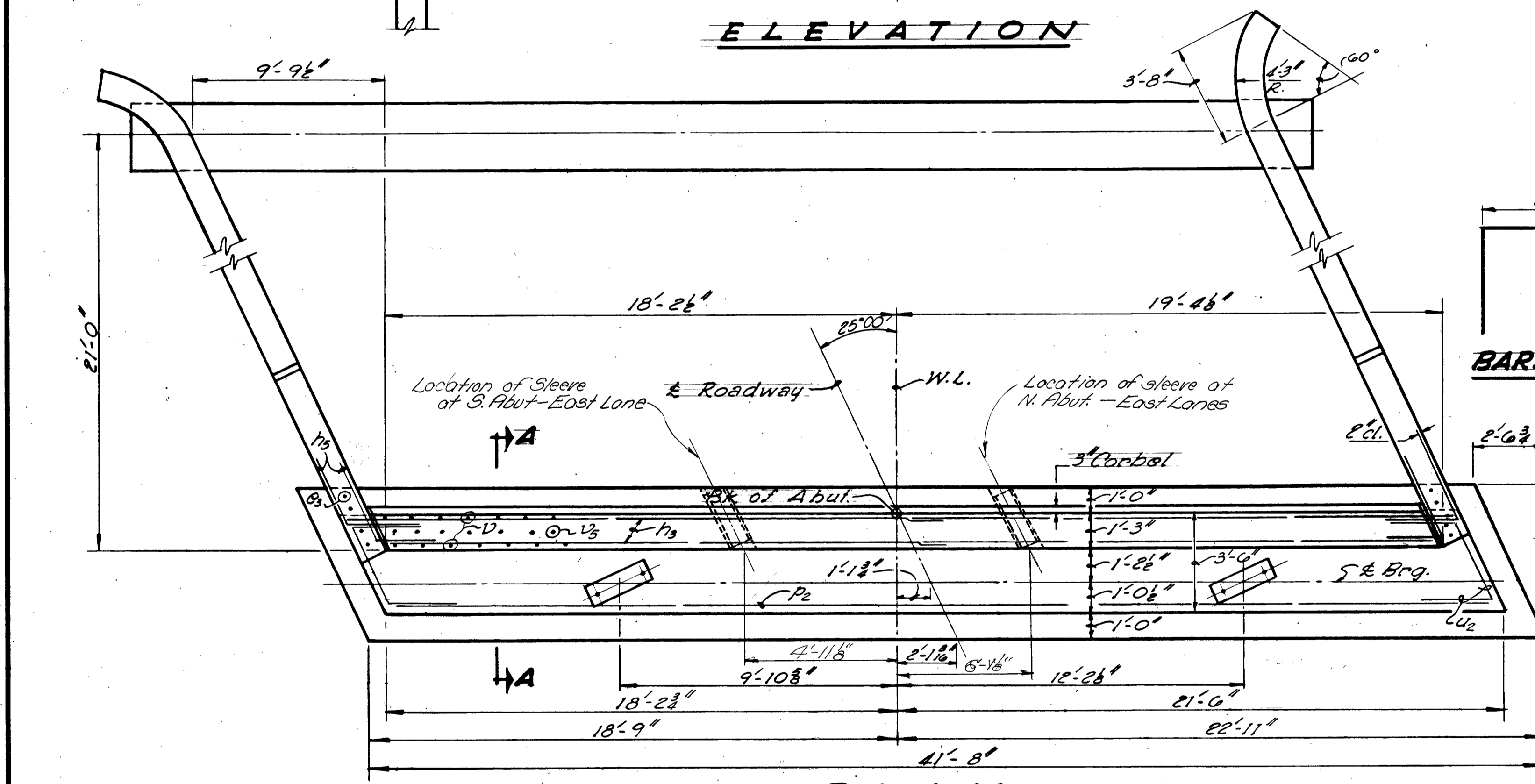
Note:
For placement of
anchor bolts for
expansion device
and $\frac{1}{2}$ bars, see
Sec. A-A - Sheet #7



ELEVATION

SIDE ELEVATION

SEC. A-A

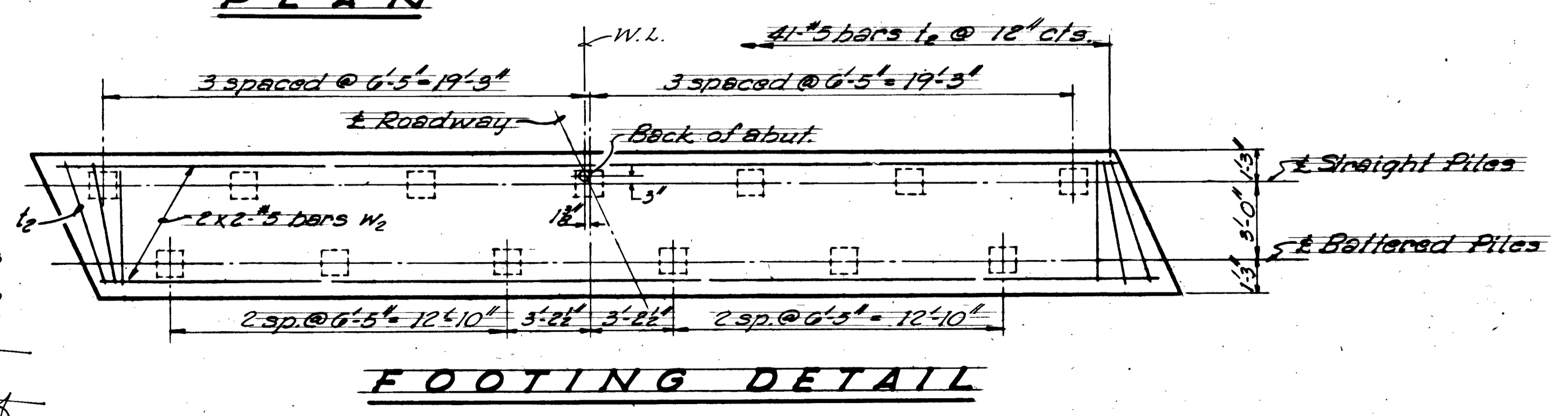


One
BILL OF MATERIAL Bridge

Bar No.	Size	Length	Shape
e	#4	14'-0"	
e ₁	#4	10'-0"	
e ₂	#4	6'-3"	
e ₃	#4	4'-0"	
e ₄	#4	7'-3"	
e ₅	#4	15'-0"	
e ₆	#4	23'-0"	
e ₇	#4	19'-0"	
e ₈	#4	5'-3"	
h ₃	#5	19'-6"	
h ₄	#5	6'-3"	
h ₅	#5	6'-3"	
h ₆	#5	19'-6"	
h ₇	#4	19'-0"	
u ₂	#5	5'-3"	
P ₂	#7	20'-9"	
S ₂	#4	6'-8"	
S ₃	#4	8'-6"	
t ₂	#5	5'-3"	
u ₂	#5	8'-5"	
v	#4	13'-0"	
w ₁	#4	2'-0"	
w ₂	#5	2'-3"	
Class X Conc.	Cu. Yds.	135.8	
Rein. Bars	Lbs.	9,370	
Conc. Piles	Lin. Ft.	600 @ 50'	*
Test Pile (Conc.)	Each	1/0	*
Name Plates	Each	1	

PILE DATA

Type	Concrete
Capacity	45 Tons
Est. Length - N. Abut.	30'-0"
Est. Length - S. Abut.	20'-0"
No. Req'd. (two abuts.)	
24 + 2 Test Pile	West Struct.
26	East Struct.



DESIGNED J. M. Jyavroth
CHECKED J. B. Mullenix
DRAWN J. M. J.
CHECKED J. B. N.

