

CITY OF WICHITA

SEDGWICK COUNTY, KANSAS

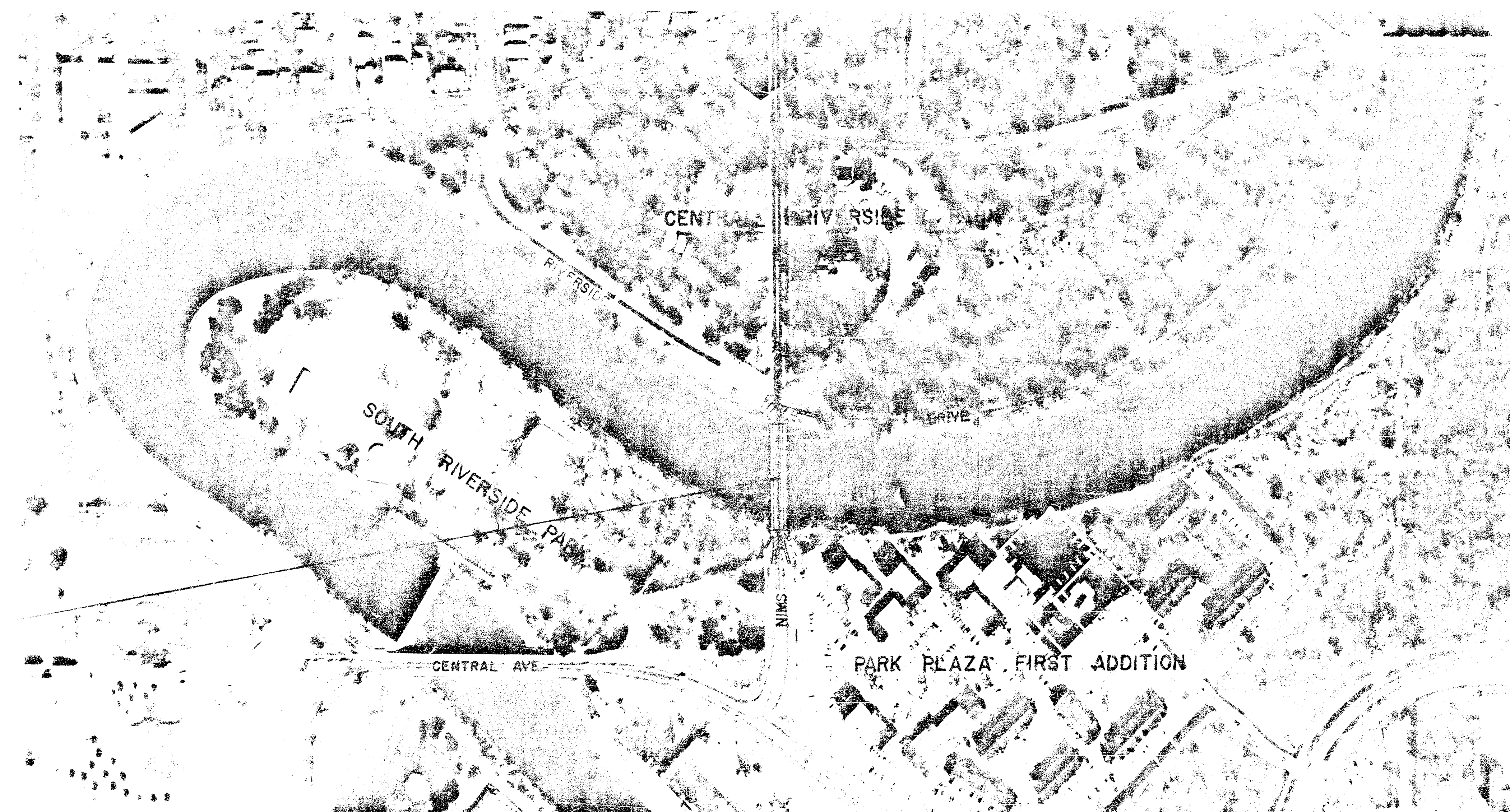
WOODMAN BRIDGE

PROJECT NO. DAKB 576042

INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE SHEET
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14	LIGHTING DETAILS
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17	SUPPORTS AND SPACERS FOR REINFORCING STEEL

STA 11+75
45'-3" AT 52'-45" CONT. R.C.
SLAB SPANS 28'-0"
ROADWAY AND TWO 8'-0"
SIDEWALKS



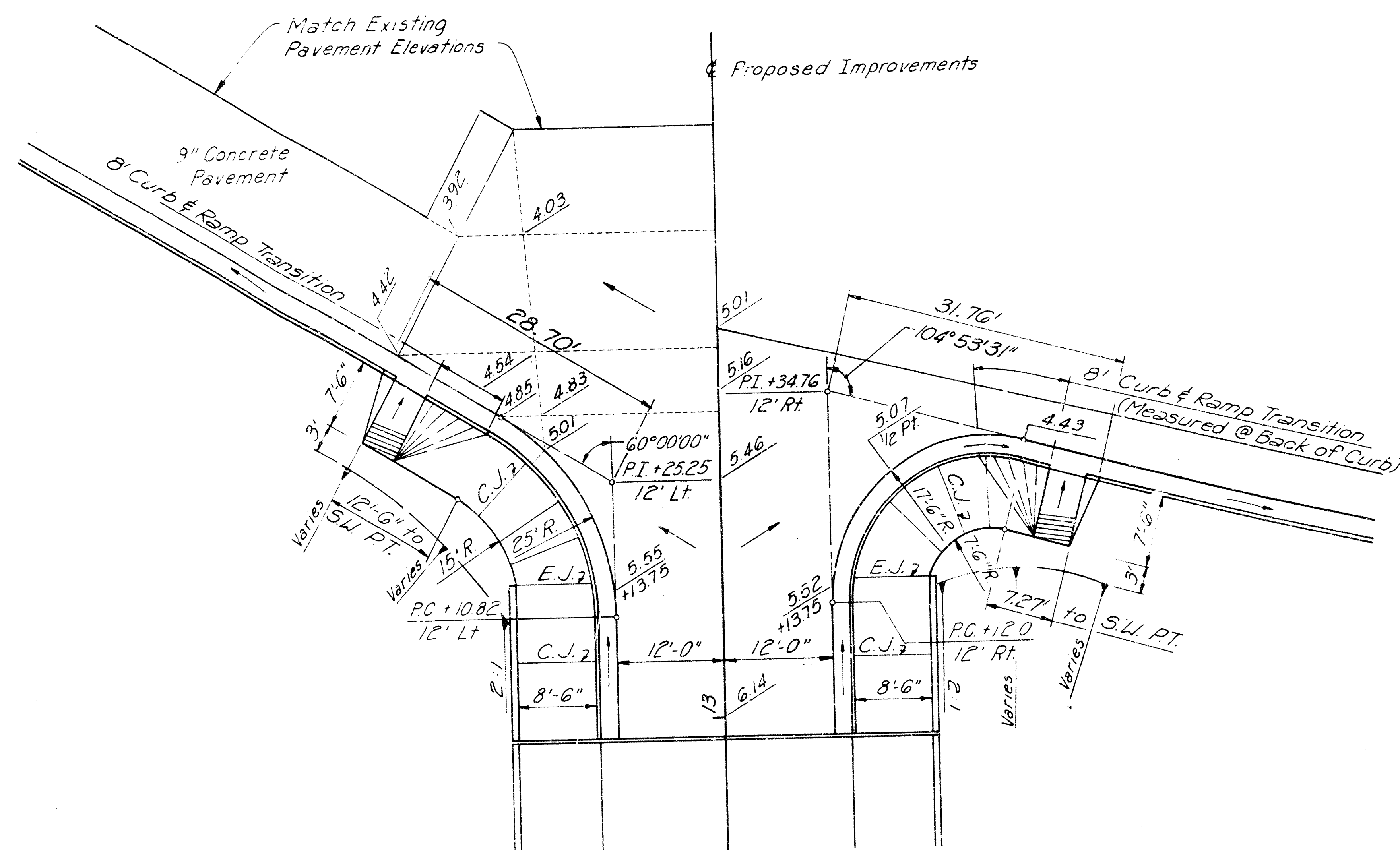
SCALE 1" = 200'

LITTLE ARKANSAS RIVER CROSSING

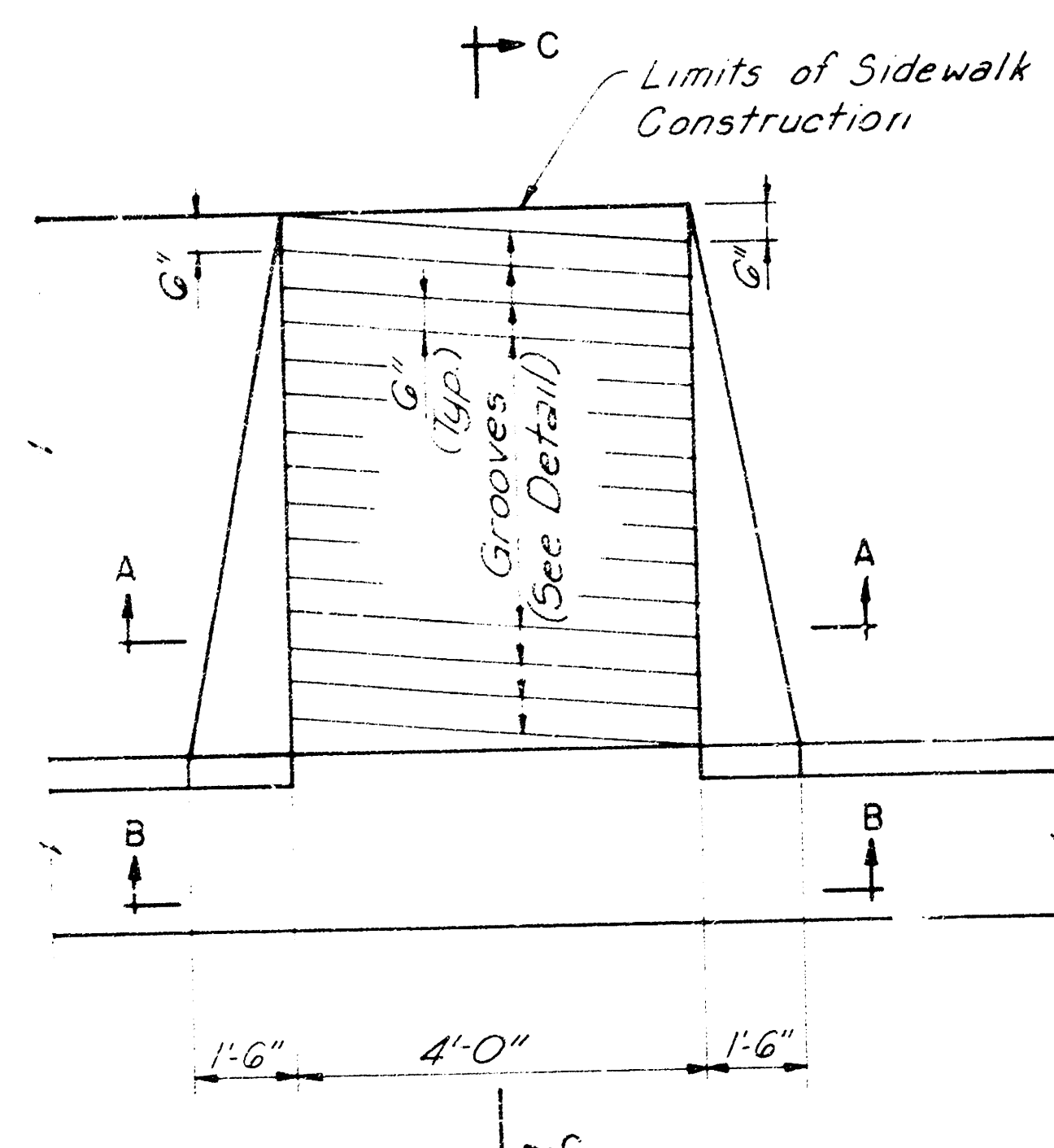
1977

PLANNED BY
PROFESSIONAL ENGINEERING CONSULTANTS, INC.

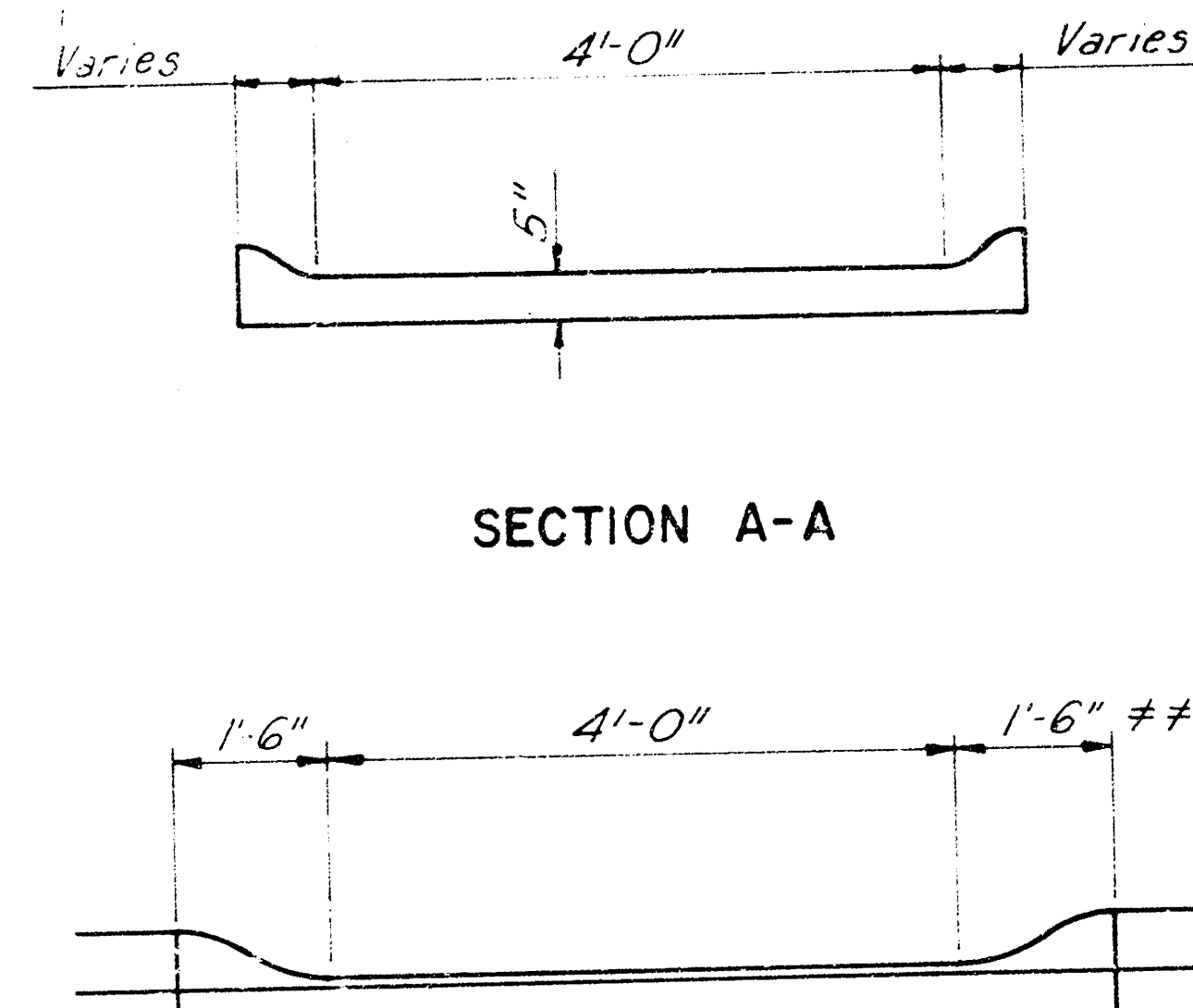
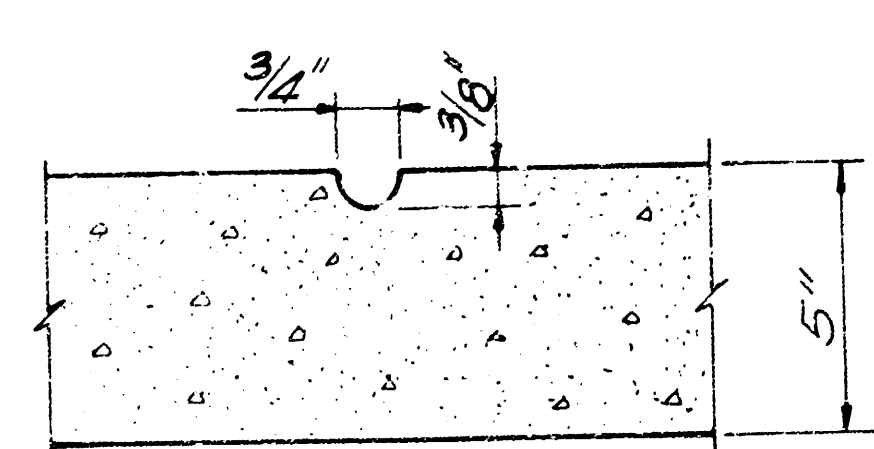
PROJECT NO.	SHEET NO.	TOTAL SHEETS
DAKB 576042	3	17



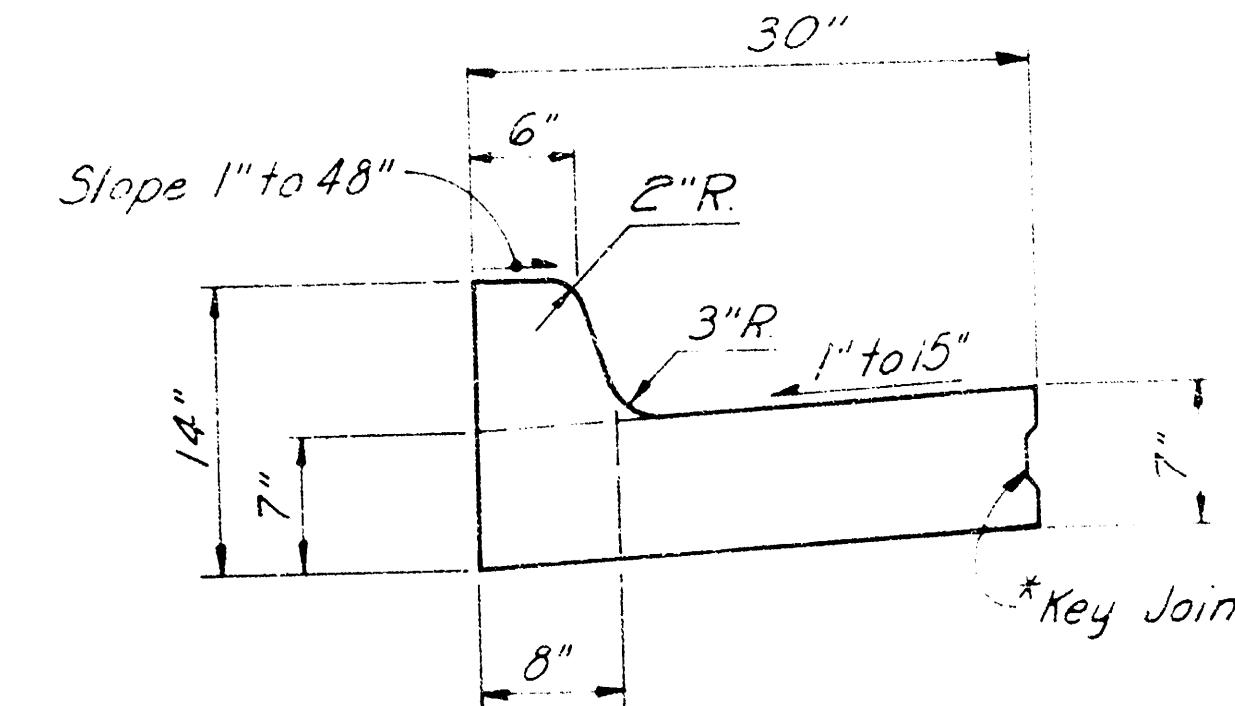
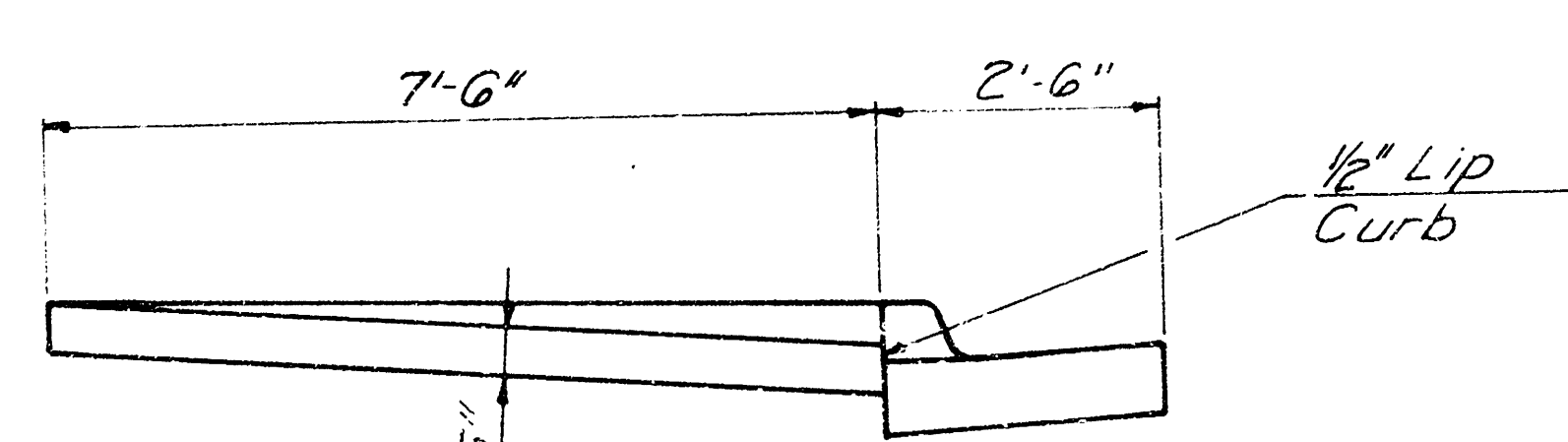
NORTH BRIDGE APPROACH
PAVING & SIDEWALK DETAILS



SIDEWALK RAMP DETAILS

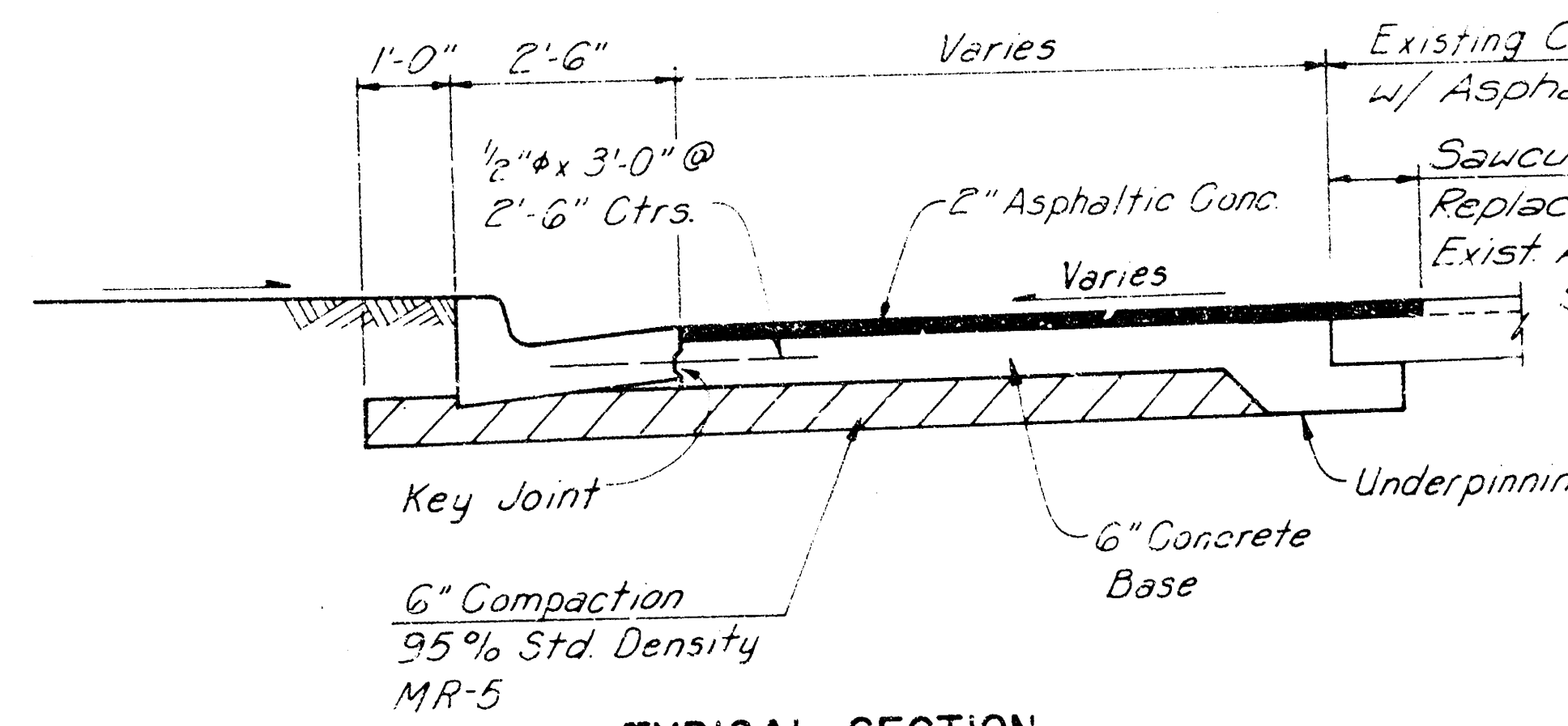
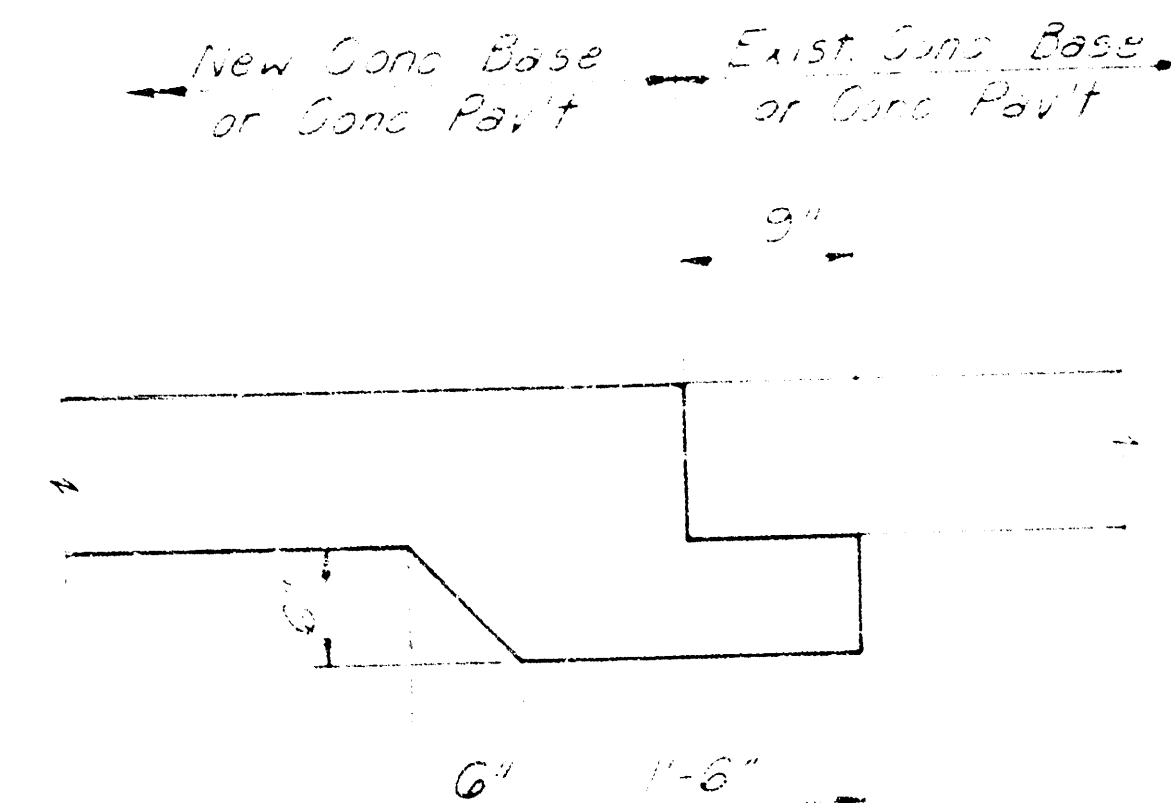


