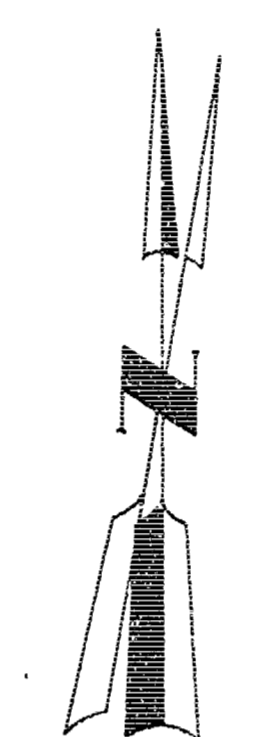


STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KANSAS				



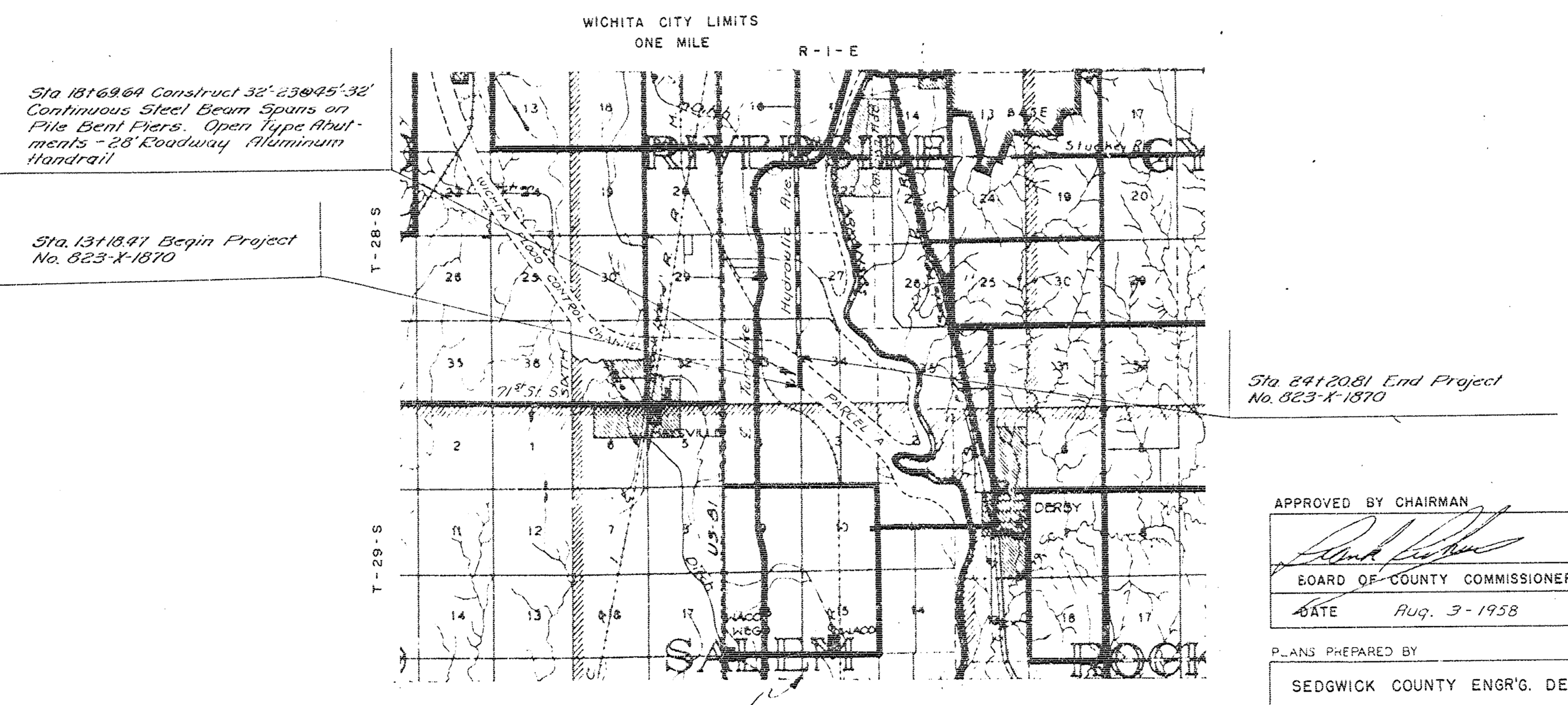
BRIDGE ONLY



Scale 1" = 1 Mile

INDEX OF SHEETS

SHEET NO.	TITLE SHEET
Sheet #1	Topographic Map
Sheet #2	Plan Profile
Sheet #3	Construction Layout
Sheet #4	Pier & Abutment Details
Sheet #5	Steel Details
Sheet #6	Deck Details
Sheet #7	Auxiliary Details
Sheet #8	Pile Details
Sheet #9	Bar Supports & Spacers
Sheet #10	



CONVENTIONAL SIGNS

COUNTY LINE	-----
SECTION LINE	-----
WIRE FENCE	-----
HEDGE ROW	-----
RAILROADS	-----
SURVEY LINE	-----
RIGHT OF WAY	-----
TELEPHONE POLE	-----
POWER POLE	-----
TRAVELED WAY	-----

NET LENGTH OF PROJECT	1102.33	FT	0.209	MILES
NET LENGTH OF BRIDGES	1102.33	FT	0.209	MILES
NET LENGTH OF ROAD	None	FT	None	MILES
EXCEPTIONS	"	FT	"	MILES
ADDITIONS	"	FT	"	MILES
GROSS LENGTH OF PROJECT	1102.33	FT	0.209	MILES