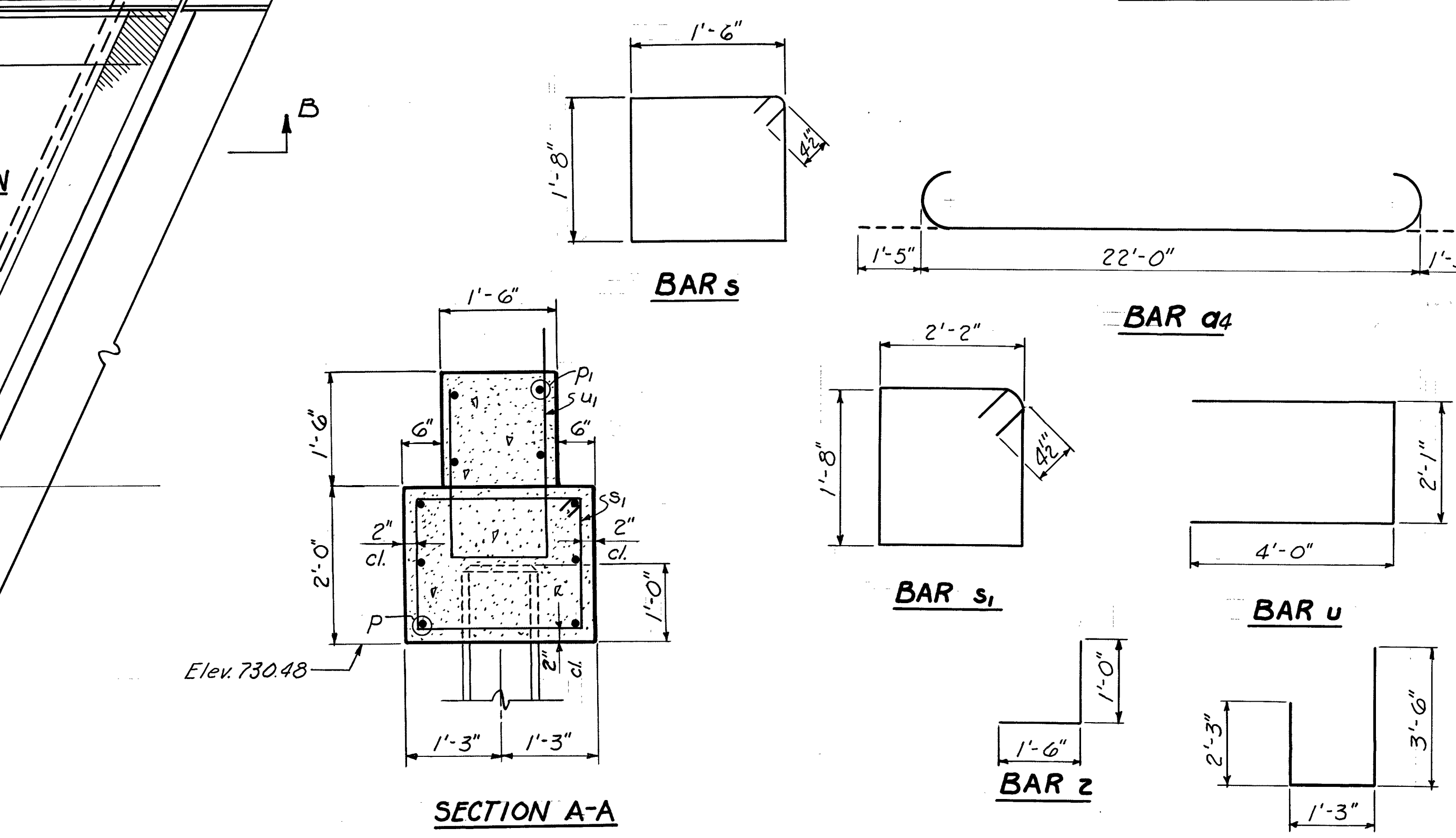
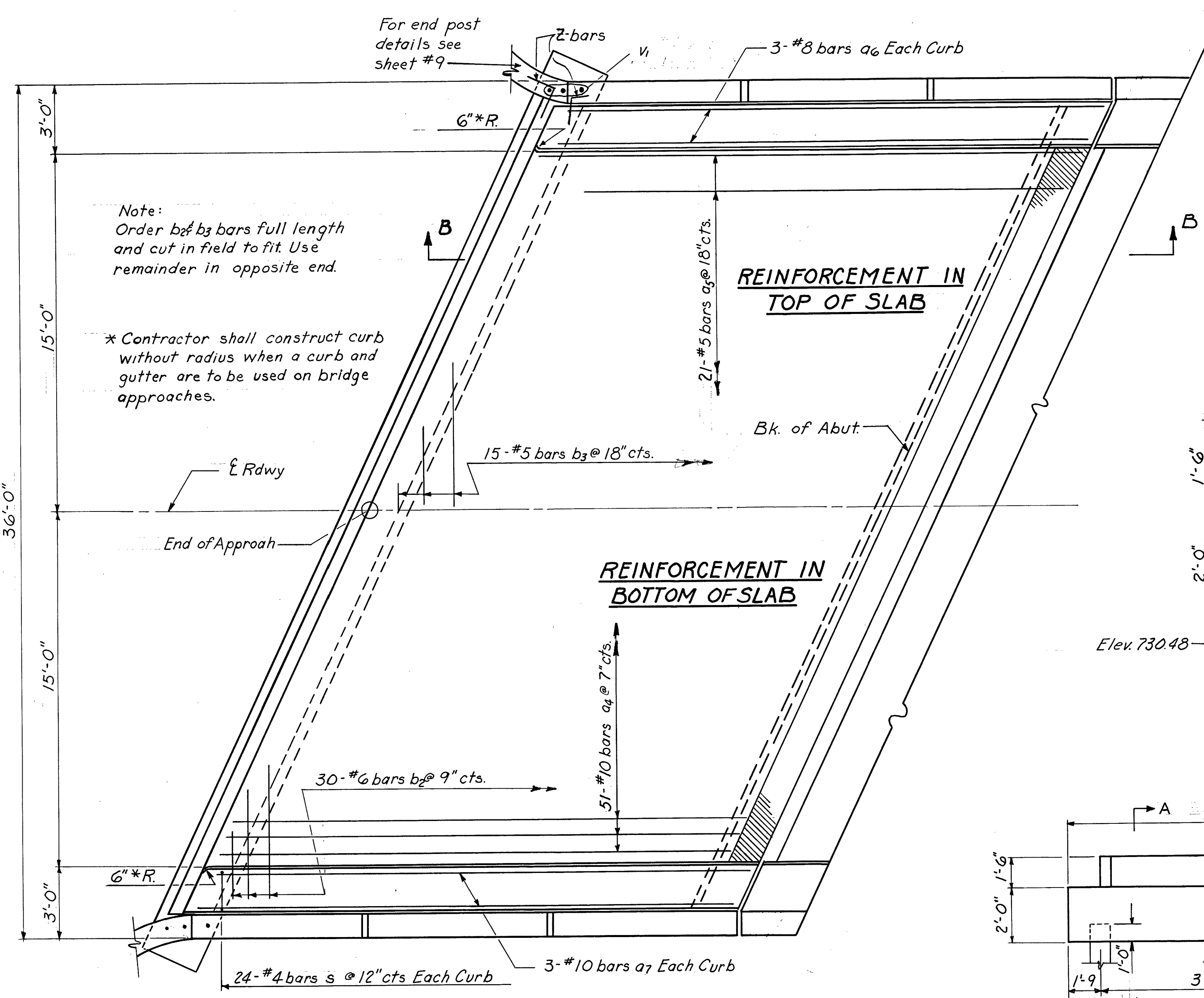
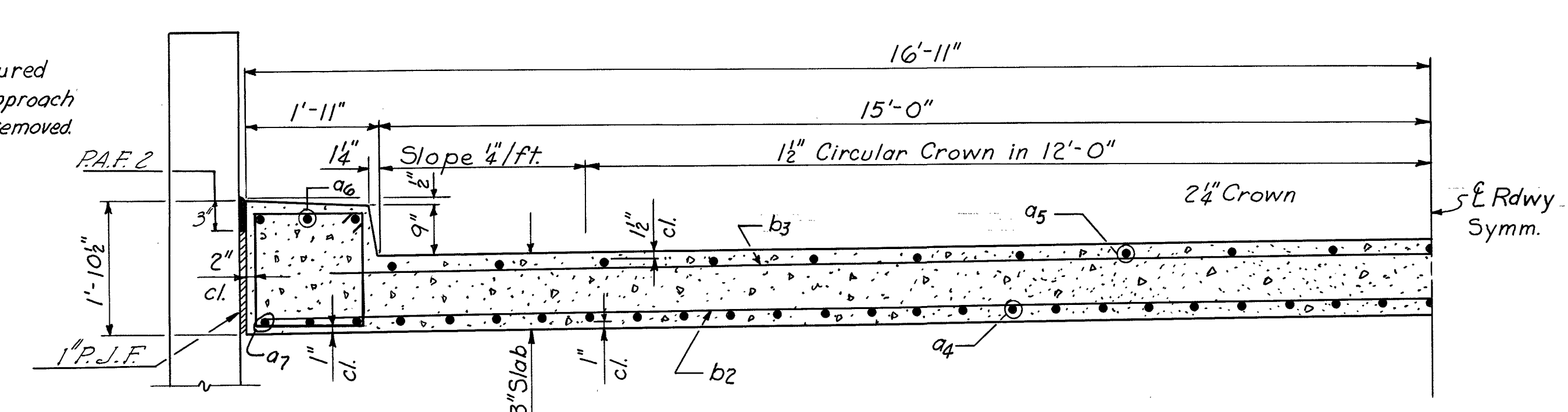
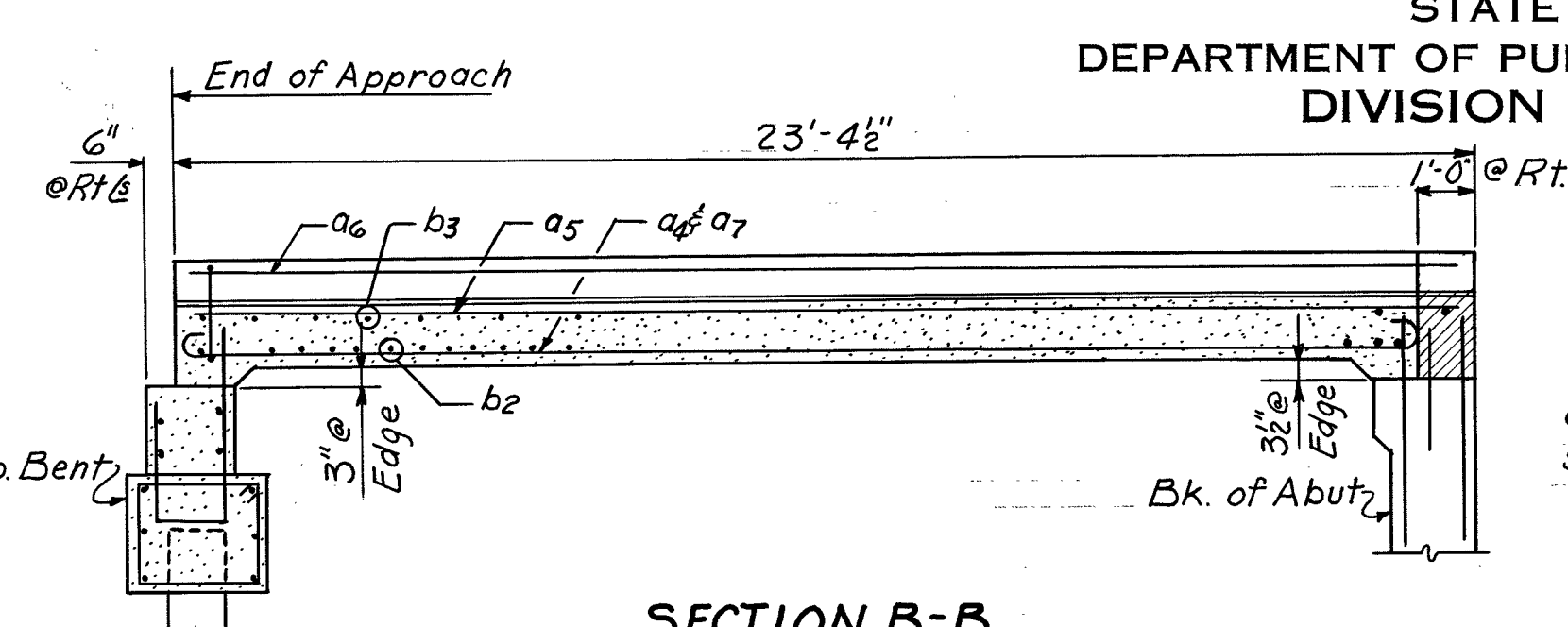
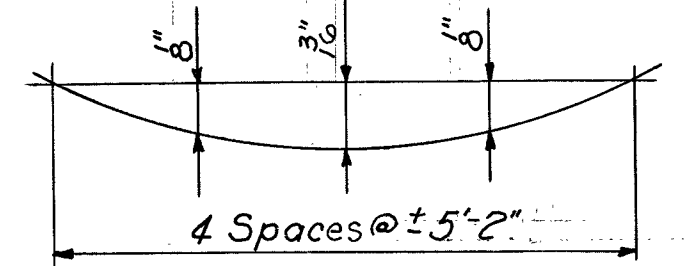
JAN 8 1963
EXAMINED W. C. Baumann
PASSED E. J. Schmitt
APPROVED J. E. Schmitt