8' for Ramps @ N. Abut.
See detail this sheet

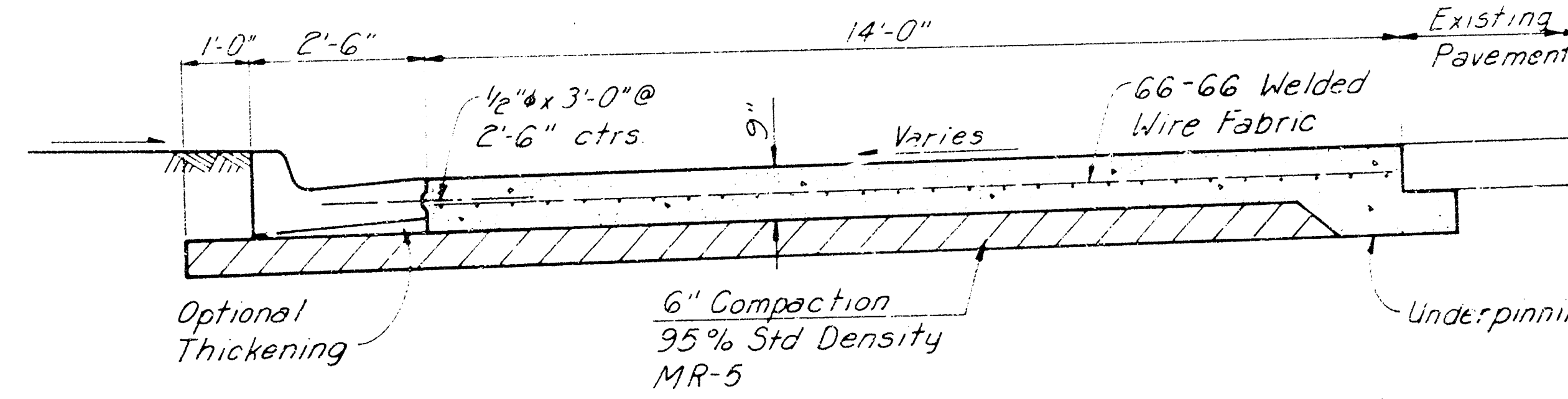


COMBINED CURB & GUTTER

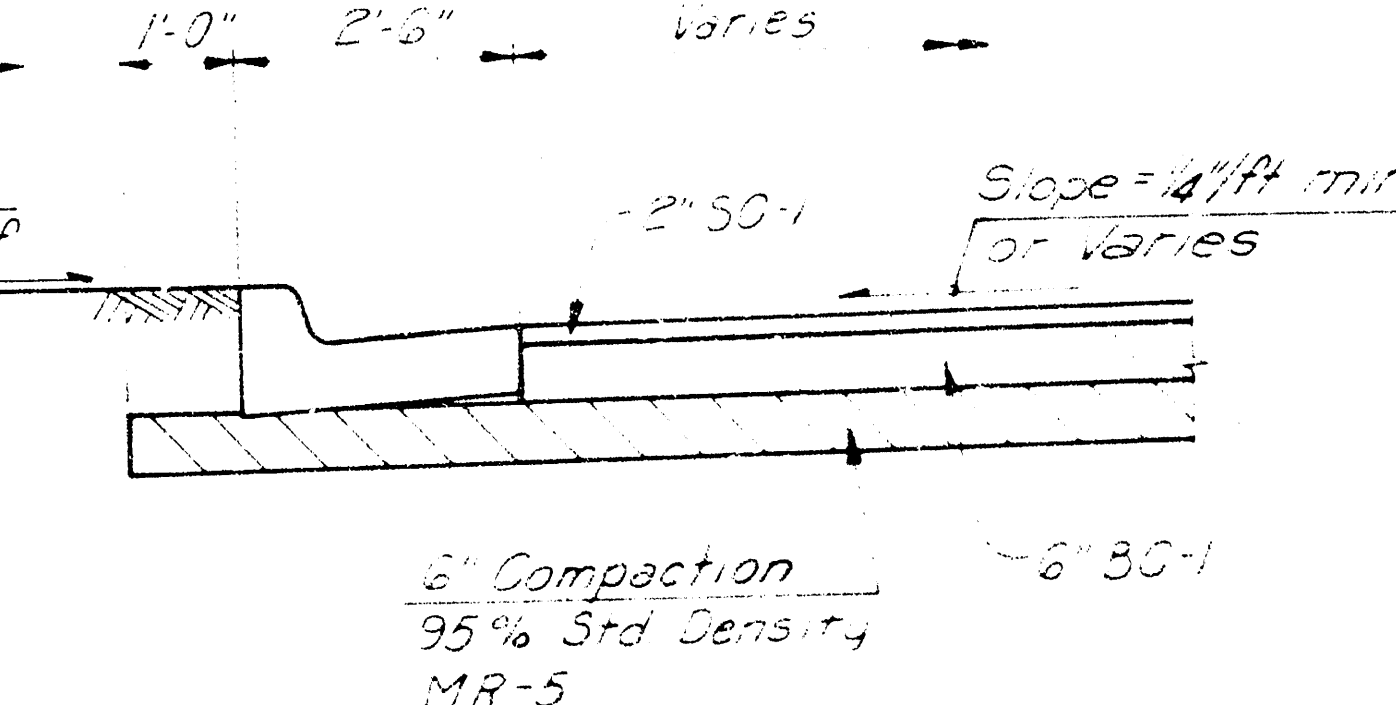
* Omit where Curb & Gutter
abuts full depth Asphalt
Pavement



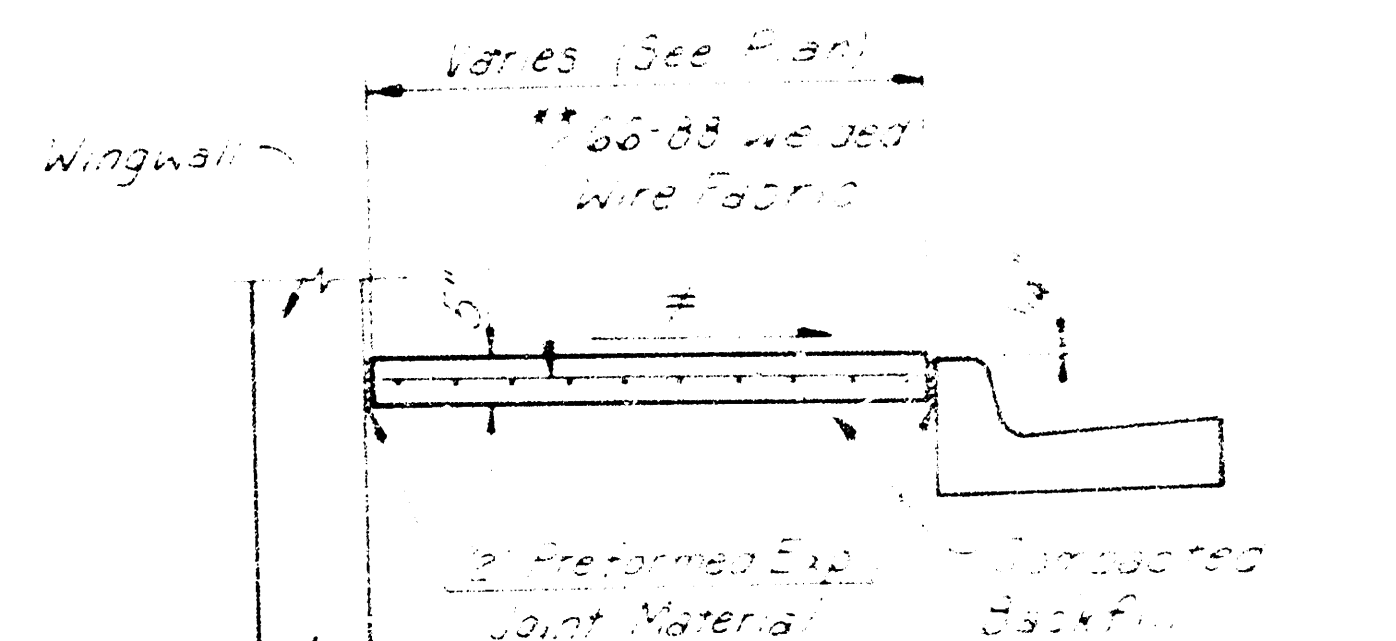
TYPICAL SECTION
CONCRETE BASE WIDENING
AT
SOUTH BRIDGE APPROACH



TYPICAL SECTION
CONCRETE PAVEMENT

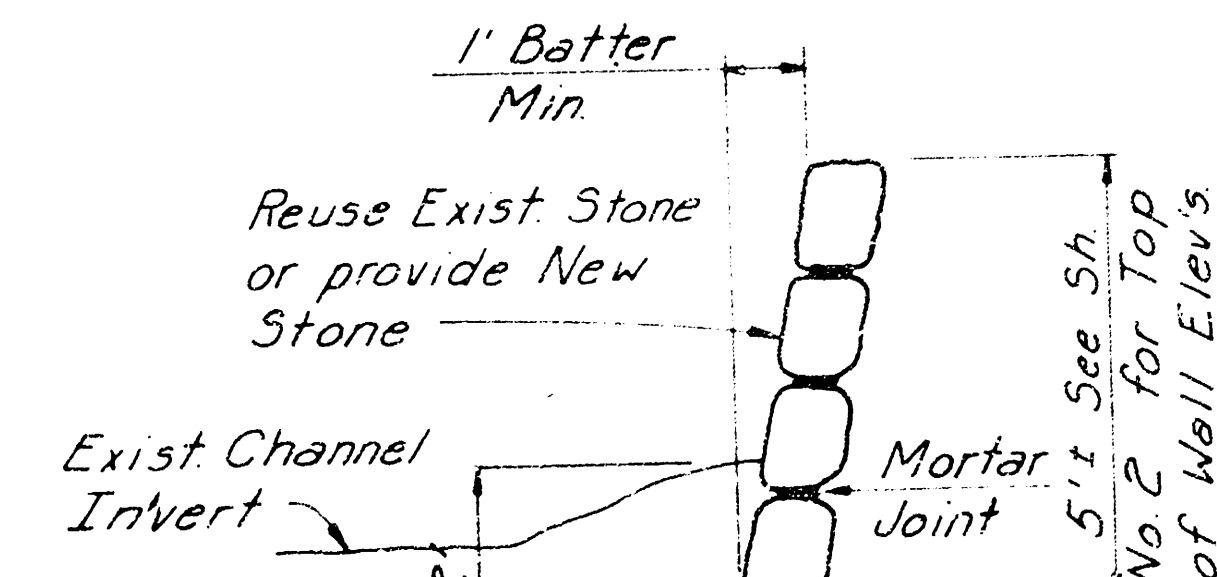


TYPICAL HALF SECTION
FULL DEPTH ASPHALT



* Slope = 1/4" ft min. Transition to
1/4" ft @ end of Bridge Wing

** May be omitted in sidewalk outside the
Bridge Wings at South Abutment.
Extend mesh through Contraction Joints.



STONE MASONRY
WALL DETAIL

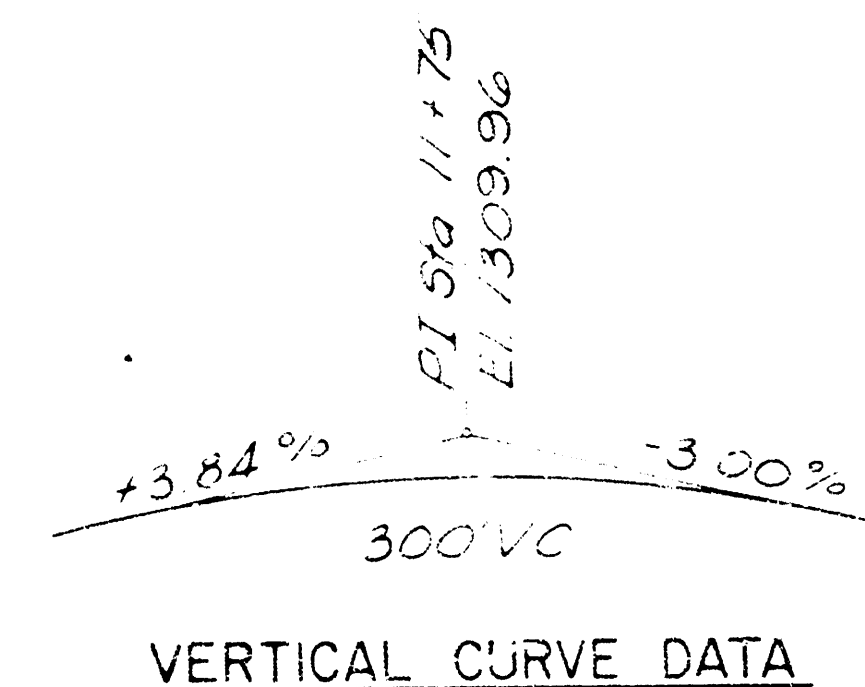
Note: New stone shall be comparable
in size and shape to the
existing stone and shall be
as approved by the Engineer.

CITY OF WICHITA KANSAS
RW LINN, P.E. CITY ENGINEER
SURFACING DETAILS
WOODMAN BRIDGE
OVER THE LITTLE ARKANSAS RIVER
CITY OF WICHITA PROJECT NO. DAKB 576042
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by: _____
Drawn by: _____
Checked by: _____
Date: _____

3M*2 RR Spike in E Side of N Pole of
Dbl. Transformer & Power Pole Sta
14+42.2 Rt. (Ground Level) E1 1302:025

Figure 1 consists of four subplots arranged in a 2x2 grid. The top-left plot shows the number of nodes in the network (N) on the y-axis versus time (t) on the x-axis. The curve starts at a low value and increases, leveling off at a steady state. The top-right plot shows the number of nodes in the network (N) on the y-axis versus time (t) on the x-axis. The curve starts at a higher value than the top-left plot and increases, leveling off at a higher steady state. The bottom-left plot shows the number of nodes in the network (N) on the y-axis versus time (t) on the x-axis. The curve starts at a low value and increases, leveling off at a steady state. The bottom-right plot shows the number of nodes in the network (N) on the y-axis versus time (t) on the x-axis. The curve starts at a higher value than the bottom-left plot and increases, leveling off at a higher steady state.



LOADING: HS 20-44 AASHTO Specifications Edition of 1973.

UNIT STRESSES: $f_c = 4000 \text{ psi}$ $f_s = 6000 \text{ psi}$,
 $f_s = 20000 \text{ psi}$

EMBANKMENT: The Contractor shall complete the embankment after the abutments have been constructed.

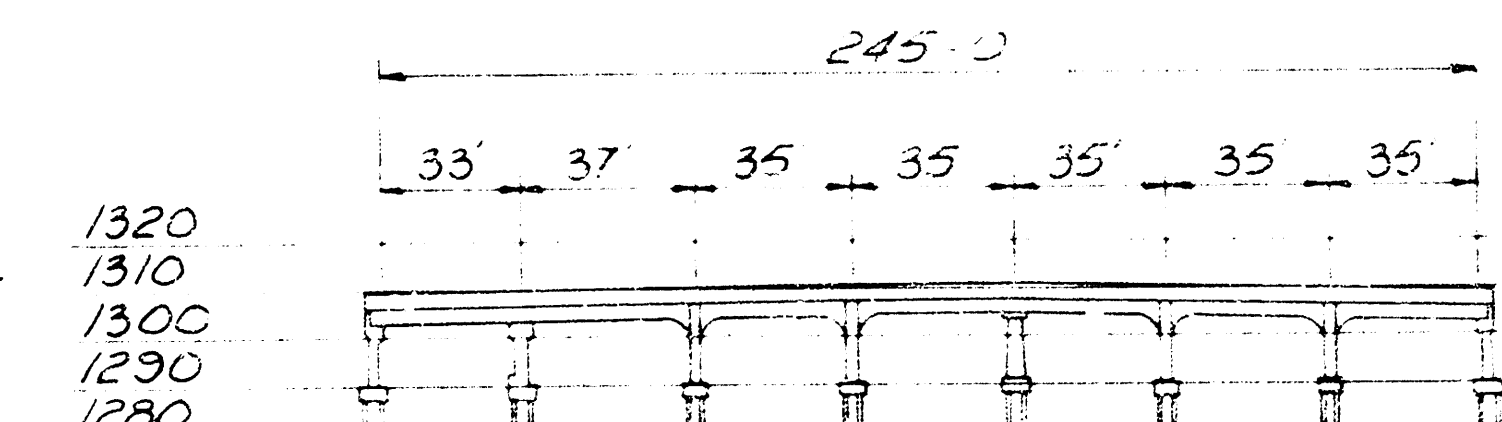
BRIDGE EXCAVATION: Elevation 296.6 shall designate the Excavation Boundary Plans of Class I and II Excavation Class I Above the Plane, Class II below See Bridge Excavation sheet for limits of pay excavation.

SOUNDINGS: The soundings shown on these plans are taken from notes obtained in the field and represent the best information to the City of Wichita Kansas. The logs of these soundings are available for review by prospective bidders at the office of the City Engineer, at the Consulting Engineer's Office, 1440 E. English or at Allied Laboratories 203 South Ellis.

PILES: All piles shall be driven to a penetration into shale unless in the opinion of the Engineer such penetration cannot be obtained without injury to the pile. All piles shall be driven to a minimum composite bearing value as follows:
Abutment Wing Footings 35 Tons/Pile
Abutment Frontwall 48 Tons/Pile
Piers 51 Tons/Pile

REMOVAL OF EXISTING STRUCTURE: The Contractor shall remove the existing structure at 7th & 35th Concrete T-beam spans, concrete abutments and piers, or in construction of the new bridge. Existing piles shall be removed to a minimum elevation of 1285.00.

45'-3" @ 52'-45" Corri. R.C. Slab spans
U-Type Abutments, Pile Bent Type Piers
28'-0" Roadway and two 8'-0" Sidewalks



EXISTING BRIDGE

CITY OF WICHITA KANSAS
R.W. LINN, P.E. CITY ENGINEER

CONSTRUCTION LAYOUT

WOODMAN BRIDGE

OVER THE LITTLE ARKANSAS RIVER

CITY OF WICHITA PROJECT NO. DAKB 576042

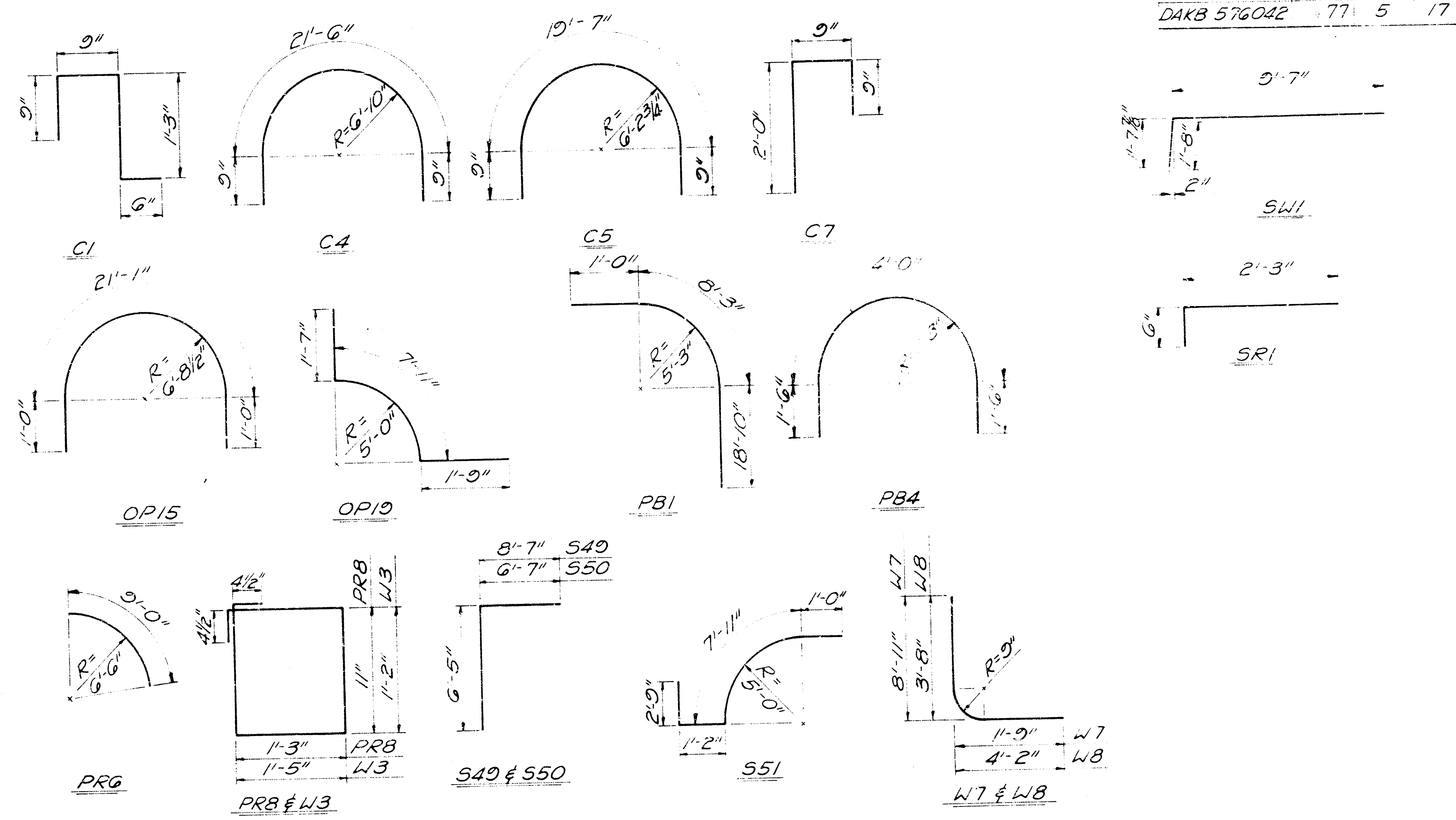
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

ENGINEERS
WICHITA, KANSAS

Designed by _____	Checked by _____	
Drawn by _____	Date _____	Sheet No. _____

REINFORCING STEEL											
STRAIGHT BARS				STRAIGHT BARS				STRAIGHT BARS			
Mark	No	Size	Length	Mark	No	Size	Length	Mark	No	Size	Length
A1	88	#8	14'-11"	PR1	24	#4	16'-11"	S35	12	#6	53'-0"
A2	88	#6	14'-11"	PR2	584	#4	4'-0"	S36	28	#8	31'-0"
A3	44	#4	43'-8"	PR3	48	#4	7'-11"	S37	16	#7	31'-0"
				PR4	24	#4	7'-8"	S38	42	#8	27'-0"
				PR5	48	#4	2'-8"	S39	16	#6	27'-0"
				PR7	48	#6	4'-0"	S40	48	#8	21'-0"
AD1	76	#8	3'-0"					S41	12	#6	21'-0"
								S42	44	#4	22'-0"
AF1	10	#6	44'-8"	S1	52	#4	25'-6"	S43	16	#9	53'-0"
AF2	60	#4	2'-2"	S2	28	#5	30'-3"	S44	6	#7	53'-0"
				S3	32	#10	49'-0"	S45	14	#9	32'-0"
				S4	28	#10	35'-6"	S46	8	#7	32'-0"
C2	8	#6	39'-3"	S5	28	#10	28'-0"	S47	8	#7	27'-0"
C3	16	#6	36'-8"	S6	32	#10	22'-0"	S48	6	#7	21'-0"
C6	8	#5	16'-11"	S7	28	#5	17'-6"	SR2	2	#4	29'-8"
				S8	32	#10	48'-6"				
				S9	28	#10	35'-0"	T1	114	#4	30'-0"
OP1	56	#5	*	S10	28	#9	28'-0"	T2	228	#5	43'-8"
OP2	20	#7	8'-3"	S11	32	#9	23'-6"				
OP3	8	#5	13'-5"	S12	14	#5	20'-6"	TR1	176	#7	9'-4"
OP4	4	#5	13'-0"	S13	26	#4	7'-0"	TR2	368	#7	2'-9"
OP5	4	#5	12'-5"	S14	20	#4	30'-0"	TR3	88	#7	*
OP6	4	#5	11'-7"	S15	20	#9	49'-0"	TR4	16	#7	16'-7"
OP7	4	#5	10'-6"	S16	20	#8	35'-6"				
OP8	4	#5	9'-11"	S17	20	#8	28'-0"	W1	12	#7	20'-3"
OP9	4	#5	7'-2"	S18	20	#8	22'-0"	W2	4	#7	19'-0"
OP10	4	#4	8'-10"	S19	20	#4	17'-0"	W3	56	#4	5'-11"
OP11	4	#4	11'-4"	S20	20	#8	48'-6"	W4	68	#9	17'-9"
OP12	4	#4	12'-9"	S21	20	#8	35'-0"	W5	44	#4	17'-9"
OP13	4	#4	13'-3"	S22	20	#7	23'-6"	W6	104	#4	17'-8"
OP14	32	#4	*	S23	20	#7	20'-0"				
OP16	8	#4	1'-9"	S24	10	#4	20'-0"	W7	64	#9	10'-5"
OP17	8	#4	2'-4"	S25	32	#10	46'-0"	W8	68	#9	7'-7"
OP18	8	#4	4'-0"	S26	12	#8	46'-0"	W9	68	#9	7'-7"
OP20	24	#4	*	S27	28	#10	29'-6"	W10	68	#9	7'-7"
				S28	16	#8	29'-6"				
				S29	28	#10	35'-0"	W11	68	#9	7'-7"
				S30	16	#8	35'-0"				
PB2	48	#9	25'-3"	S31	32	#9	22'-6"				
PB3	104	#5	44'-0"	S32	12	#8	22'-6"				
PB5	24	#9	24'-0"	S33	44	#4	23'-6"				
				S34	32	#8	53'-0"				