APPROVED BY CHAIRMAN

 BOARD OF COUNTY COMMISSIONERS
 DATE Aug. 3 - 1958

PLANS PREPARED BY
 SEDGWICK COUNTY ENGR'G. DEPT.
 WICHITA, KANSAS
 DATE 7/58

APPROVED
 CORPS OF ENGINEERS
 DATE Aug. 27 - 1958

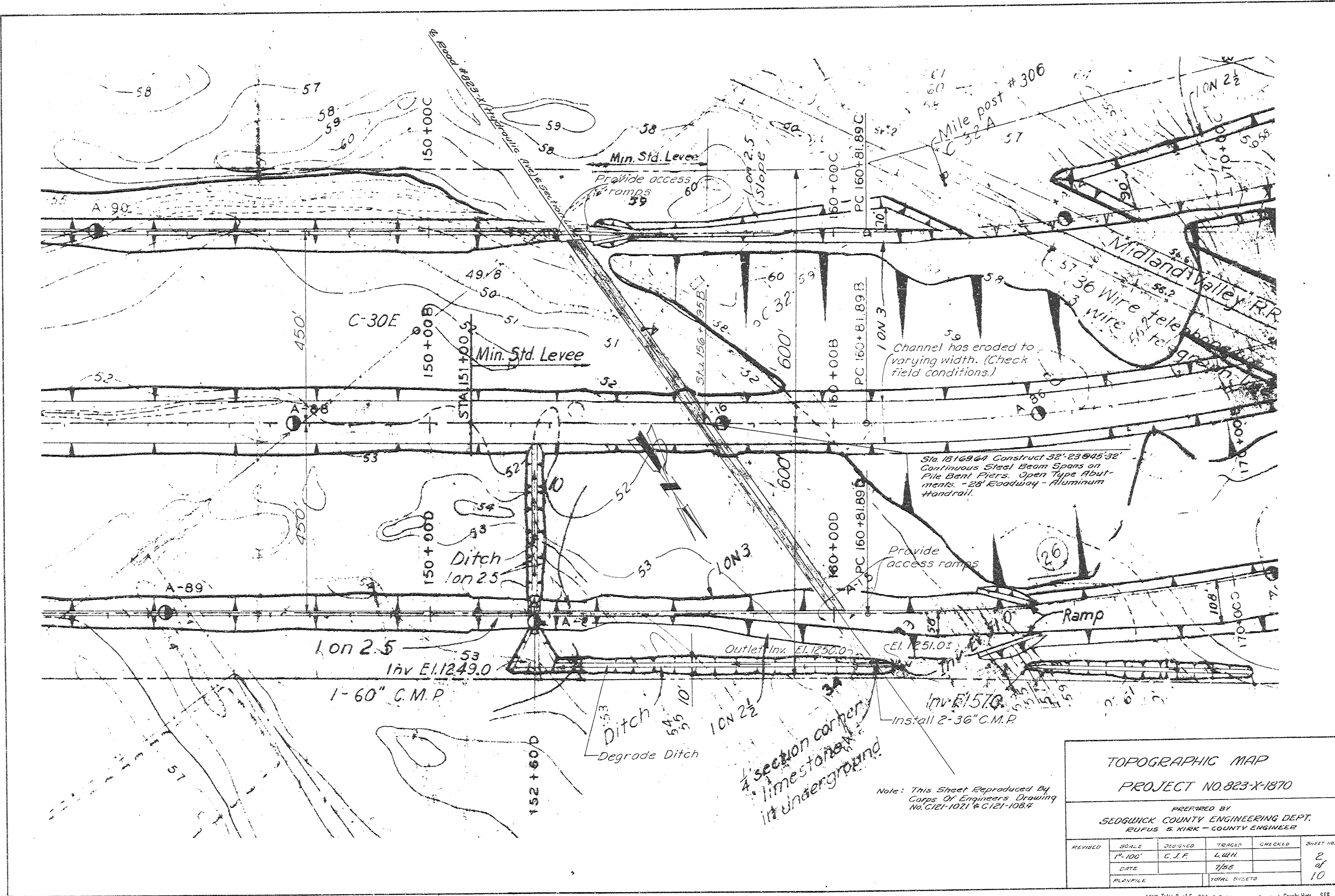
FILED IN COUNTY CLERK'S OFFICE

 COUNTY CLERK
 DATE Sept 3rd 1958

APPROVED

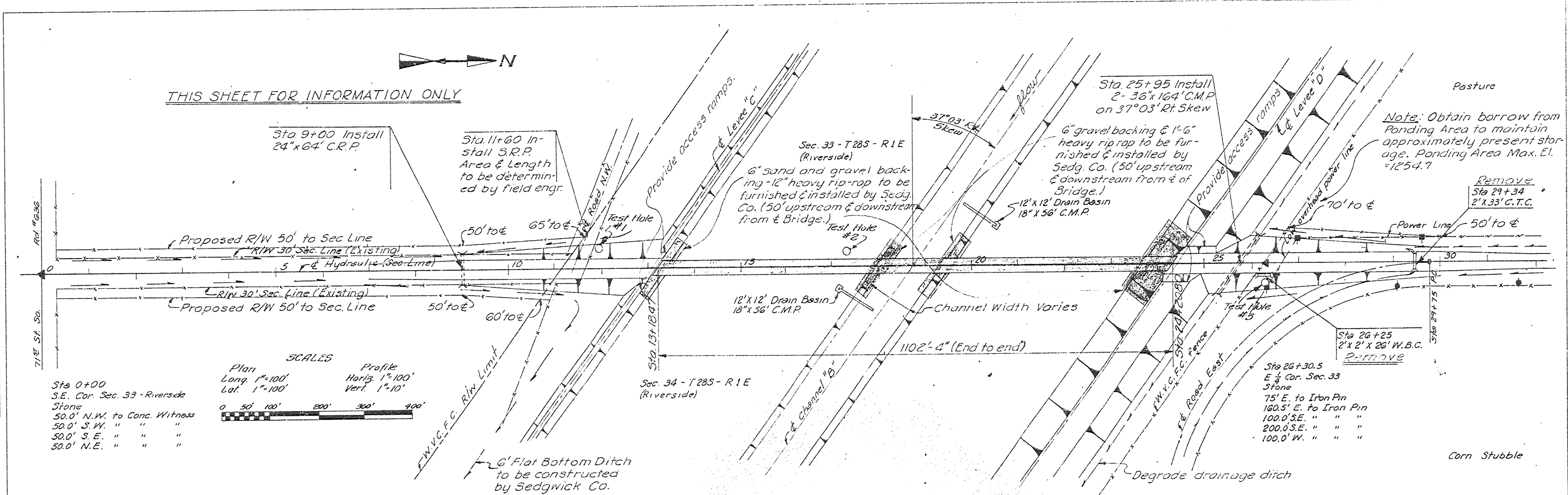
 COUNTY ENGINEER
 DATE Sept. 2 - 1958

APPROVED
 KANSAS STATE HIGHWAY COMMISSION
 DATE Aug. 13 - 1958



TOPOGRAPHIC MAP				
PROJECT NO. 823-X-1870				
PREPARED BY SEDGWICK COUNTY ENGINEERING DEPT. RUFUS S. KIRK - COUNTY ENGINEER				
REVISED	SCALE	DESIGNED	TRACED	CHECKED
	1"=100'	C. J. F.	L. M. H.	
	DATE		1/58	
	FILE/FOLDER	TOTAL SHEETS		SHEET NO.
				2 of 10

THIS SHEET FOR INFORMATION ONLY

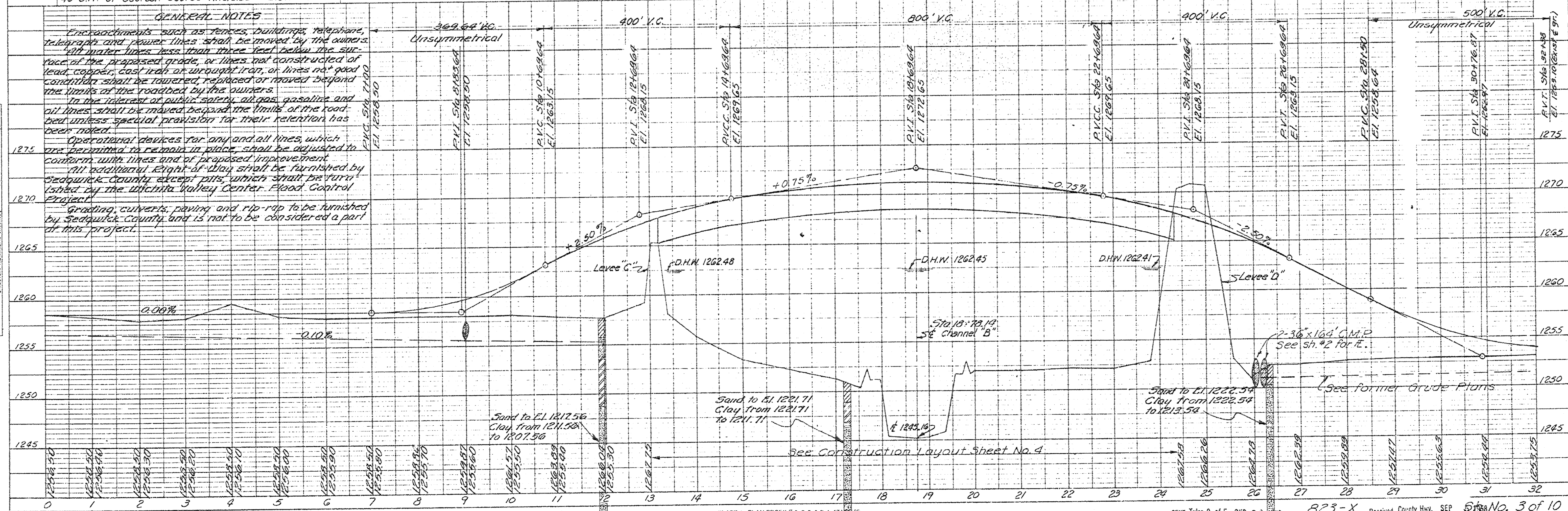


PLAN
 SHEET NO. 823-X
 NOTE BOOK, ADJUSTMENT CHECKED BY ME, DATE 10/1/58
 DATE OF PLAN CHECKED 10/1/58

SCALES
 Plan Long 1"=100'
 Lat. 1"=100'
 Profile Horiz 1"=100'
 Vert 1"=10'

Sta 0+00
 S.E. Cor. Sec. 33 - Riverside
 Stone
 50.0' N.W. to Conc. Witness
 50.0' S.W. " " " "
 50.0' S.E. " " " "
 50.0' N.E. " " " "

B.M. #1 - U.S.G.S. - Spitz and washer in roof of tree 46' S.W. of Sec. Cor. Sec. 33 - Riverside - Elev. 1253.64
 B.M. #2 - R.R. spike in F.C. cor post E. of Rd #23 in 3d. F.C. R. - Elev. 1257.29
 B.M. #3 - 60d spike in N. pole of H-Frame 125' N.W. of 1/4 Cor. E & Sec. 33 - Riverside - El. 1253.01



PLAN
 SHEET NO. 823-X
 NOTE BOOK, ADJUSTMENT CHECKED BY ME, DATE 10/1/58
 DATE OF PLAN CHECKED 10/1/58

PROFILE
 SHEET NO. 823-X
 NOTE BOOK, ADJUSTMENT CHECKED BY ME, DATE 10/1/58
 DATE OF PROFILE CHECKED 10/1/58

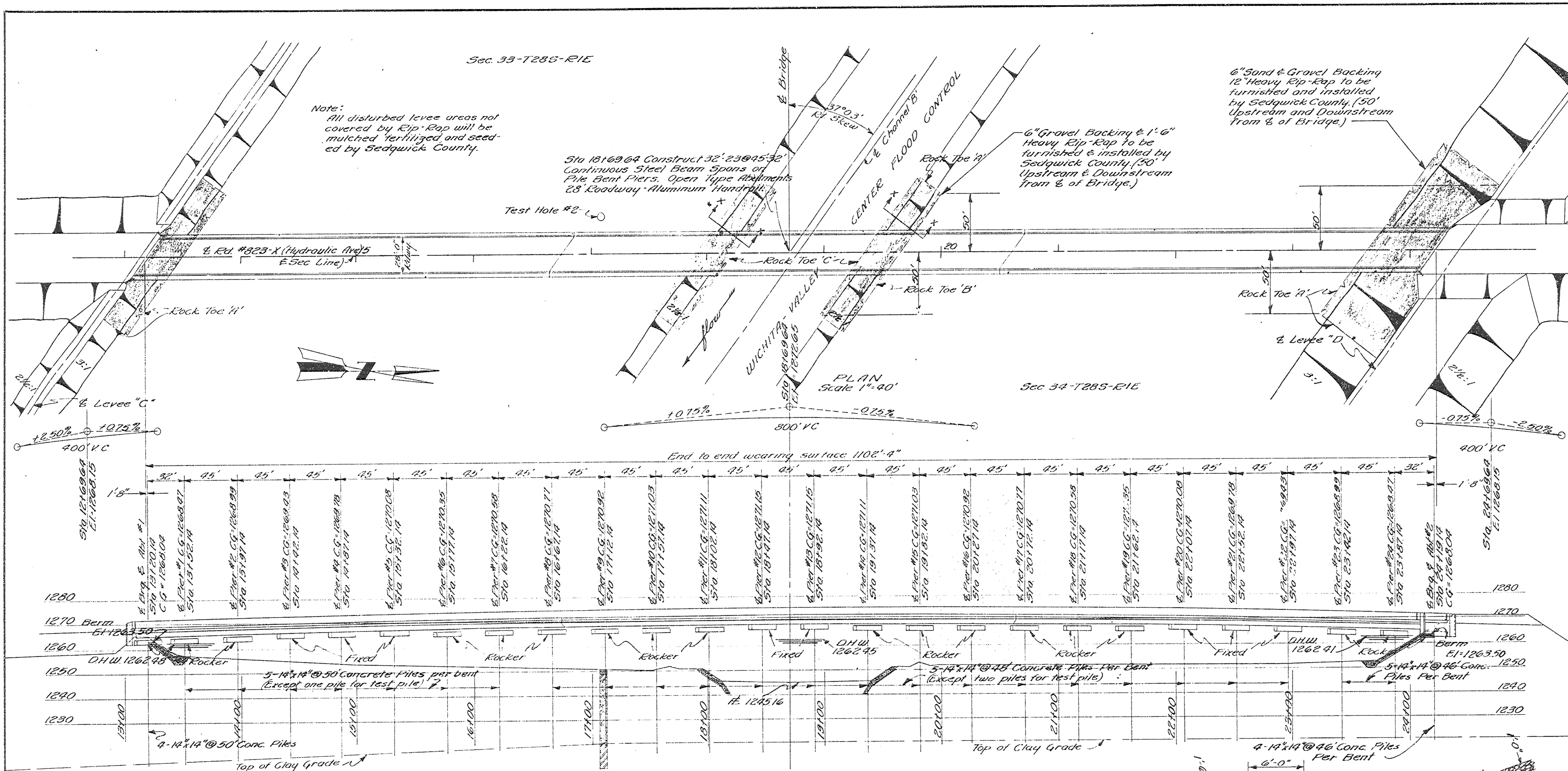
Sec. 33-T285-R1E

Note: All disturbed levee areas not covered by Rip-Rap will be mulched, fertilized and seeded by Sedgwick County.