ABUTMENTS

ROCK RIVER
S.R.T. 2 SEC. 77-1B
WINNEBAGO COUNTY
STATION 195 + 19.14

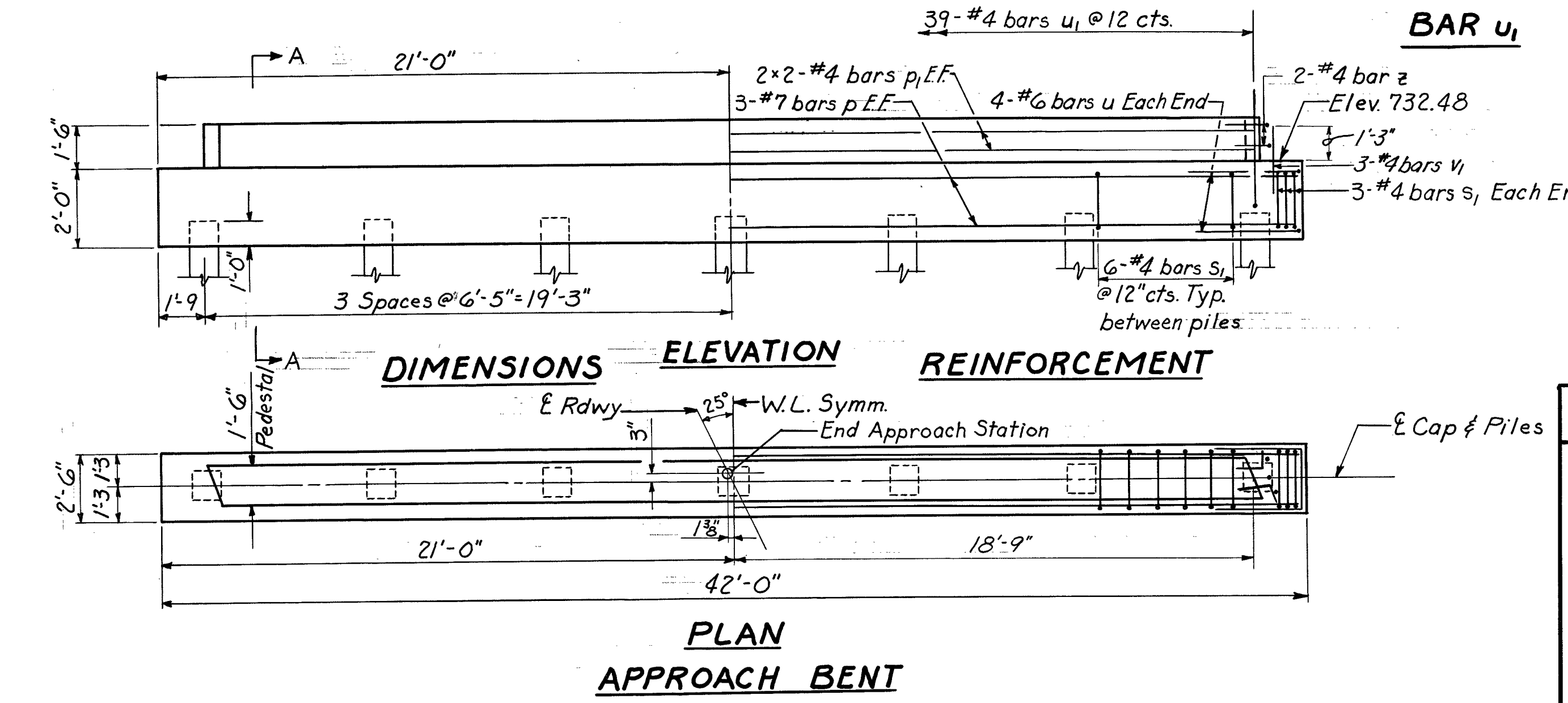
* West Struct. / East Struct.

Rev. 3-15-65 J.B.M. CI Sleeves Added.



**TWO APPROACH SPANS
ONE BRIDGE
BILL OF MATERIALS**

Bar	No.	Size	Length	Shape
a ₄	102	#10	24'-10"	□
a ₅	42	#5	22'-0"	—
a ₆	12	#8	23'-0"	—
a ₇	12	#10	23'-0"	—
b ₂	60	#6	33'-6"	—
b ₃	30	#5	32'-0"	—
p	12	#7	41'-10"	—
p ₁	16	#4	20'-0"	—
s	96	#4	7'-1"	□
s ₁	84	#4	8'-5"	□
u	16	#6	10'-1"	□
u ₁	78	#4	7'-0"	□
v ₁	12	#4	2'-3"	—
z	8	#4	2'-6"	┘
* Class "X" Concrete			Cu.Yds.	93.9
* Reinforcement Bars			Lbs.	20,610
Concrete Piles			Lin.Ft.	420



APPROACH SPANS
ROCK RIVER
S.B.I. RT. 2 SEC. 77-1B
WINNEBAGO COUNTY
STATION 195 + 19.14

DESIGNED J. M. Jyavosh
CHECKED J. B. Nalor
DRAWN W. E. Dickerson
CHECKED J. B. N.

JAN 8 1963
EXAMINED H. G. Baumann
PASSED E. P. Sherrill
APPROVED V. E. [Signature]

