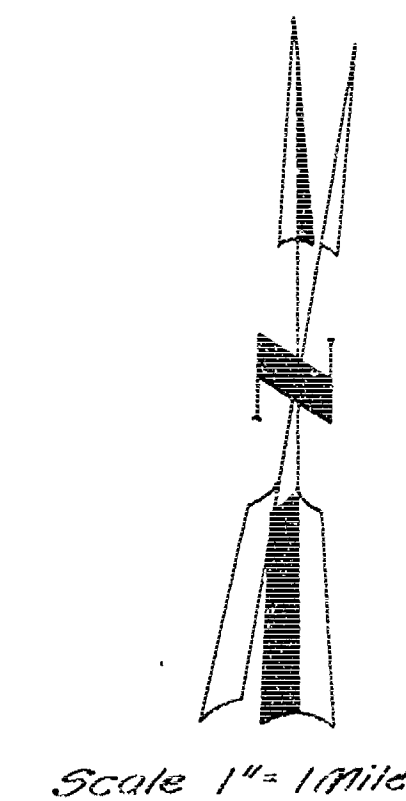




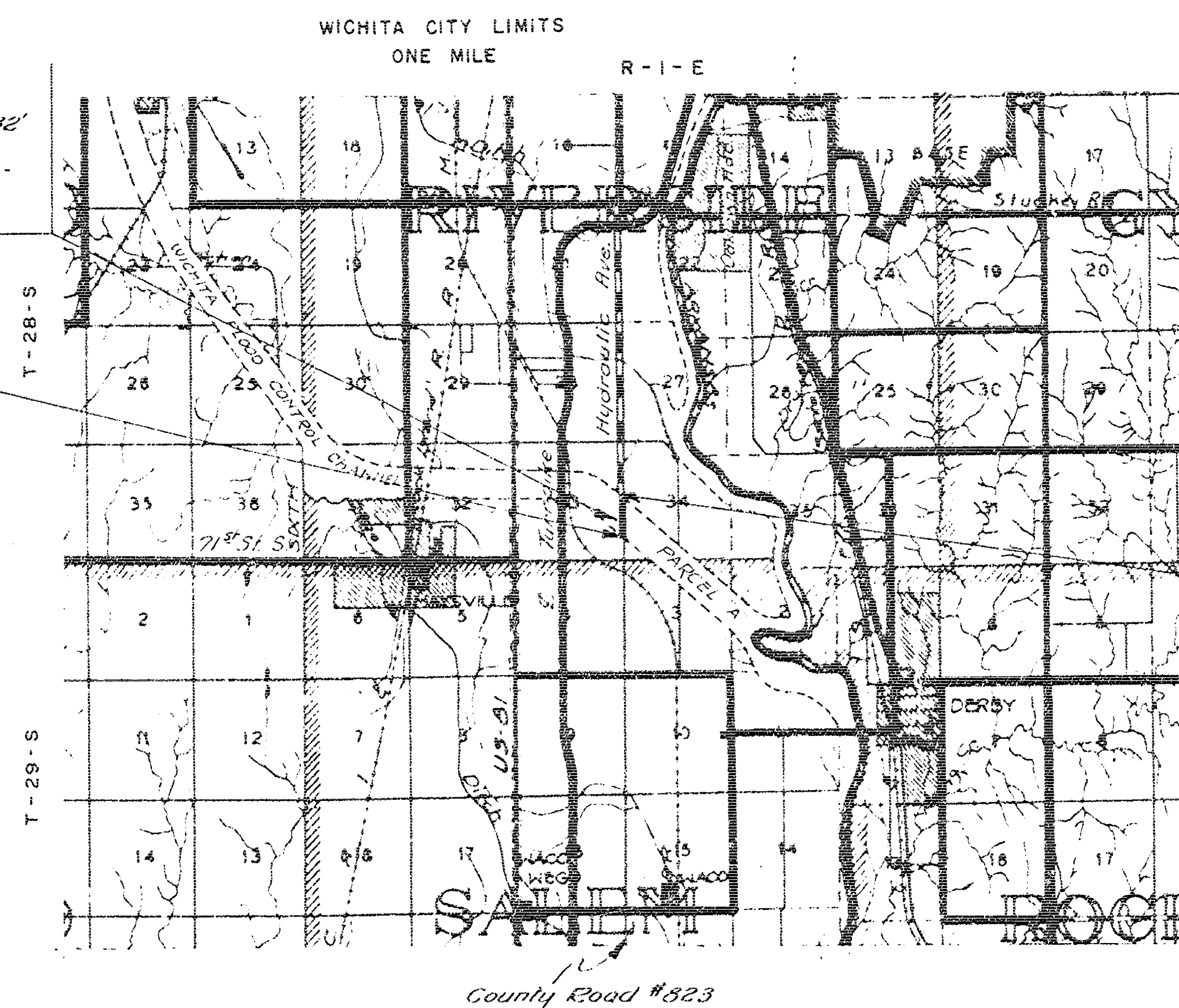
BRIDGE ONLY



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	

Sta. 18169.64 Construct 32'-23@25'-32'
Continuous Steel Beam Spans on
Pile Bent Piers. Open Type Abut-
ments - 28' Roadway Aluminum
Handrail

Sta. 13118.41 Begin Project
No. 823-X-1870



Sta. 24120.81 End Project
No. 823-X-1870

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
<i>[Signature]</i>
BOARD OF COUNTY COMMISSIONERS
DATE Aug. 3 - 1958