Sta 12169.64 Construct 32' x 23' @ 45' 32' Continuous Steel Beam Spans on Pile Bent Piers. Open Type Abutments 28' Roadway - Aluminum Handrail.

6" Gravel Backing & 1'-6" Heavy Rip-Rap to be furnished & installed by Sedgwick County (50' Upstream & Downstream from E of Bridge.)

6" Sand & Gravel Backing 12" Heavy Rip-Rap to be furnished and installed by Sedgwick County (50' Upstream and Downstream from E of Bridge.)



GENERAL NOTES

Design: A.R.S.H.O. Specs. H-20-44 Loading 32' x 23' @ 45' 32' Continuous Steel 18000 p.s.i. Structural Steel Beam Spans on Pile Bent Piers. 20,000 p.s.i. Reinforcing Steel (in gr) Open Type Abutments 28' Roadway. 4000 p.s.i. Concrete + 4% Aluminum Handrail

Soundings: Soundings to be taken by Sedgwick County (Soil Sampling & Foundation Drill with 3" Auger)

Piling: Piling to be driven to a computed min. resistance of 42 tons and clay penetration.

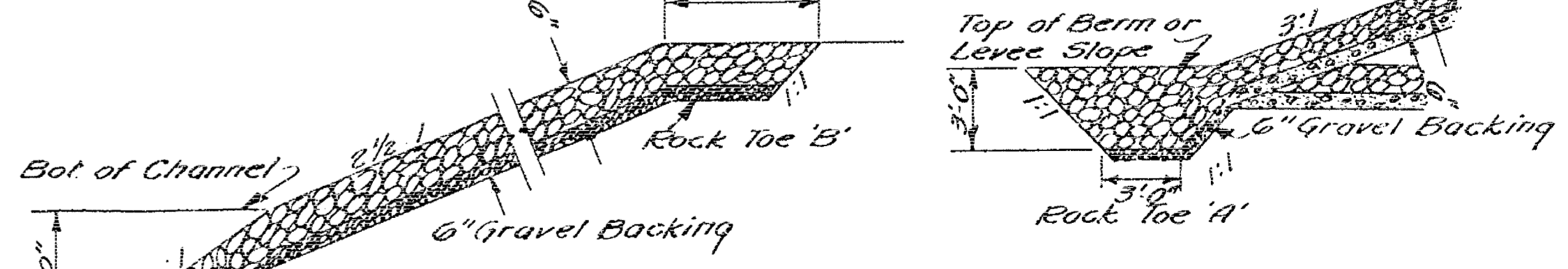
Embankment: The excavation of Levee 'D' to grade and the approach embankments to crown grade shall be built by Sedgwick County prior to construction of the abutments.

Excavation: All excavation to real line required for the abutments shall be subsidiary to other items in the contract.

ELEVATION Scale 1"=40' Horiz. Scale 1"=20' Vert.

Test Pile: Two 14"x14" Concrete pile @ 50' and one 14"x14" Concrete pile @ 52' shall be driven in place by the Contractor in a location suitable to the Engineer prior to approval of the necessary Pile lengths for order.

SUMMARY OF QUANTITIES	
ITEM	QUANTITY
Concrete Class A (AE)	162.7 C.Y.
Concrete Class AAR (AE)	372.0 C.Y.
14x14 Conc. Test Pile	152 L.F.
14x14 Concrete Pile	6,043 L.F.
Reinforcing Steel	132,210 Lbs.
Structural Steel	400,625 Lbs.
Bearing Devices	12,220 Lbs.
Aluminum Highway Rolling	2,193 L.F.

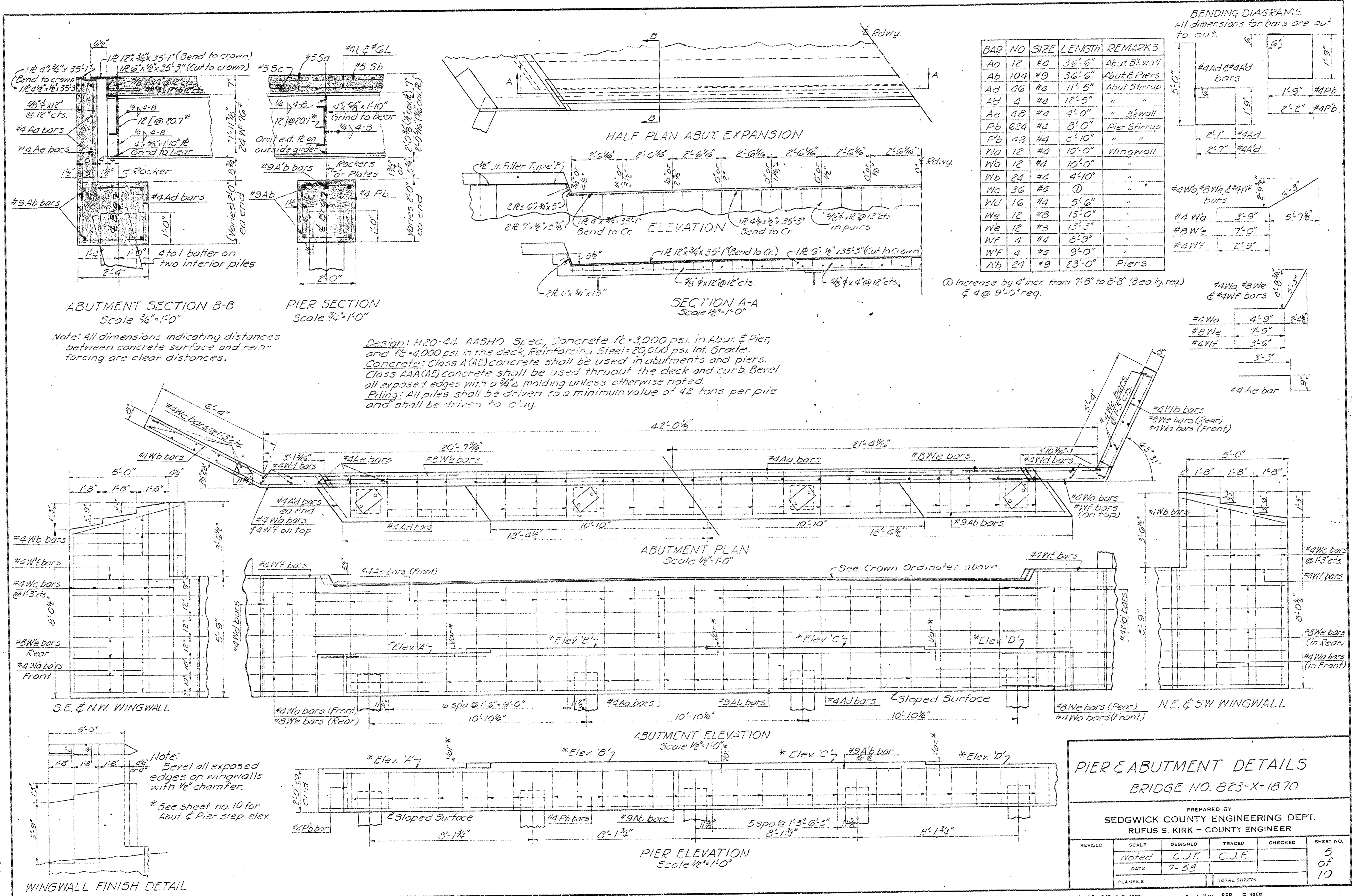


BENCH MARKS
 B.M. #2 R.R. spike in F.C. to cor. post E. of R.R. E.L. 1253.29
 B.M. #3 60" spike in N. post of H-frame 125' N.W. of 1/4 cor. E. 1/4 Sec. 33 Everside E.L. 1253.01