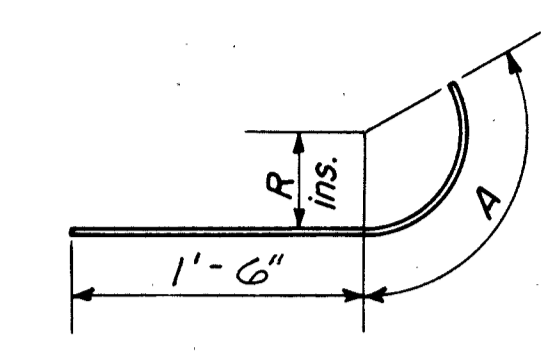
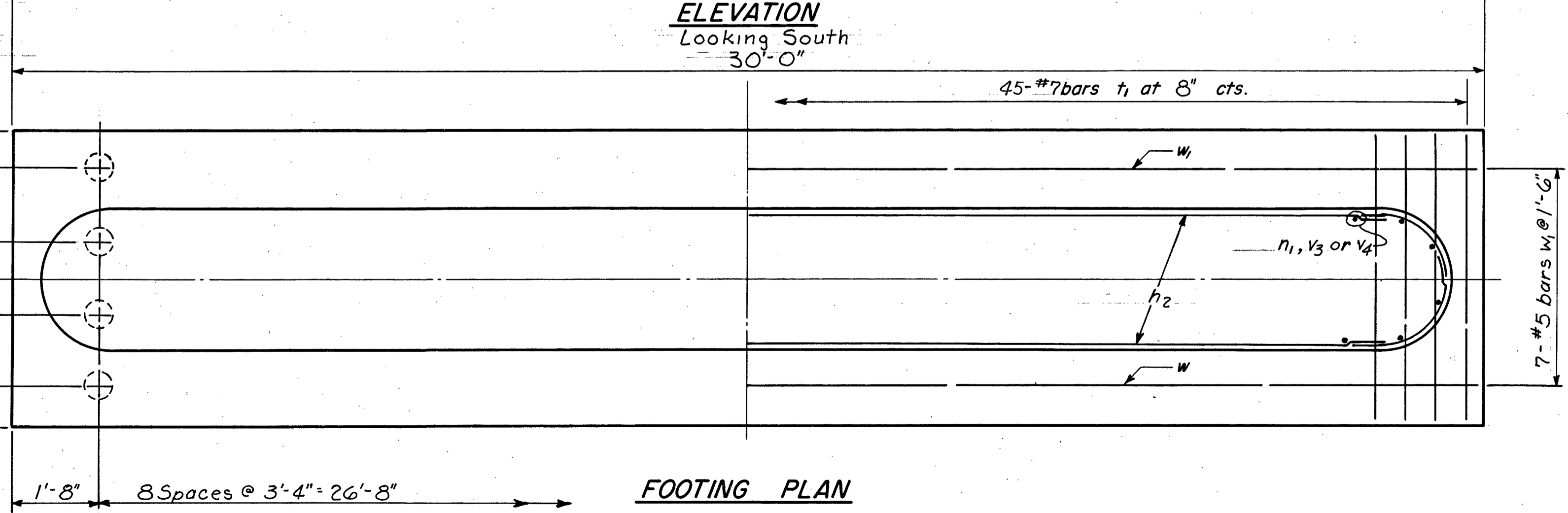
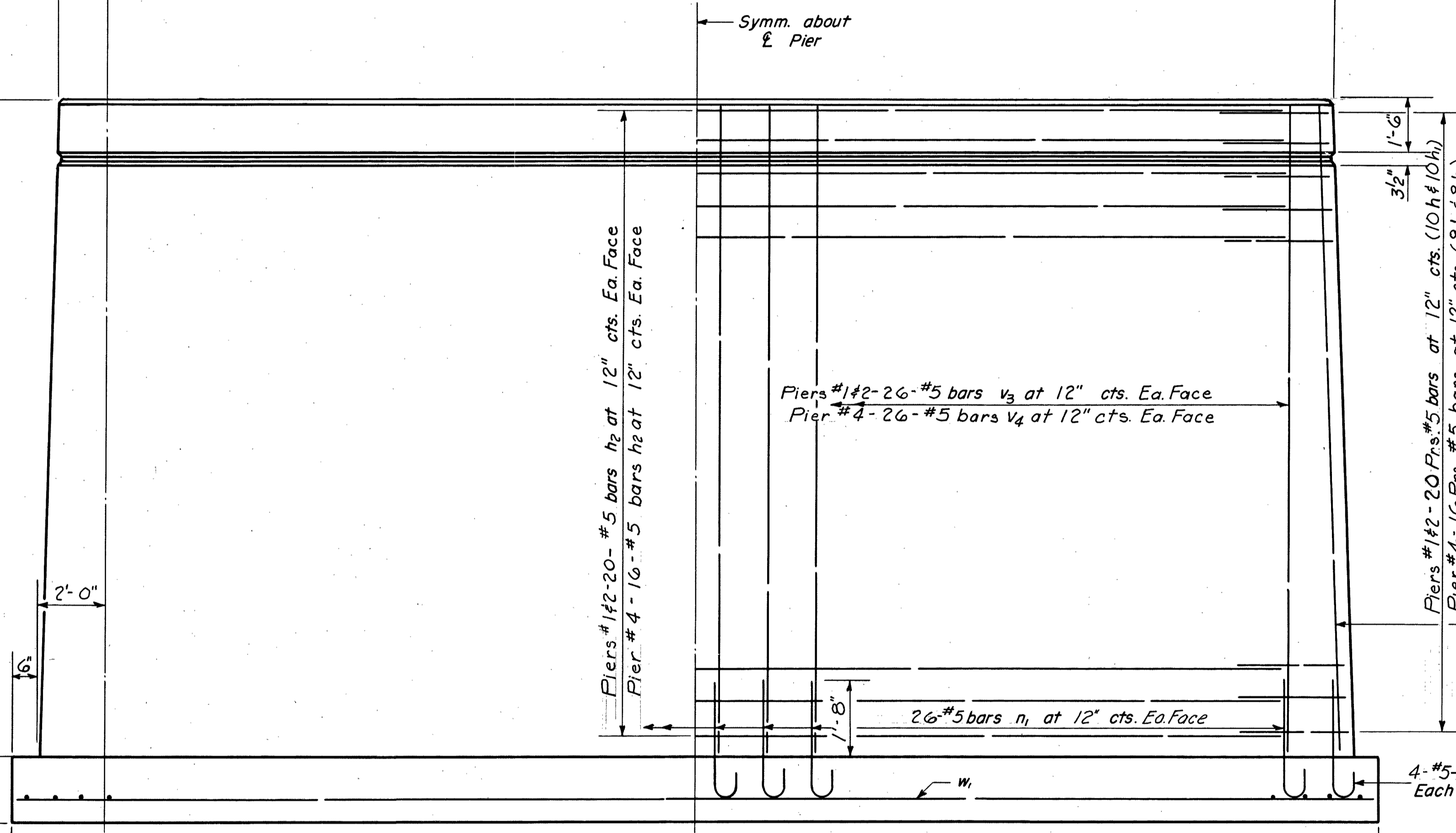
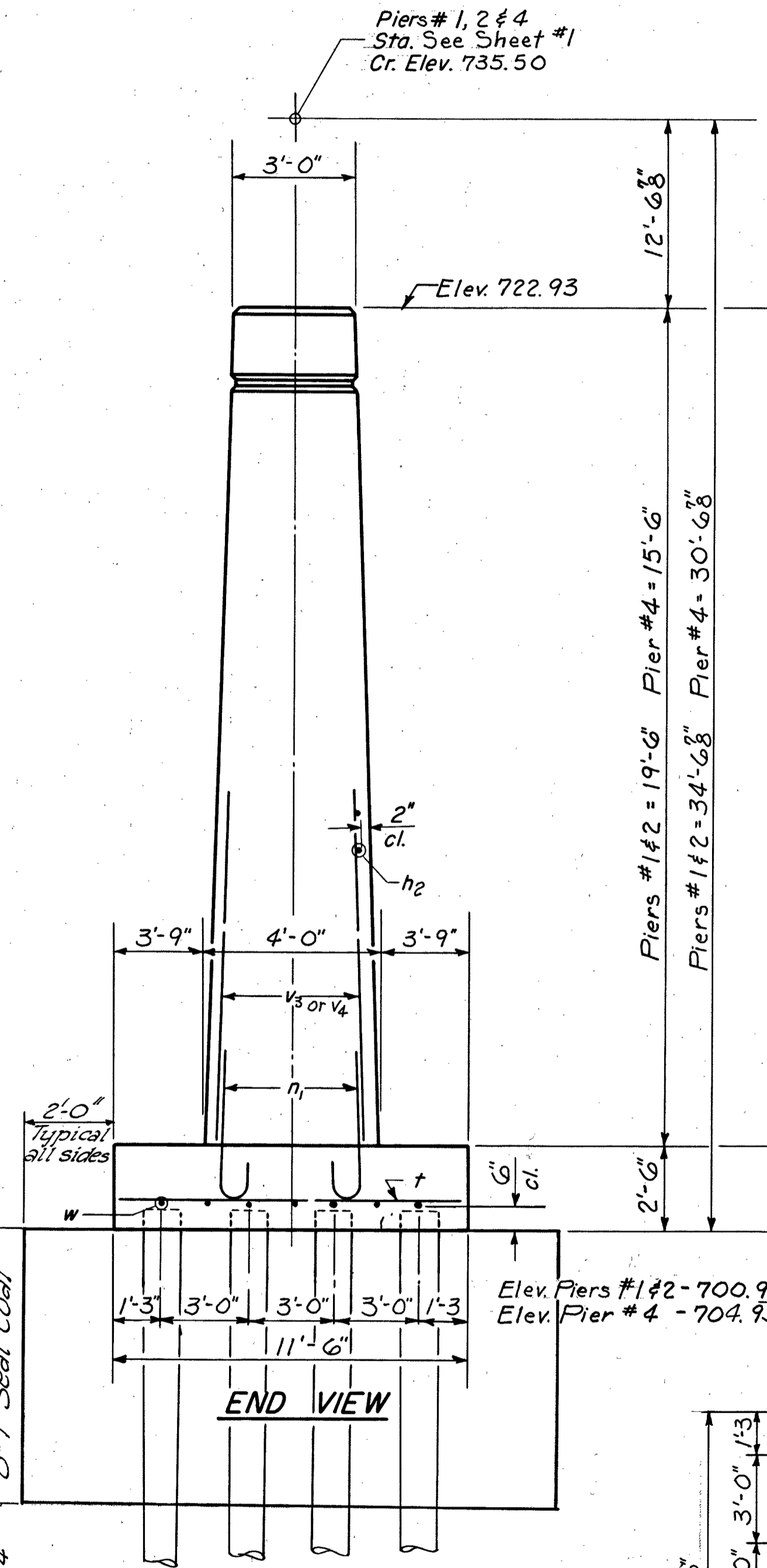
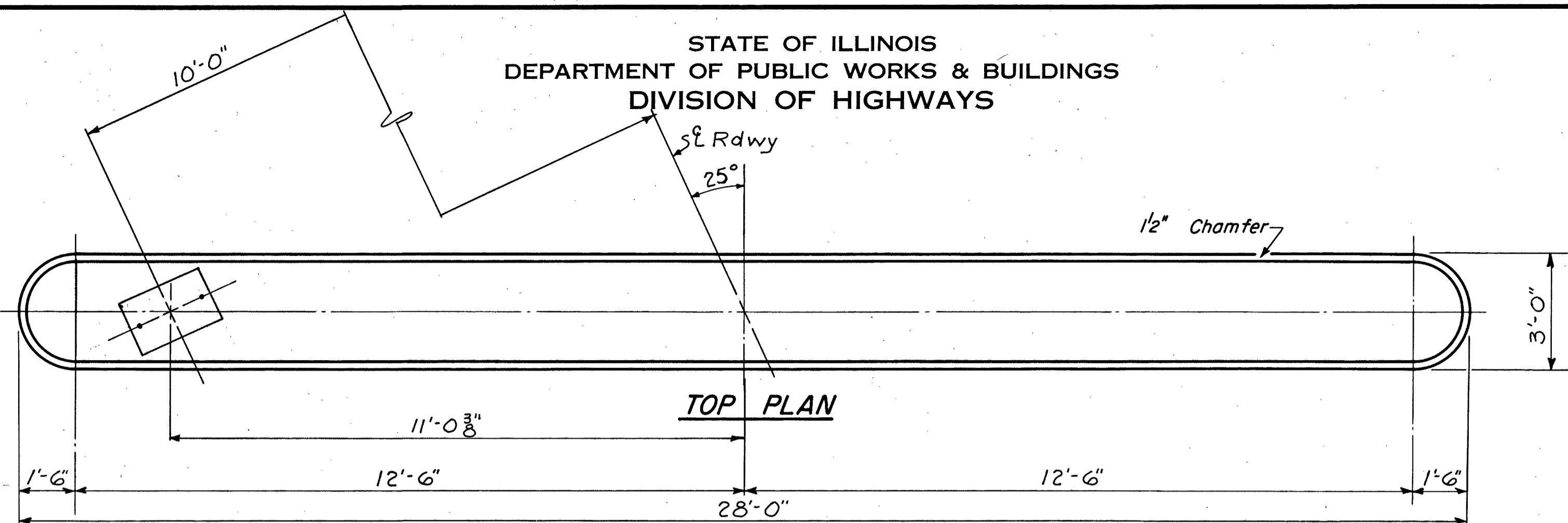
PILE DATA
Type Concrete
Capacity 25 Tons
Est Length 35'-0" N. Bent
25'-0" S. Bent
No. Reqd 14 (2 Bents)

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 11 16 SHEETS
S.B.I. 2	77-1B	WINNEBAGO	29	22	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT.		

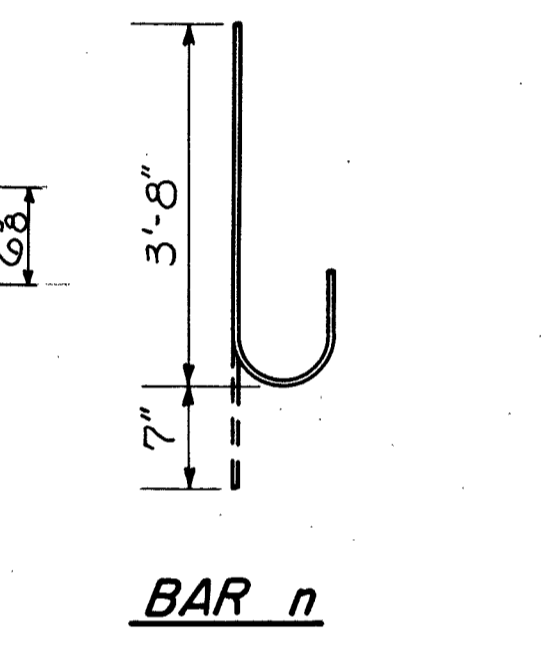
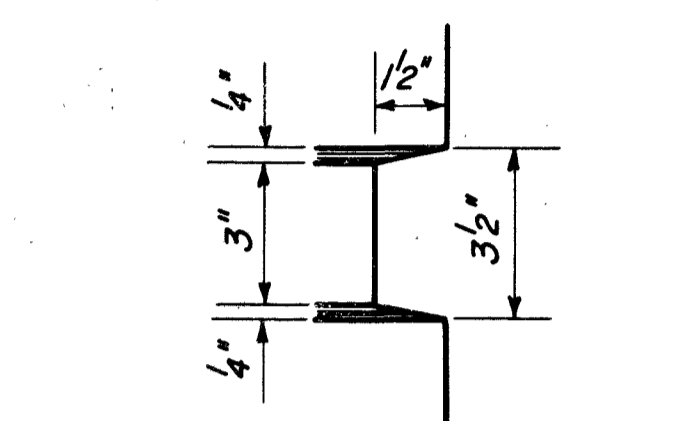
PILE DATA

Type Untreated Timber
Capacity 20 Tons
Est. Length 30'-0"
No. Req'd. 108 (3 Piers) East Struct.
107+1 Test Pile (3 Piers) W. Struct.