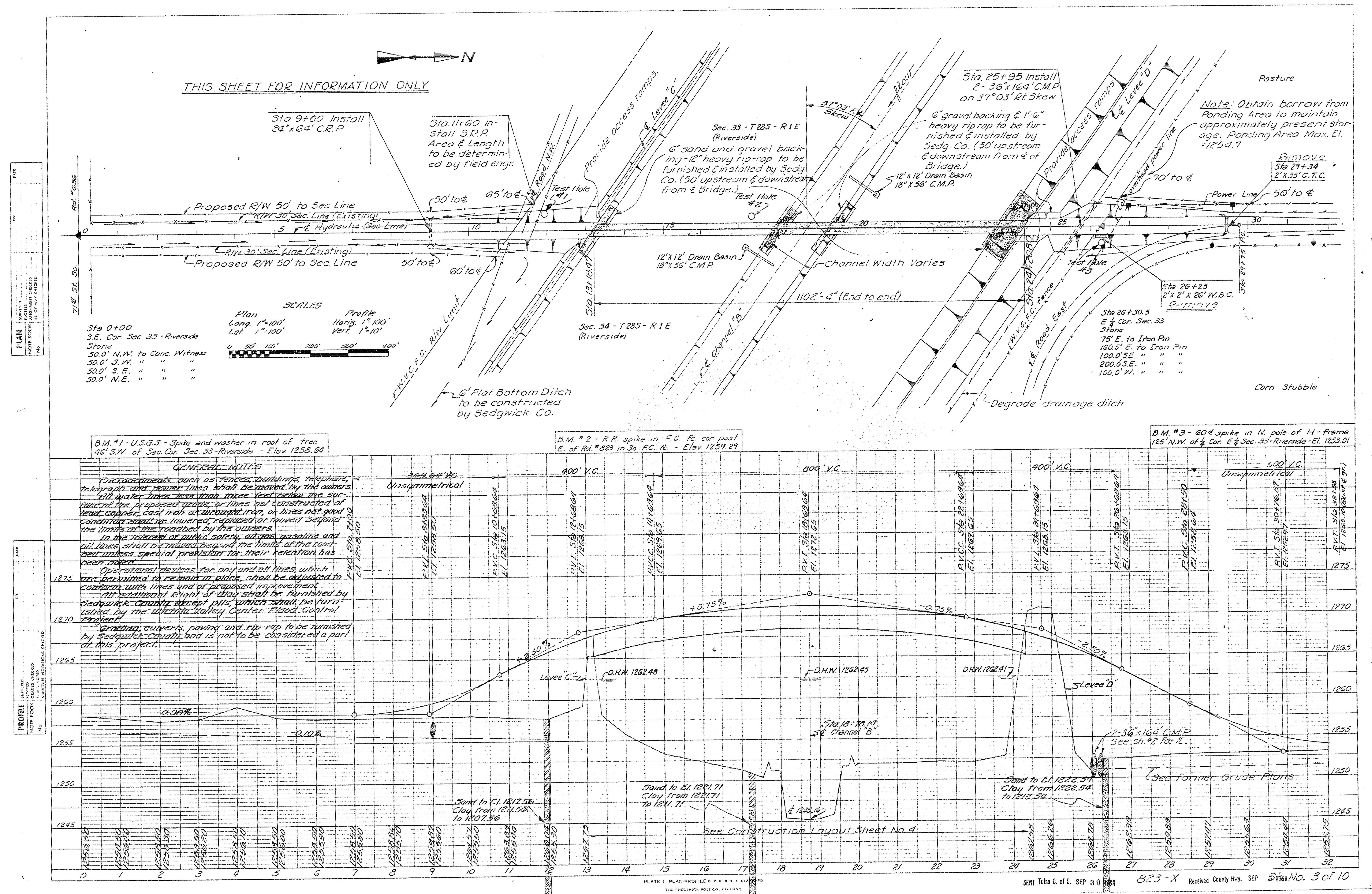
PLANS PREPARED BY
SEDGWICK COUNTY ENGR'G. DEPT.
WICHITA, KANSAS
DATE 7/58

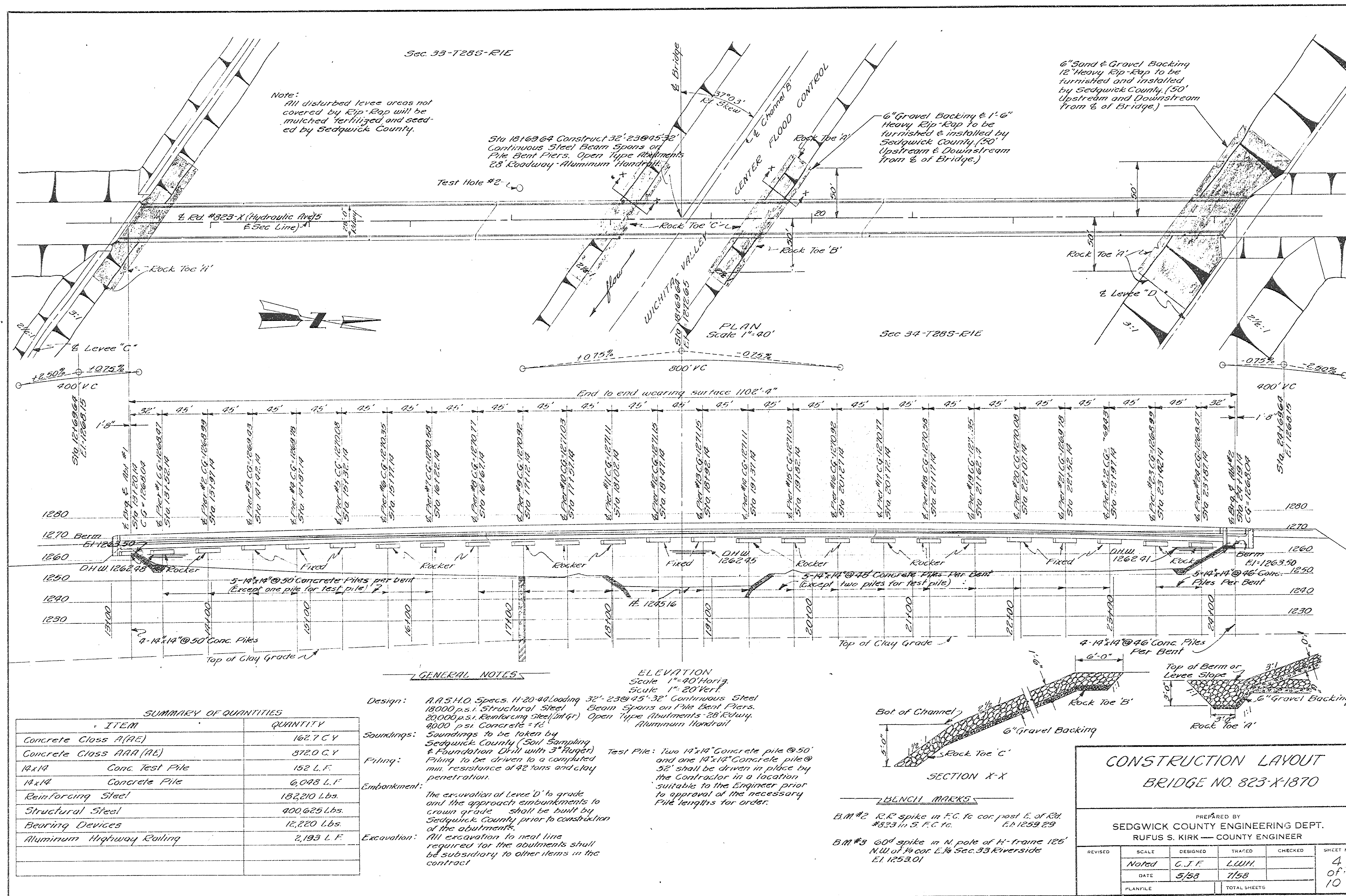
APPROVED