* See Bending Diagrams

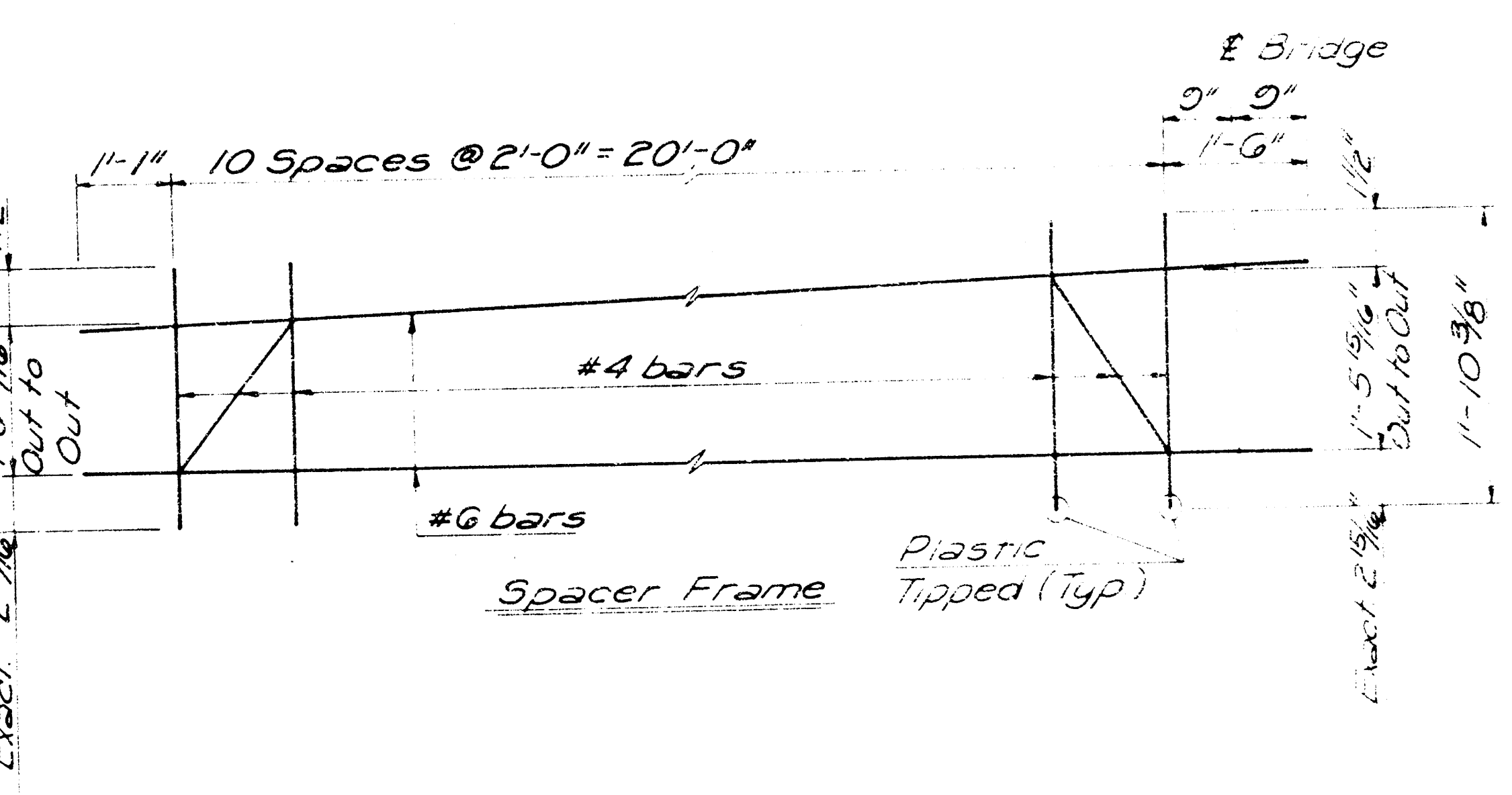


Increase from 1'-9" to 2'-7"
by 1" increments (8 Each Length)
Increase from 1'-6" to 4'-0"
by 1'-3" increments (8 Each Length)
Increase from 5'-9" to 7'-9"
by 8" increments (8 Each Length)
Increase from 5'-0" to 8'-9"
by 7/8" increments (8 Each Length)
TR3, OP20, OP14 & OP1

SUMMARY OF QUANTITIES														
Item	Excavation (Cu Yds.)		Class I Concrete (Cu Yds.)	1/4" Latex Surface Course (Sq Yds.)	Reinforcing Steel (Lbs.)	Concrete Piles (Lin Ft.)	Metal Handrail (Lin Ft.)	Linseed Oil Surface Treatment (Sq Yds.)	Electric Lighting System (Lump Sum)	Removal of Existing Structure (Lump Sum)	Removal of Approach Pavement (Sq Yds.)	Roadway Pavement (Sq Yds.)	Concrete Sidewalk (Sq. Ft.)	Combined Curb & Gutter (Lin Ft.)
	Class I	Class II												
Location	150	421.2	111.8		12,315	587								
Abutment #1		215.3	979		19,575	448								
Pier #1		204.2	979		19,575	420								
Pier #2		201.2	979		19,575	420								
Pier #3		206.5	979		19,575	448								
Pier #4														
Abutment #2	125	389.3	111.9		12,315	629								
Substructure Total	275	1637.7	615.3		102,930	2952								
Superstruct. Total			1191.8	770	137,310		310.6	561			712	540	143	411
Approach														
Total	275	1637.7	1807.1	770	240,240	* 2952	310.6	561	Lump Sum	Lump Sum	712	540	1430	411
* Includes 7 @ 25', 7 @ 27', 6 @ 28',														

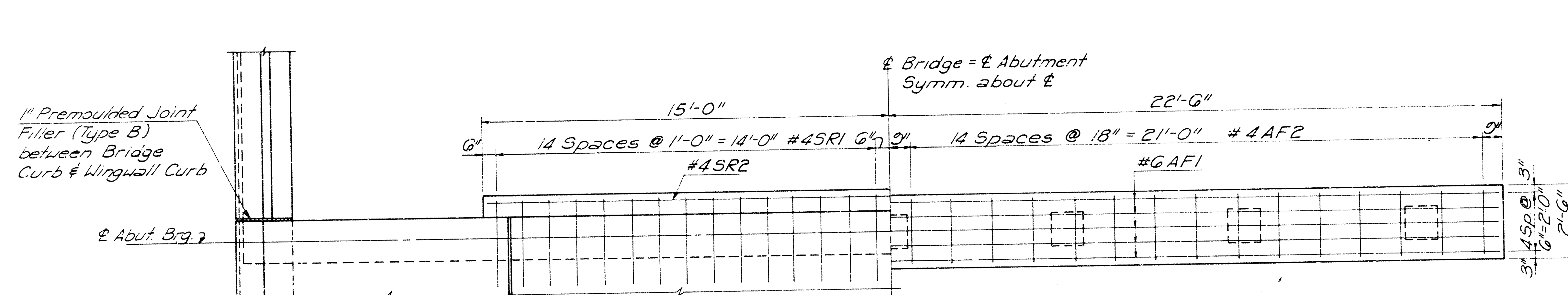
NOTE: Only one of the following types of Piles shall be used on this structure: Pipe 12 3/4" or Prestressed 14".

* Includes 7 @ 25', 7 @ 27', 6 @ 28', 14 @ 30' and 10 @ 32'



BENDING DIAGRAMS
(All dimensions are out to out of bars)

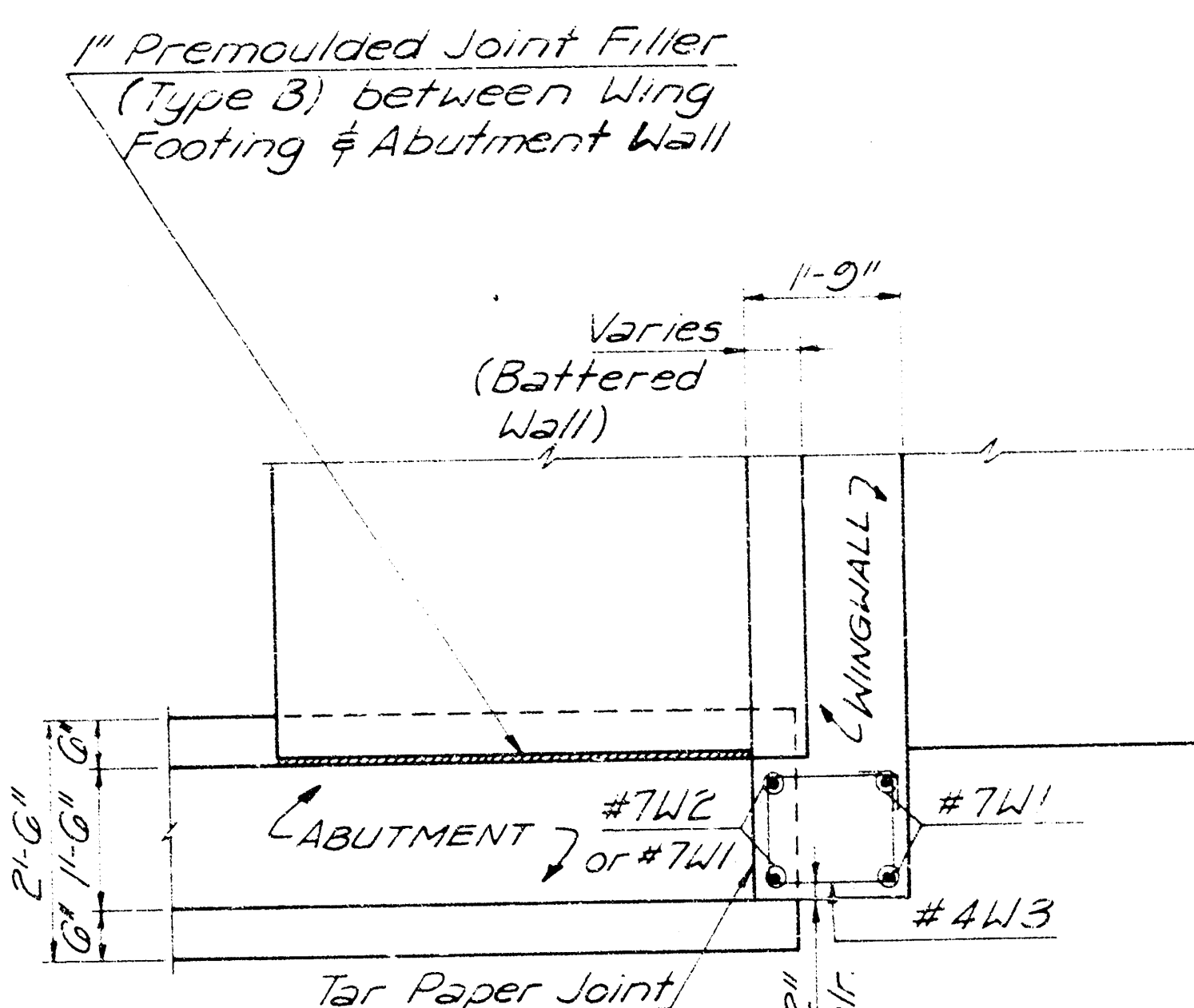
CITY OF WICHITA, KANSAS
R.W. JENN, PE CITY ENGINEER
SUMMARY OF QUANTITIES
WOODMAN BRIDGE
OVER THE LITTLE ARKANSAS RIVER
CITY OF WICHITA PROJECT NO. DAKB 576042
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
WICHITA, KANSAS
Designed by: _____
Checked by: _____
Date: _____



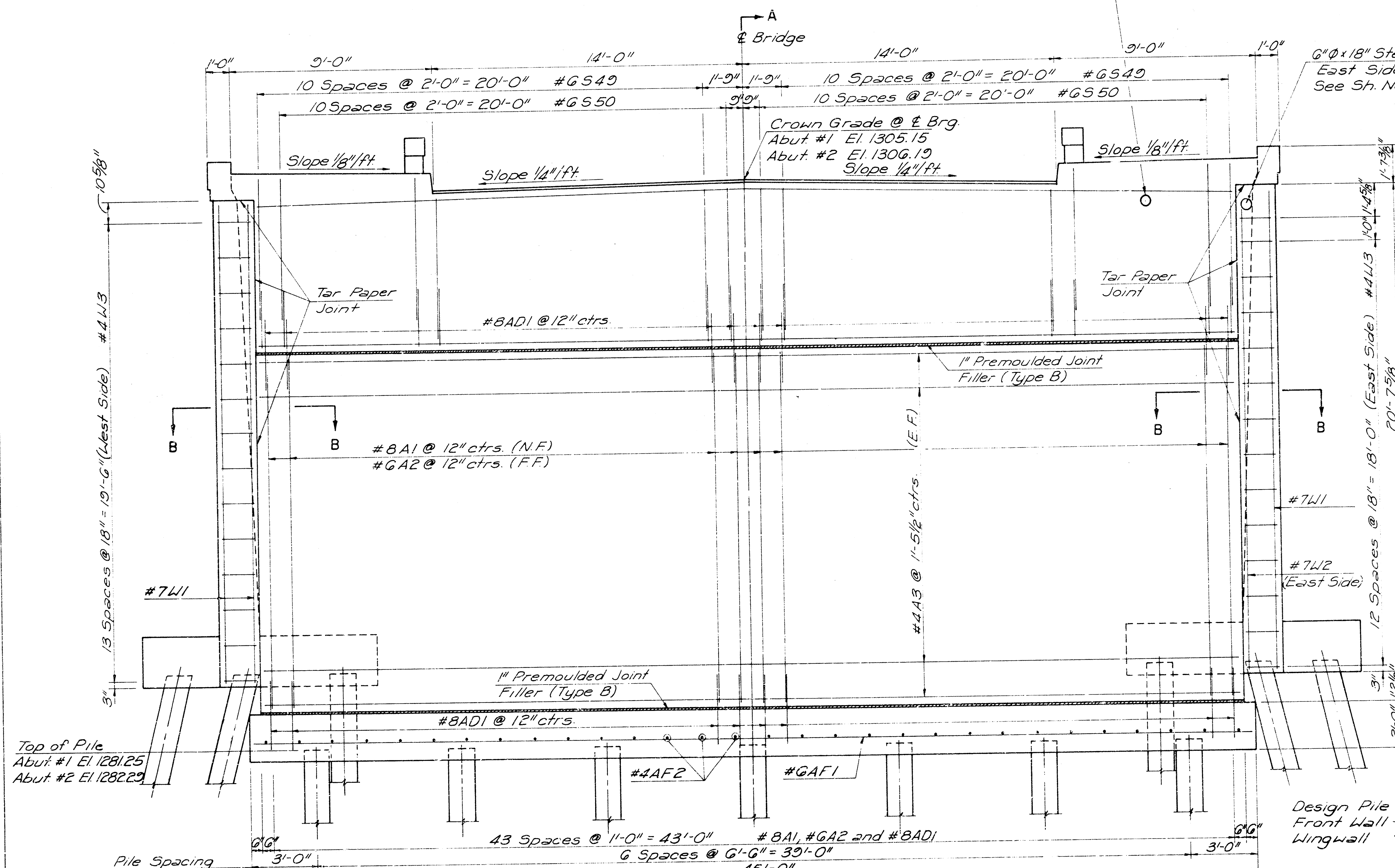
NOTE: (E.F.) = Each Face
(F.F.) = Far Face
(N.F.) = Near Face

HALF PLAN

HALF FOOTING PLAN



SECTION B-B



ELEVATION

6" PVC (East Side Only)
See Sh. No. 14 for Details

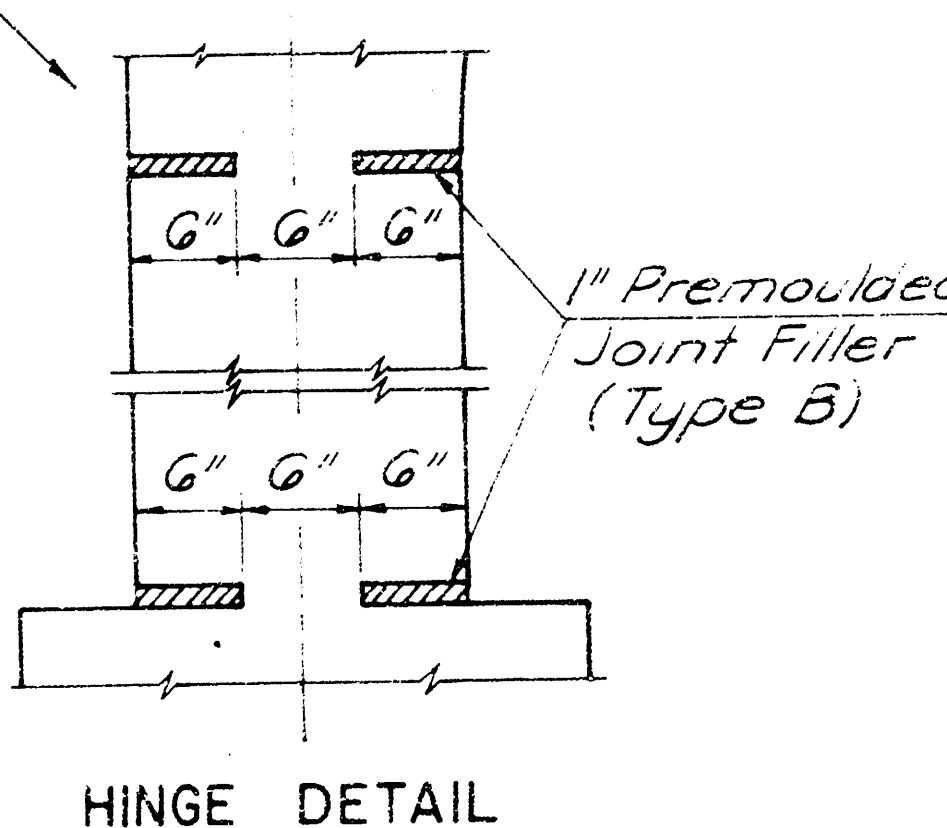
6"Ø x 18" Steel Pipe Sleeve
East Side Only
See Sh. No. 7 for Details

Abut. Brg.
Crown Grade

#4SR2 #4SR1 #G549 or #G550 1/2" Latex (Min.)
Surface Course

NOTE:
1" Premoulded Joint Filler
(Type B) and Tar Paper
shall not be paid for
directly but shall be
included in the price bid
for Class I Concrete.

Abut. Brg.



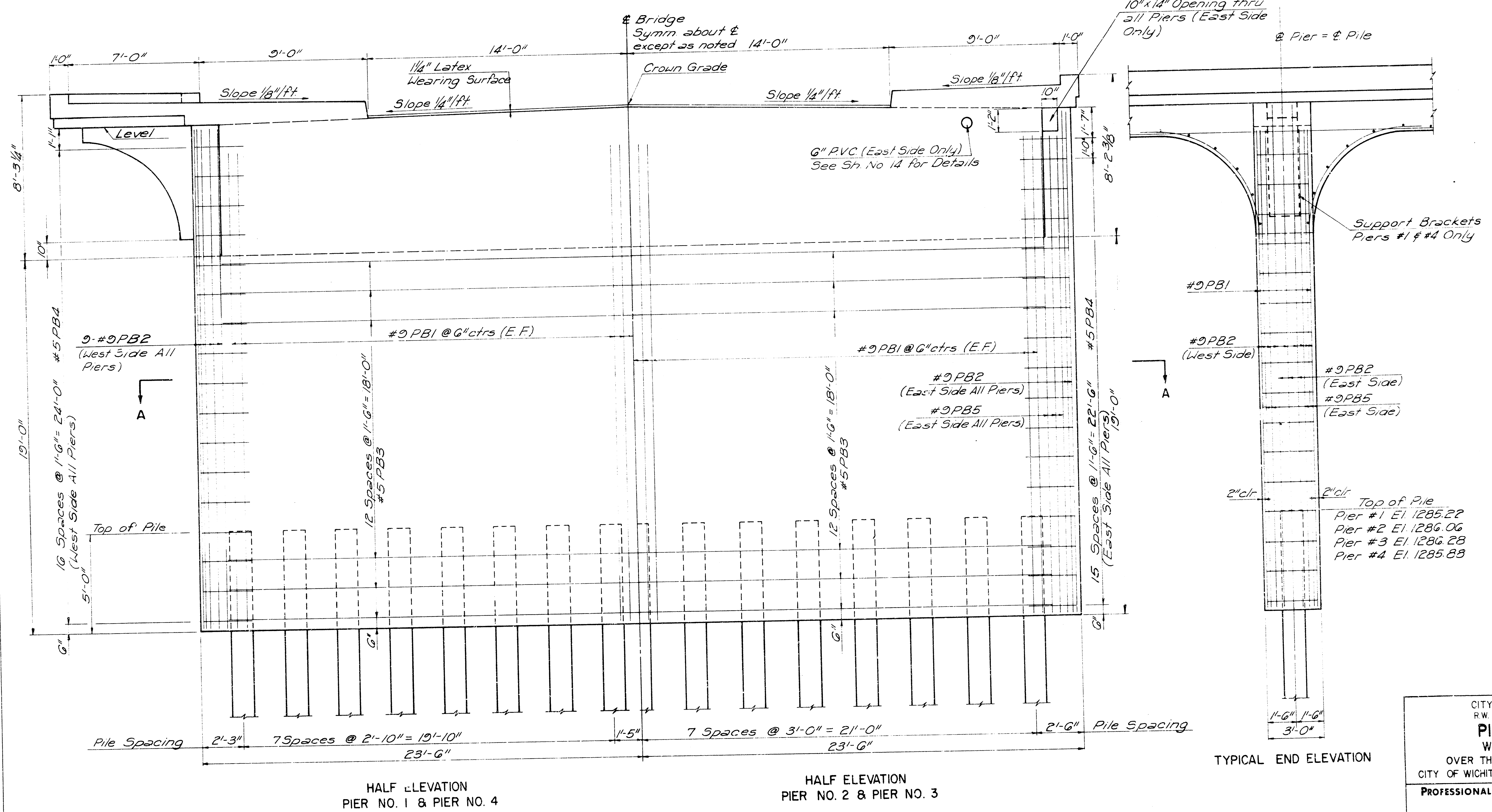
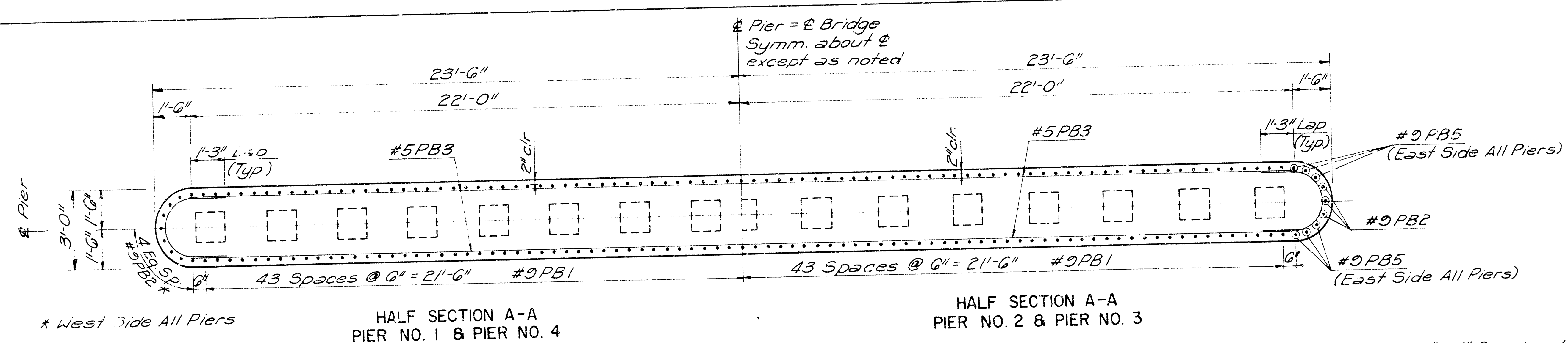
HINGE DETAIL

Design Pile Pressure
Front Wall - 48 Tons/Pile
Wingwall - 32 Tons/Pile

SECTION A-A

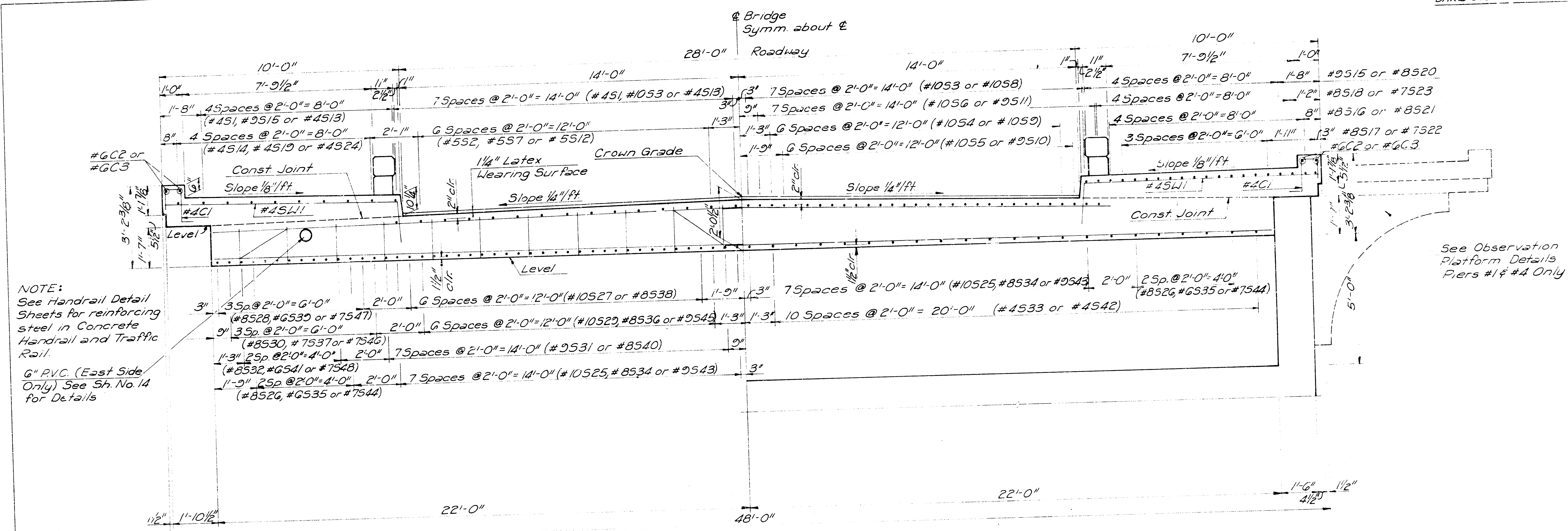
CITY OF WICHITA, KANSAS
R.W. LINN, PE CITY ENGINEER
ABUTMENT DETAILS
WOODMAN BRIDGE
OVER THE LITTLE ARKANSAS RIVER
CITY OF WICHITA PROJECT NO. DAKB 576042
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by _____ Checked by _____
Drawn by _____ Date _____