Bar	R	A
h	1'-7"	3'-6"
h1	1'-4"	3'-2"

DETAIL OF BARS
h ≠ h1



**PIERS 1, 2 & 4
ONE BRIDGE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h	112	#5	5'-1"	U
h1	112	#5	4'-6"	U
h2	112	#5	25'-0"	—
n1	180	#5	4'-3"	C
t1	135	#7	11'-0"	—
v3	120	#5	19'-3"	—
v4	60	#5	15'-3"	—
w1	21	#5	29'-6"	—
Test Pile Timber	Each	1/0	*	
Class A Concrete	Cu. Yds.	288.7		
Reinforcement Bars	Lbs.	11880		
Untreated Piles	Lin. Ft.	3270		*
Cofferdam Excav.	Cu. Yds.	920		
Cofferdam (Piers 1, 2, 4)	Ea.	3		
Seal Coat Conc.	Cu. Yds.	501.0		

**PIERS 1, 2 & 4
ROCK RIVER
S.B.I. RT. 2 SEC. 77-1B
WINNEBAGO COUNTY
STATION 195 + 19.14**

DESIGNED J. M. Jyavooch
CHECKED J. B. Nelson
J. M. J.
DRAWN W. A. Sausaman
CHECKED J. B. N.
EXAMINED H. G. Baumann
PASSED E. L. Shurt
APPROVED J. E. Shurt

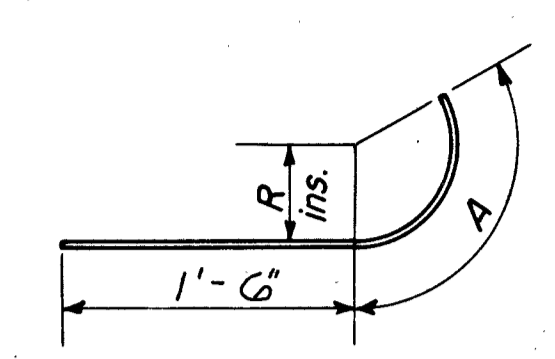
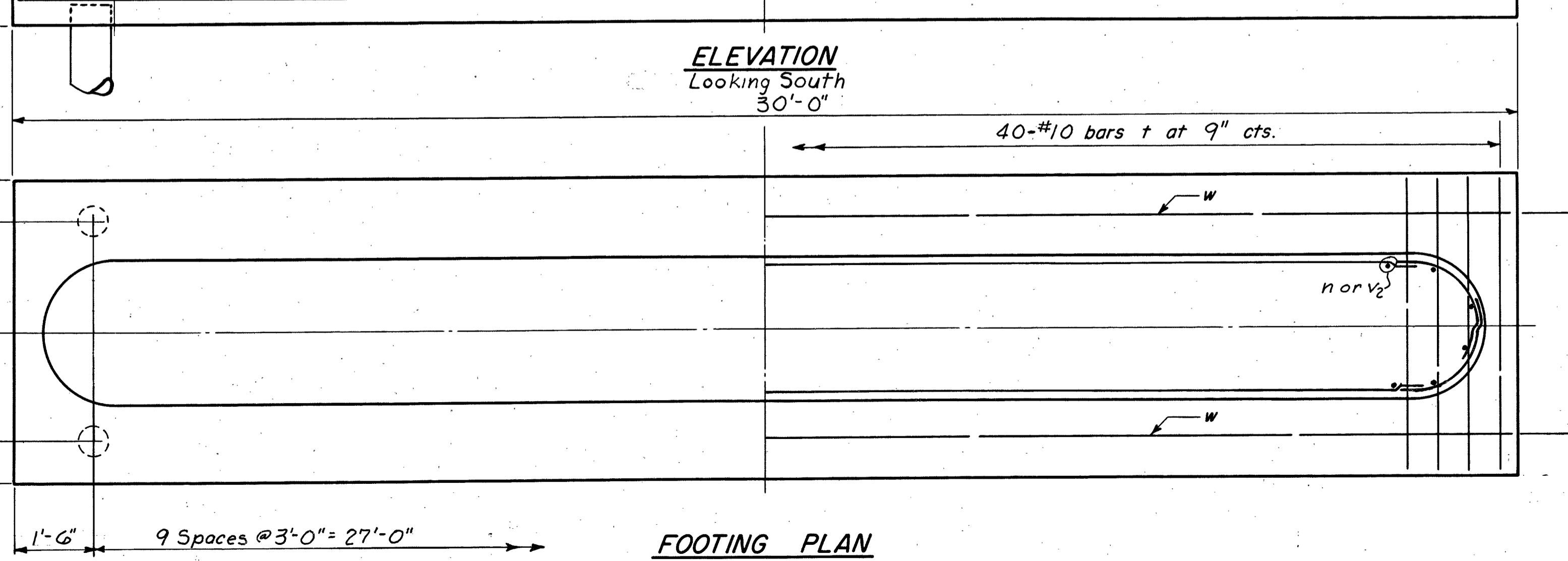
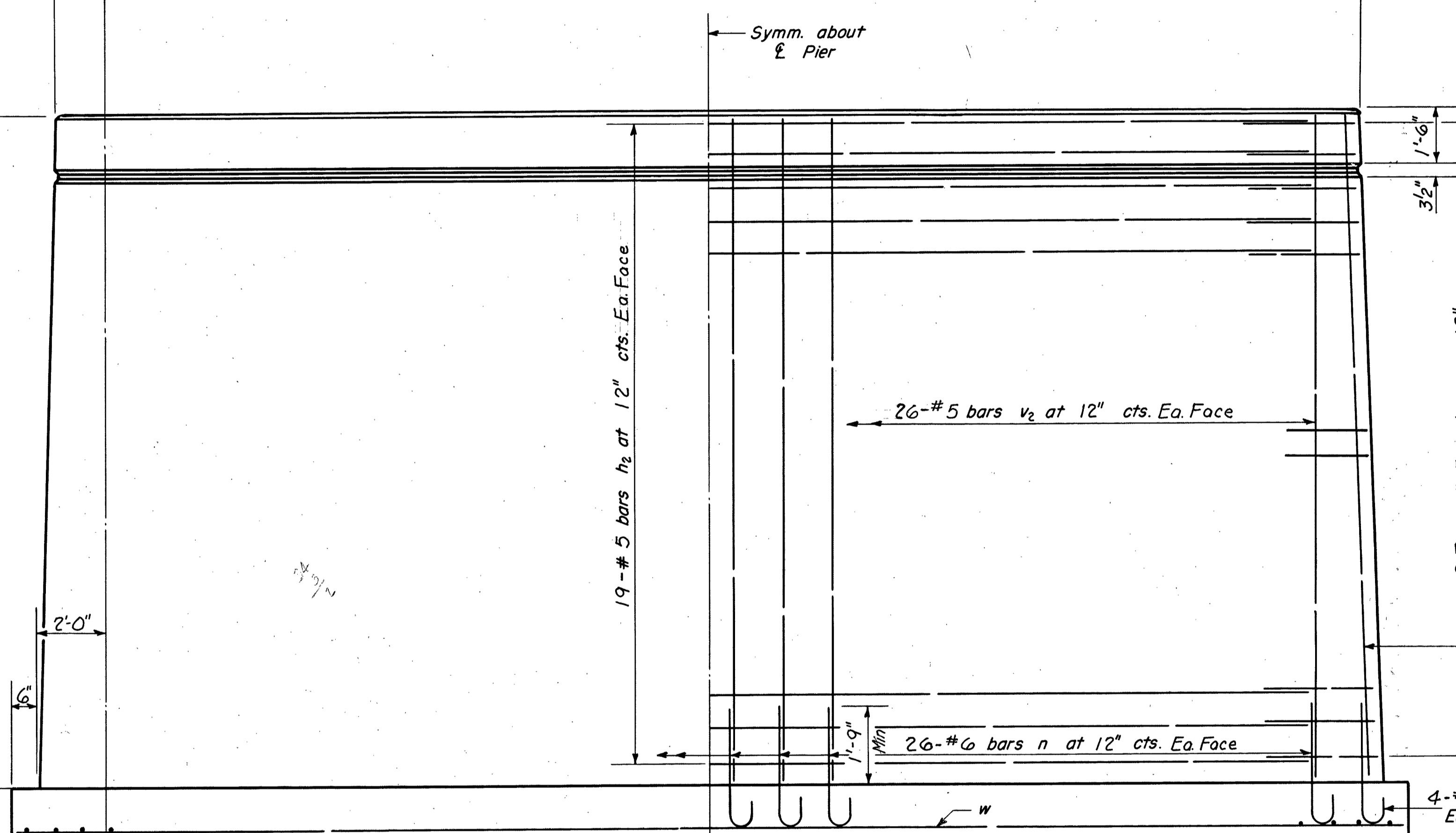
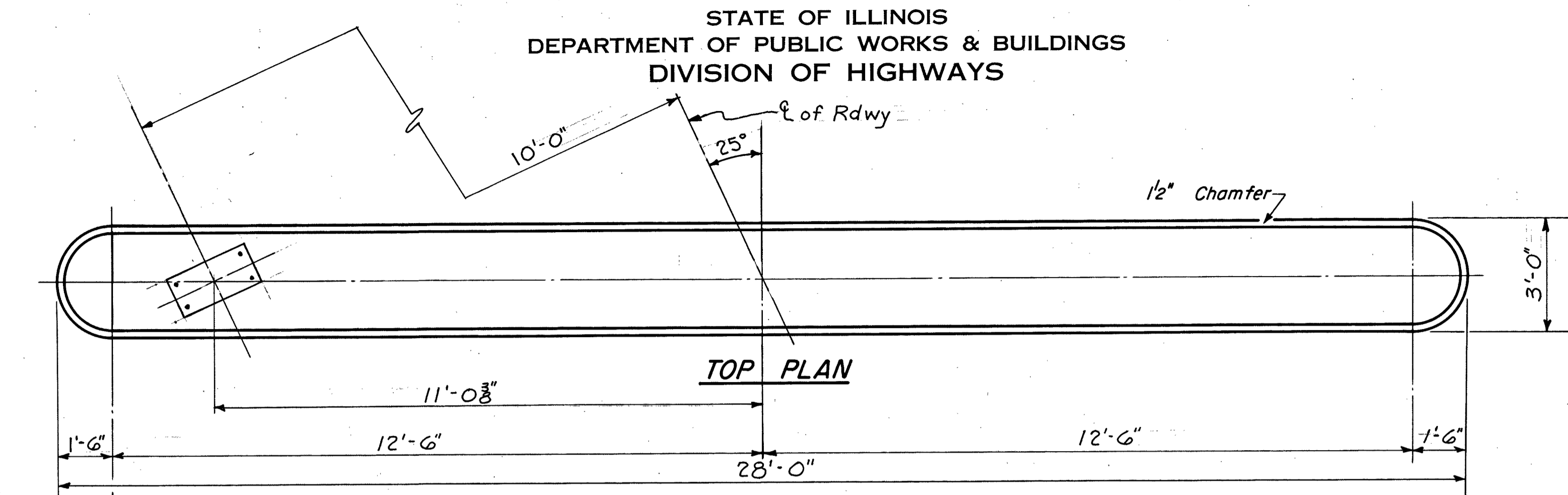
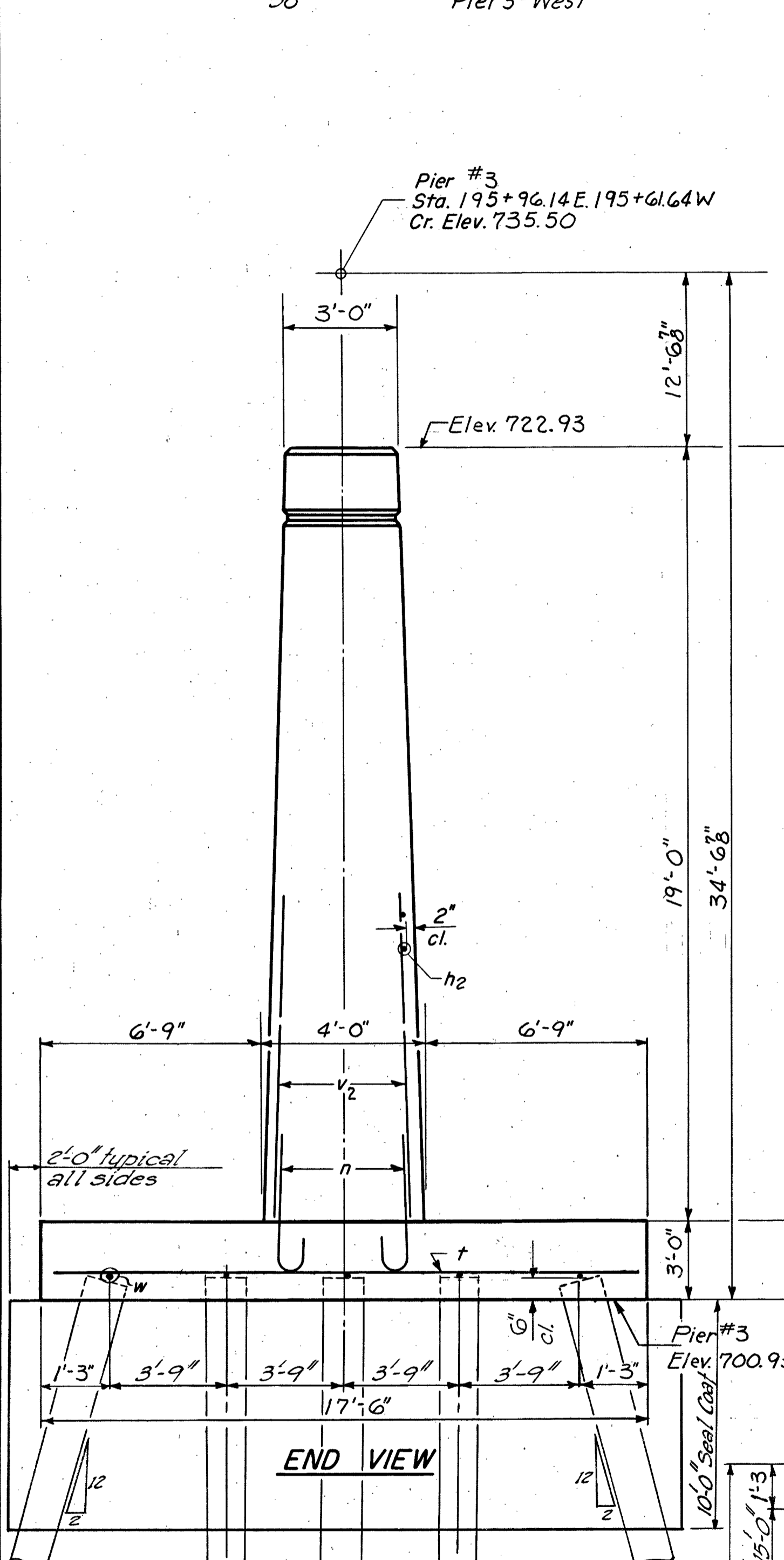
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 12 10 SHEETS
S. B. I. 2	77-1B	WINNEBAGO	29	23	
F.A.		ILLINOIS	FED. AID PROJECT.		