CORPS OF ENGINEERS
DATE Aug. 27 - 1958

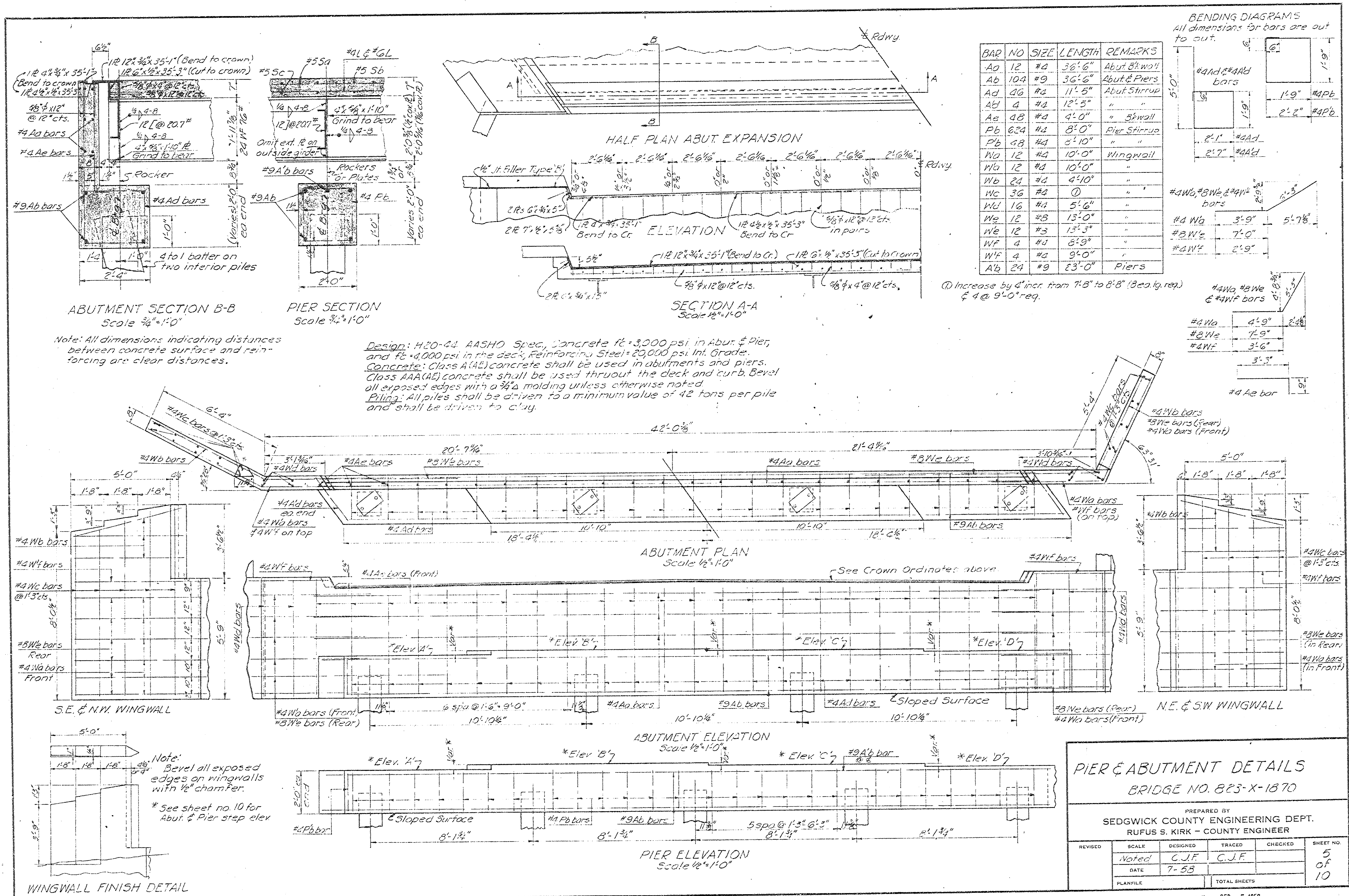
FILED IN COUNTY CLERK'S OFFICE
<i>[Signature]</i>
COUNTY CLERK
DATE Sept. 3 - 1958