TYPICAL END ELEVATION

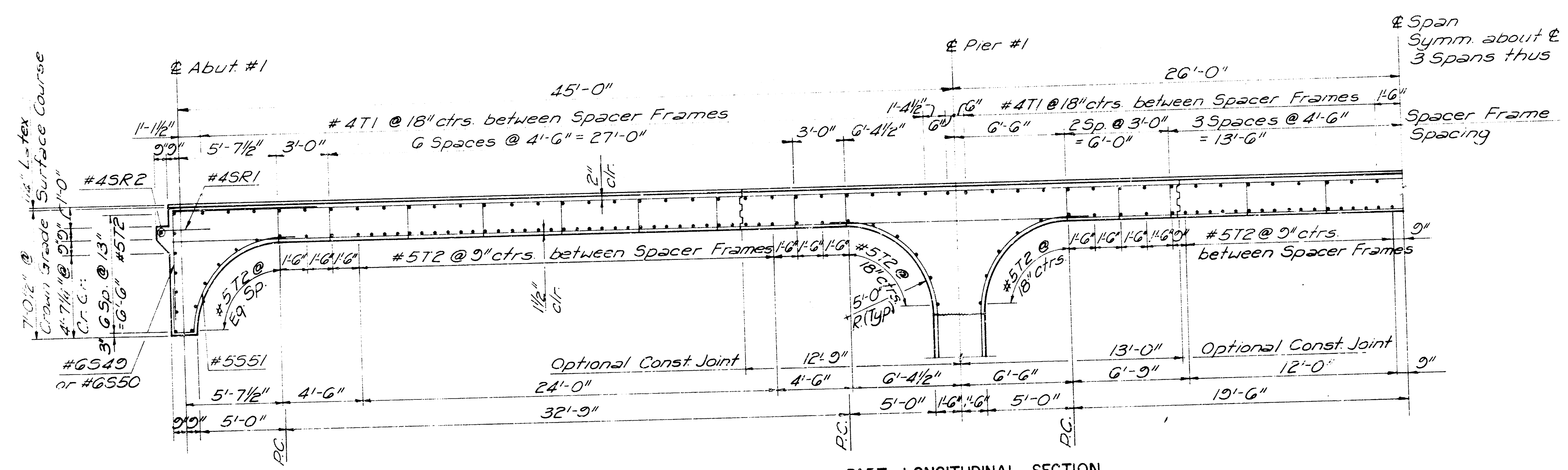
CITY OF WICHITA, KANSAS R.W. LINN, P.E. CITY ENGINEER	
PIER DETAILS	
WOODMAN BRIDGE OVER THE LITTLE ARKANSAS RIVER	
CITY OF WICHITA	PROJECT NO. DAKB 576042
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.	
ENGINEERS WICHITA, KANSAS	
Designed by	Checked by
Drawn by	Date



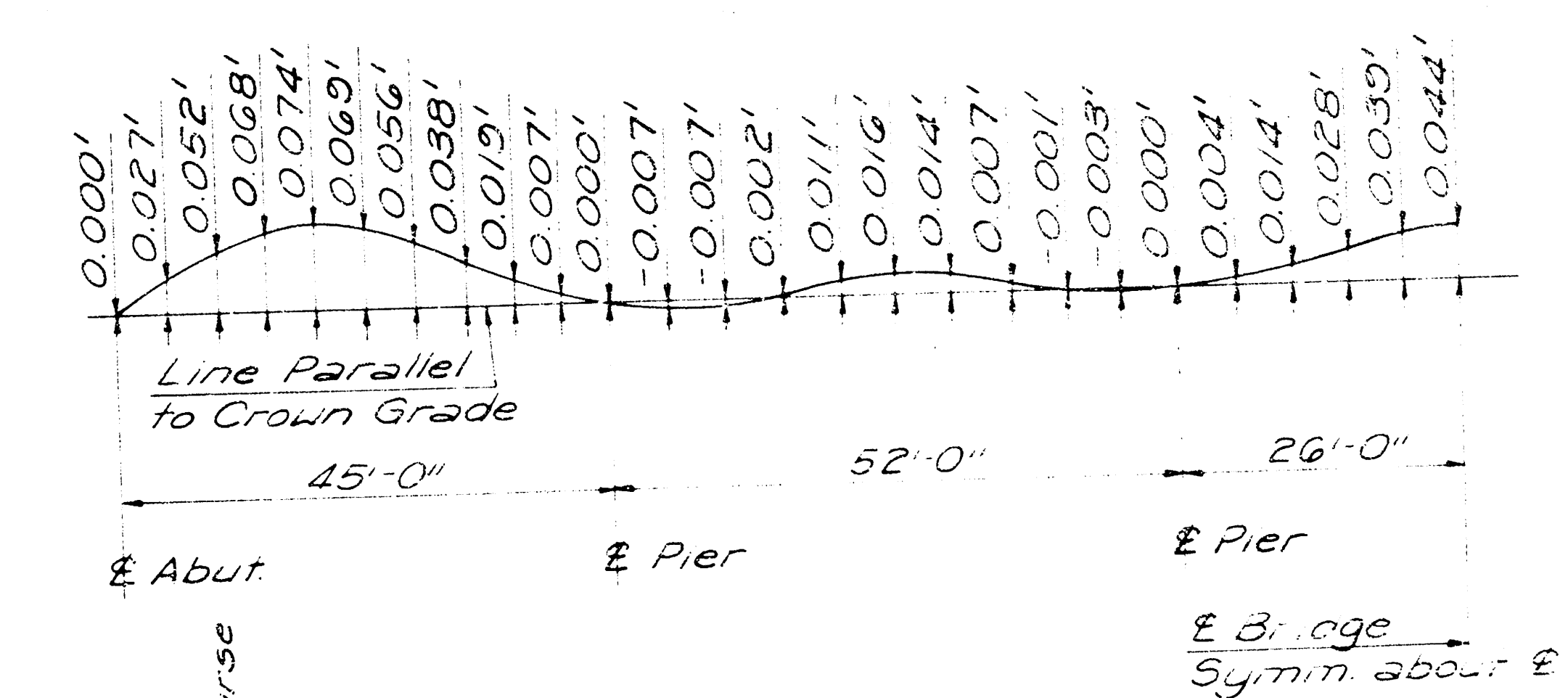
HALF SECTION AT MID-SPAN

ROADWAY CROSS SECTION

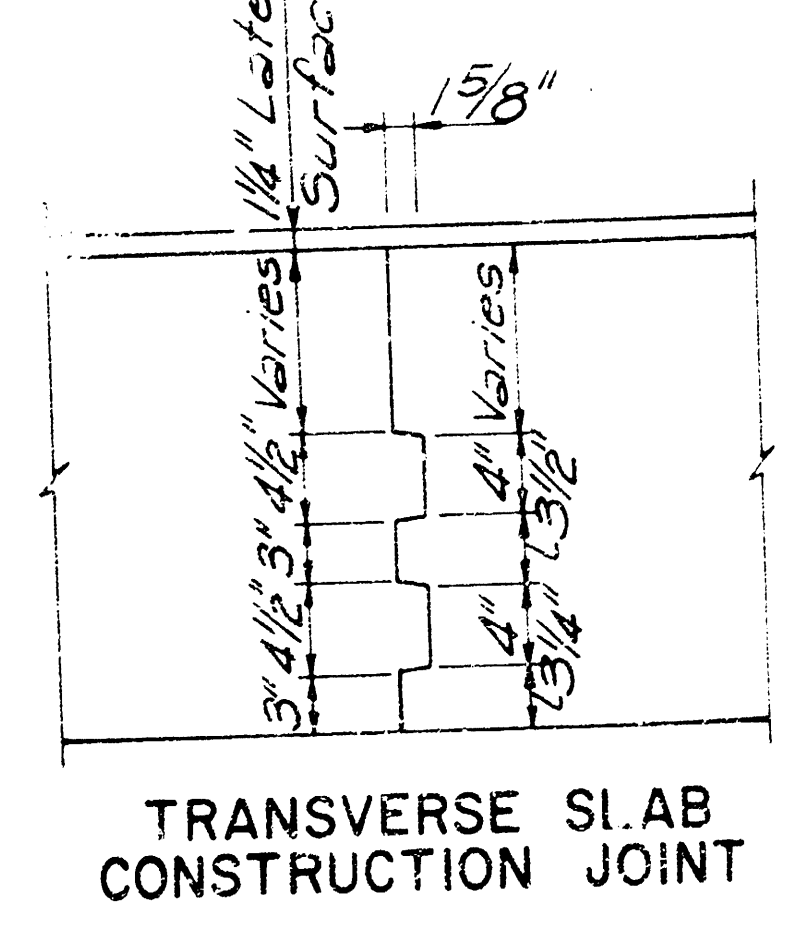
HALF SECTION NEAR PIER



PART LONGITUDINAL SECTION



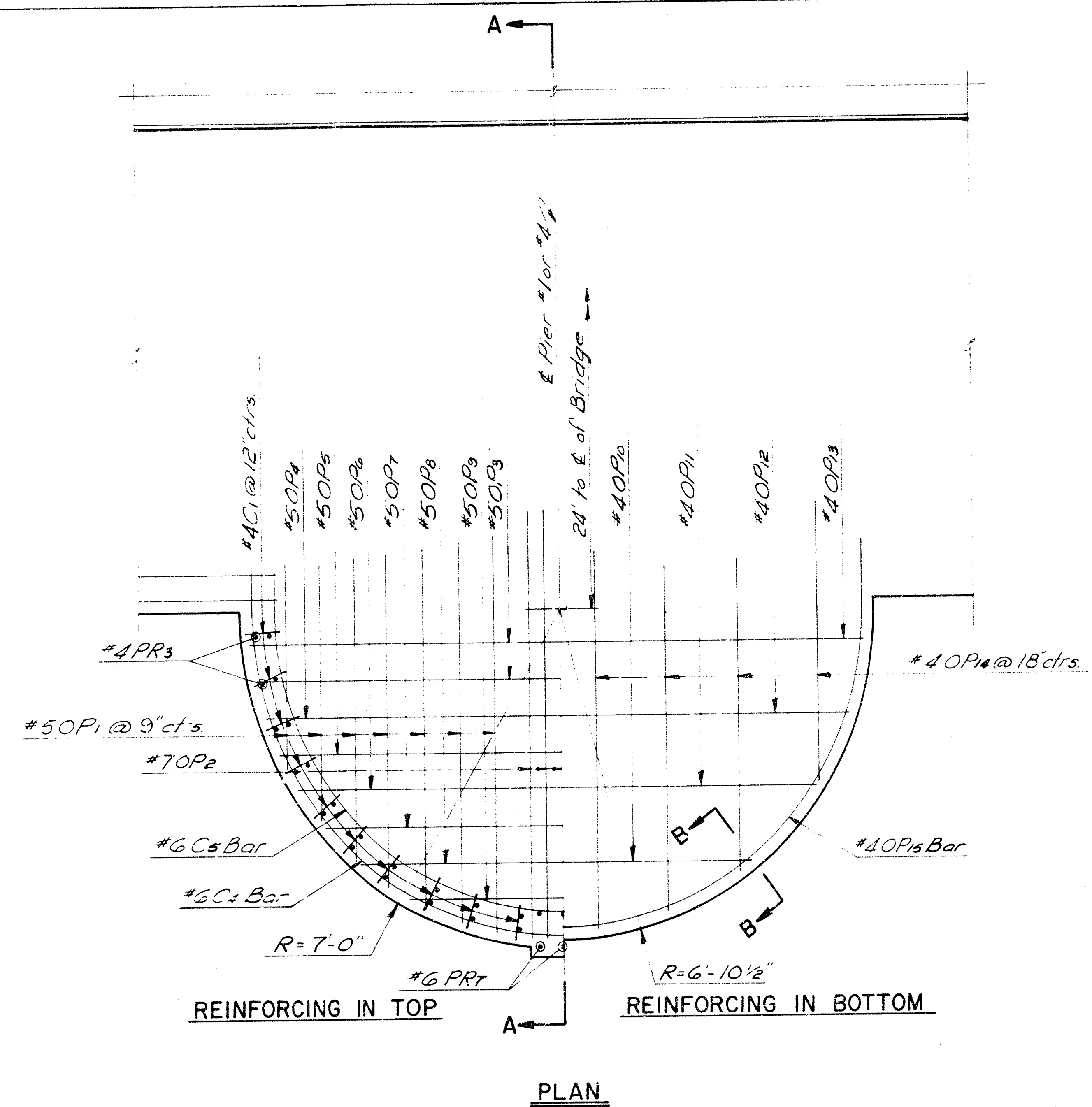
DEAD LOAD CAMBER AT TENTH POINTS



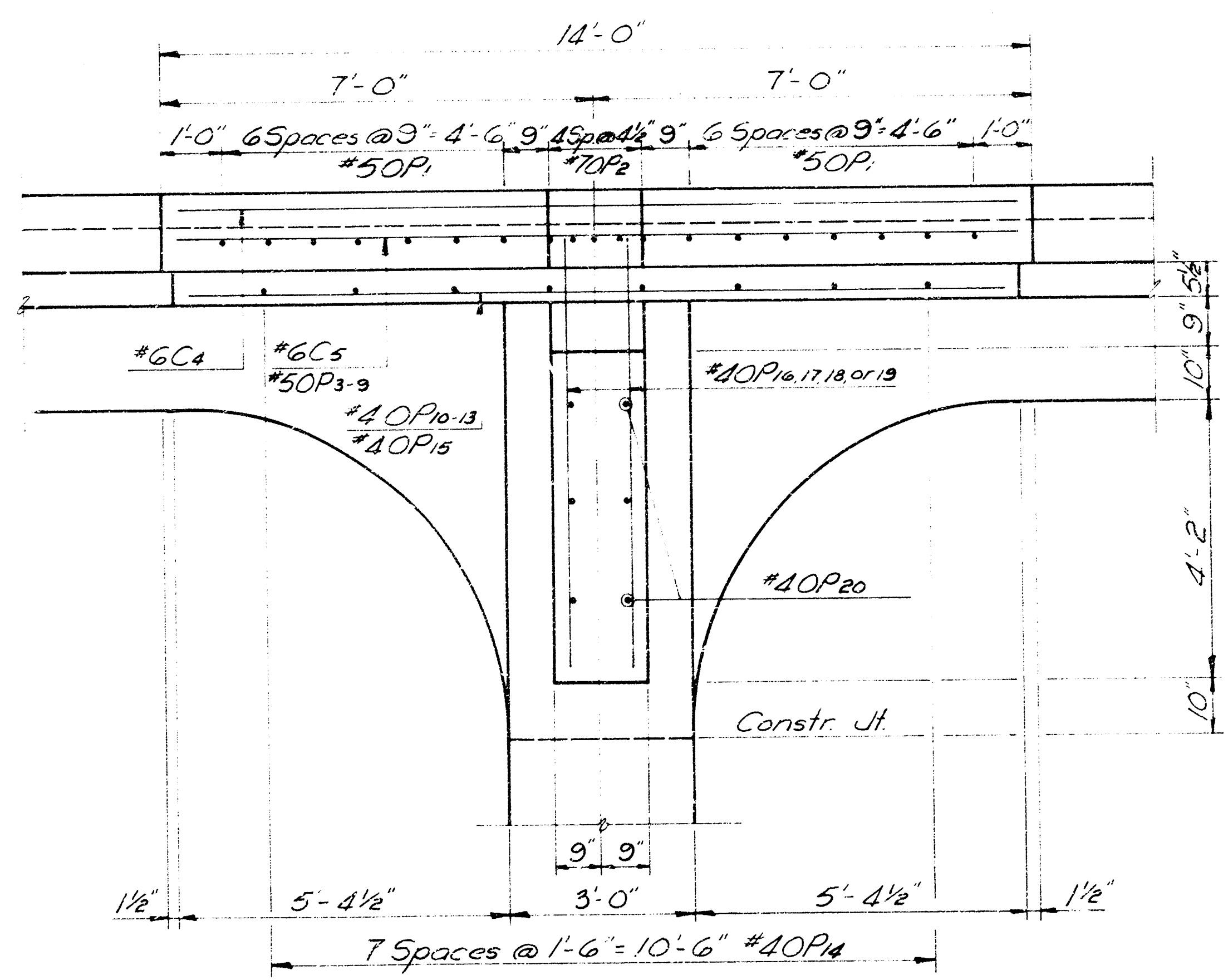
TRANSVERSE SLAB CONSTRUCTION JOINT

CITY OF WICHITA, KANSAS
R.W. LINN, PE CITY ENGINEER
SUPERSTRUCTURE DETAILS
WOODMAN BRIDGE
OVER THE LITTLE ARKANSAS RIVER
CITY OF WICHITA PROJECT NO. DAKB 576042
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
WICHITA, KANSAS

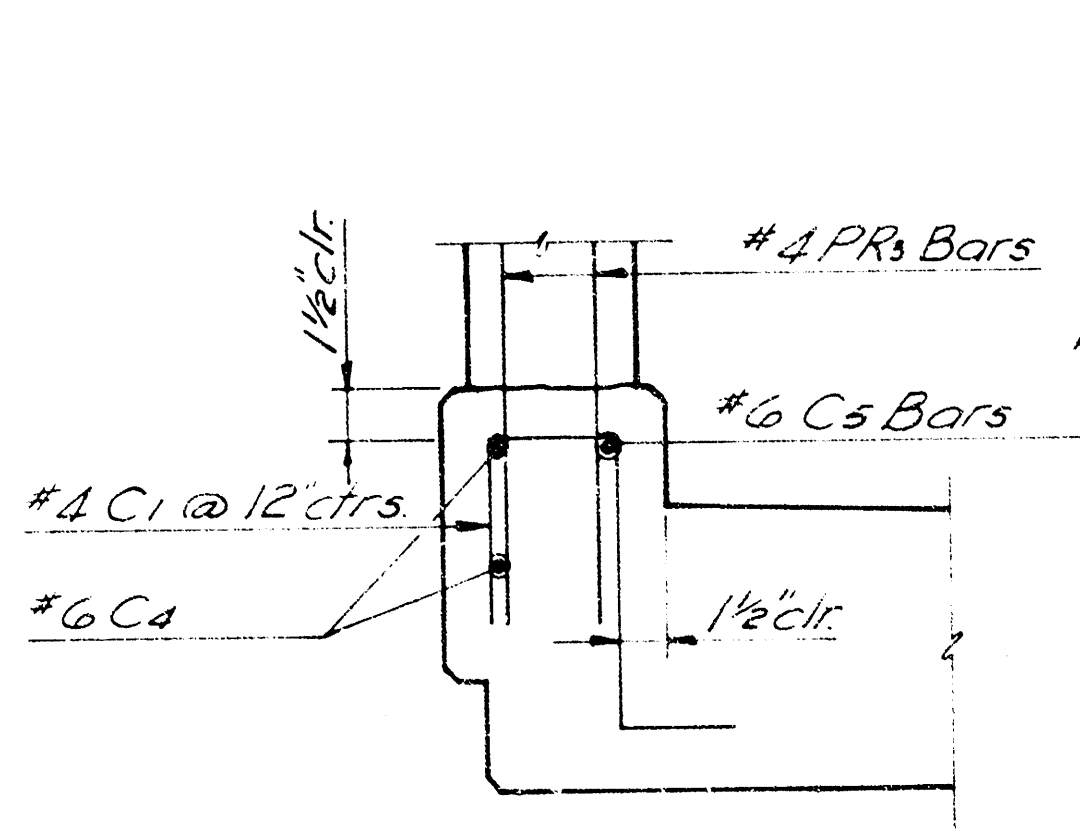
PROJECT NO.	SHEET NO.	TOTAL SHEETS
DAKB 576042	77	11



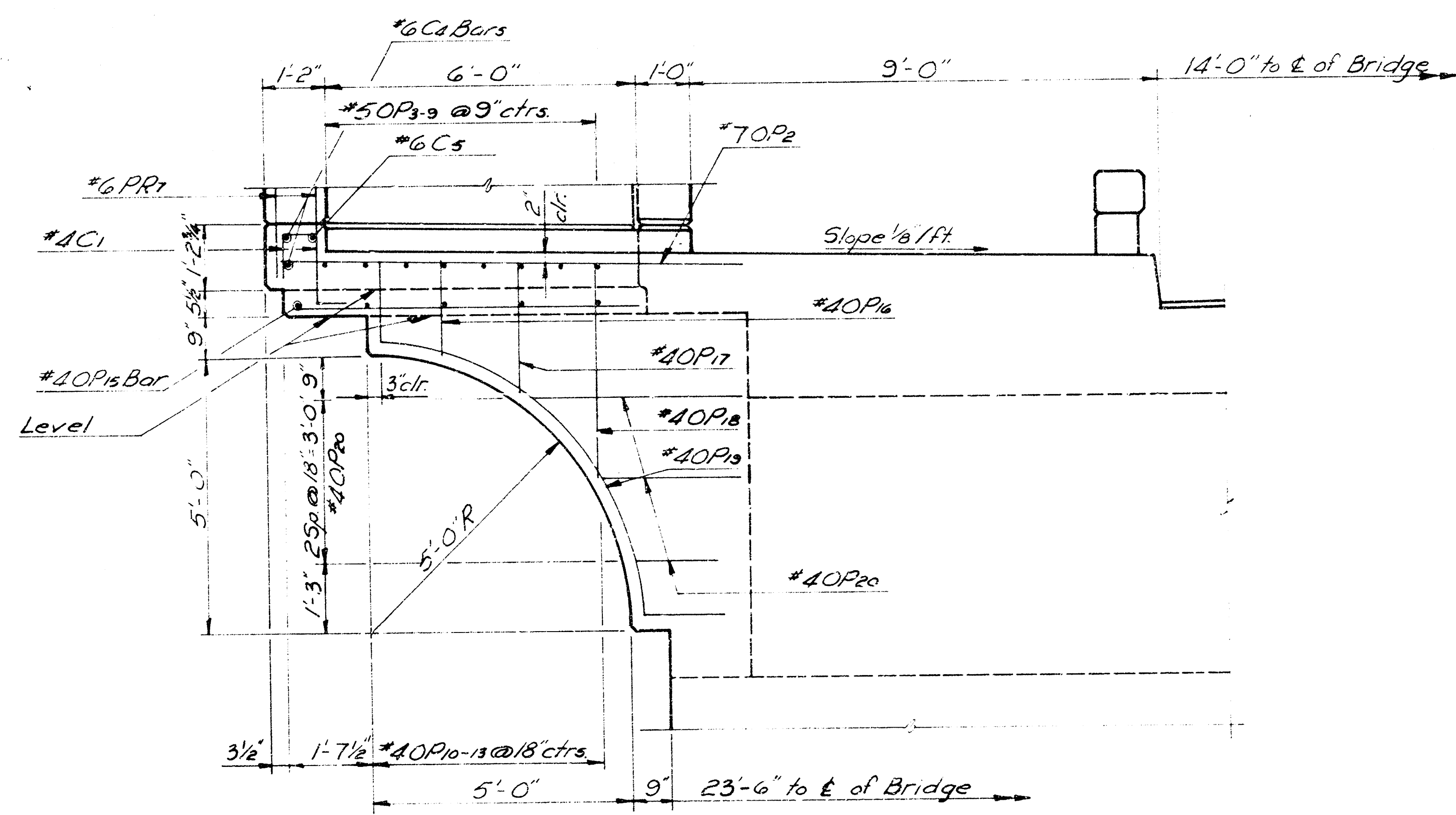
PLAN



ELEVATION



SECTION B-B



SECTION A-A

Linseed Oil Treatment all exposed surfaces (Subsidiary Item)

Linseed Oil Surface Treatment (Subsidiary Item)

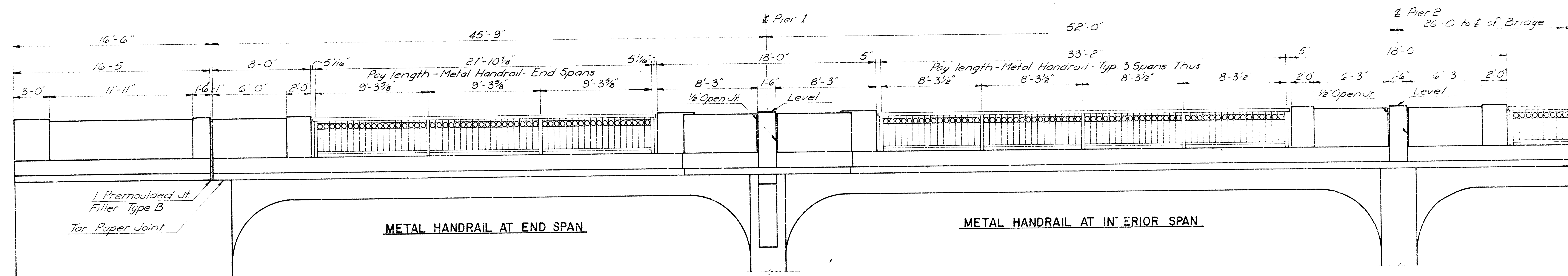
*Linseed Oil Surface Treatment (5g Yrs.)

LINSEED OIL SURFACE TREATMENT

Note: Linseed Oil Treatment to include Observation Platforms.