CONSTRUCTION LAYOUT
BRIDGE NO. 823-X-1870

PREPARED BY
 SEDGWICK COUNTY ENGINEERING DEPT.
 RUFUS S. KIRK — COUNTY ENGINEER

REVISIONS	SCALE	DESIGNED	DRAWN	CHECKED	SHEET NO.
		C.J.F.	L.W.H.		4
		3/58	7/58		of
					10
				TOTAL SHEETS	

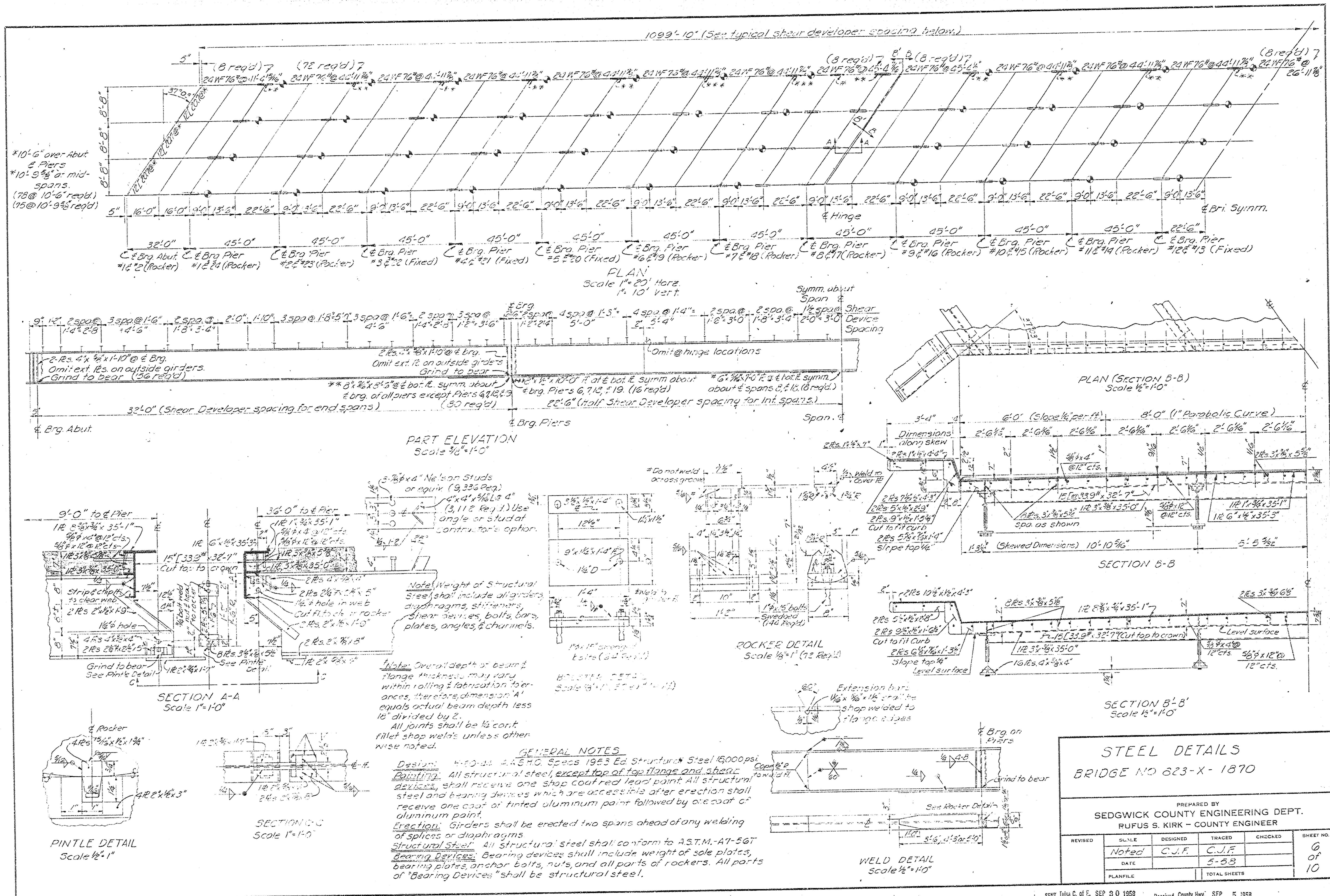


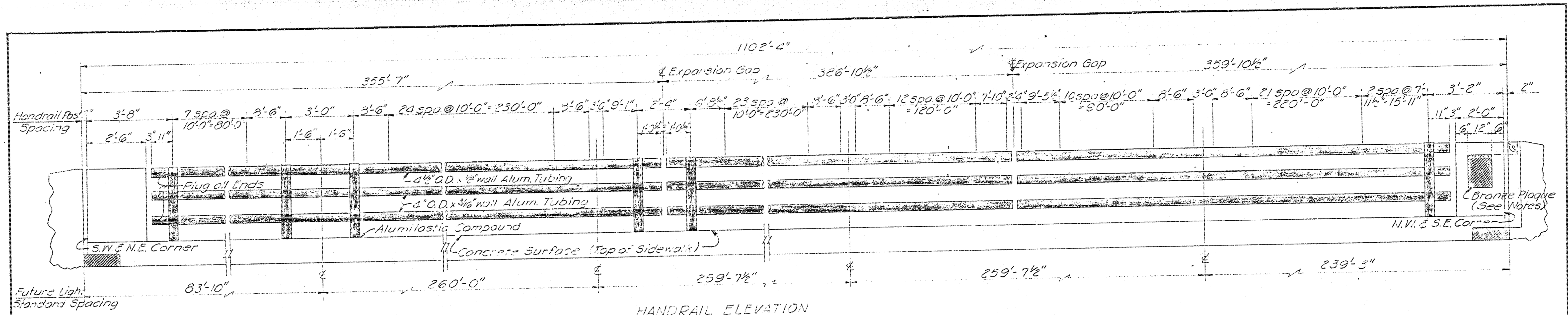
BAR	NO	SIZE	LENGTH	REMARKS
AQ	12	#4	38'-6"	Abut. & Pier
Ab	10A	#9	36'-6"	Abut. & Pier
Ad	46	#6	11'-5"	Abut. Stirrup
AE	4	#4	12'-5"	"
Ae	4B	#4	4'-0"	"
Pb	62A	#3	8'-0"	Pier Stirrup
Pb	48	#4	6'-10"	"
Wd	12	#4	10'-0"	Wingwall
Wd	12	#4	10'-0"	"
Wb	24	#4	4'-10"	"
Wc	36	#2	0	"
Wd	16	#4	5'-6"	"
We	12	#8	13'-0"	"
Wf	12	#3	13'-3"	"
Wf	4	#4	6'-9"	"
Wf	4	#4	9'-0"	"
Ab	24	#9	23'-0"	Piers

PIER & ABUTMENT DETAILS
BRIDGE NO. 823-X-1870

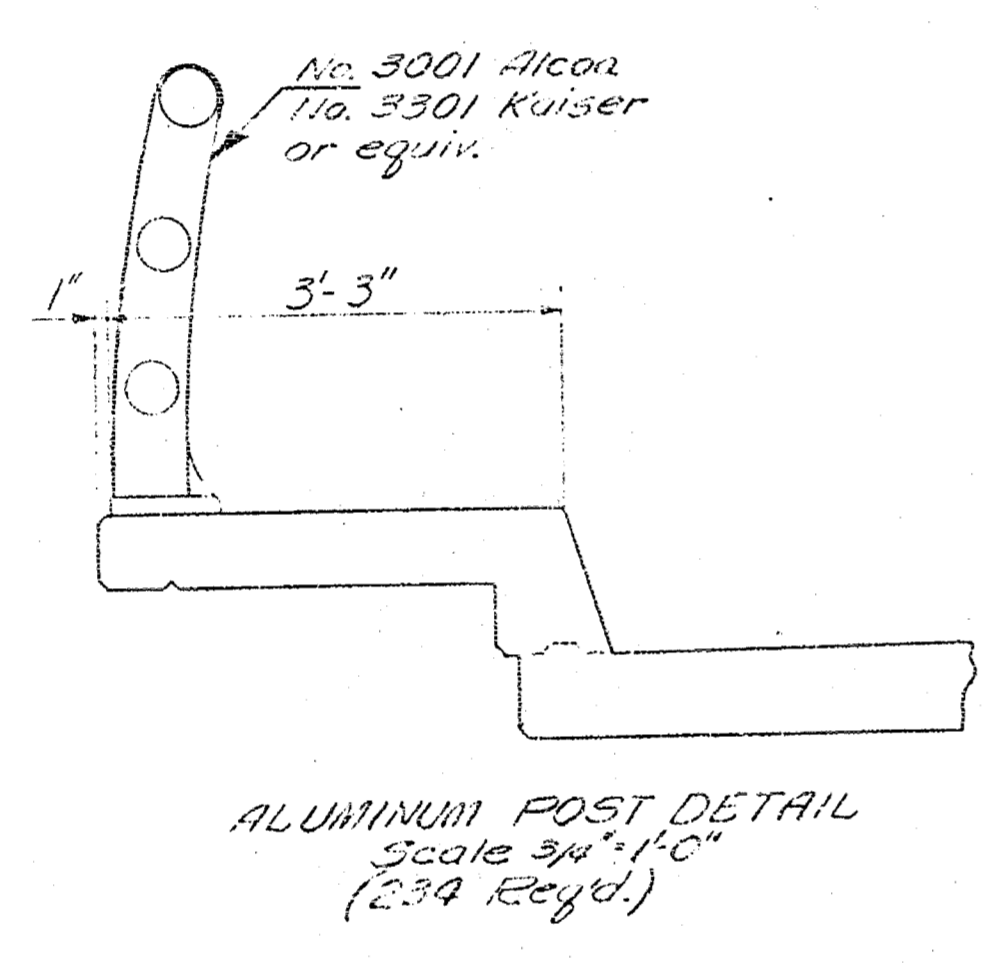
PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
RUFUS S. KIRK - COUNTY ENGINEER

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	Noted	C.J.F.	C.J.F.		5
	DATE	7-55			of 10
	PLANFILE	TOTAL SHEETS			