PILE DATA

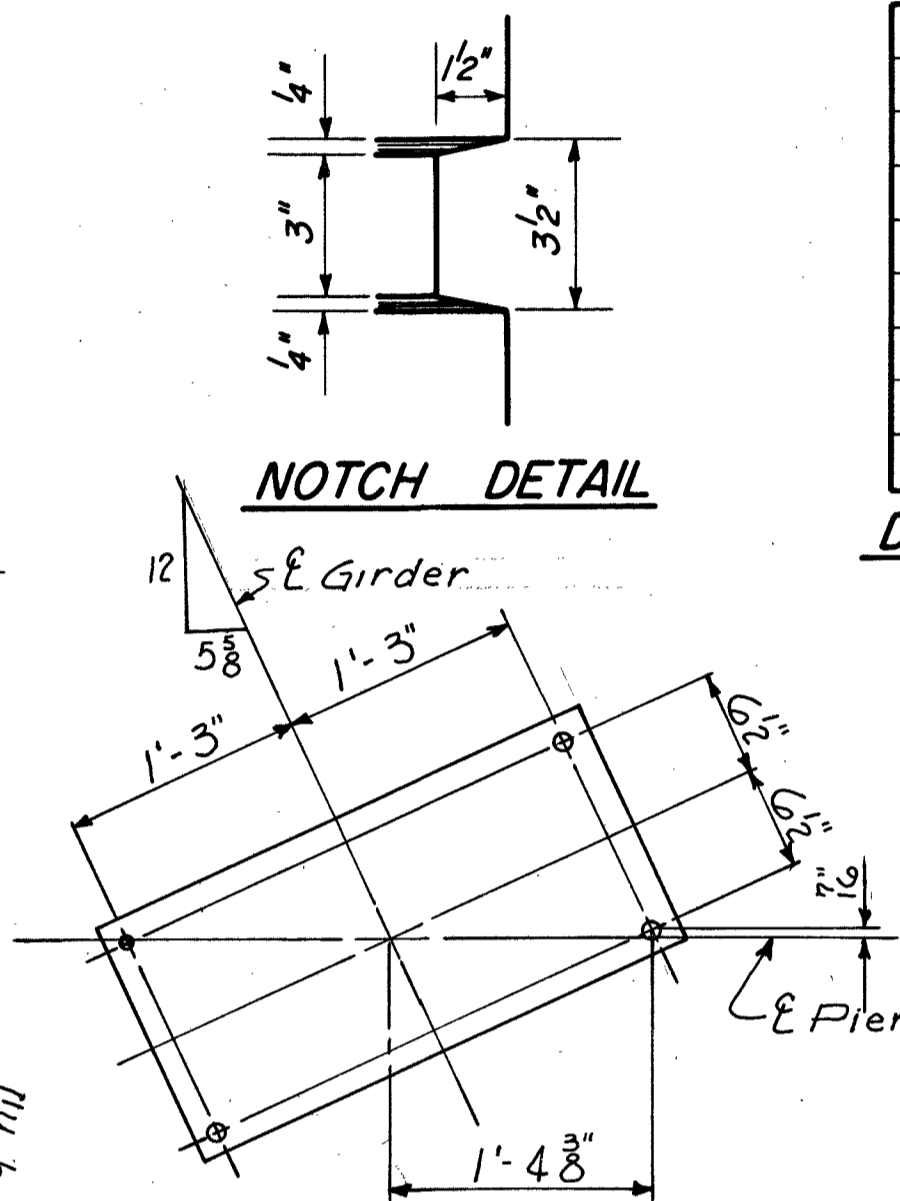
Type Untreated Timber
Capacity 20 Tons
Est. Length 30'-0"
No. Req'd. 49 + 1 Test pile - Pier 3 - East
50 Pier 3 - West

Pier #3
Sta. 195+96.14 E. 195+61.64 W
Cr. Elev. 735.50



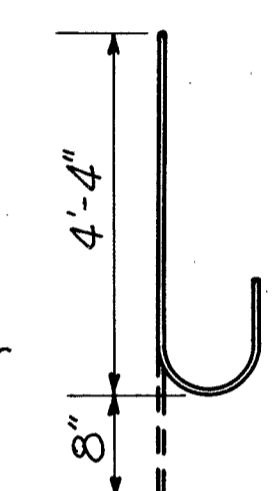
Bar	R	A
h	1'-7"	3'-6"
h1	1'-4"	3'-2"

DETAIL OF BARS
h & h1



NOTCH DETAIL

Bott. Brg. P



BAR n

**PIER #3
ONE BRIDGE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h	40	#5	5'-1"	┌
h1	36	#5	4'-6"	┌
h2	38	#5	25'-0"	—
n	60	#6	5'-0"	┌
t	40	#10	17'-0"	—
v2	60	#5	18'-9"	—
w	5	#8	29'-6"	—
Seal Coat Conc.		Cu. Yds.	270.0	
Class A Concrete		Cu. Yds.	125.5	
Reinforcement Bars		Lbs.	6340	
Untreated Piles		Lin. Ft.	1470	3E 3W
Test Pile (Timber)		Ea.	1	3E 3W
Cofferdam Excav.		Cu. Yds.	420	
Cofferdam (Pier 3)		Ea.	1	