CITY OF WICHITA, KANSAS R.W. LINN, PE CITY ENGINEER	
PLATFORM DETAILS	
WOODMAN BRIDGE	
OVER THE LITTLE ARKANSAS RIVER	
CITY OF WICHITA PROJECT NO. DAKB 576042	
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.	
ENGINEERS WICHITA, KANSAS	
Designed by	Checked by
Drawn by	Station

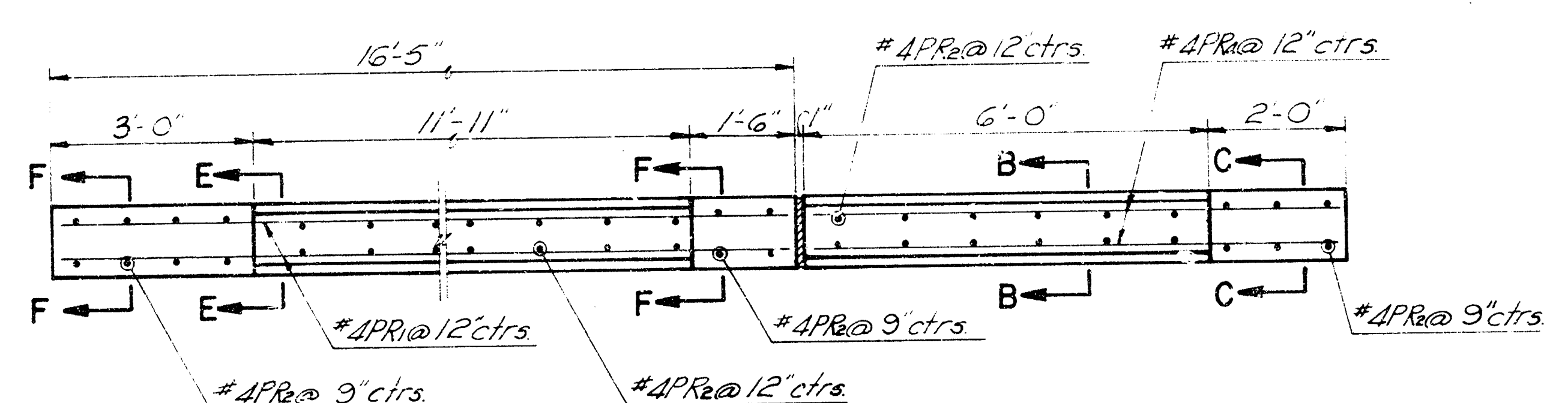
PROJECT NO.	SHEET NO.	TOTAL SHEETS
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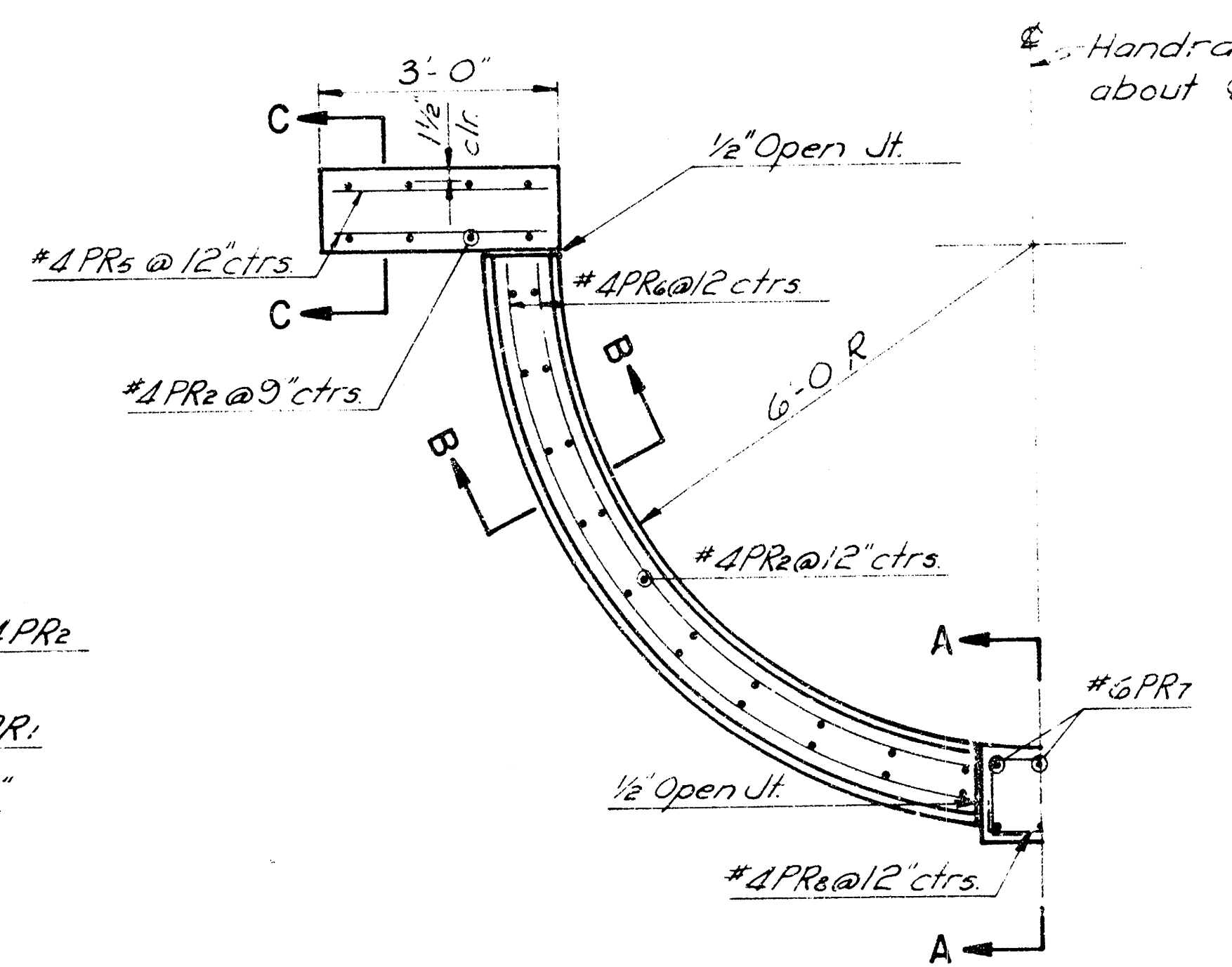
CONCRETE HANDRAIL AT ABUTMENT & WINGWALL

CONCRETE HANDRAIL AT PIER 1 & 4
ELEVATION

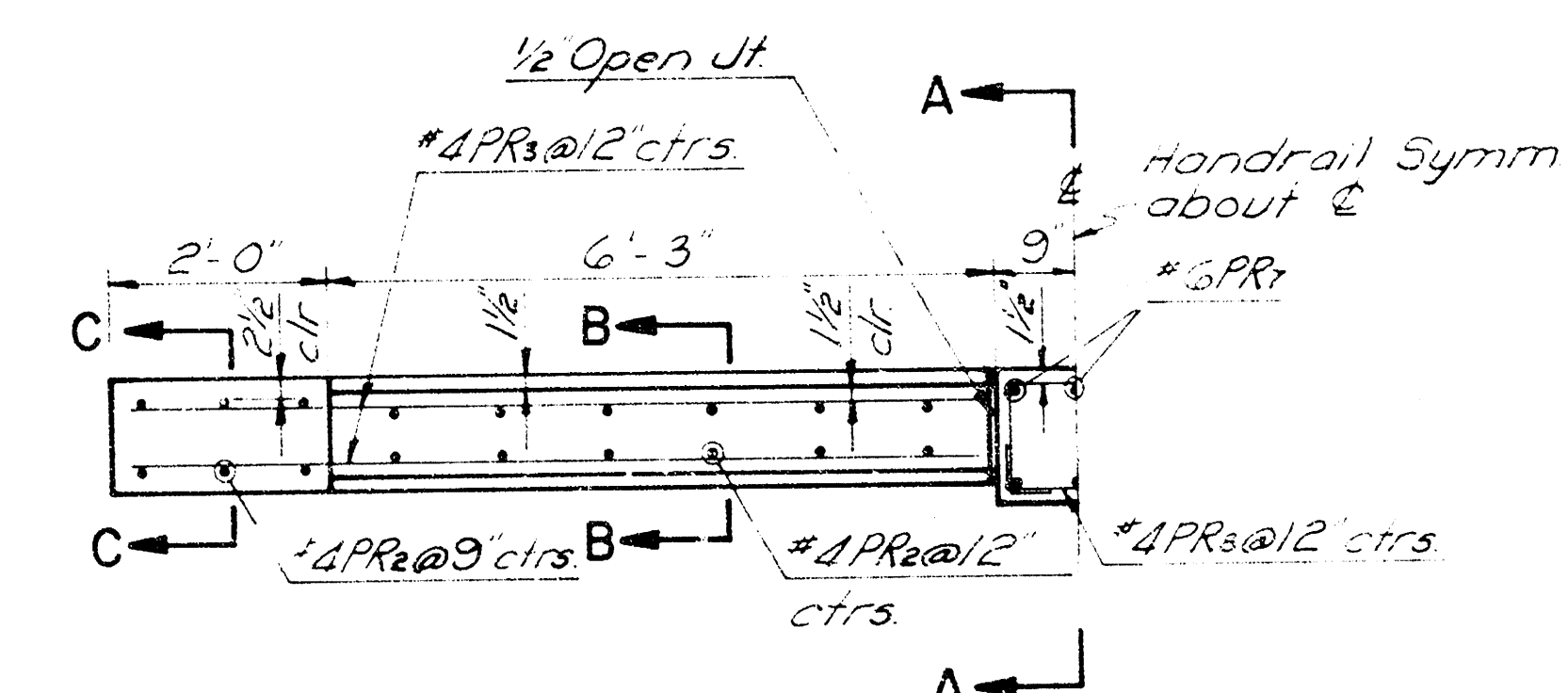
CONCRETE HANDRAIL AT PIER 2 & 3



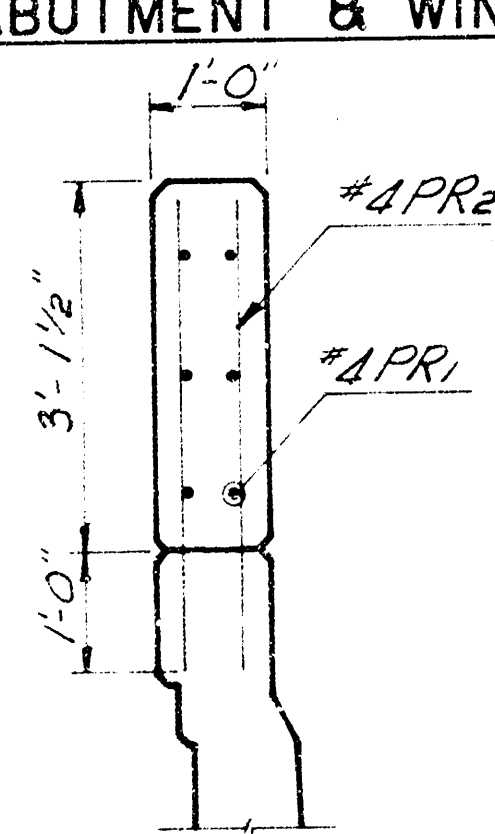
CONCRETE HANDRAIL AT ABUTMENT & WINGWALL



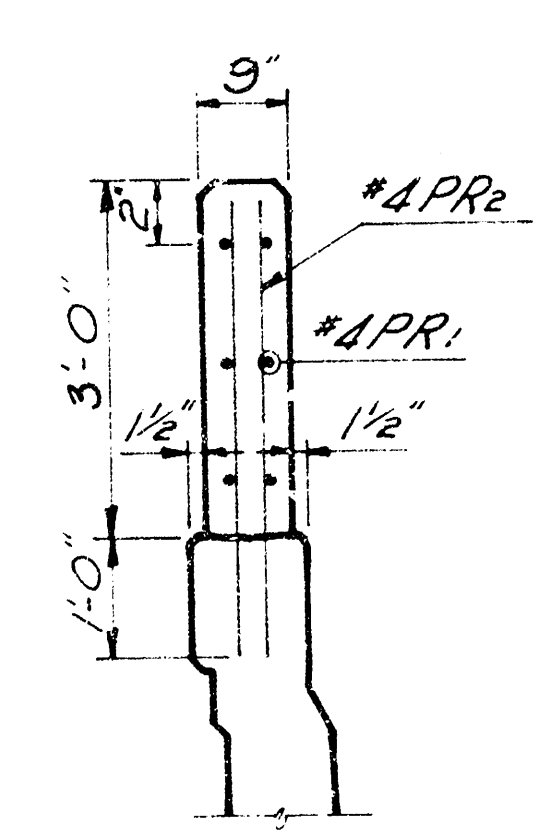
CONCRETE HANDRAIL AT PLATFORM



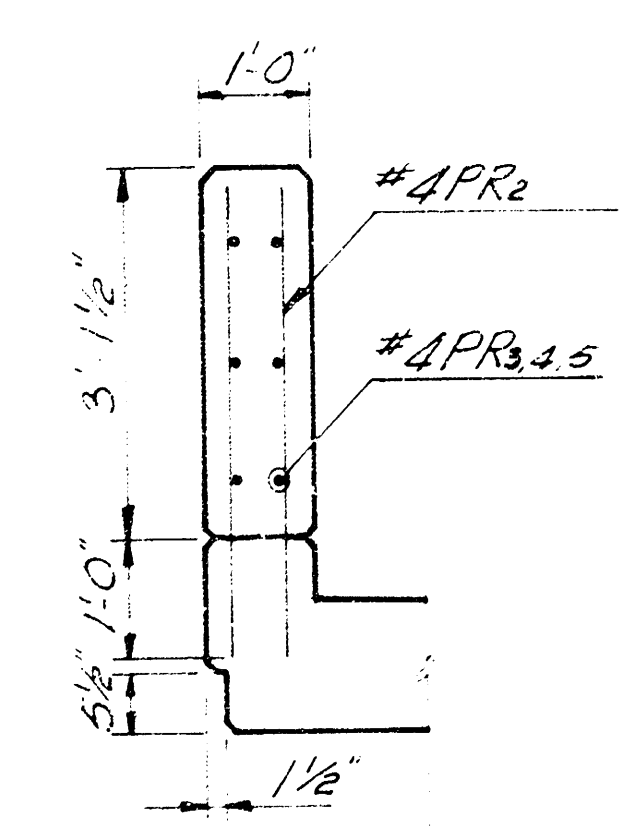
CONCRETE HANDRAIL OVER PIER



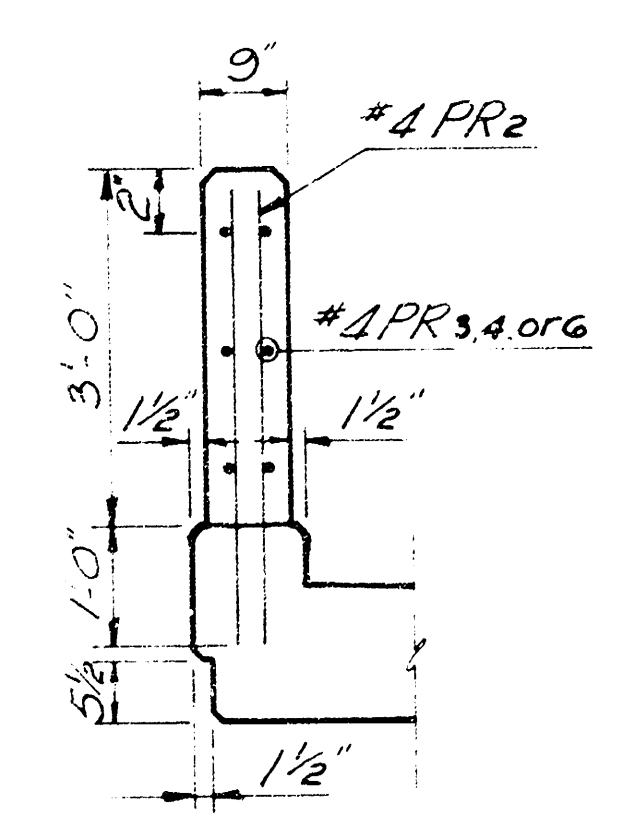
SECTION F-F



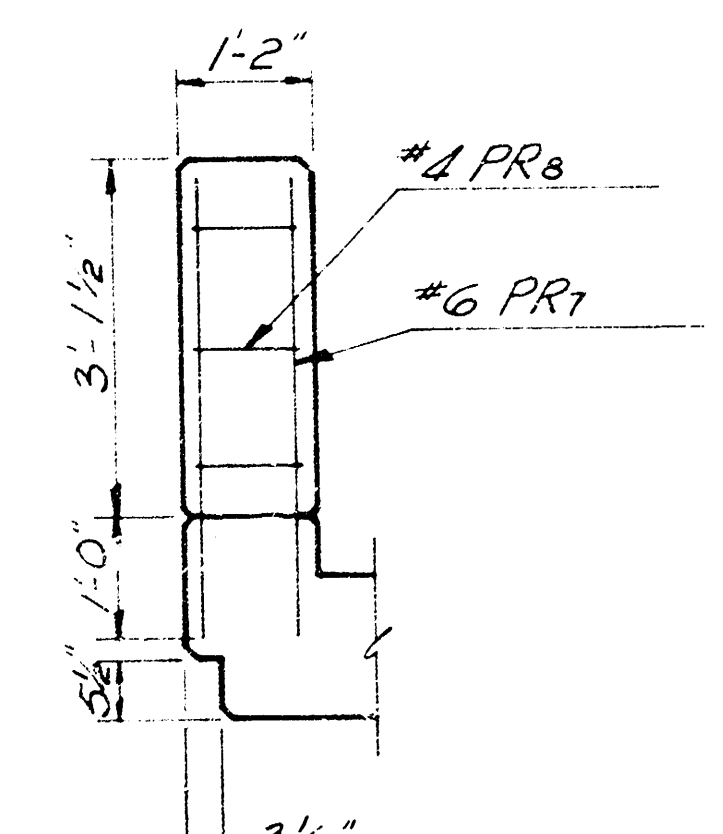
SECTION E-E



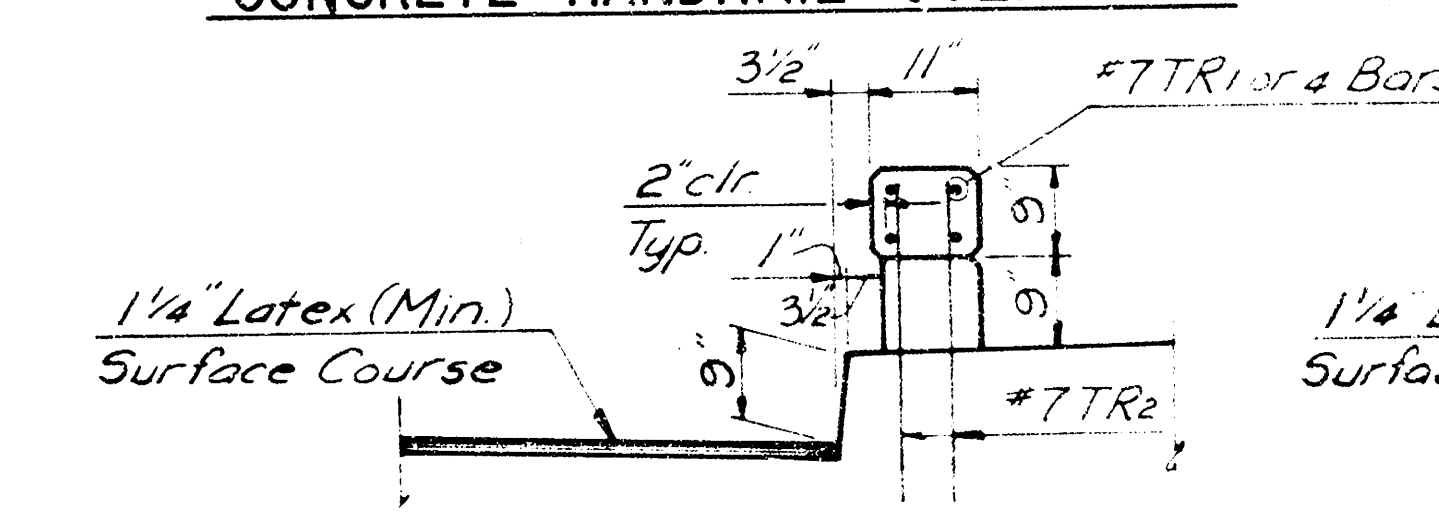
SECTION C-C



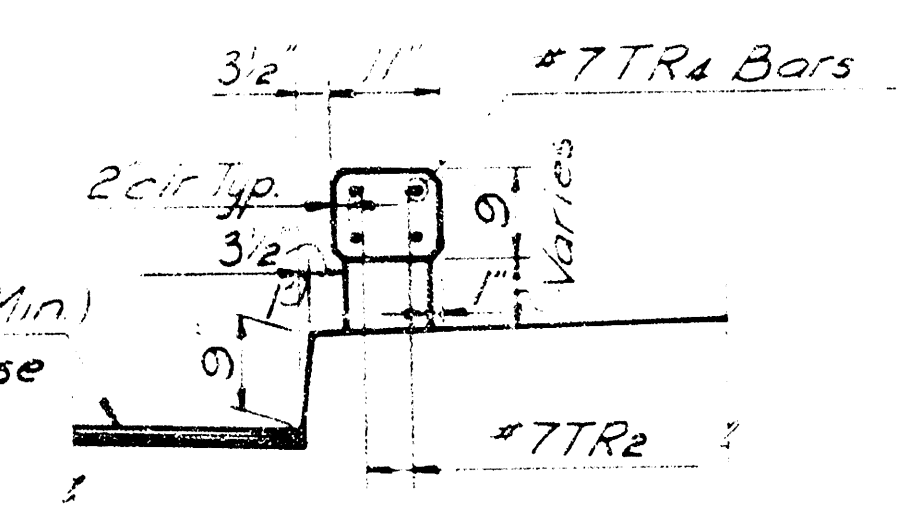
SECTION B-B



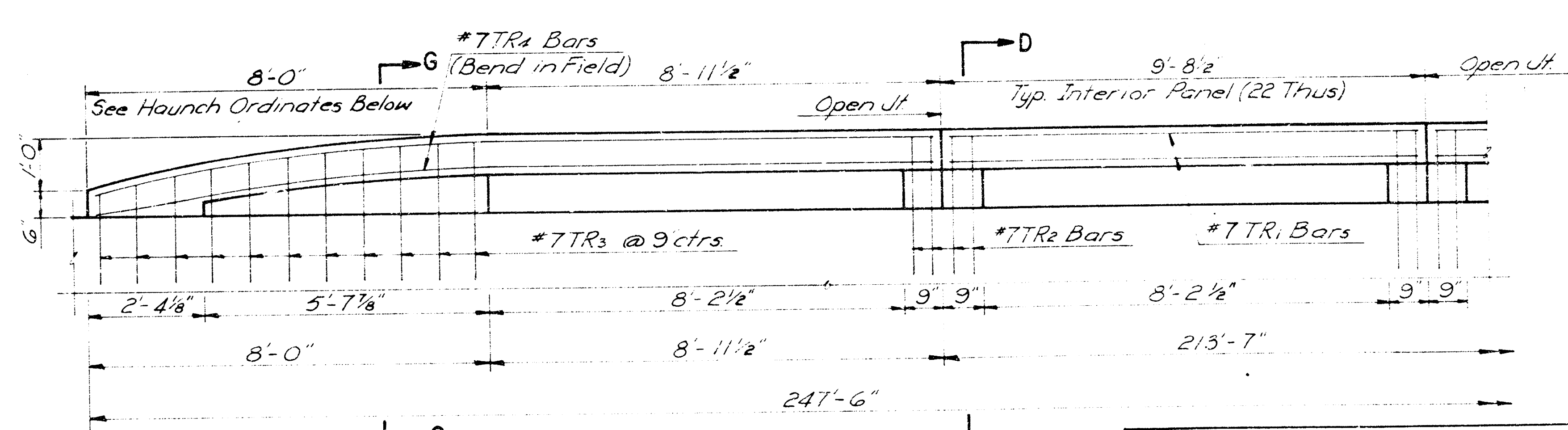
SECTION A-A



SECTION D-D

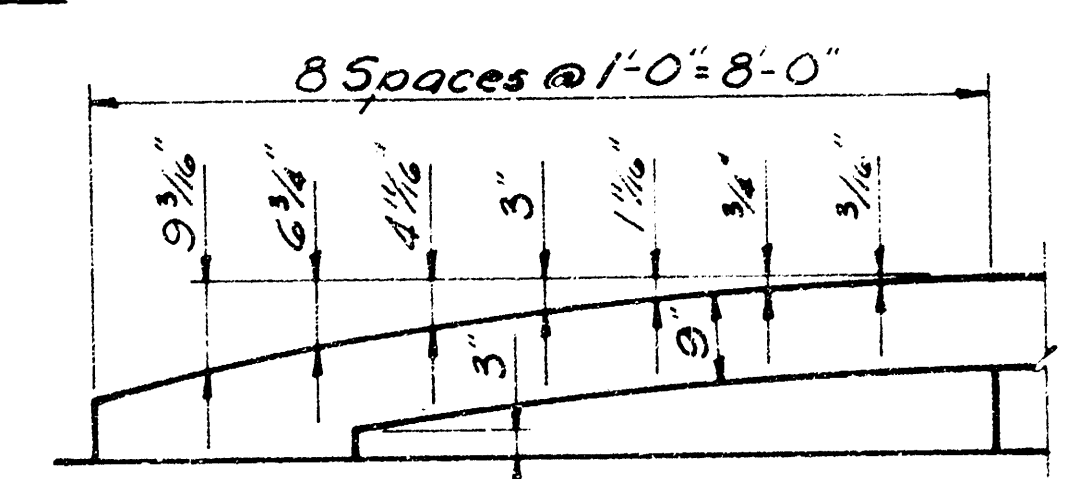


SECTION G-G



TRAFFIC RAIL ELEVATION

All handrail joints shall be 1/2" open joints except those within 10'-0" of the piers and those shall be 1/4" open joints.