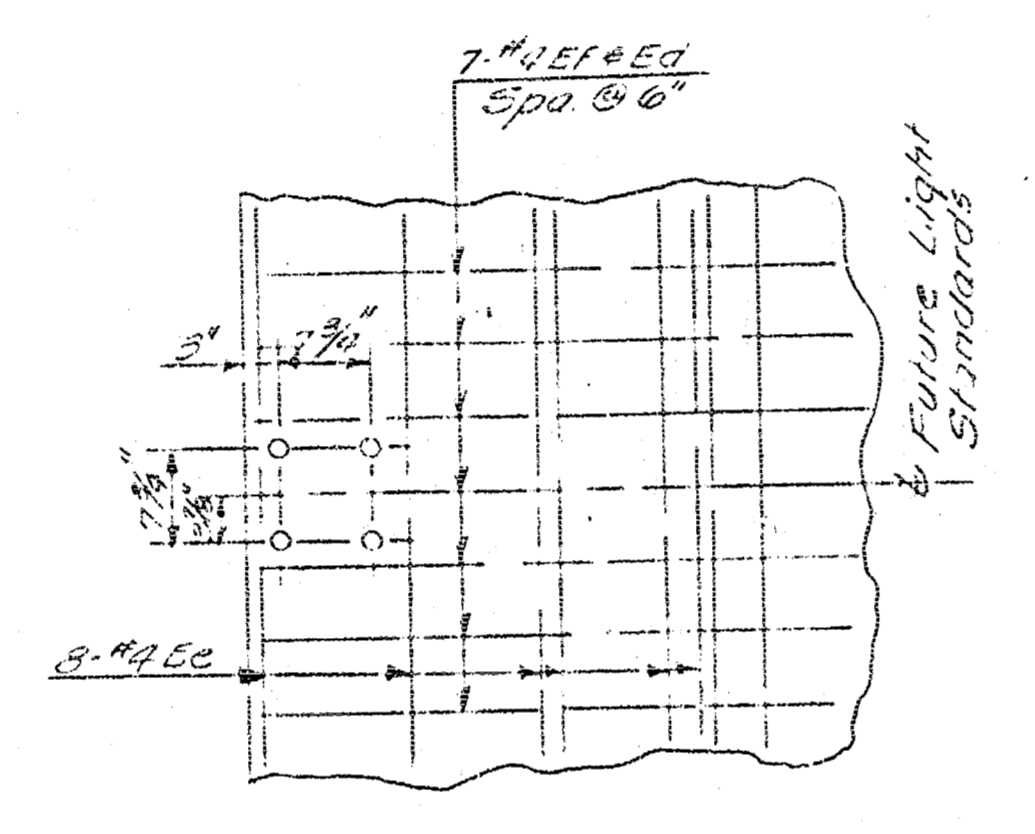




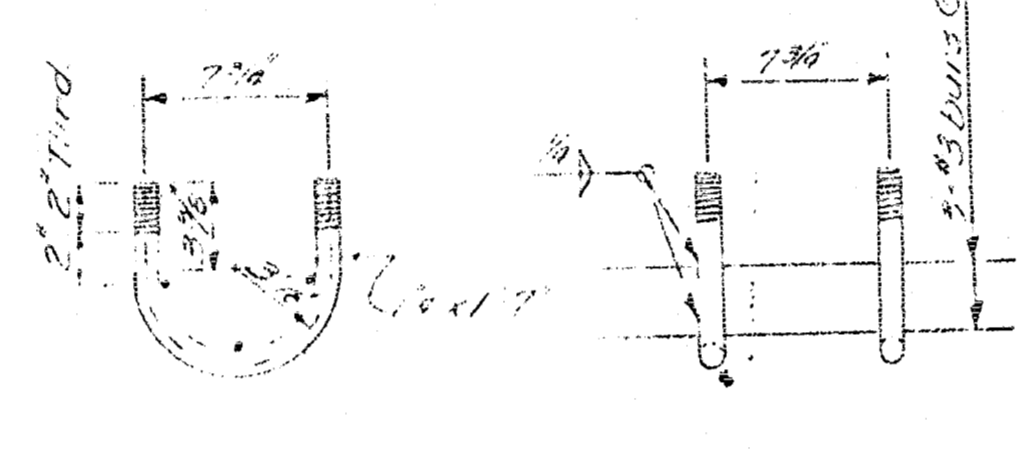
HANDRAIL ELEVATION
Vert. Scale 1/2" = 1'-0"



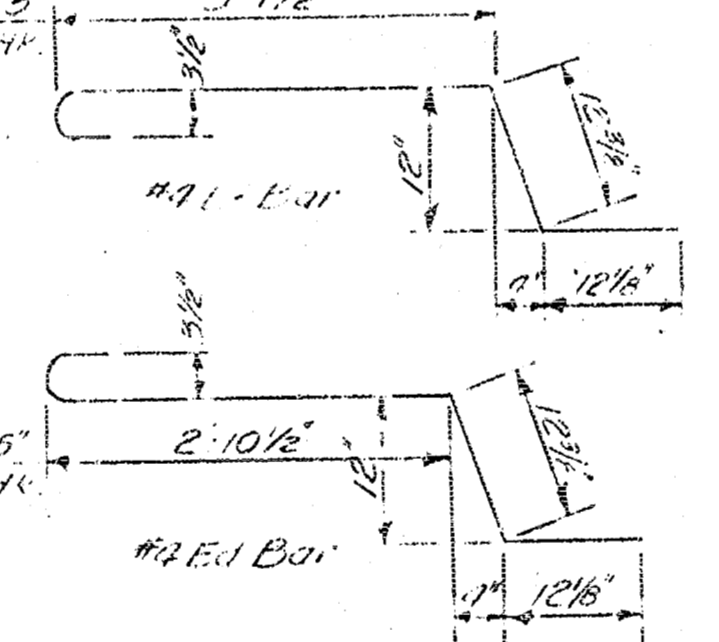
ALUMINUM POST DETAIL
Scale 3/4" = 1'-0"
(2.24 Red.)



LIGHT STANDARD
Anchor Bolt Installation
and Reinforcing Detail
Scale 3/4" = 1'-0"

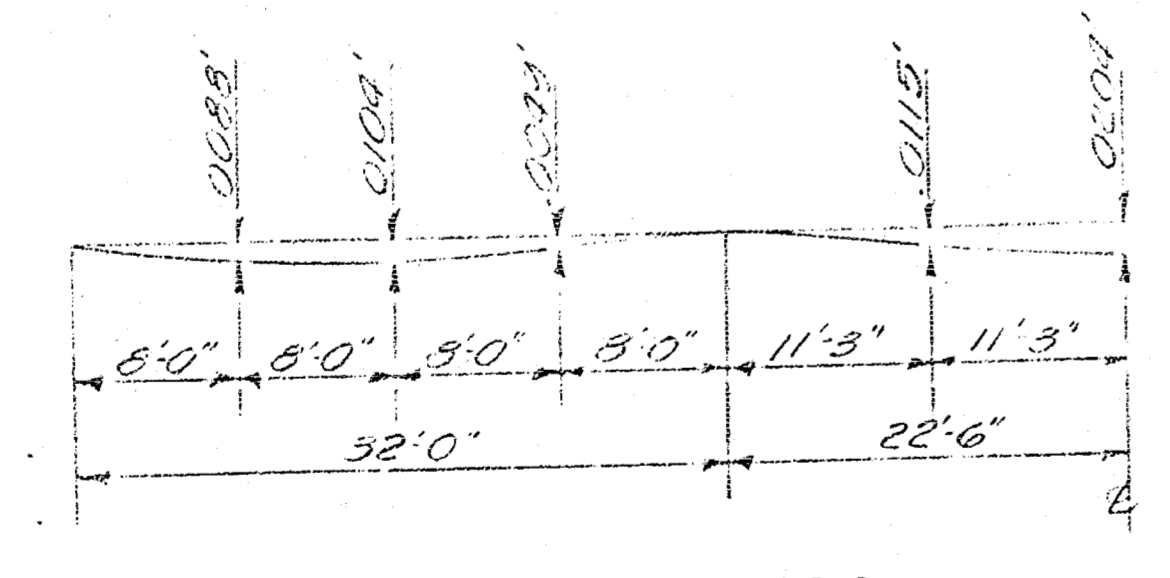


CAST IRON DRAINS
Scale 1/2" = 1'-0"

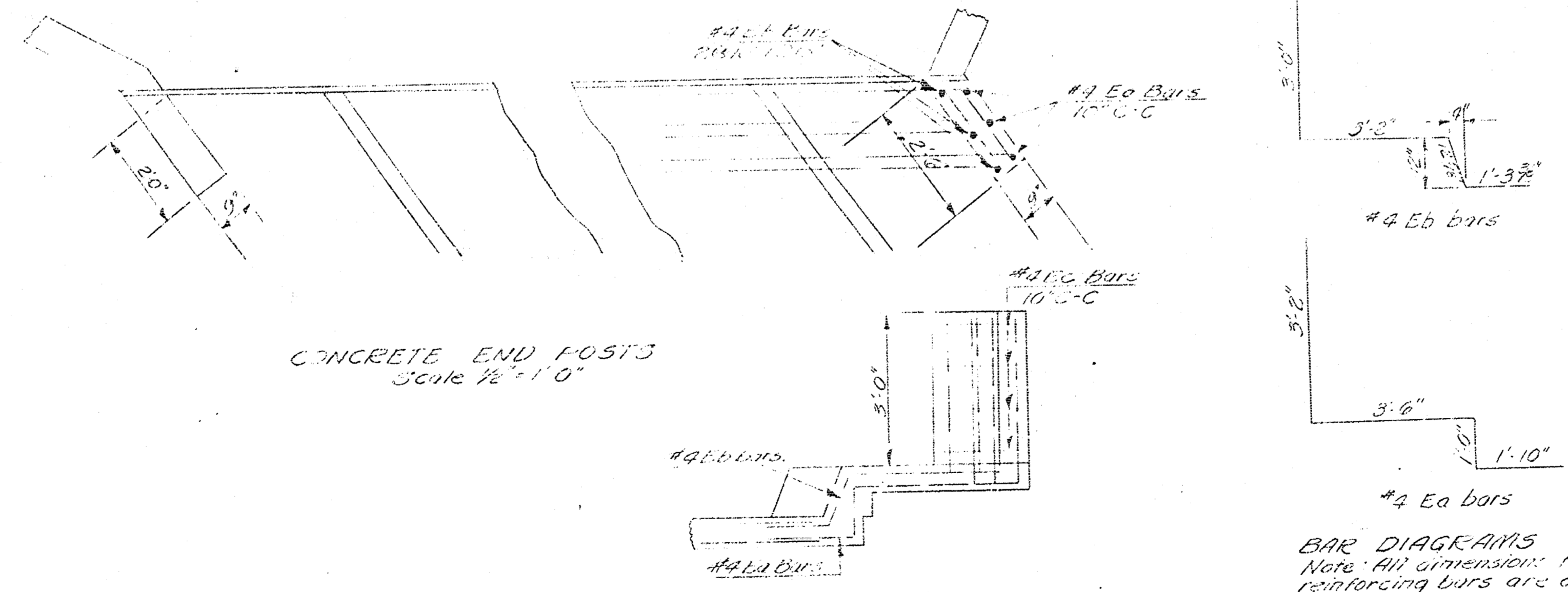


ALUMINUM POST ANCHORS
Scale 1/2" = 1'-0" (1.28 Red.)

HANDRAIL NOTES
 Light Standard Posts shall be furnished and installed in
 accordance with the following: All materials and work not
 specified as a part of this contract shall be considered as standard
 other items in this bridge contract.
 Cast Iron Drains shall be furnished and installed by the
 contractor and shall not be paid for directly, but shall be con-
 sidered as a subsidiary item to other items in the bridge
 contract.
 Concrete Expansion Joints shall furnish and install two
 1/2" thick epoxy plaques in the concrete and posts shall use
 1/2" x 1/2" x 1/2" epoxy and detail required. The plaques
 shall comply with the requirements of Section 12381, Standard
 Specifications State Highway Commission of Kansas 1985Ed.
 The plaques shall not be paid for directly, but shall be con-
 sidered as a subsidiary item to other items in the bridge
 contract.
 Aluminum Handrails: Aluminum Highway railing shall be
 Alcoa 3001 Kaiser 3331 or equivalent. Posts shall be sand-
 blasted and painted. The finishing surface between the
 uprights and posts shall be thoroughly coated with an
 aluminum impregnated coating compound or a synthetic
 rubber product shall be used. Caps between railing at the
 1/2 of every fourth post shall be allowed for expansion or
 movement of the railing. Basis of payment shall be based on
 the actual measurement of the Alcoa feet of aluminum
 handrail in place. The unit price shall be for 11 feet of aluminum
 handrail with caps, posts, anchors, railing caps and all other
 materials and work necessary for complete installation of
 the handrail.