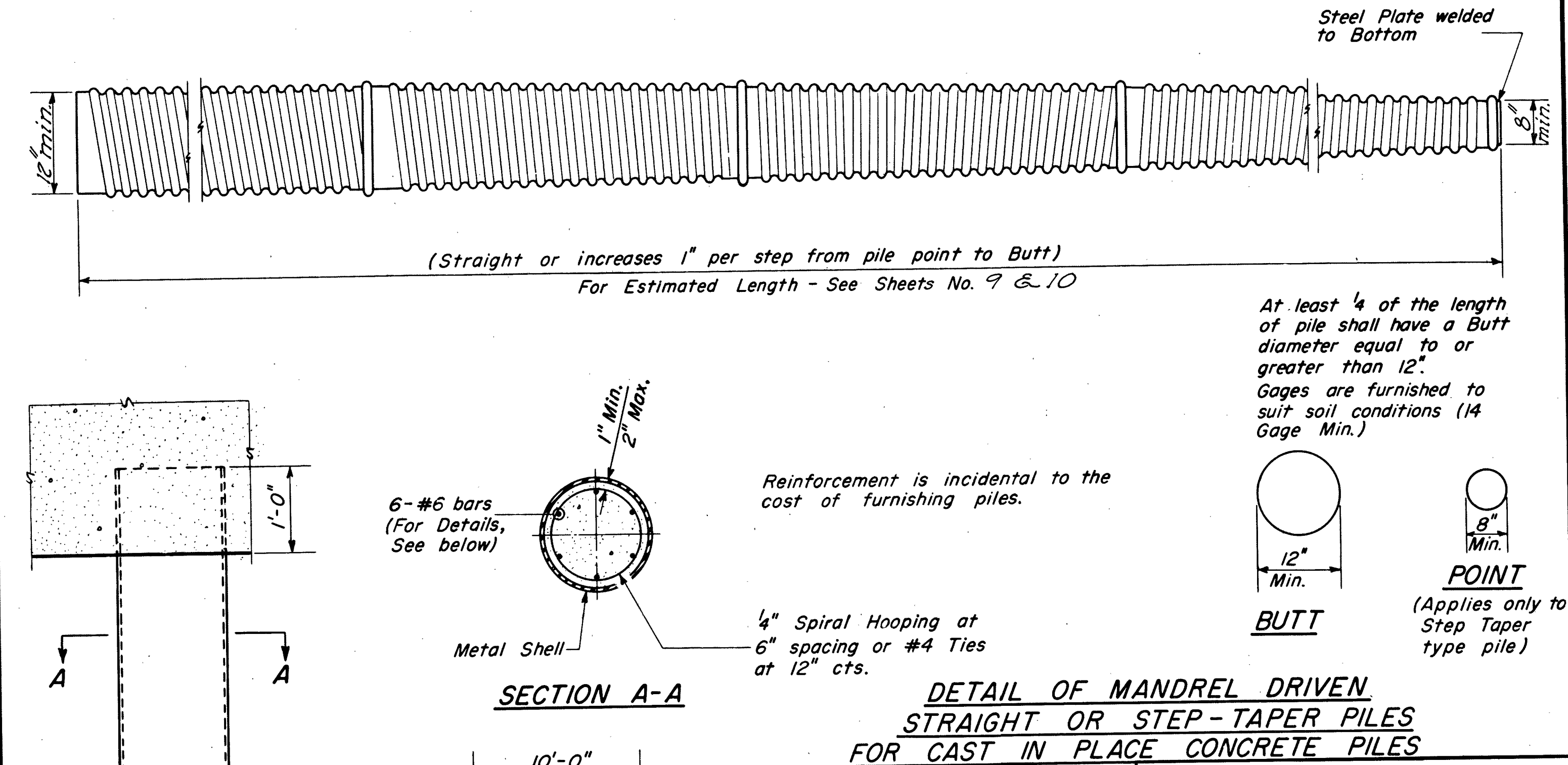
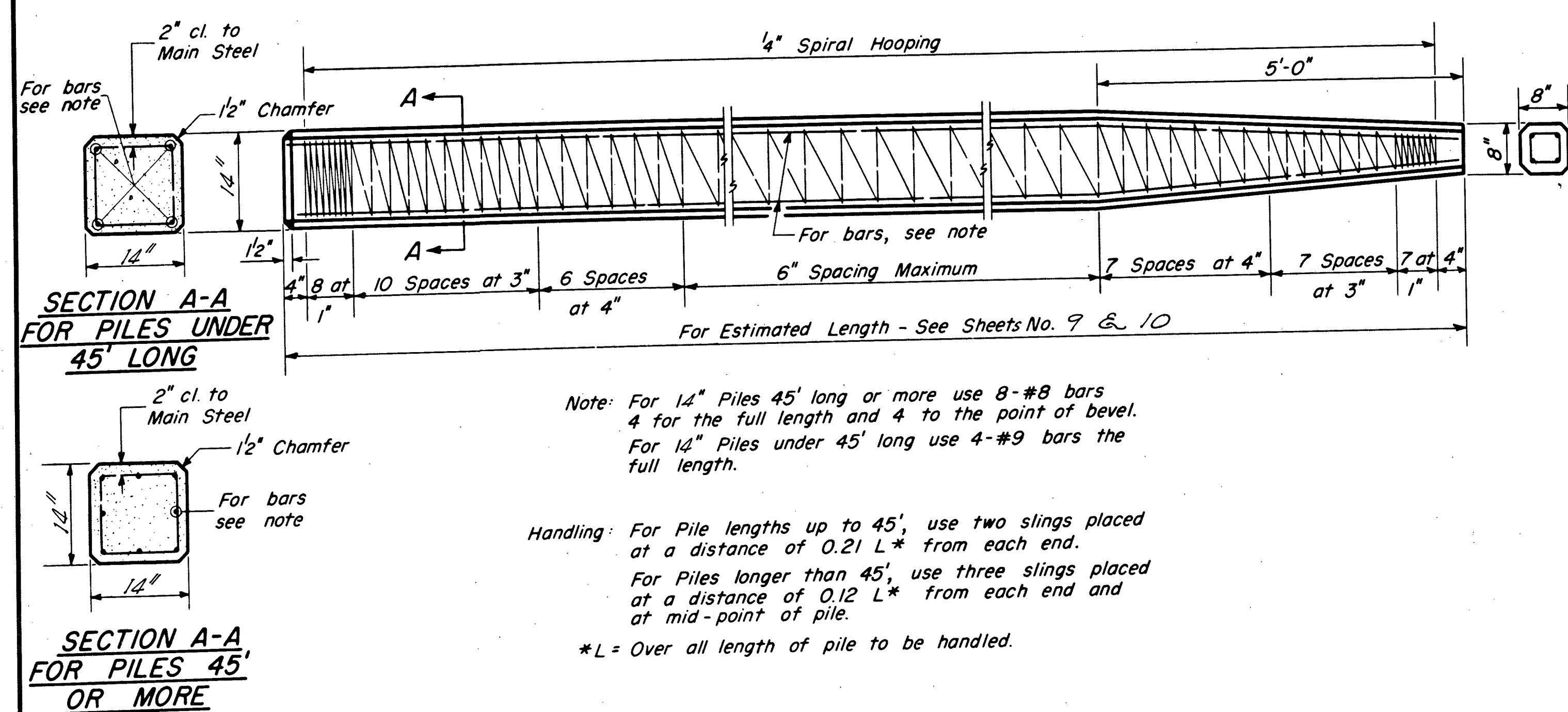
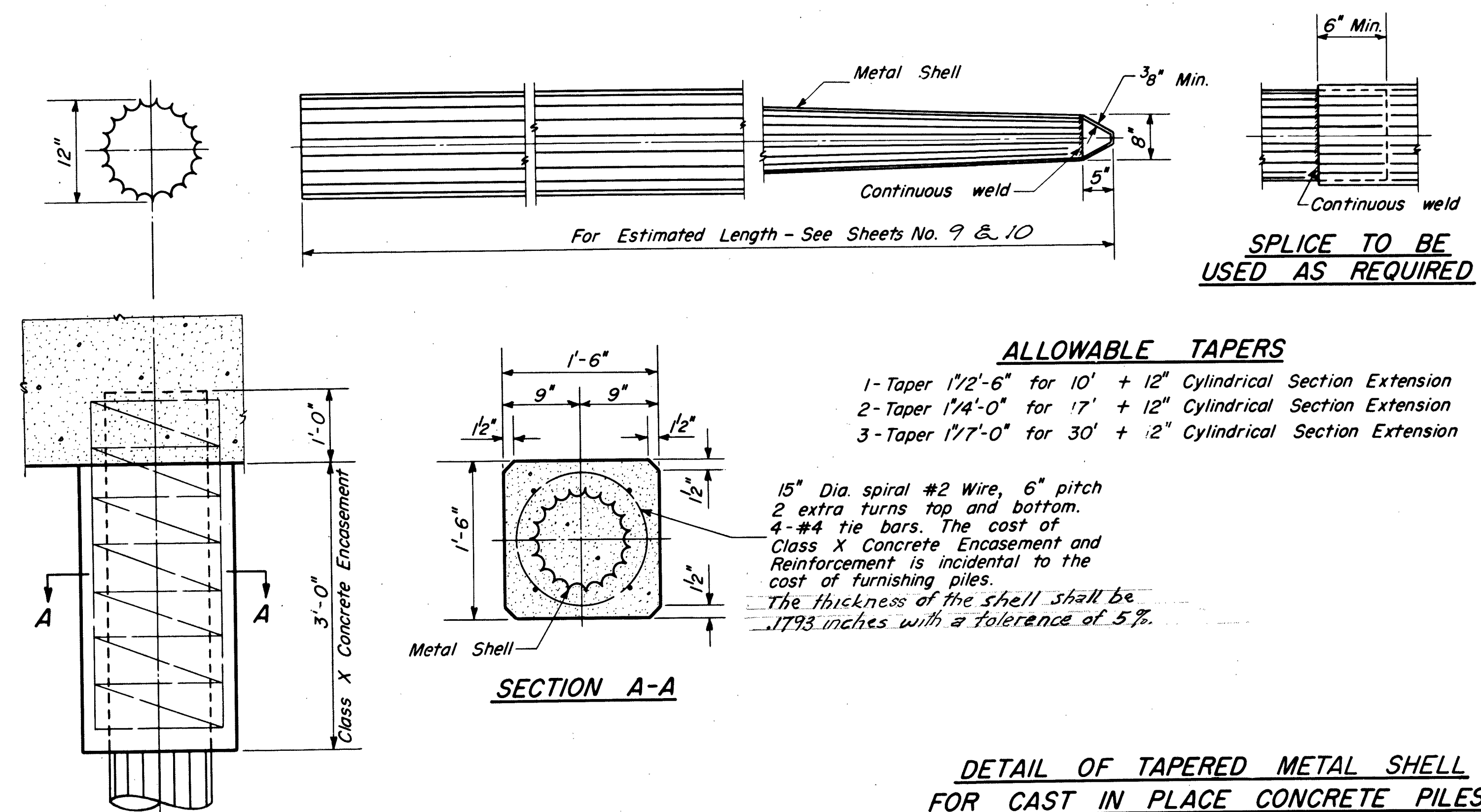
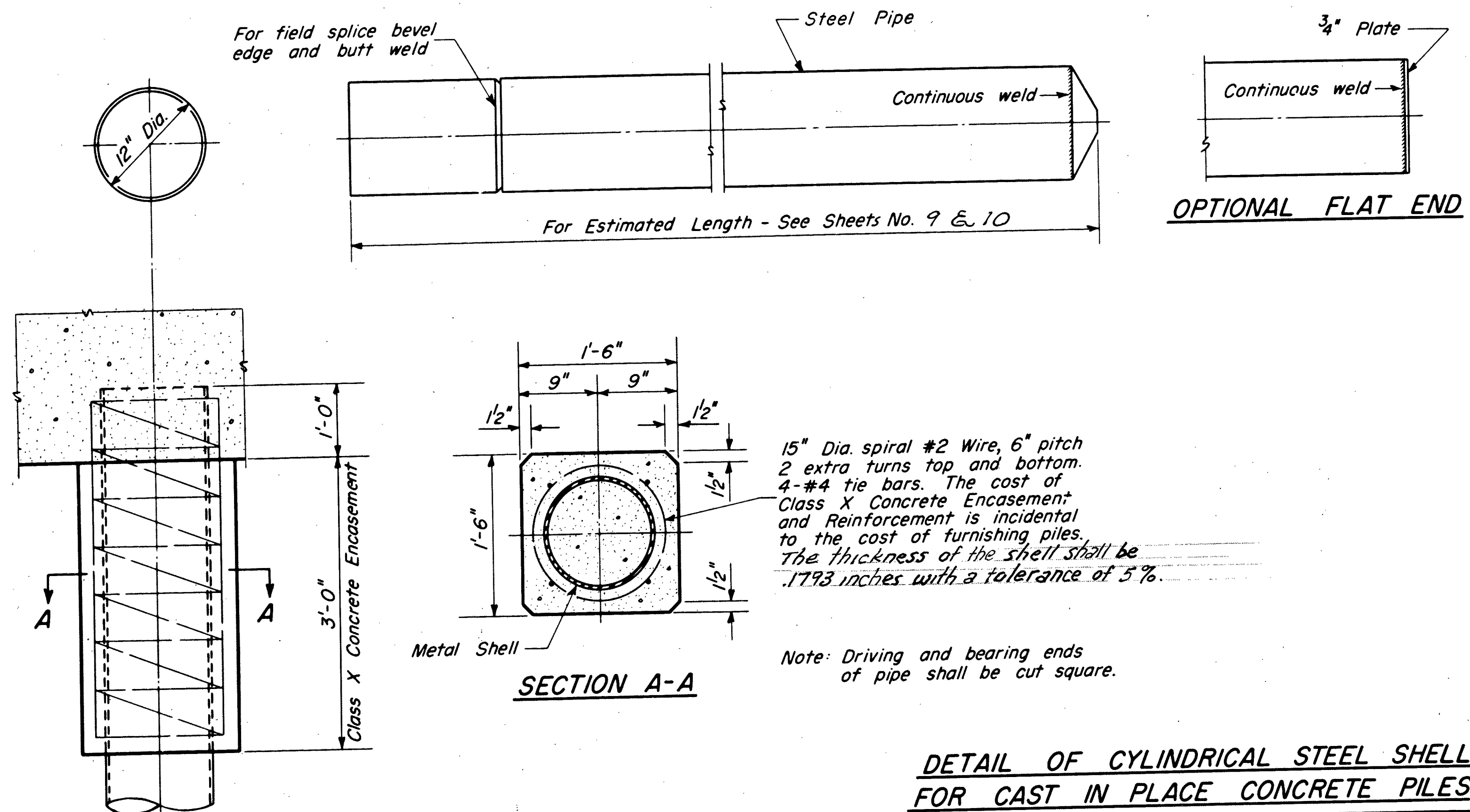
PIER 3
ROCK RIVER
S.B.I. RT. 2 SEC. 77-1B
WINNEBAGO COUNTY
STATION 195 + 19.14