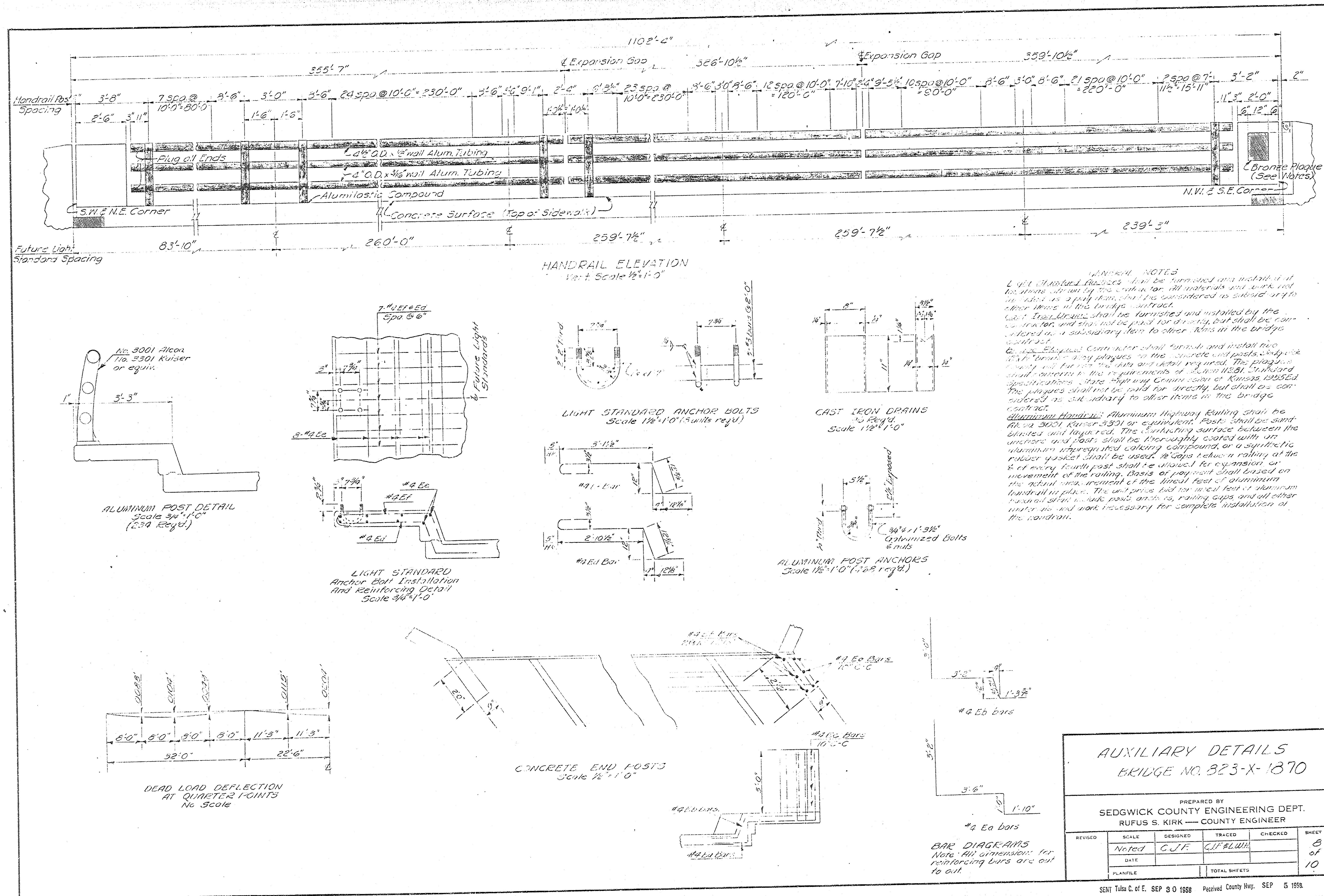
APPROVED
<i>[Signature]</i>
COUNTY ENGINEER
DATE Sept. 2 - 1958