HAUNCH ORDINATES

CITY OF WICHITA KANSAS
R.W. LINN, PE CITY ENGINEER
HANDRAIL DETAILS
WOODMAN BRIDGE
OVER THE LITTLE ARKANSAS RIVER
CITY OF WICHITA PROJECT NO. DAKB 576042
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	Checked by
Drawn by	Date

PROJECT NO.	SHEET NO.	TOTAL SHEETS
DAKB 576042	13	17

*New Bridge Name Plate shall be $\frac{3}{16} \times 24 \times 26$ bronze with concealed mountings. It shall have a 1" wide border and ribbon style letters. It shall contain the following information:

WOODMAN BRIDGE
1976
CITY OF WICHITA
JAMES M. DONNELL - MAYOR
GLENN J. SHANAHAN VICE MAYOR
A. F. (TONY) CASADO
ROBERT I. CORY
CONNIE A. PETERS
COMMISSIONERS
E. H. DENTON
CITY MANAGER
DESIGN LOADING HS20-44

GENERAL NOTES

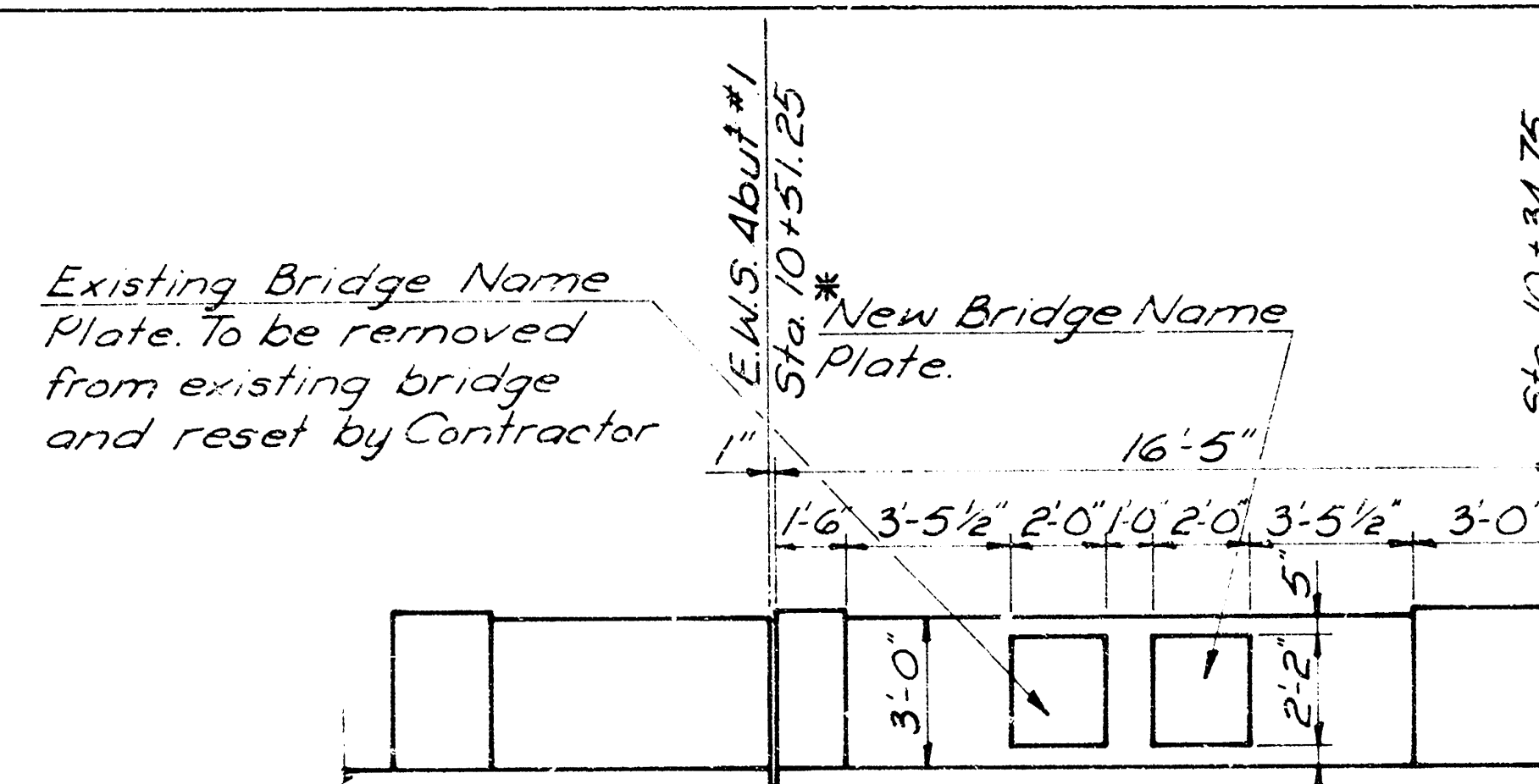
The top horizontal member of the rail and the posts shall be steel hollow structural tubing. Other shapes and plates shall conform to ASTM designation A36. All steel pipe shall conform to ASTM designation A53.

Rail shall be fabricated full length for each section, and shall be fabricated to match vertical curvature of the structure. Rail posts shall be perpendicular to top of parapet. Shims may be used between concrete and base plate of posts.

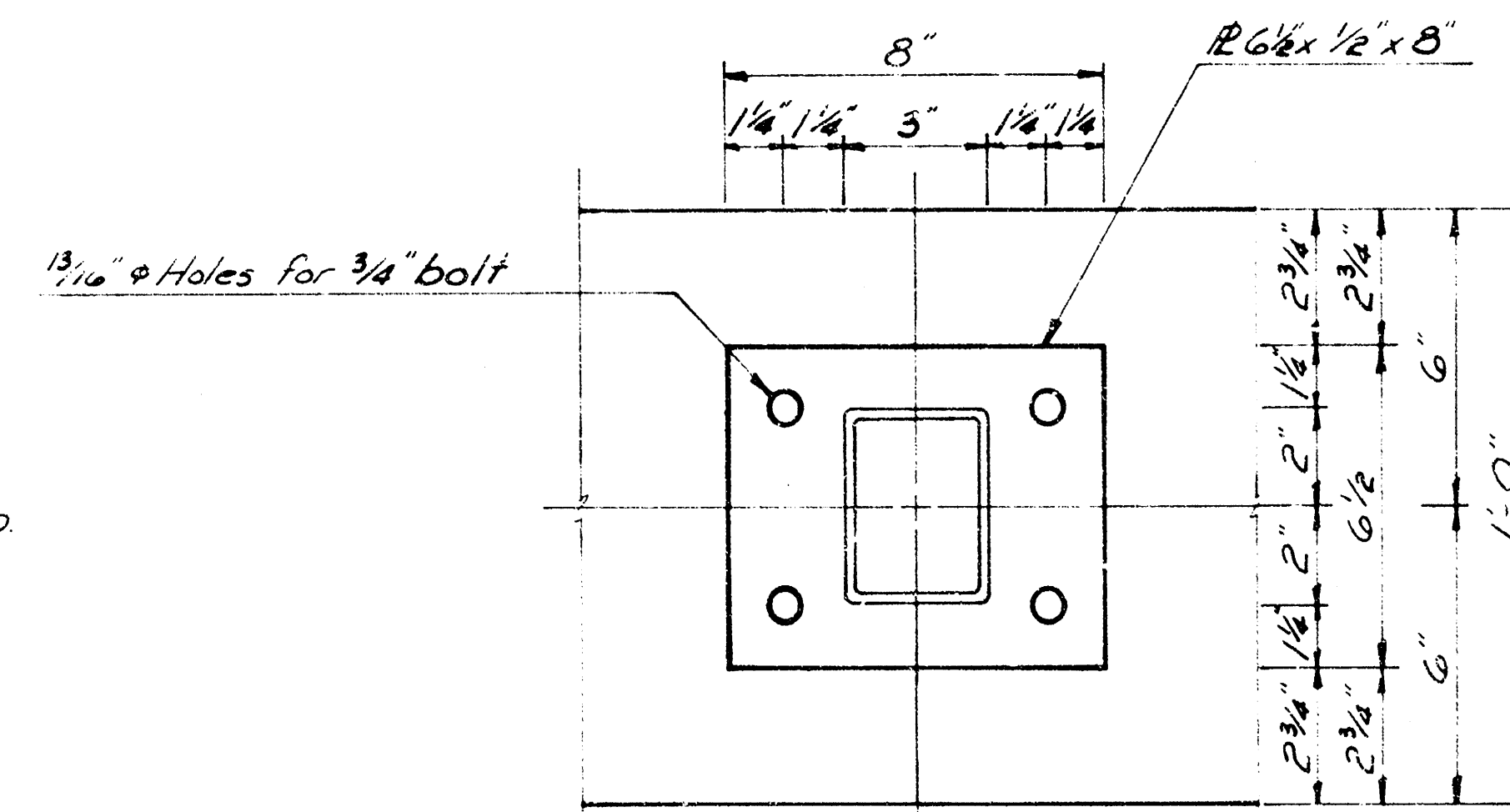
Anchors shall be $\frac{3}{4}$ " standard snap-off Phillips Red Head or approved equal. Washers shall conform to article 1006.14(e) of the standard specifications for State Road and Bridge Construction 1973 Edition Kansas Department of Transportation.

Exposed portion of bolt and washer shall receive two coats of black paint.

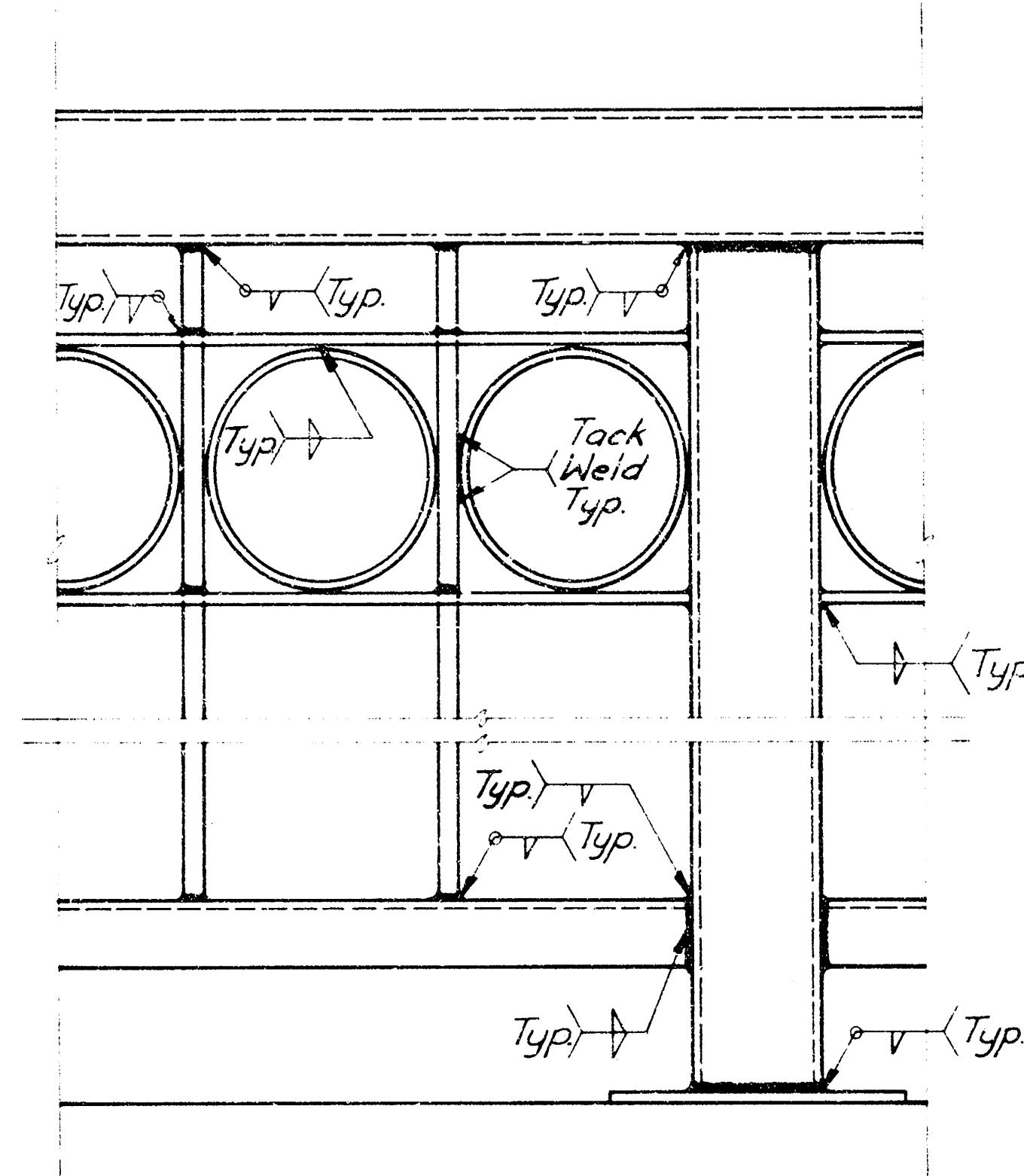
All parts of handrail shall be given one coat of red lead paint, one coat of black paint in the shop and one coat of black paint in the field.



BRIDGE NAME PLATE
(Abutment #1 - East Side Only)

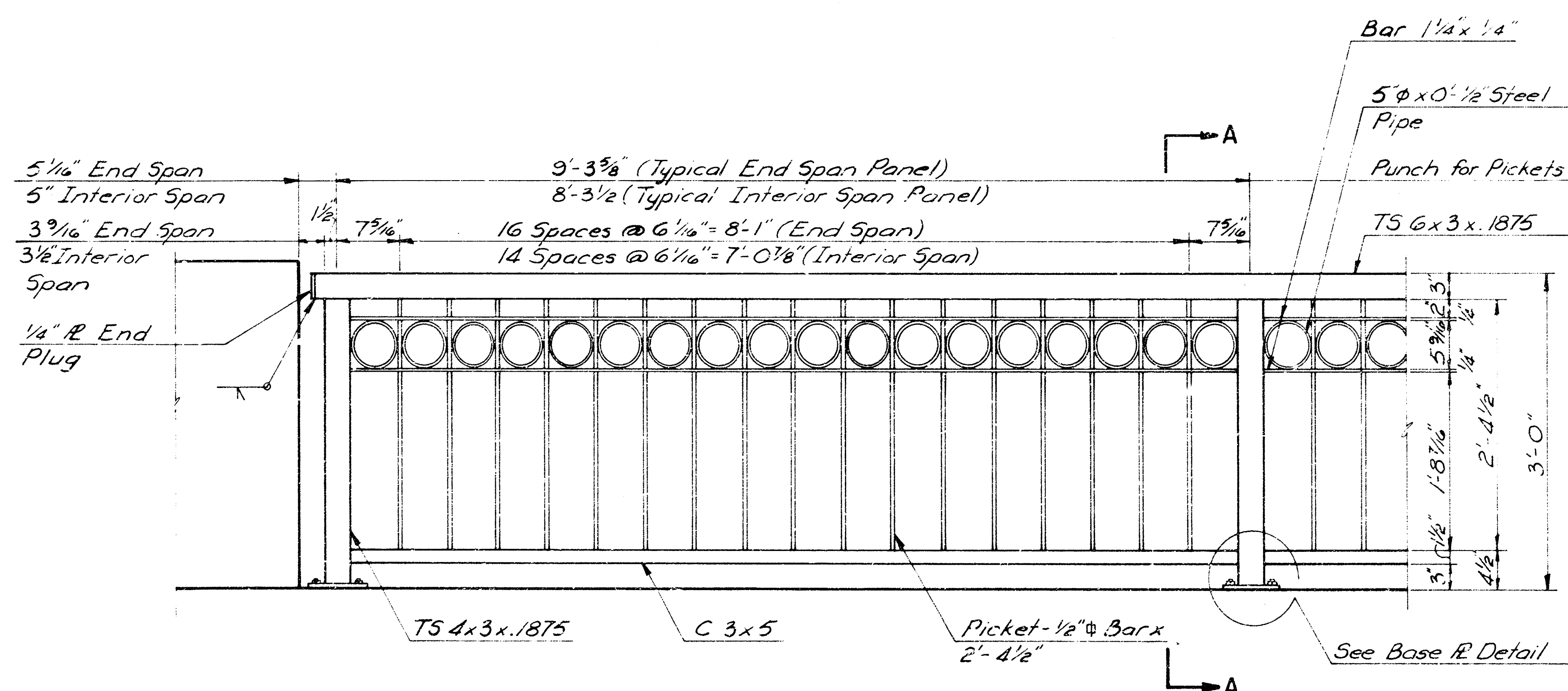


BASE PLATE DETAIL

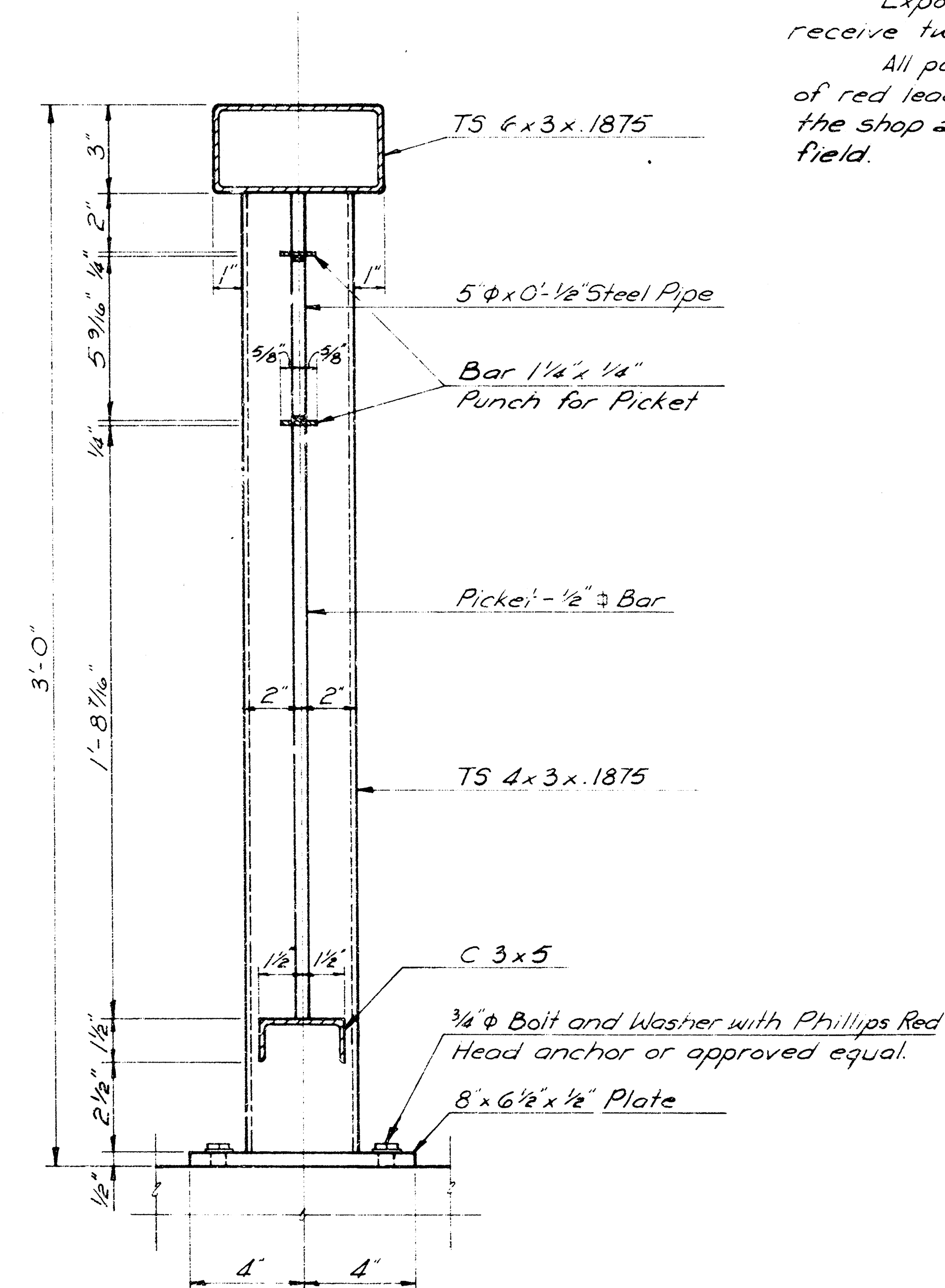


WELD DETAIL

All welds shall be $\frac{3}{16}$ " unless otherwise noted.



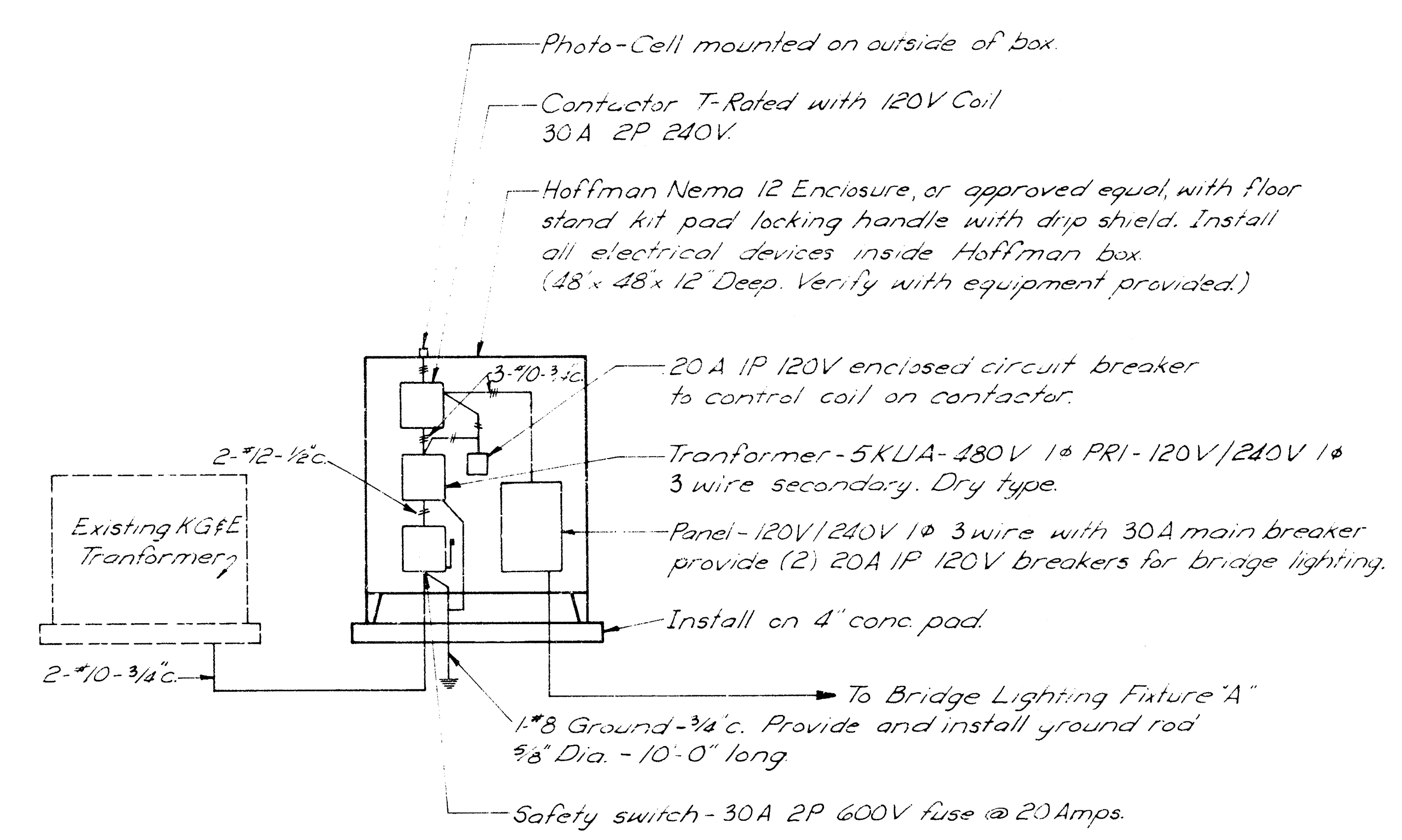
METAL HANDRAIL ELEVATION



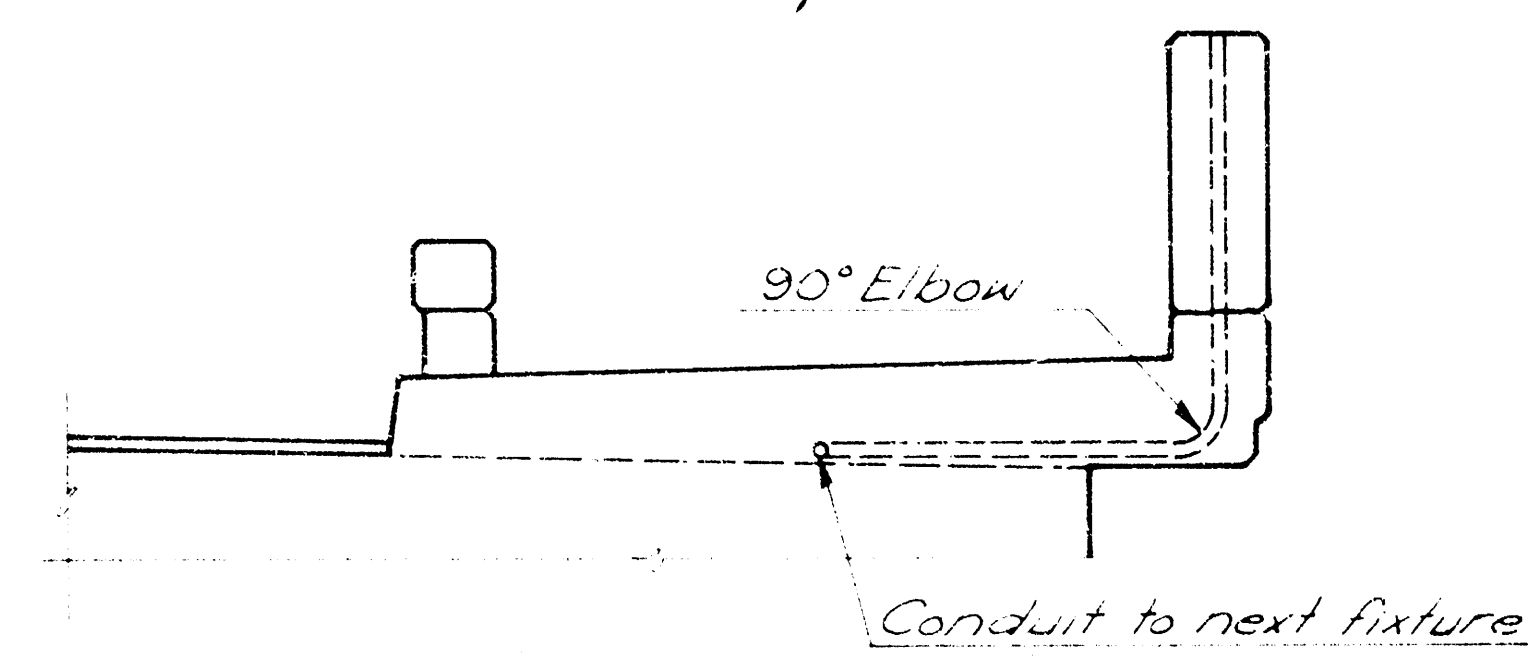
SECTION A-A

CITY OF WICHITA KANSAS R.W. LINN, PE CITY ENGINEER			
HANDRAIL DETAILS			
WOODMAN BRIDGE			
OVER THE LITTLE ARKANSAS RIVER			
CITY OF WICHITA PROJECT NO. DAKB 576042			
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.			
ENGINEERS WICHITA, KANSAS			
Designed by	Checked by	Drawn by	Plot by