DEAD LOAD DEFLECTION
AT QUARTER POINTS
No. Scale

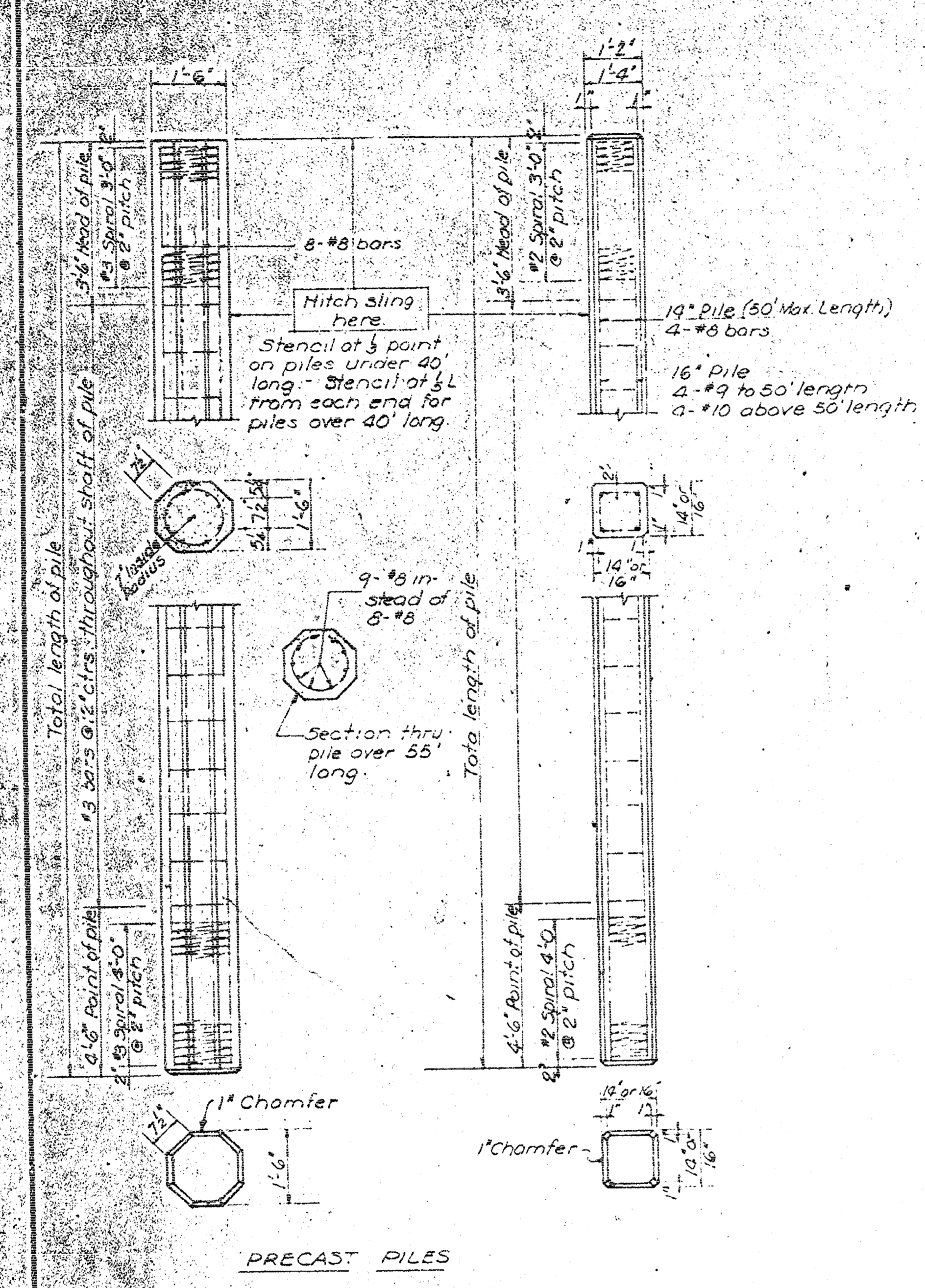


CONCRETE END POSTS
Scale 1/2" = 1'-0"

BAR DIAGRAMS
 Note: All dimensions for
 reinforcing bars are out
 to all.

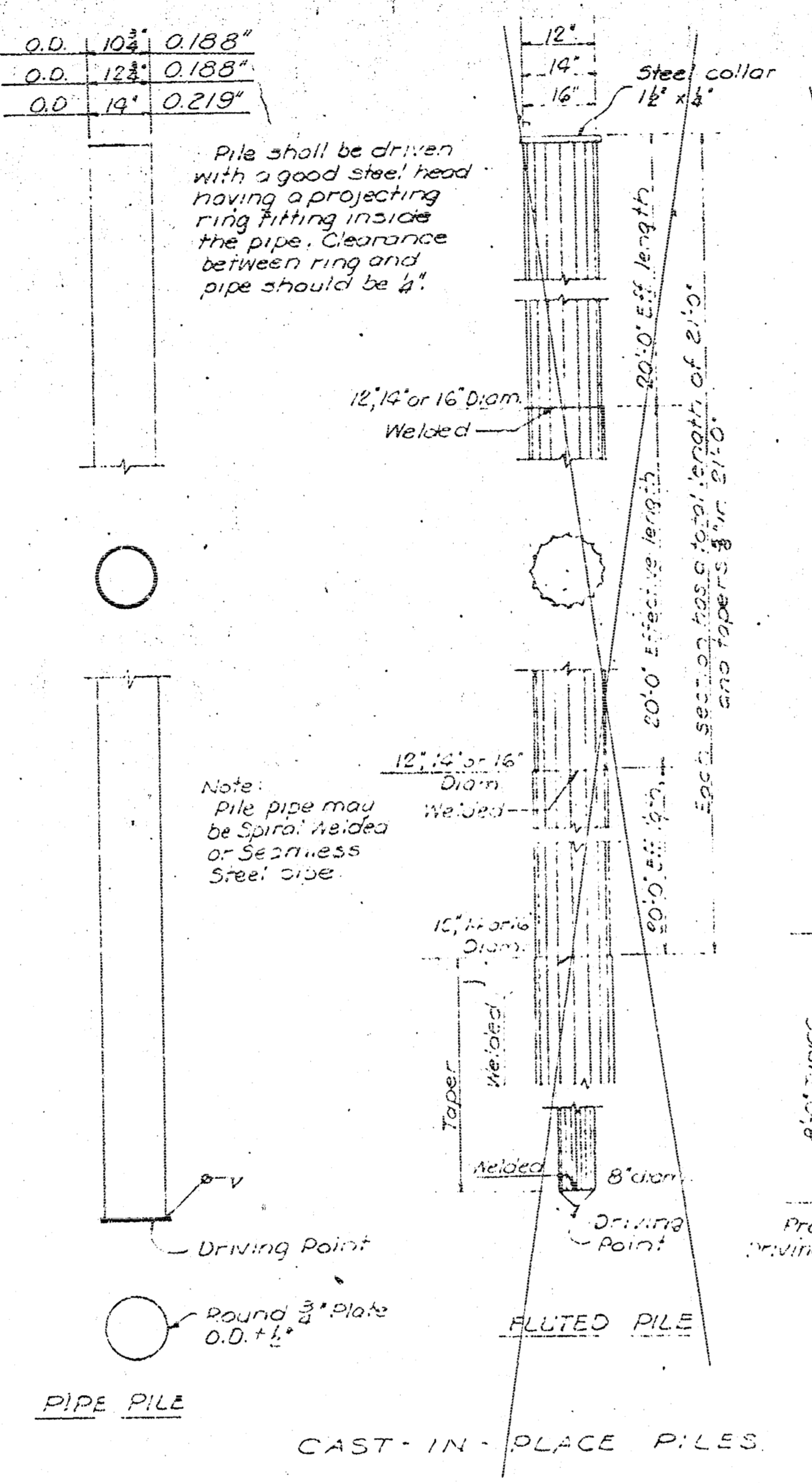
AUXILIARY DETAILS				
BRIDGE NO. 323-X-1370				
PREPARED BY SEDGWICK COUNTY ENGINEERING DEPT. RUFUS S. KIRK — COUNTY ENGINEER				
REVISED	SCALE	DESIGNED	TRACED	CHECKED
	Noted	C.J.F.	C.J.F./L.W.H.	
	DATE			
	PLANFILE		TOTAL SHEETS	SHEET NO.
				8 of 10