APPROVED
KANSAS STATE HIGHWAY COMMISSION
DATE Aug. 13 - 1958

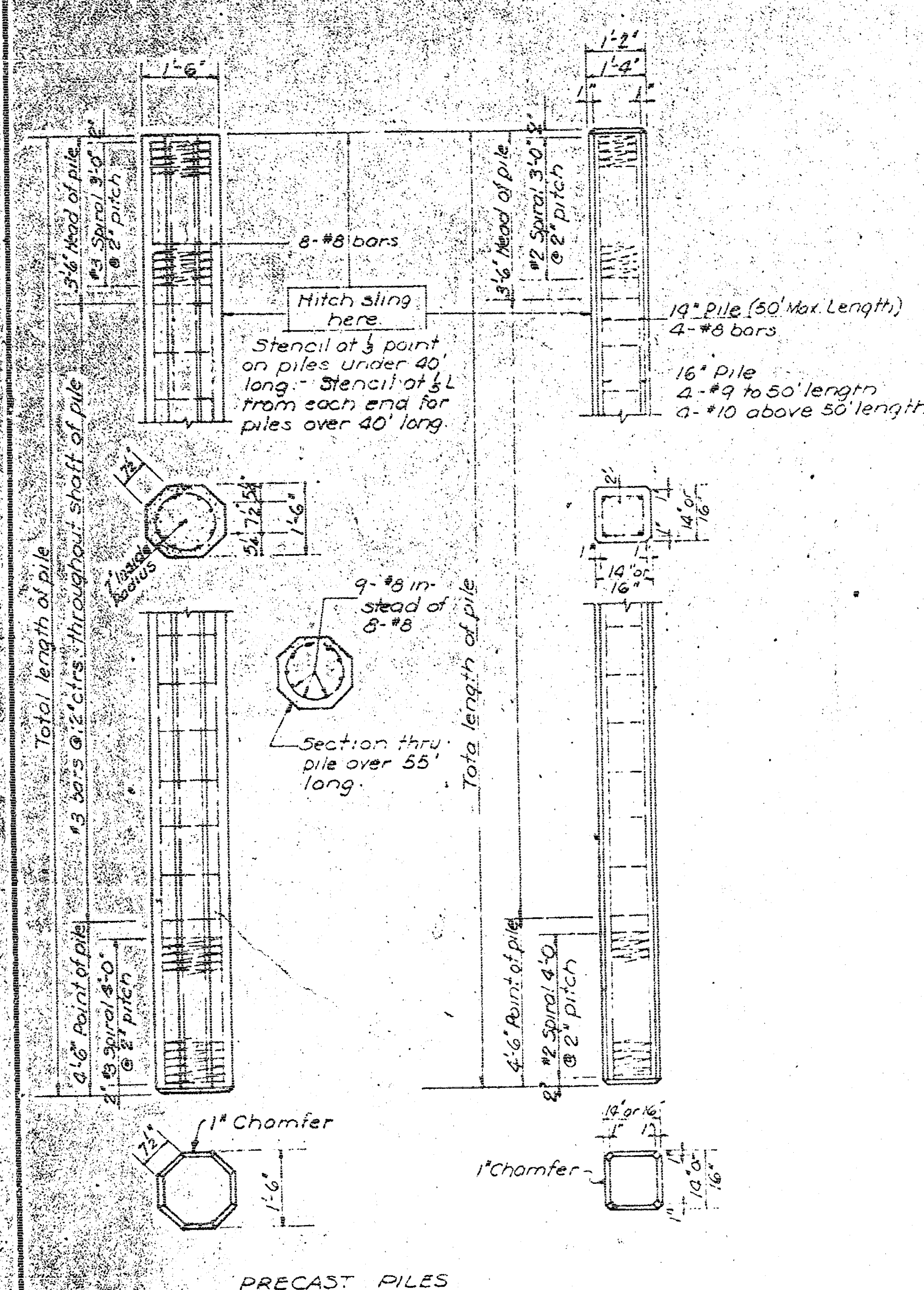






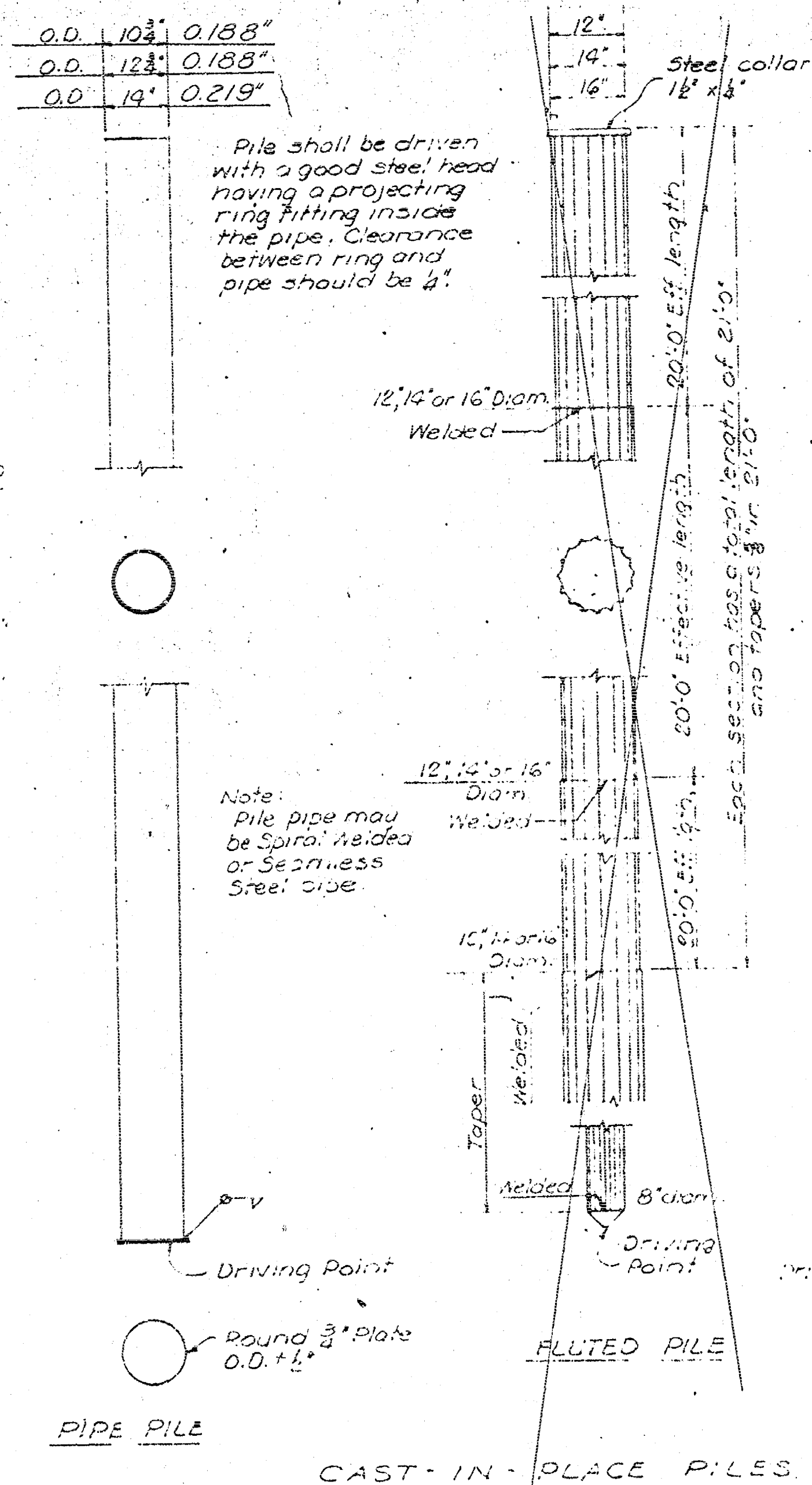


PUR. ROAD	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	KANSAS		1958		

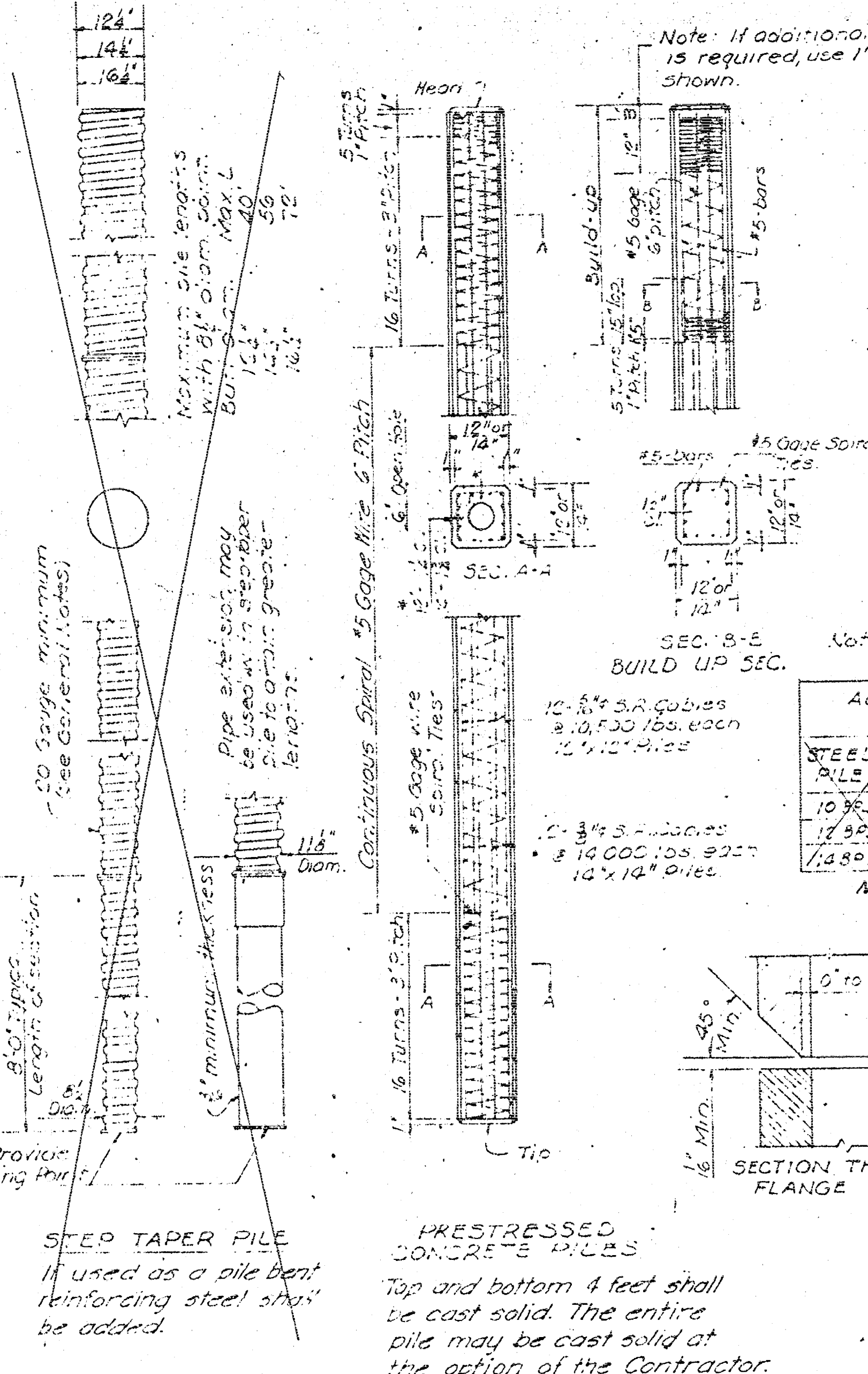


General Notes

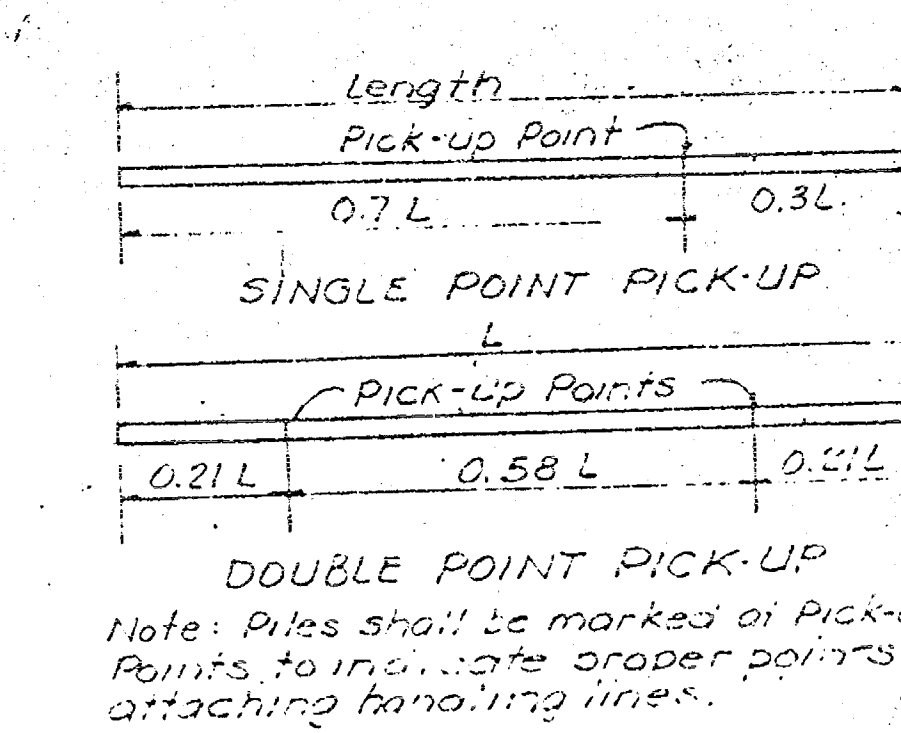
1. Specifications
Standard Specifications for State Road and Bridge Construction as currently used by State Highway Commission of Kansas.
2. Choice of Piles
As indicated in the plans, piles will be considered as point bearing piles or as friction piles. Where point bearing piles are specified, the contractor may elect to use either the steel pile specified on the drawing plans 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 drawing 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 "A" 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 deformed bars.



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 soil pressure after being driven and the mandrel removed.
B. Pile shells shall meet the following material requirements:
1. Fluted steel shells and steel collar - SAE 1020 classification for cast bearing steel.
2. Spiral welded steel - A.S.T.M. Designation A252, Grade B Steel, Fusion-Welded Spiral Seam Steel Pipe.
3. Seamless steel pipe - A.S.T.M. A252, welded and seamless steel pipe.
4. Corrugated steel shell - SAE 1020.
C. The contractor shall maintain on the job at all times prior to and during the filling of the shell, a light suitable for their inspection.



- D. Improperly driven, broken or otherwise defective shells shall be removed and replaced or otherwise corrected to the satisfaction of the Engineer by removal and replacement, or the driving of an additional pile at no extra cost.
7. Steel Piles
Steel pile material shall meet the requirements of A.S.T.M. 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 mill welded to the shell. Driving points shall be either hot pressed steel meeting the requirements of SAE 1020 for forged steel, or cast steel meeting the requirements of A.S.T.M. Serial No. A7-44, Grade 2, or structural steel meeting the requirements of A.S.T.M. 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. Paint
Shall comply with the Kansas Standard Specifications (1955 Edition) expose 3" (three feet) of cast in place piles below grade and paint entire exposed surface with one coat red lead paint, followed by two coats of aluminum paint.



ALTERNATE POINT BEARING PILES					DESIGN CAPACITY BY
MINIMUM BUILT					DRIVING FORMULA
STEEL PILE	EQUIVALENT PRECAST PILE	PIPE	FLUTED	STEEL PIPE	PILE
10" x 14"	14"	10"	10"	10"	30 Ton
12" x 16"	16"	12"	12"	12"	
14" x 18"	18"	14"	14"	14"	
16" x 20"	20"	16"	16"	16"	
18" x 22"	22"	18"	18"	18"	
20" x 24"	24"	20"	20"	20"	

Note: See pile lengths required on Construction Layout Sheet #4

PILE SPLICE DETAILS

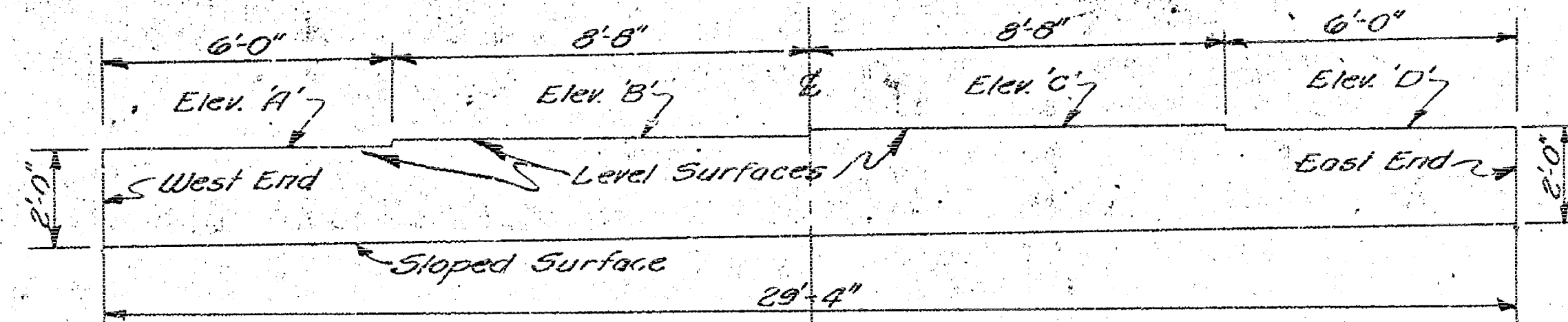
11. Splices
Splice details for cast-in-place or precast concrete piles shall be made in accordance with the manufacturers recommendations, subject to the approval of the Engineer. Splice details for steel piles shall be in accordance with the details shown on this sheet.
12. Driving Formula
Piles shall 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
Normalized 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.