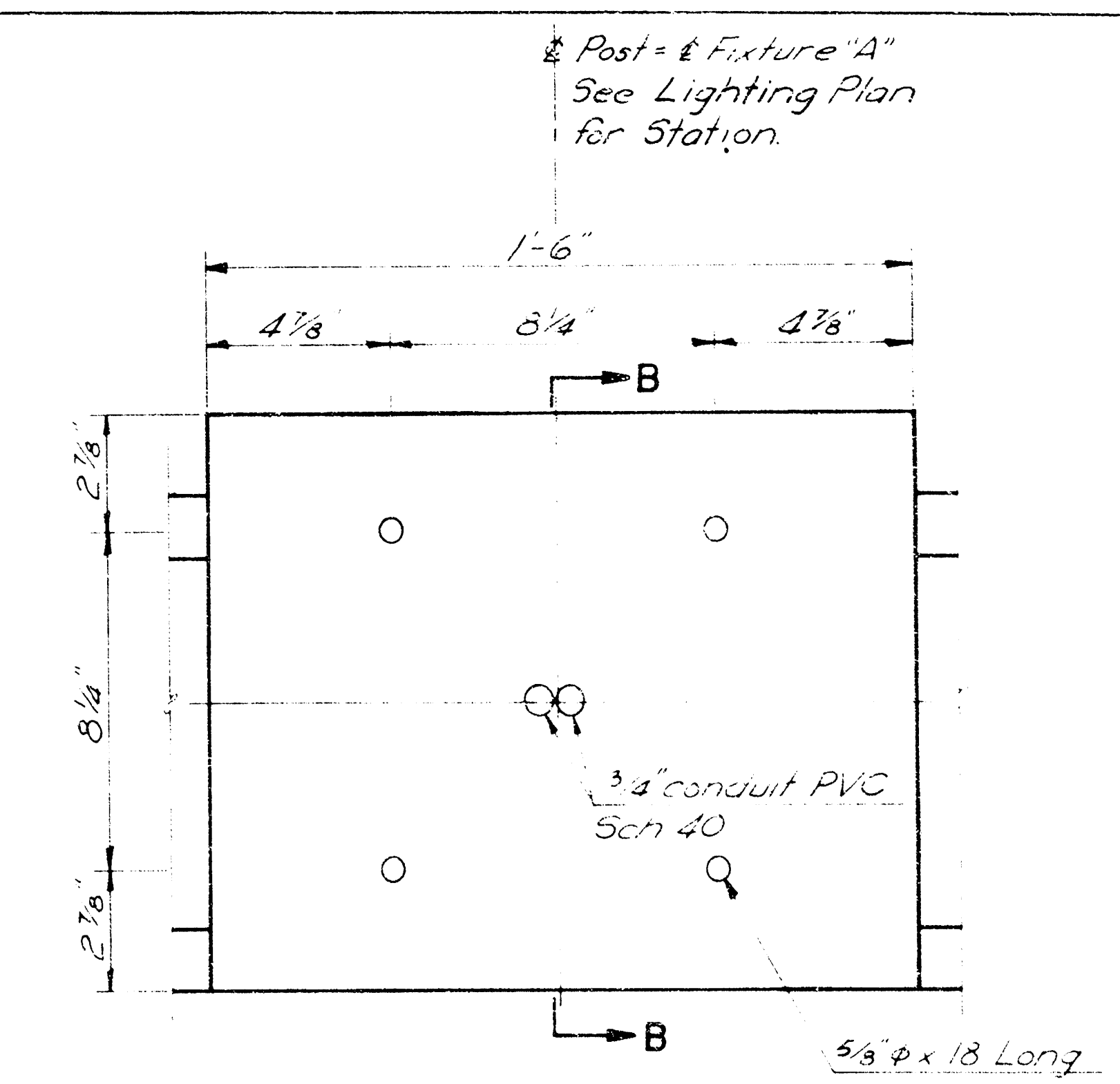
PROJECT NO.	DATE	BY	CHECKED
DAKB 576042	77	14	17



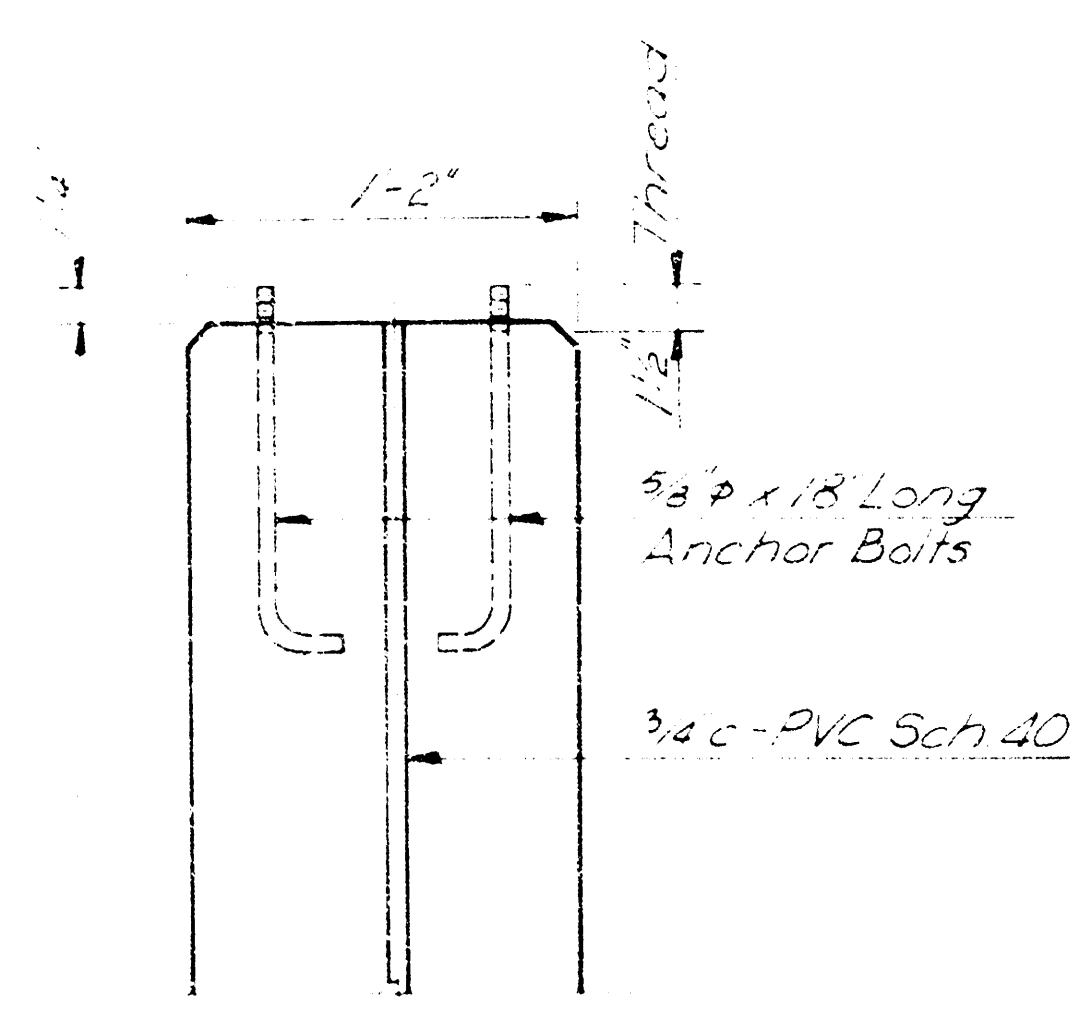
LIGHTING CONTROL PANEL DIAGRAM



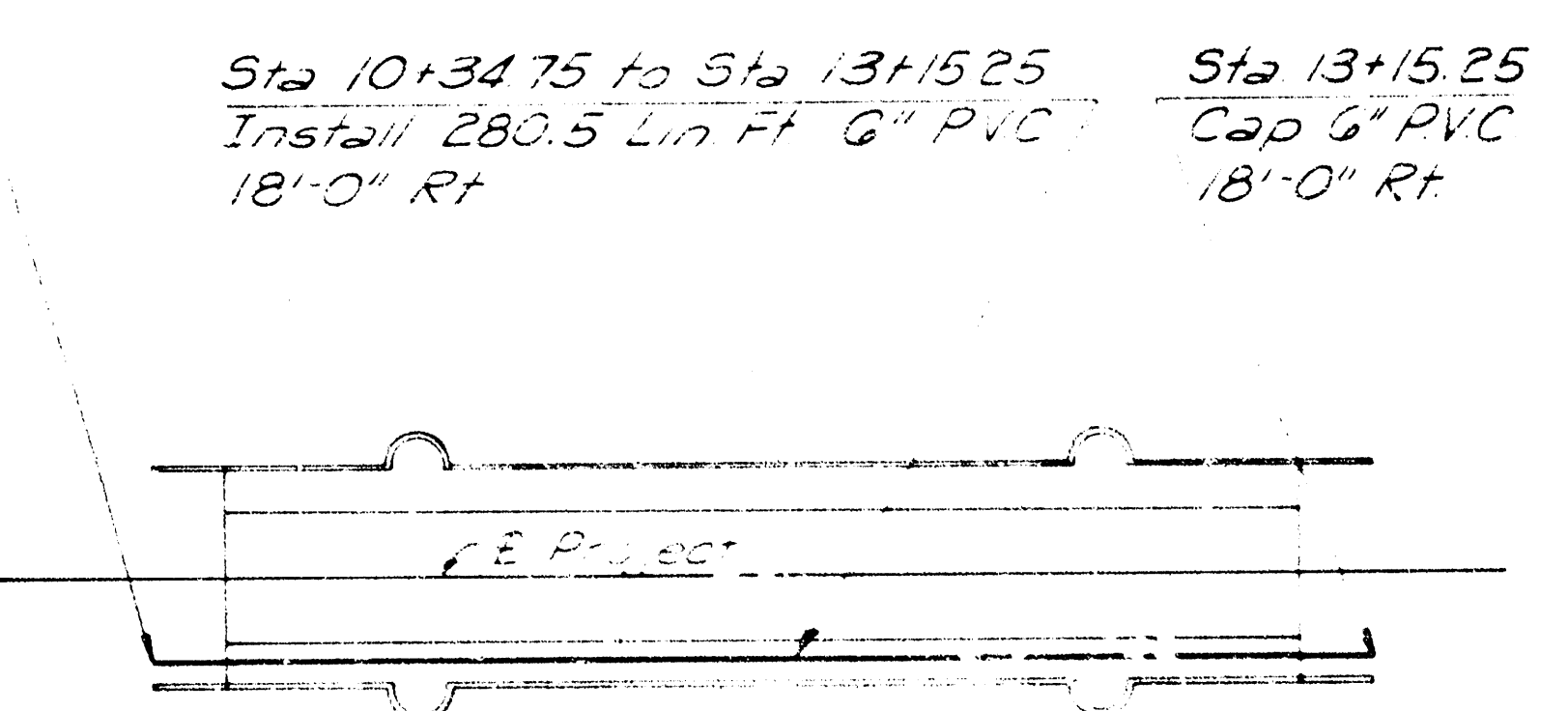
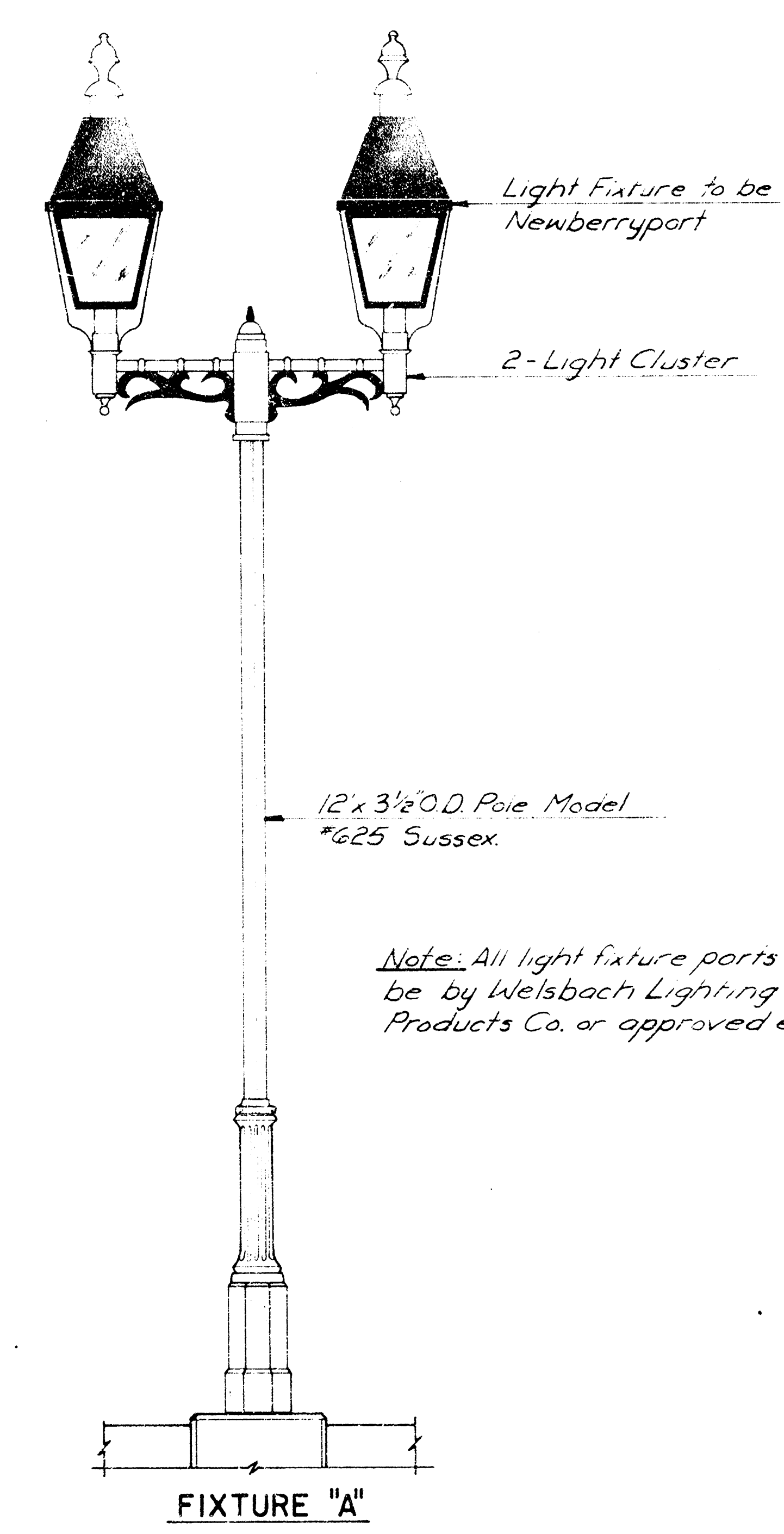
SECTION A-A



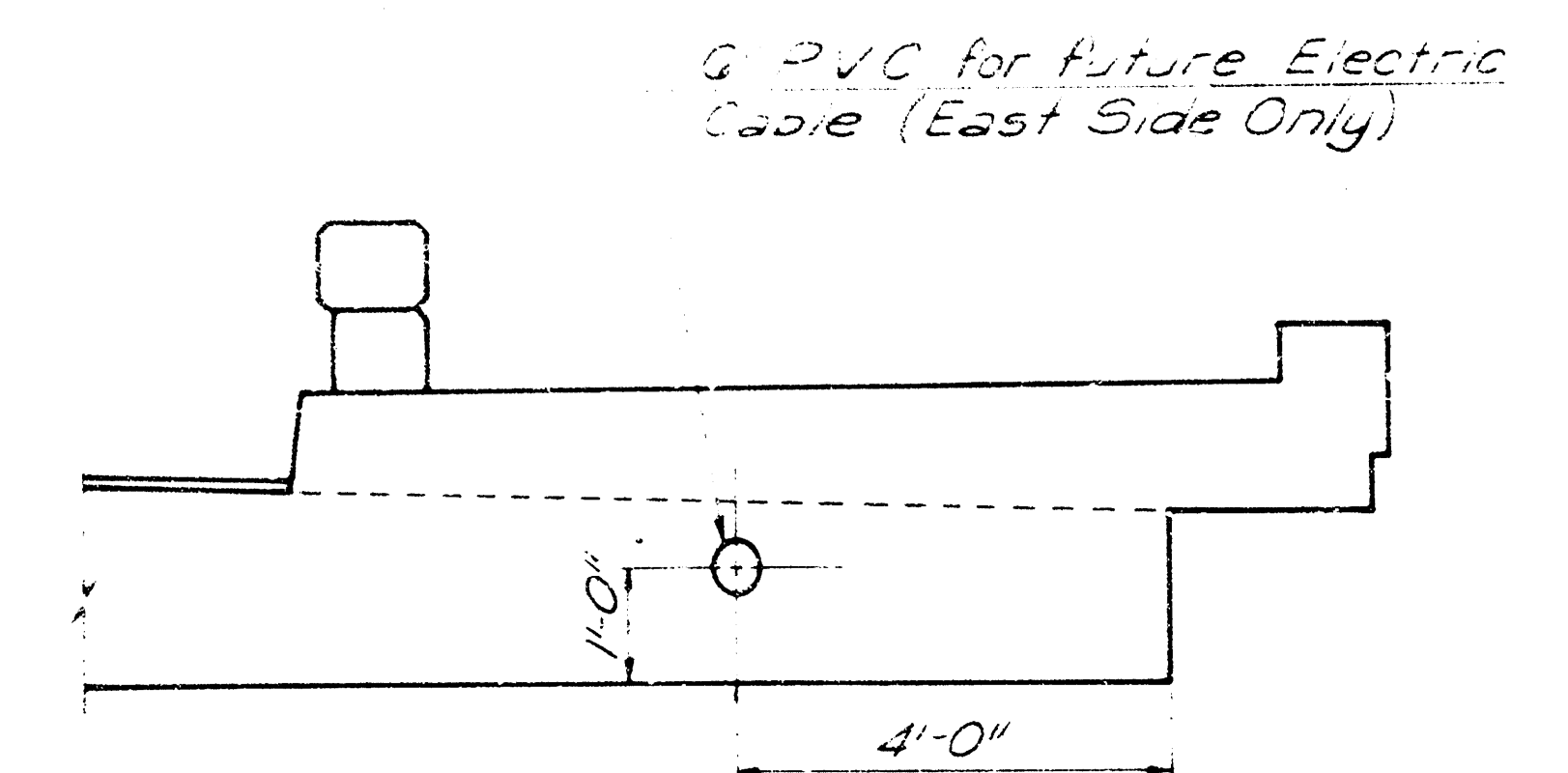
LIGHT-ANCHOR BOLT-PLAN



SECTION B-B



PLAN

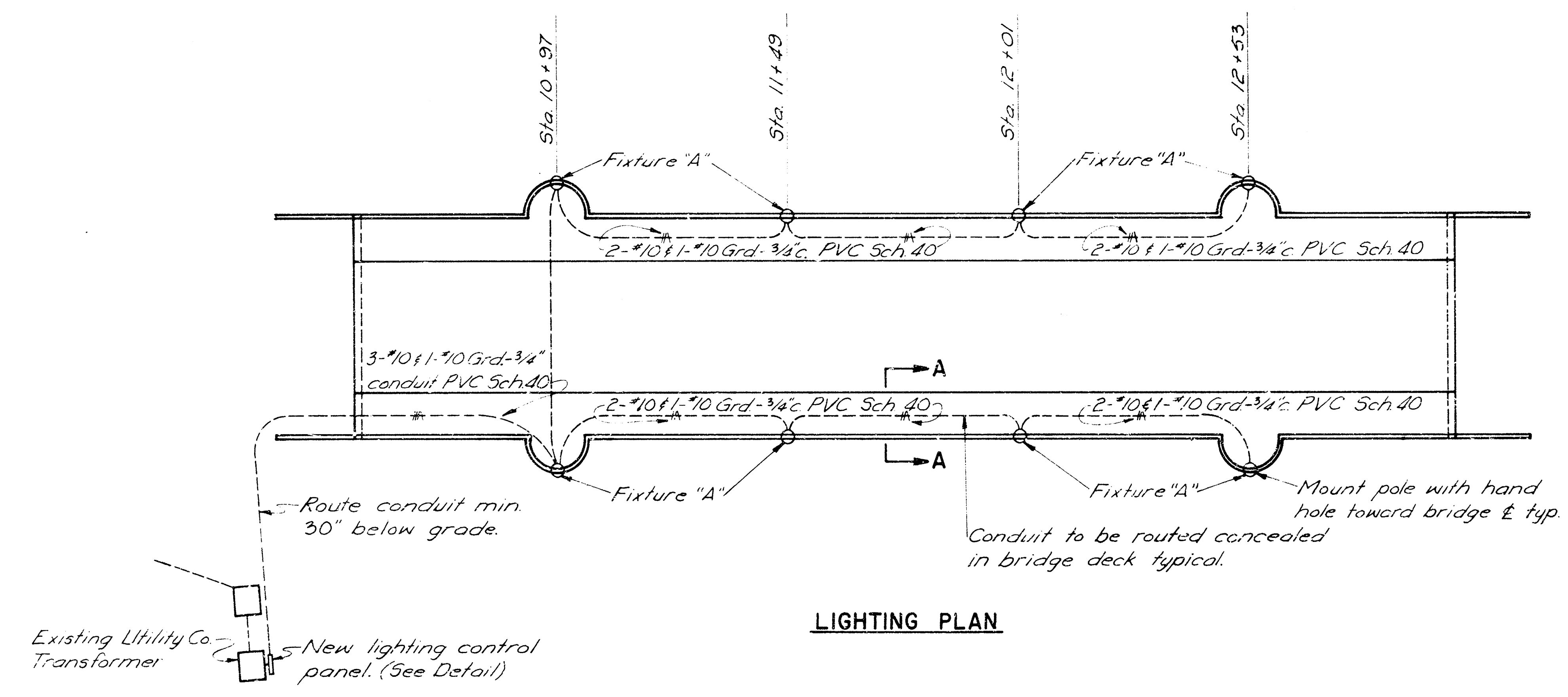


SECTION

Note: All light fixture ports to be by Welsbach Lighting Products Co. or approved equal.

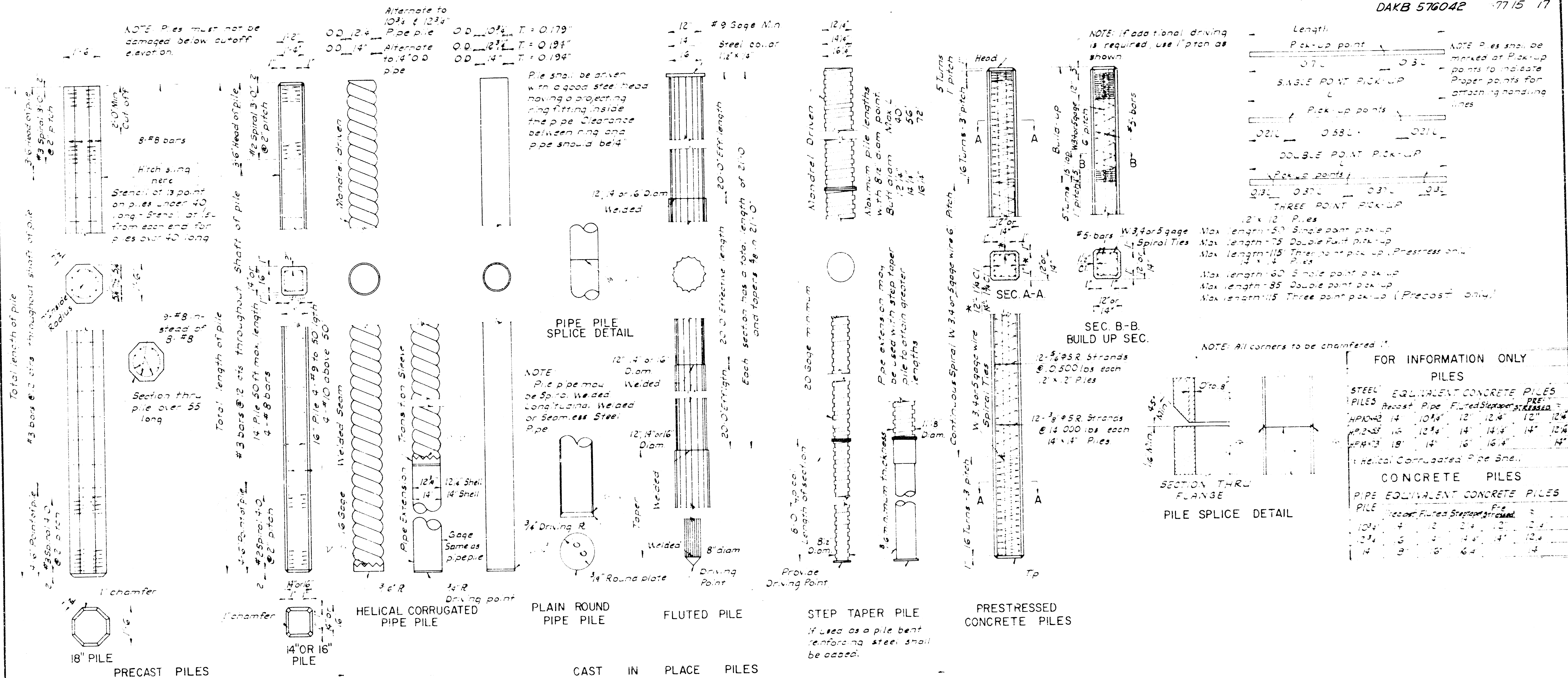
NOTE: 6" PVC to be furnished by K&E and installed by the Contractor. Cost of installation shall be included in the Price bid for Class I Concrete.