UR. PROJ.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	KANSAS		1958		



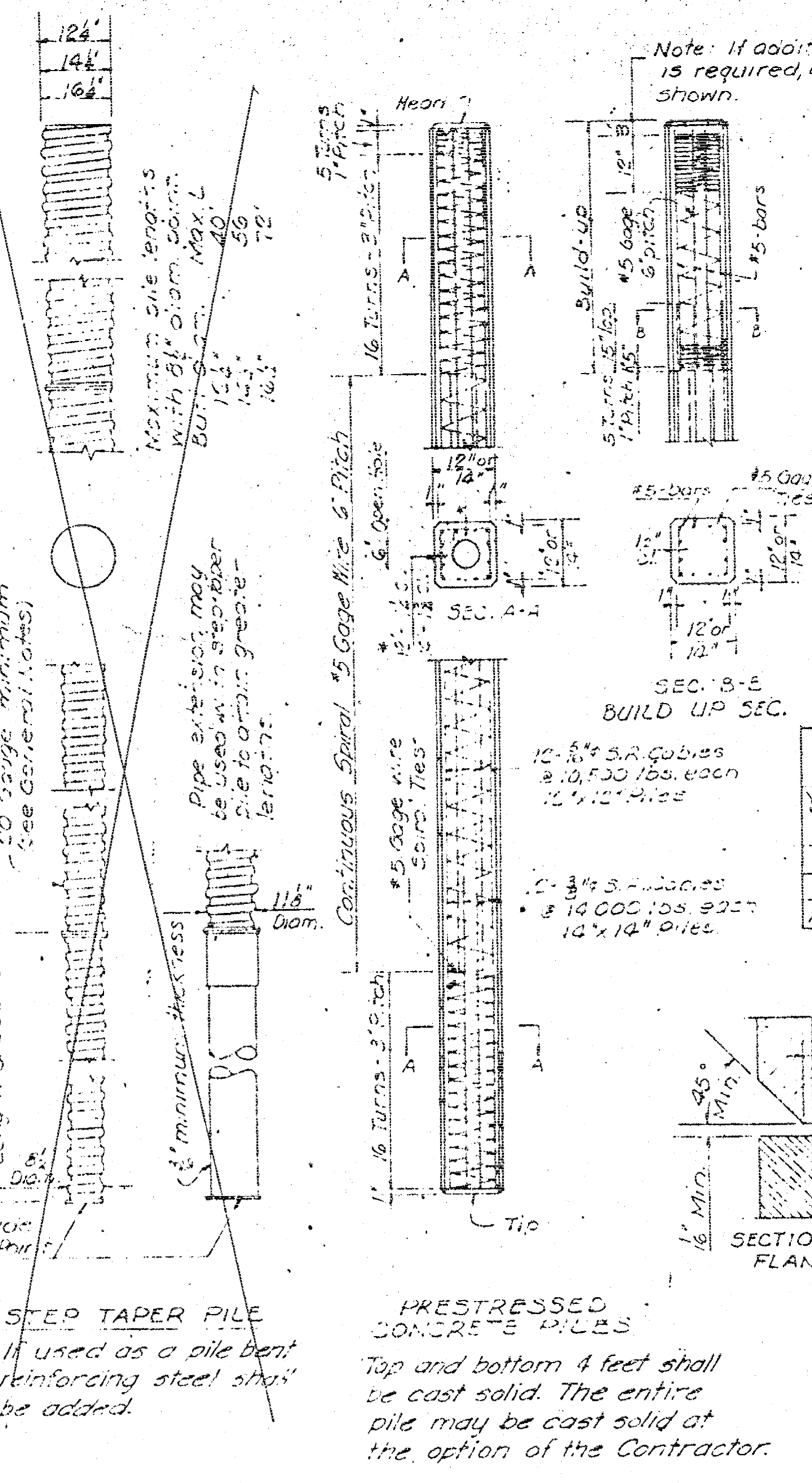
General Notes

1. Specifications Standard Specifications for State Road and Bridge Construction as currently used by State Highway Commission of Kansas.
2. Choice of Piles As indicated in the plans, piles will be considered as point bearing piles or as friction piles. Where point bearing piles are specified, the contractor may elect to use either the steel pile specified or the equivalent precast concrete, cast-in-place concrete, or prestressed concrete pile shown in the table on this sheet. Where friction piles are specified, the contractor may elect to use either the size and type concrete pile specified on the footing plans or the equivalent precast concrete, cast-in-place concrete or prestressed concrete pile shown in the table on this sheet. Steel piles are not included as an alternate where friction piles are specified. Other types of concrete piles not shown here are subject to the approval of the Engineer.
3. Concrete All concrete for precast and cast-in-place shall be Class 'A' 4000 p.s.i. Concrete for prestressed piles shall be Class 'AAA' 4000 p.s.i.
4. Reinforcement Reinforcing bars shall be new billet steel of intermediate grade without exception. Hoops and spirals may be either plain or formed bars.



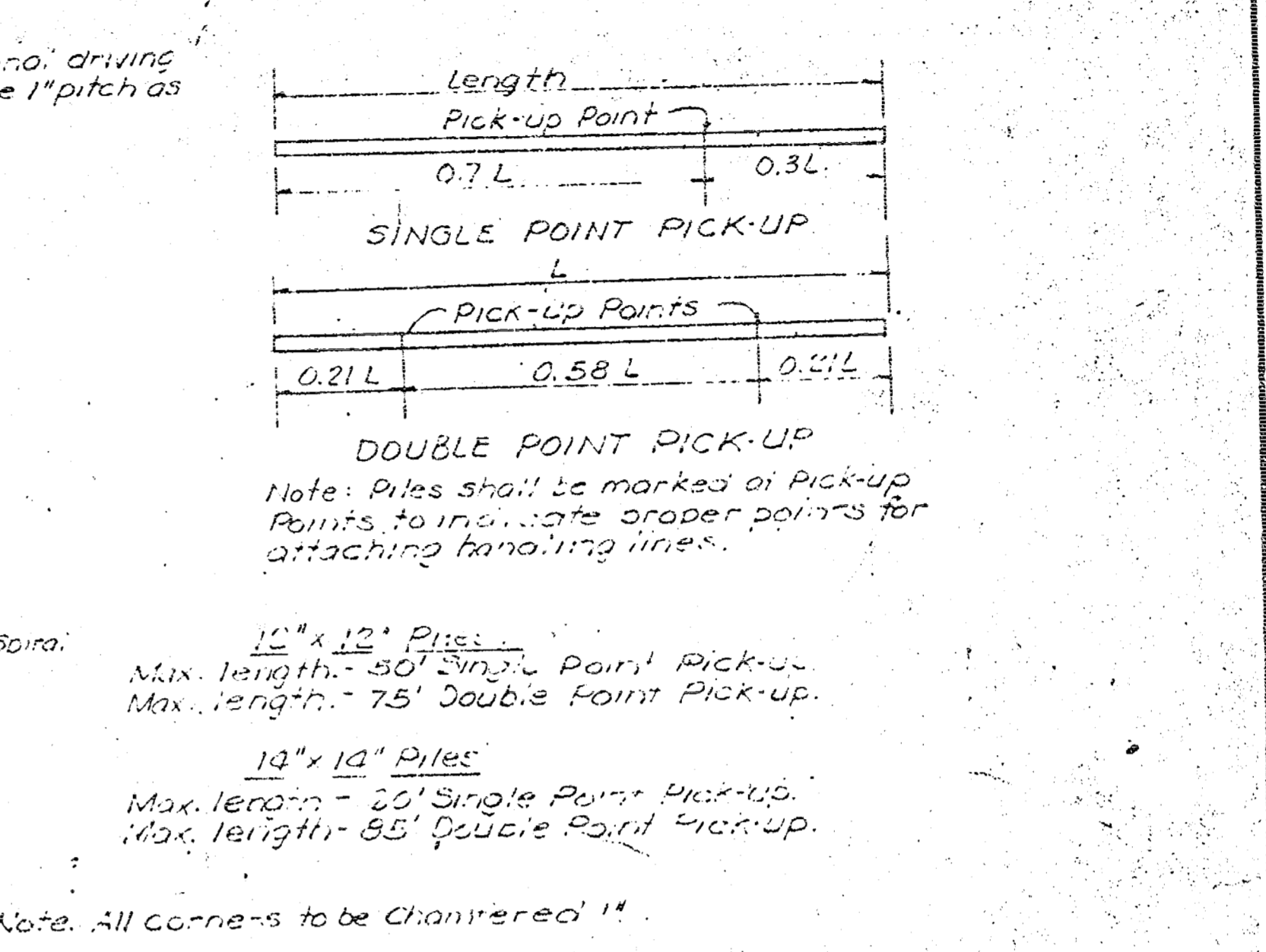
Cast-in-Place Piles

5. Precast Piles Precast piles shall conform to the requirements of Section 59.310 of the specifications.
6. Cast-in-place Piles A. Pile shells shall have a minimum thickness as follows:
 1. Piles driven without mandrel - see VIII, shell thickness above.
 2. Piles driven with mandrel - shell shall be of sufficient strength and thickness to withstand driving without injury and to resist harmful distortion and/or buckling due to axial pressure after being driven and the mandrel removed.
7. Steel Piles Shell pile material shall meet the requirements of ASTM A7-53T.
8. Pile Points All cast-in-place piles shall be equipped with a steel driving point of minimum thickness. Driving points shall be pressed steel meeting the requirements of SAE 1020 for forged steel, or cast steel meeting the requirements of ASTM Serial No. 4-27-47, Grade 2, or structural steel meeting the requirements of ASTM A7-53T. Steel piles shall have a square cut-end only. No driving point is required.
9. Welding All field welding shall meet the requirements of Section 51.34 of the specifications.
10. Point Shall comply with the Kansas Standard Specifications (1955 Edition) Clause 3 (three feet) of cast-in-place Piles below grade and point entire exposed surface with one coat red lead paint, followed by two coats of aluminum paint.