STATE HIGHWAY COMMISSION OF KANSAS
STANDARD PILE DETAILS
BRIDGE NO. 823-X-1870

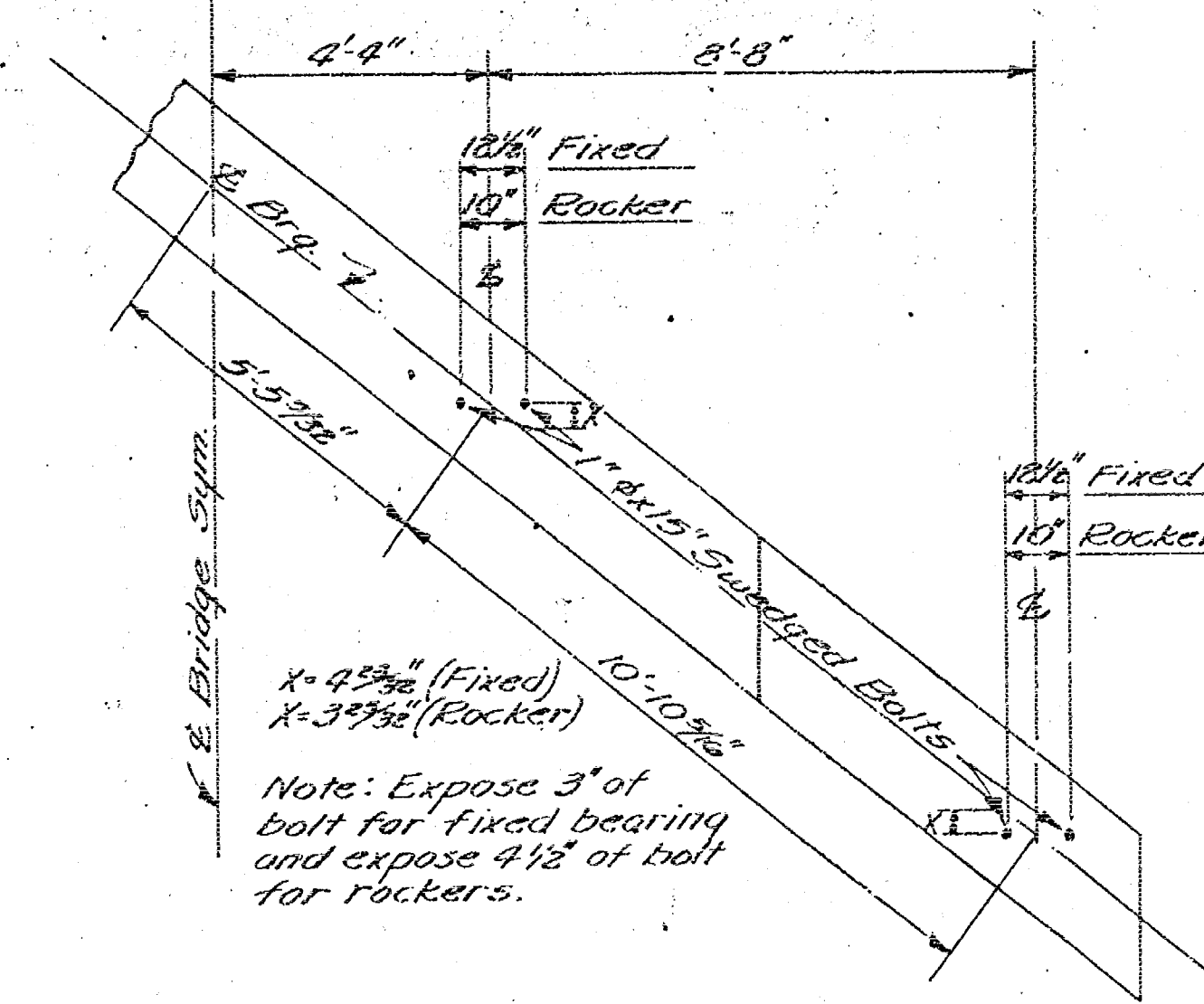
SHEET NO.	OF	SCALE	APPROVED
DESIGNED	DETAILS	QUANTITIES	TRACED
DRAWN BY	DETAILS	QUANTITIES	TRACED

ABUTMENT & PIER ELEVATIONS

ABUTMENT Or PIER No.	WEST ELEV. A'	ELEV. B'	ELEV. C'	EAST ELEV. D'
Abut. #1 R	1264.69	1264.76	1264.67	1264.41
Pier #1 R	1265.06	1265.14	1265.06	1264.81
Pier #2 R	1265.57	1265.64	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	1268.29	1268.36	1268.37	1268.21
Pier #14 R	1267.57	1267.74	1267.75	1267.59
Pier #15 R	1267.98	1267.84	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	1265.64	1265.57
Pier #24 R	1264.81	1265.06	1265.14	1265.06
Abut. #2 R	1264.81	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"