6" PVC. ELECTRIC CONDUIT DETAILS



LIGHTING PLAN

CITY OF WICHITA KANSAS R.W. LINN, P.E. CITY ENGINEER	
LIGHTING PLAN WOODMAN BRIDGE OVER THE LITTLE ARKANSAS RIVER CITY OF WICHITA PROJECT NO. DAKB 576042	
PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS	
Designed by	Checked by
Drawn by	Date



- GENERAL NOTES _____

1. Specifications
Standard Specifications for State Road and Bridge Construction as currently used by the State Highway Commission of Kansas. (Ed. 1973).
2. Concrete:
Concrete for cast-in-place shall be Class A concrete, $f_c \geq 3,000$ psi. See Sub-Article 703.07 (f)(1)(3) Standard Specifications.
Concrete for Precast and for Prestressed shall be Class AAA concrete $f_c \geq 4,000$ psi. See Article 703.07 (a) Standard Specifications.
3. Reinforcement:
Reinforcing bars shall be new miller steel, ASTM Designation A-615 grade 40, without exception. Hoops and spirals may be either plain or deformed bars. See Sub-Section 1006.01 Standard Specifications.
4. Precast Piles:
Precast piles shall conform to the requirements of Article 703.07 (a)(b)(c)(d) Standard Specifications.
5. Cast-in-Place Shells:
Steel shells for Cast-in-Place Concrete Piles shall conform to the requirements of Sub-Section 1006.06 Standard Specifications.
All piles driven without mandrel shall be of the minimum gages or thicknesses shown above, except fluted pile use No. 9 gage minimum. Piles driven with mandrel shall be of sufficient strength and thickness to withstand driving without injury and to resist harmful distortion and/or buckling due to soil pressure after the mandrel is removed.
Improperly driven, broken or otherwise defective shells shall be removed and replaced or otherwise corrected to the satisfaction of the Engineer, or the driving of an additional pile of no extra cost.

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-
-
- The contractor shall maintain on the job at all times prior to and during the filling of the shells a light suitable for visual inspection of the pile.
6. Steel Piles:
 - Steel pile shall conform to requirements of Article 1006.04(c) Standard Specifications
7. Pile Points:
 - Pile points shall conform to the dimensions shown and requirements of Sub-Article 1006.06 (b)(3) Standard Specification. Pile points shall be mill welded to pile.
8. Welding:
 - All field welding shall meet the requirements of Sub-Section 703.06 Standard Specifications
9. Paint:
 - All paint shall comply with Sub-Section 1008.06 Standard Specifications, or as specified on the plans.
10. Test Piles:
 - Test Piles shall be driven where called for on the Bridge plans. The test piles located within the limits of the substructure will become a part of the Bridge Pile System.
11. Splices:
 - Splices for Steel Piles and Shell Piling shall be in accordance with details shown on this sheet and shall comply with Sub-Section 703.06 Standard Specifications.
 - Precast Concrete Pile splices shall comply with Sub-Article 703.07(a)(ii) Standard Specifications.

- Prestressed Concrete Pile sp. ces shall be made in accordance with the manufacturer's recommendations subject to the approval of the Engineer.
- 12. Drilling Formula:
Drilling Formula shall conform to Sub-Article 703.04.(a)(3) Standard Specifications
- 13. All Test Reports:
Steel Piles test reports shall comply with Sub-Article 1006.04(a),(3) Standard Specifications.
Steel Sheet piers test reports for cast-in-place piles shall comply with Article 1006.06.(d) Standard Specifications.
- 14. Measurement and Payment:
Measurement for all piles shall comply with Sub-Section 703.08 Standard Specifications
Payment for all piles shall comply with Sub-Section 703.09 Standard Specifications.

CITY OF WICHITA PROJECT NO. DAKB 576042

6-9-73	Revised For 1973 Const Spec	SAK, EEW
5-8-66	Revised Estimate Gen Note	EEW
4-1-66	Revised Estimate Gen Note	EEW
4-1-66	Revised Estimate Gen Note	EEW
4-1-66	Revised Estimate Gen Note	EEW
3-2-66	Revised Estimate Gen Note	EEW
1-2-66	Revised Estimate Gen Note	EEW

STATE HIGHWAY COMMISSION OF KANSAS

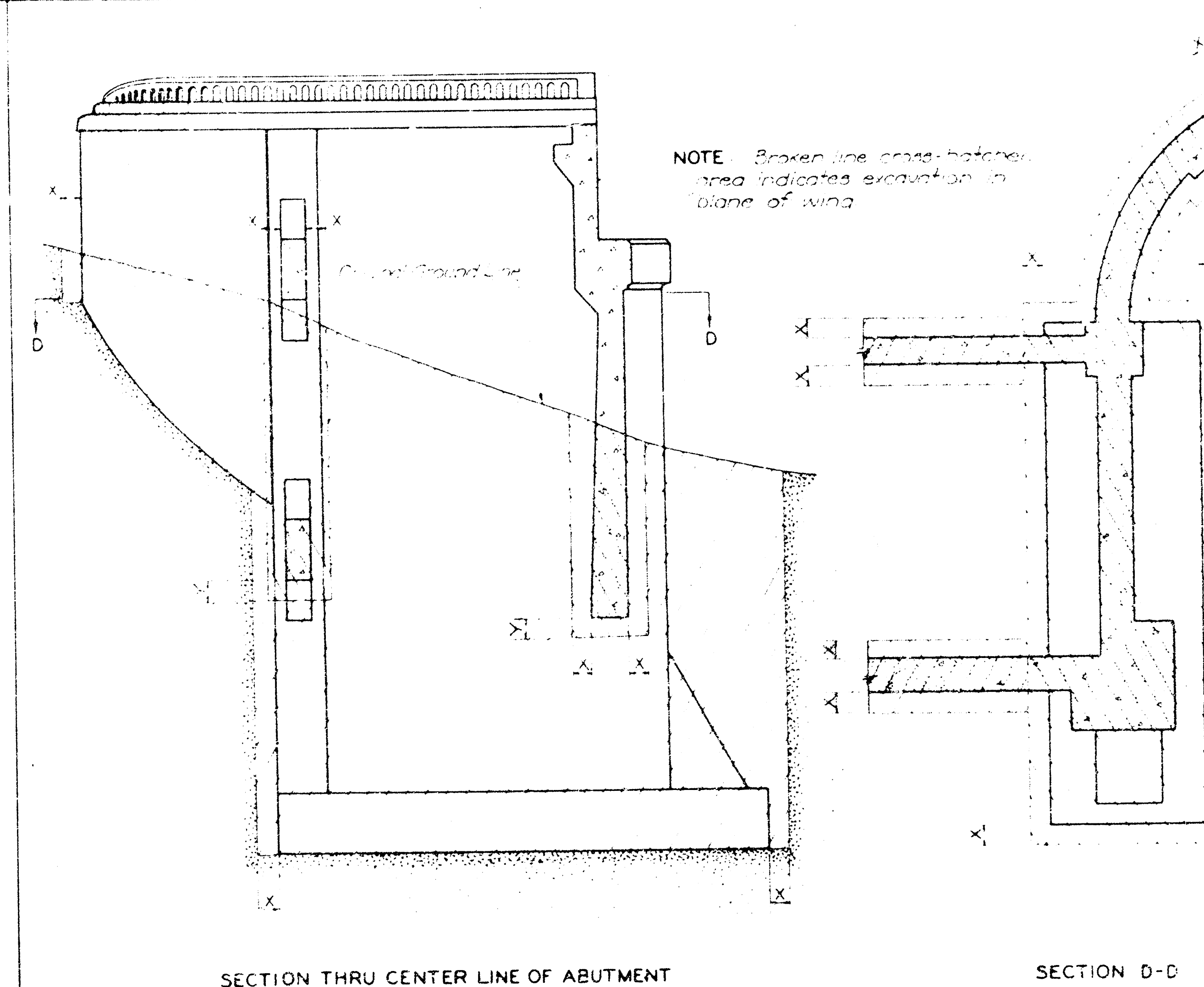
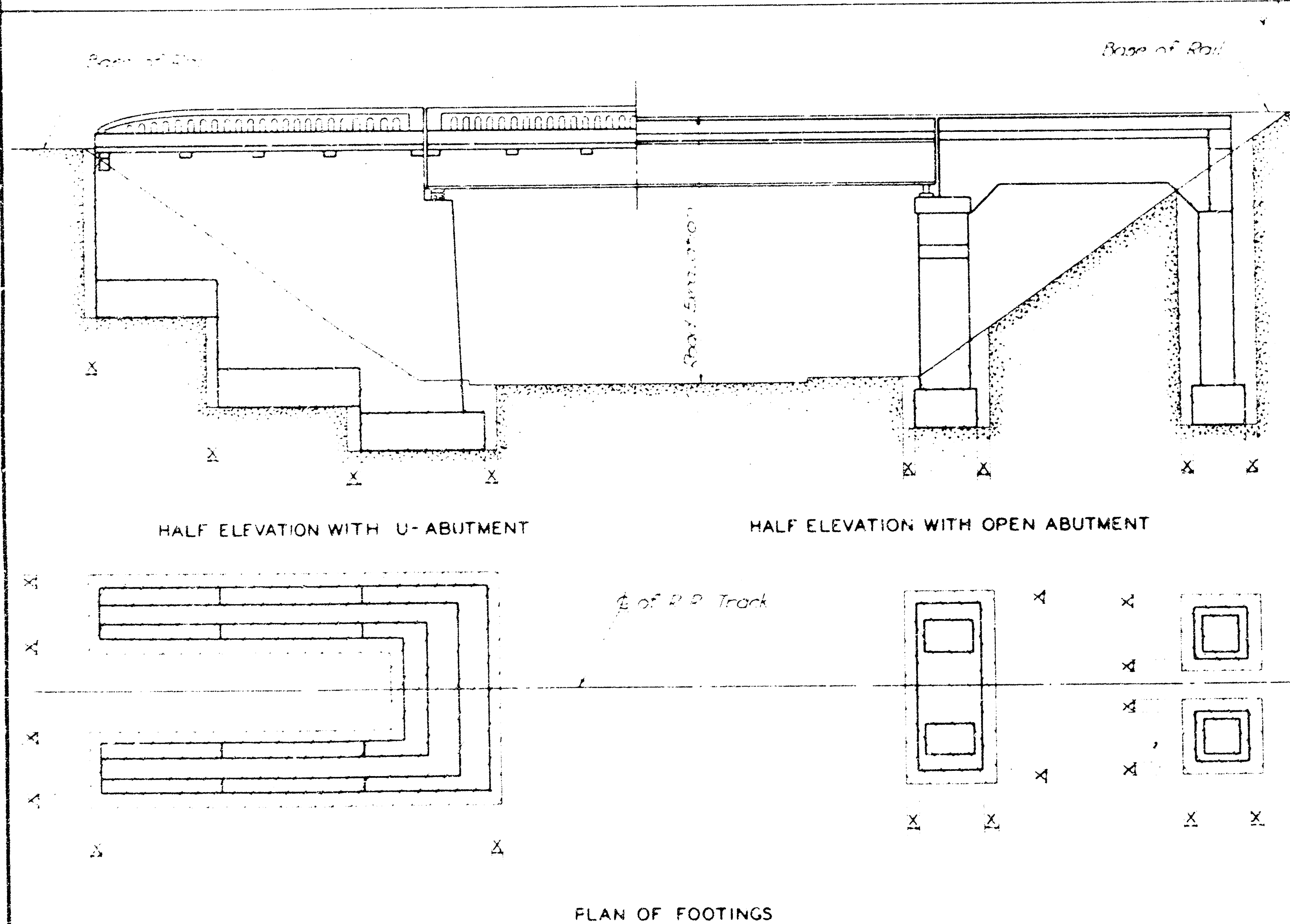
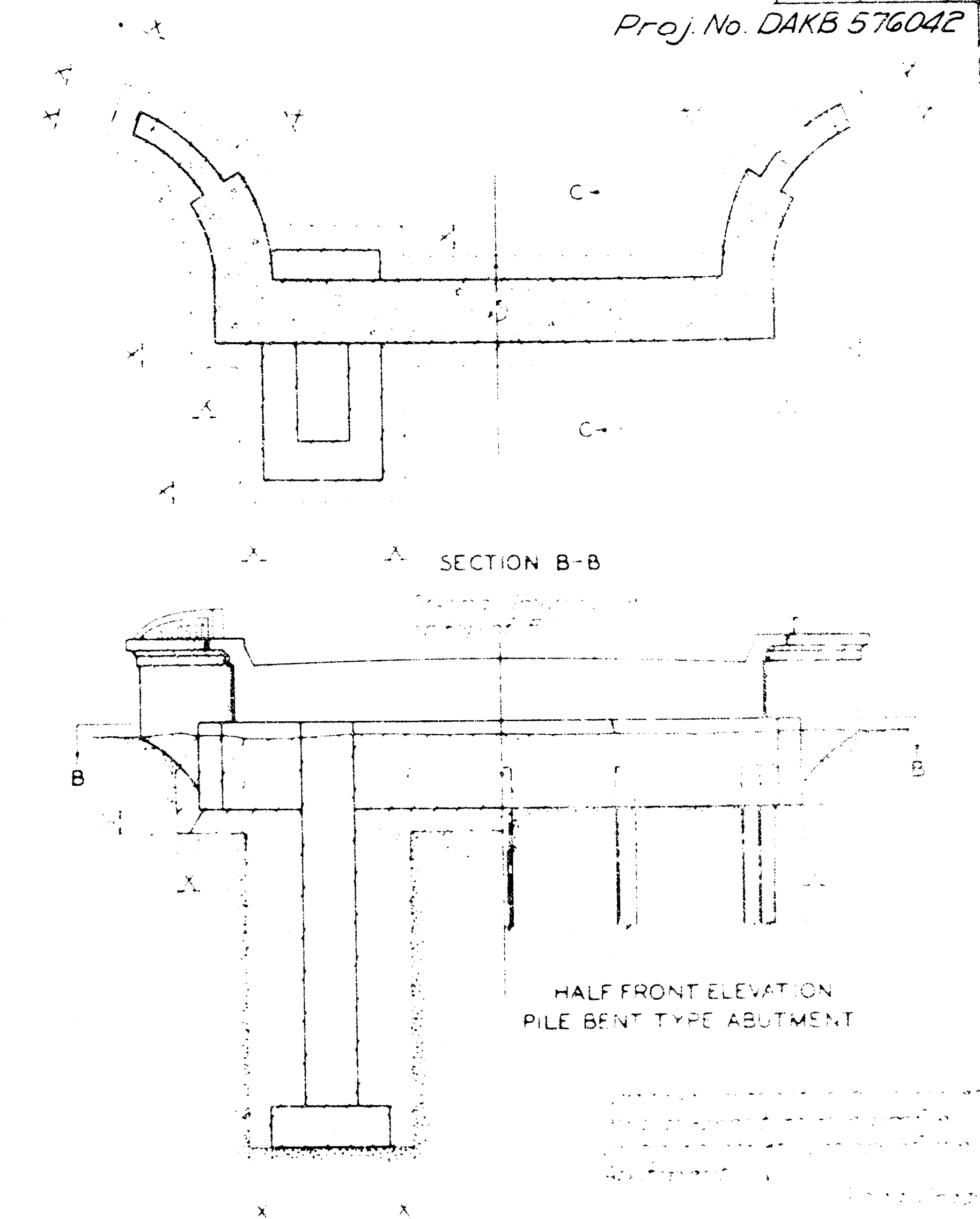
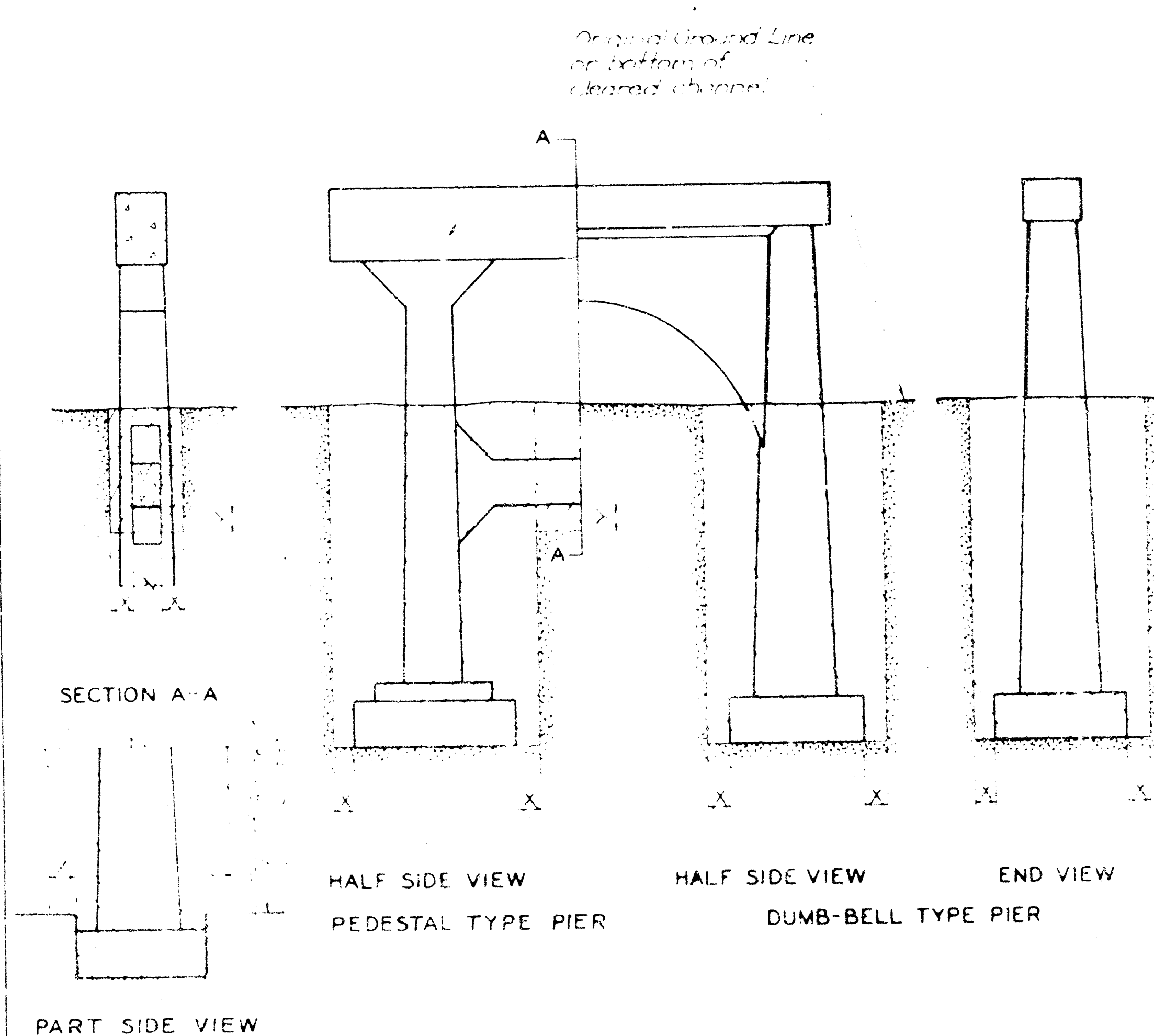
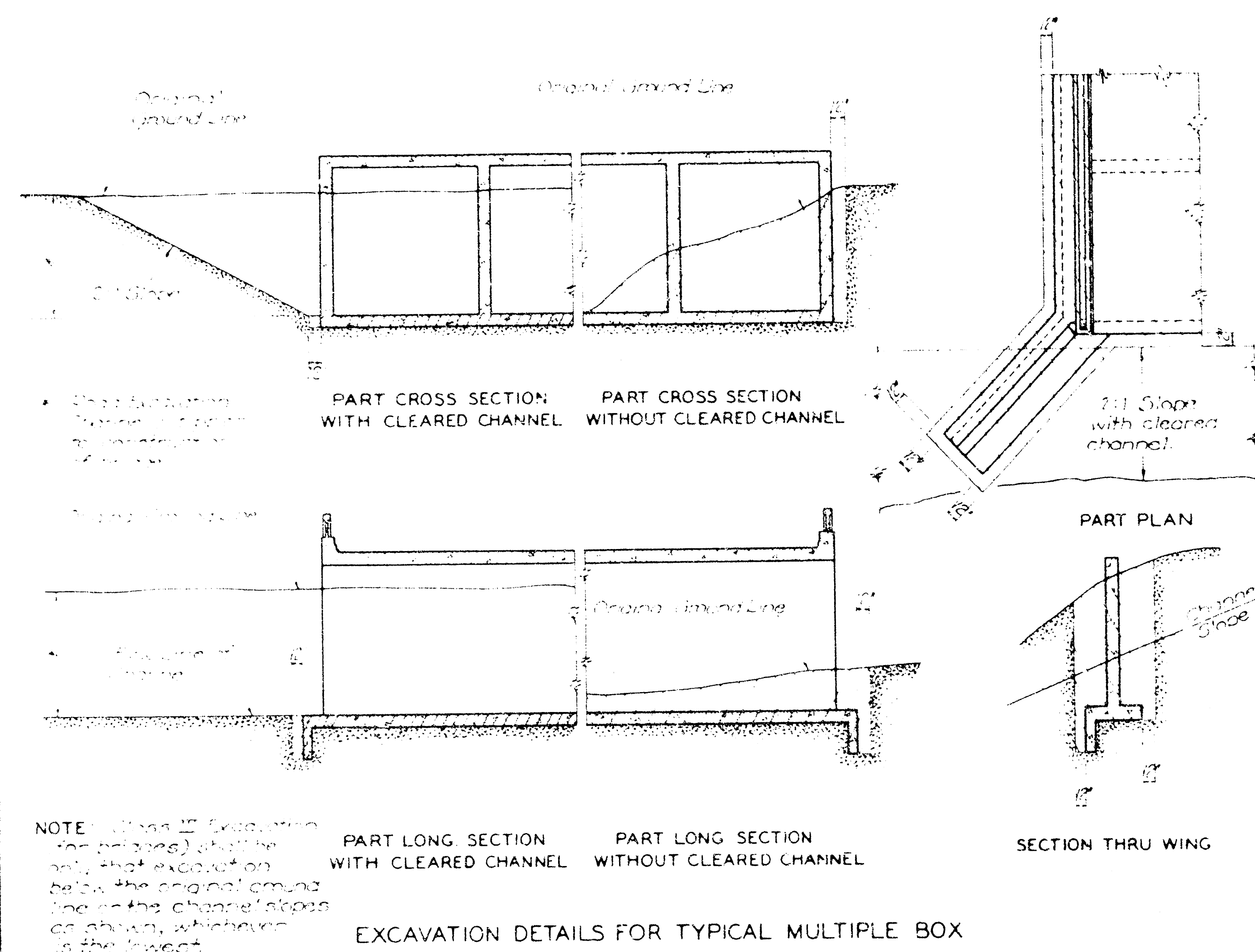
STANDARD PILE DETAILS

STD. NO. 102

SHEET NO	OF	STATE	APPRO
DESIGNED		DRAWN	QUANTITIES
CHECKED		DATE	DATE

Page No.	Field No.	Sheet No.	Total Sheets
	1977	16	17

DAKB 576042 Section



CITY OF WICHITA PROJECT NO. DAKB 87604Z						
CN					DRAWING BY	
NO.	DATE	REVISIONS			BY	A.P.
STATE HIGHWAY COMMISSION OF KANSAS						
BRIDGE EXCAVATION						
STD NO. 100 SCALE _____ PERCENT REDUCED						
DESIGNED BY DATE PLANT DATA SUBMITTED TO TRACED BY						
CHECKED BY APPROVED BY CHECKED DATE						

TYPICAL SUPERSTRUCTURE DETAILS

The figure contains several technical drawings of bridge superstructure details:

- Top Left:** A cross-section of a bridge deck labeled "DECK GIRDER". It is symmetrical about a centerline (indicated by a dashed line and the text "Symmetrical about C"). It shows reinforcement bars and stirrups. Labels include "See Note No. 2" and "See Note No. 1".
- Top Right:** A cross-section of a bridge slab labeled "SLAB". It is also symmetrical about a centerline. It shows reinforcement bars and stirrups. Labels include "Truss bar" and "See Note No. 1".
- Middle Left:** A plan view of the bridge deck showing reinforcement bars and stirrups. It includes the dimension "Max. Spacing = 6'-0\" and the label "Bridge".
- Middle Right:** A plan view of the bridge slab showing reinforcement bars and stirrups. It includes the dimension "Max. Spacing = 6'-0\" and the label "Bridge".
- Bottom Left:** A plan view of the bridge deck showing reinforcement bars and stirrups. It includes the dimension "Max. Spacing = 6'-0\" and the label "Bridge".
- Bottom Right:** A plan view of the bridge slab showing reinforcement bars and stirrups. It includes the dimension "Max. Spacing = 6'-0\" and the label "Bridge".
- Top Center:** A cross-section of a bridge pier labeled "PIER". It shows reinforcement bars and stirrups. Labels include "See Note No. 3".
- Top Right Center:** A cross-section of a bridge abutment labeled "ABUTMENT". It shows reinforcement bars and stirrups. Labels include "See Note No. 3".
- Bottom Center:** A plan view of the bridge deck showing reinforcement bars and stirrups. It includes the dimension "Max. Spacing = 6'-0\" and the label "Bridge".
- Bottom Right Center:** A plan view of the bridge slab showing reinforcement bars and stirrups. It includes the dimension "Max. Spacing = 6'-0\" and the label "Bridge".

TYPICAL SUBSTRUCTURE DETAILS

GENERAL NOTE

Spacings shown are maximum. Sufficient supports shall be used, as determined by the Engineer, to retain the reinf. steel in position. Approved drawings and arrangements of supports or spacers other than as shown on this sheet, may be used with the permission of the Engineer. Component parts of supports and spacers shall be securely welded at all contact points. Legs shall be so constructed that only the ends bear upon the forms.

Wire used for Supports and Spacers shall be of sufficient size to insure stability of Reinforcing Steel at the position shown on the Plans, within the limits indicated by Notes 1, 2, 3. Wire supports

NOTE 1: The lower side of Reinforcing Steel in these locations shall be not less than one half inch (1/2") from the surface of the concrete.

NOTE 2: The upper side of Reinforcing Steel in these locations shall be within the limits shown on the Plans.

NOTE 3: The use of Wire Supports for Reinforcing Steel in these locations is optional. Where they are not used the Steel shall be supported from the form by means of wire ties or saddles.

NOTE 4: All bar supports or spacers

The diagrams illustrate the construction of a roof truss system. The top diagram shows a single truss with labels 'Braker', 'Truss', 'Rafter', and 'Spacer'. The middle diagram shows two trusses connected by a 'Truss' and a 'Rafter'. The bottom diagram shows a series of trusses connected by a 'Truss' and a 'Rafter'.

1

NOTE: Bar supports shall be placed on a one inch board, except where the foundation is composed of rock, firm shale or a dead course.

See Note No. 3

See Note No. 1

Bar supports corners of these locations

Max Spacing 5'-0"

Max Spacing 1'-0"

FLOOR

SLAB

6

SUPPORTS AND SPACERS

FOR

REINFORCING STEEL

STD. NO. 610 SCALE 1:50,000

CHECKED BY: [Signature] APPROVED BY: [Signature] DATE: 4/12/14