DESIGNED J. M. Jyavork
CHECKED J. B. Nelson
J.M.J. W.E.D.
DRAWN W. A. Sausaman
CHECKED J. B. N.
EXAMINED W. E. Beumann
PASSED E. J. Shultz
APPROVED J. E. Shultz

JAN 8 1963

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 13 10 SHEETS
S.B.L. 2	77-18	WINNEBAGO	29	24	
F.A.					
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			



DESIGNED	J. M. Jyavoth	EXAMINED	W. C. Baumann
CHECKED	J. M. J.	PASSED	E. J. Smith
DRAWN	W. A. Sausaman	APPROVED	J. E. Smith
CHECKED	J. B. Nelson		

JAN 8 1963

ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES

ENGINEER OF DESIGN

CHIEF HIGHWAY ENGINEER

PILE DETAILS

ROCK RIVER
S.B.L. RT.2 SEC. 77-18
WINNEBAGO COUNTY
STATION 195 + 19.14

INDEX OF SHEETS

1	COVER SHEET
2-4	SUMMARY OF QUANTITIES
5	GENERAL NOTES
6-11	TYPICAL SECTIONS
12-14	BITUMINOUS SCHEDULE
15	PATCHING SCHEDULE
16	PAVEMENT REMOVAL (SPECIAL)
17-22	SCHEDULE OF QUANTITIES
23-37	PLAN SHEETS
38	ISLAND DETAILS
39	MEDIAN OFFSETS TO EXISTING PAVEMENT EDGES
40	PAVEMENT OFFSETS FOR EXISTING TEMPORARY CONNECTION
41-43	TRAFFIC SIGNAL PLANS
44-51	PAVEMENT MARKING DETAILS
52-104	BRIDGE REPAIR PLANS
105	TRAFFIC CONTROL DETAILS FOR BRIDGE DECK REPAIRS
106	RECESSED INLET MEDIAN CROSSOVER
107	INLETS TO BE RECONSTRUCTED WITH NEW STANDARD 2240 FRAME AND GRATE
108,109	TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL)
110	METHOD OF CONNECTING PIPE CULVERT EXTENSIONS DETAIL OF ISLANDS
111	GUARDRAIL REFLECTORS PRECAST REINFORCED CONCRETE ARCH DIAMETER FLARED END SECTION
112	TYPICAL MARKING FOR PAINTED ISLANDS CONCRETE REFERENCE MARKERS ACTIVATE SIGNAL SIGN INLET SPECIAL NO. 5
113	GRATING FOR CONCRETE FLARED END SECTION
114	TYPICAL PAVEMENT MARKINGS
115	BITUMINOUS APPROACHES AND MAILBOX RETURNS
116-126A&B	CROSS SECTION

STANDARDS

1517-9	MANHOLES, TYPE A
2112-13	CONCRETE MEDIANS
2113-2	NAMEPLATE FOR BRIDGES
2130-10	CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER
2179-14	24" P.C.C. PAVEMENT
2247-8	INLET BOX FOR 4:1 MEDIAN SLOPE WITH 24" I.D. CULVERT AT RIGHT ANGLE TO CENTERLINE OF MEDIAN
2211-4	FRAME AND LIDS, TYPE 1
2214-4	FRAME AND GRATES, TYPE 3
2218-3	FRAME AND GRATES, TYPE 9
2228-4	METAL END SECTION FOR PIPE CULVERTS
2230-16	STEEL PLATE BEAM GUARDRAIL
2259-8	WIDENING AND SHOULDERS FOR PAVEMENT RESURFACING
2262-4	REINFORCED CONCRETE PIPE ELBOW AND PRECAST REINFORCED CONCRETE FLARED END SECTION
2298-8	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2299-11	DESIGN OF TRAFFIC CONTROL DEVICES
2300-3	FLYMAN TRAFFIC CONTROL SIGN
2302-5	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2303-6	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2305-5	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2305-6	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2307-6	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2308-5	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2311-8	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2314-5	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2316-12	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
2323-11	PAVEMENT JOINTS
2324-7	BRIDGE APPROACH SHOULDER PAVEMENT
2336-4	TRAFFIC BARRIER TERMINAL, TYPE 1 AND 1A
2337-2	TRAFFIC BARRIER TERMINAL, TYPE 2
2340-4	TRAFFIC BARRIER TERMINAL, TYPE 5 AND 5A
2347-4	PAVEMENT FABRIC
2354-1	PRECAST REINFORCED CONCRETE PLAT SLAB TOP
2356-1	SIDEWALK RAMP FOR THE HANDICAPPED
2368-1	DETAILS OF CONCRETE AND MORTAR HANDHOLES
2369-1	DETAILS OF DOUBLE HANDHOLES AND JUNCTION BOXES
2370-1	DETAILS OF DETECTOR INSTALLATIONS
2371-2	DETAILS OF MOUNTING TRAFFIC SIGNALS
2373	DETAILS OF SERVICE INSTALLATIONS
2374-1	DETAILS OF STEEL MAST ARM ASSEMBLY AND POLE
2376-2	DETAILS OF CONCRETE FOUNDATIONS
2380-3	MAST ARM MOUNTED STREET NAME SIGNS
2381	TEMPORARY EROSION CONTROL SYSTEMS
2383-1	TEMPORARY CONCRETE BARRIER
2391-1	DETAILS OF COMBINATION STEEL MAST ARM ASSEMBLY AND POLE
2393-1	STANDARD SEQUENCE FOR TRAFFIC-ACTUATED CONTROLLERS
2394	TYPICAL LAYOUT FOR DETECTOR LOOPS
2397-1	TYPICAL APPLICATIONS, RAISED REFLECTIVE PAVEMENT MARKERS (SNOW/PLOW-RESISTANT)
2399-1	STEEL BALL RETROFIT FOR BRIDGES
2409-1	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES, TWO LANE
2426-1	CLASS B PATCHES
2427-1	CLASS C AND D PATCHES
U-4	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES

"CALL J.U.L.I.E.
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TWP: ROCKTON SECS: 7,8,19,24,25&36

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

**FA 734(IL 2)
SECTION (77-1)RS & 77-1HVB-D
PROJECT F-734(25)
WINNEBAGO COUNTY**

C-92-177-90



NET LENGTH OF SECTION = 23,968.70 LIN. FT. = 4.54 MILES

CONTRACT NO. 84316

* (77-1)RS
77-1HVB-D

FA 734	*	WINNEBAGO	126	I
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D-92-044-89



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED - January 15, 1991

EXAMINED - 2-29-91
Harry D. Gould, ENGINEER IN CHARGE AND CONTRACTS

PASSED - 3-29-91
R. Williams, MEMBER OF DESIGN

APPROVED - 3-29-91
Ralph C. Welner, DIRECTOR, DIVISION OF HIGHWAYS

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ADMINISTRATOR DATE

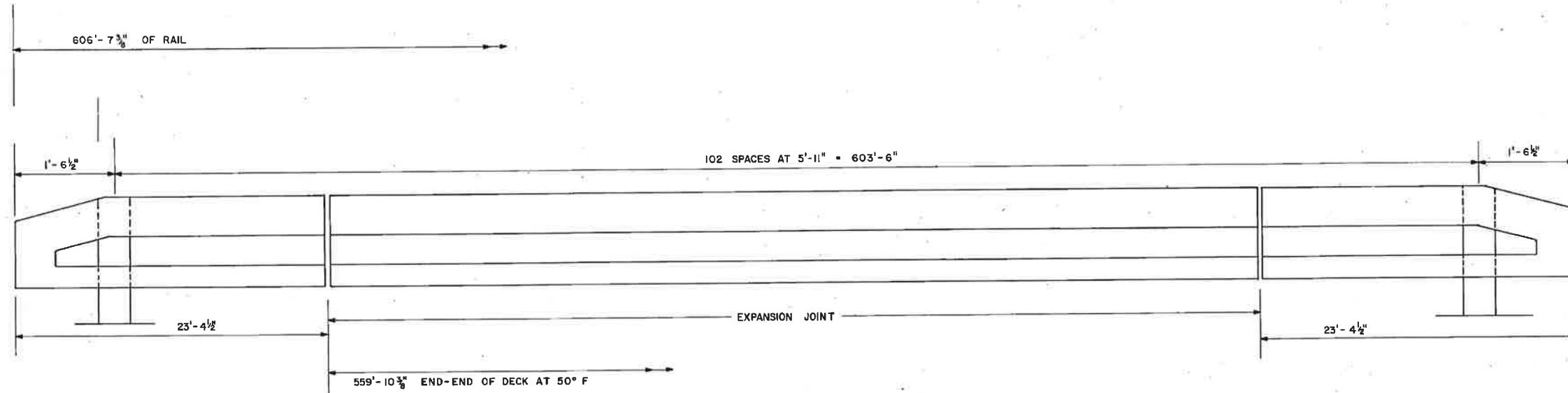
DISTRICT 2
DIXON

Rev 4-23-91

PROJECT ENGINEER - E. BERT WAGNER
SQUAD LEADER - DAN TOBIN

STEEL BRIDGE RAIL

*(77-1)RS				
ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FA 734	*	WINNEBAGO	126	66
FED. ROAD DIST. NO. 1	SL. NO. 8	PROJECT		



STEEL BRIDGE RAIL

LOCATION	LIN. FT.
BR 125 LT	607
BR 125 RT	607
BR 126 LT	607
BR 126 RT	607
TOTAL	2428

STRUCTURES NO'S 101-0125 & 101-0126

DISTRICT NO. 2 DIXON
 DESIGNED K OUDYN
 DRAWN M SPIELMAN
 CHECKED _____
 DATE 1-91
 SCALE _____

REFER TO STANDARD 2399