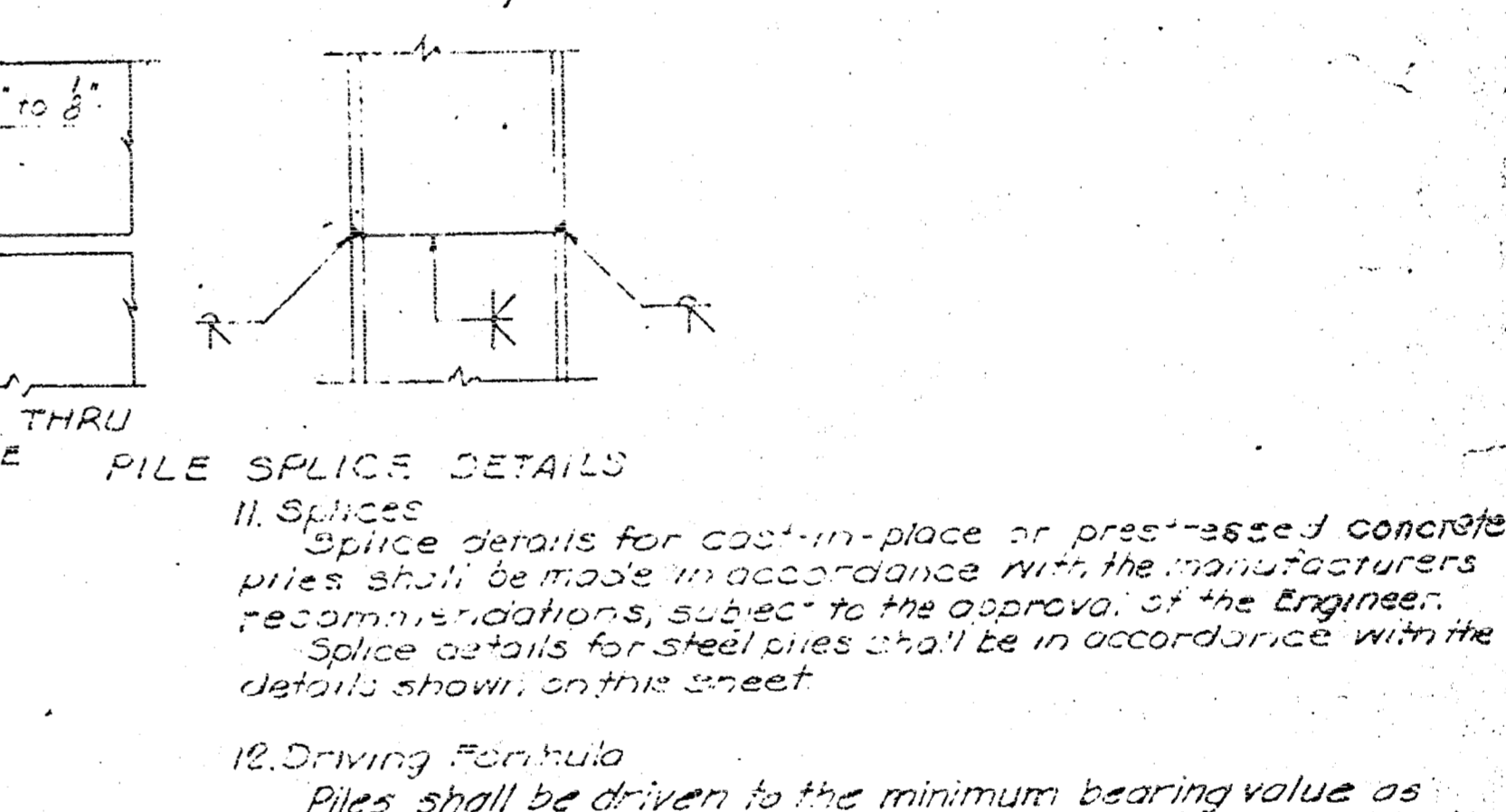
Prestressed Concrete Piles

11. Sllices Splice details for cast-in-place or prestressed concrete piles shall be made in accordance with the manufacturers recommendations, subject to the approval of the Engineer. Splice details for steel piles shall be in accordance with the details shown on this sheet.
12. Driving Formula Piles shall be driven to the minimum bearing value as specified on the Construction Layout as determined by the driving formulas stipulated in the specifications.
13. Mill Test Reports Notations mill test reports, in triplicate, shall be furnished by the contractor for all steel pile and cast-in-place pile shells.
14. Payment Payment for all piles will be made as set forth in the specifications.
15. Test Piles Test piles shall be driven where called for on the Bridge plans. All test piles shall be located so that they will become part of the bridge pile system.



STEEL PILE	EQUIVALENT CONCRETE PILES		DESIGN CAPACITY BY DRIVING FORMULA
	PIPE	CAST-IN-PLACE	
10" x 14"	14"	14"	30 Ton
12" x 16"	16"	16"	
14" x 18"	18"	18"	
16" x 20"	20"	20"	

Note: See pile lengths required on Construction Layout Sht. #4



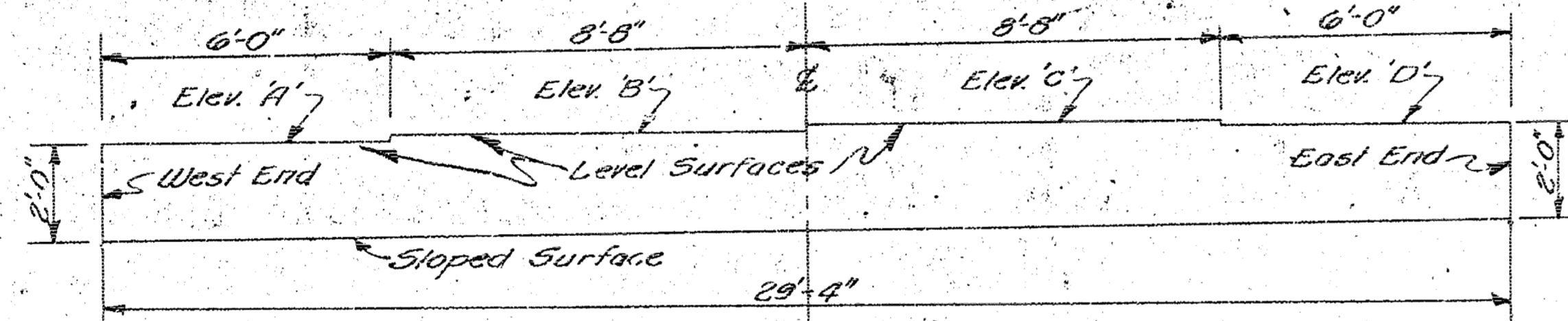
Pile Splice Details

11. Sllices Splice details for cast-in-place or prestressed concrete piles shall be made in accordance with the manufacturers recommendations, subject to the approval of the Engineer. Splice details for steel piles shall be in accordance with the details shown on this sheet.
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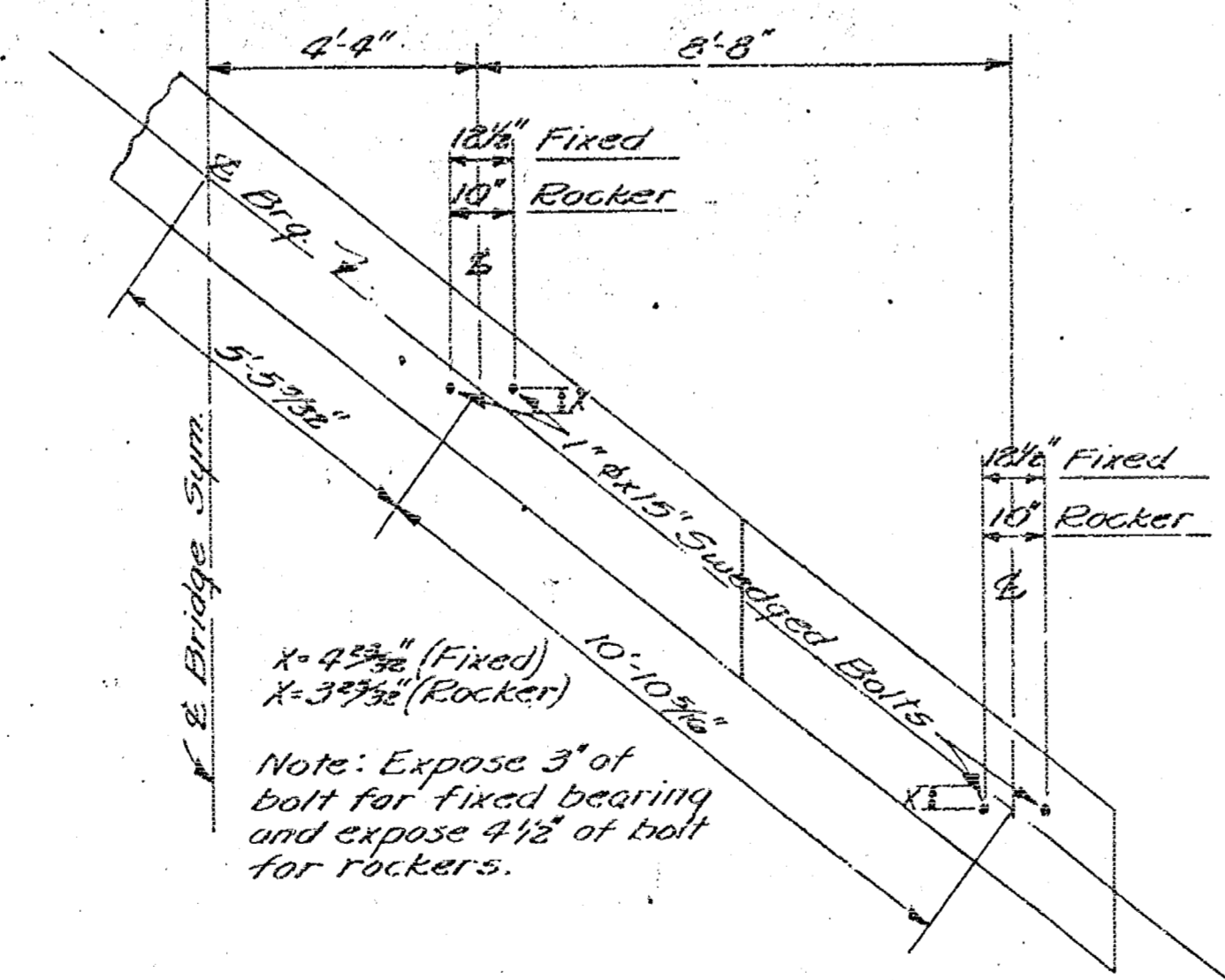
ABUTMENT & PIER ELEVATIONS

ABUTMENT Or PIER No.	WEST ELEV. H'	ELEV. B'	ELEV. C'	EAST ELEV. D'
Abut. #1 R	1264.63	1264.76	1264.67	1264.41
Pier #1 R	1265.06	1265.14	1265.06	1264.81
Pier #2 R	1265.57	1265.60	1265.59	1265.36
Pier #3 F	1266.57	1266.68	1266.62	1266.40
Pier #4 F	1266.91	1267.02	1266.98	1266.76
Pier #5 F	1267.20	1267.32	1267.28	1267.08
Pier #6 R	1266.87	1267.00	1266.96	1266.76
Pier #7 R	1267.09	1267.22	1267.19	1267.00
Pier #8 R	1267.28	1267.41	1267.39	1267.20
Pier #9 R	1267.42	1267.55	1267.54	1267.36
Pier #10 R	1267.53	1267.68	1267.66	1267.48
Pier #11 R	1267.59	1267.75	1267.74	1267.57
Pier #12 F	1268.21	1268.37	1268.36	1268.20
Pier #13 F	1268.20	1268.36	1268.37	1268.21
Pier #14 R	1267.57	1267.74	1267.75	1267.59
Pier #15 R	1267.48	1267.66	1267.68	1267.53
Pier #16 R	1267.36	1267.54	1267.56	1267.42
Pier #17 R	1267.20	1267.39	1267.41	1267.28
Pier #18 R	1267.00	1267.19	1267.22	1267.09
Pier #19 R	1266.76	1266.96	1267.00	1266.87
Pier #20 F	1267.05	1267.28	1267.32	1267.20
Pier #21 F	1266.76	1266.98	1267.02	1266.91
Pier #22 F	1266.90	1266.62	1266.63	1266.57
Pier #23 R	1265.36	1265.59	1265.66	1265.57
Pier #24 R	1264.81	1265.06	1265.14	1265.06
Abut. #2 R	1264.41	1264.67	1264.76	1264.69

R= Rockers F= Fixed



TYPICAL CAP ELEVATION (Normal to Roadway)



PART PLAN OF PILE CAPS Scale 3/8" = 1'-0"

