

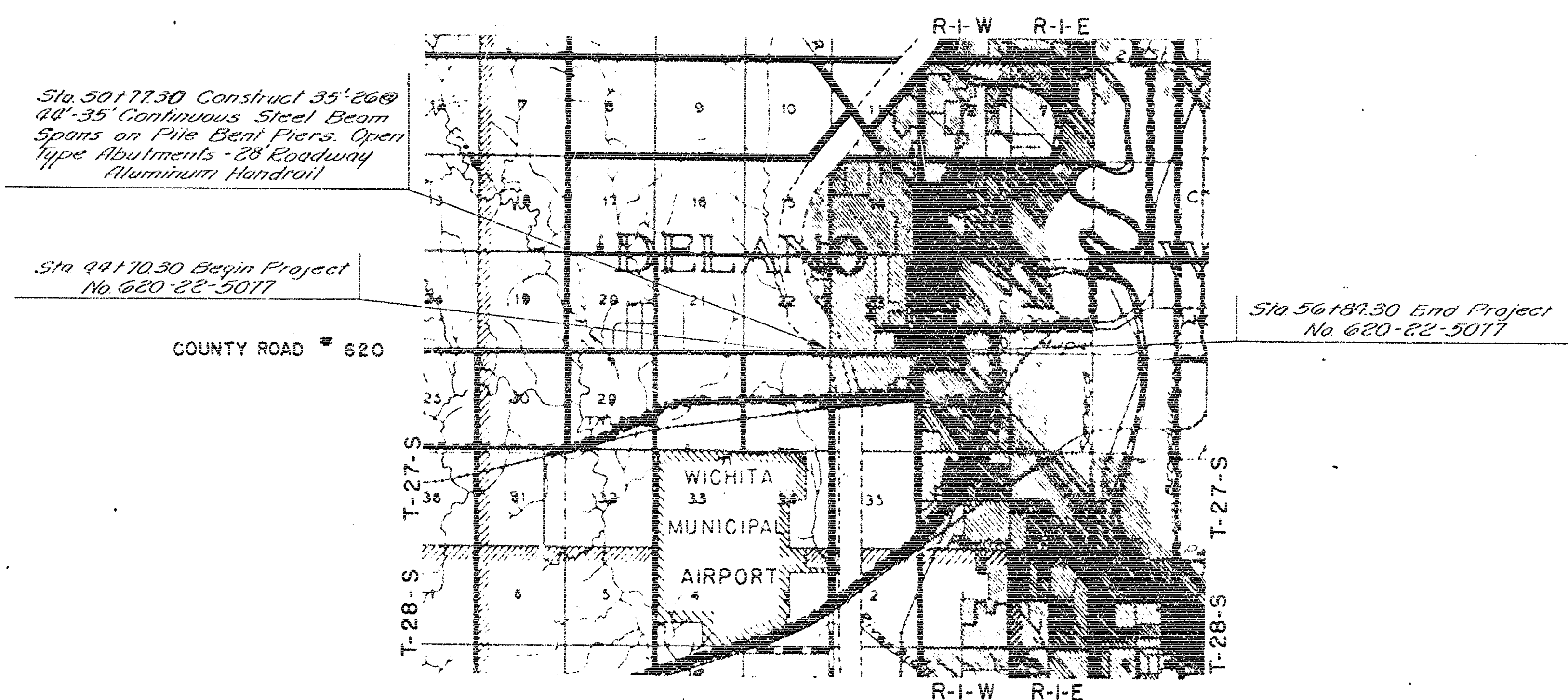
INDEX OF SHEETS	
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Sheet #5	Steel Details
Sheet #6	Deck Details
Sheet #7	Retaining Details
Sheet #8	Pile Details
Sheet #9	Bar Supports & Spacers
Sheet #10	



BRIDGE ONLY



SCALE 1" = 1 MILE



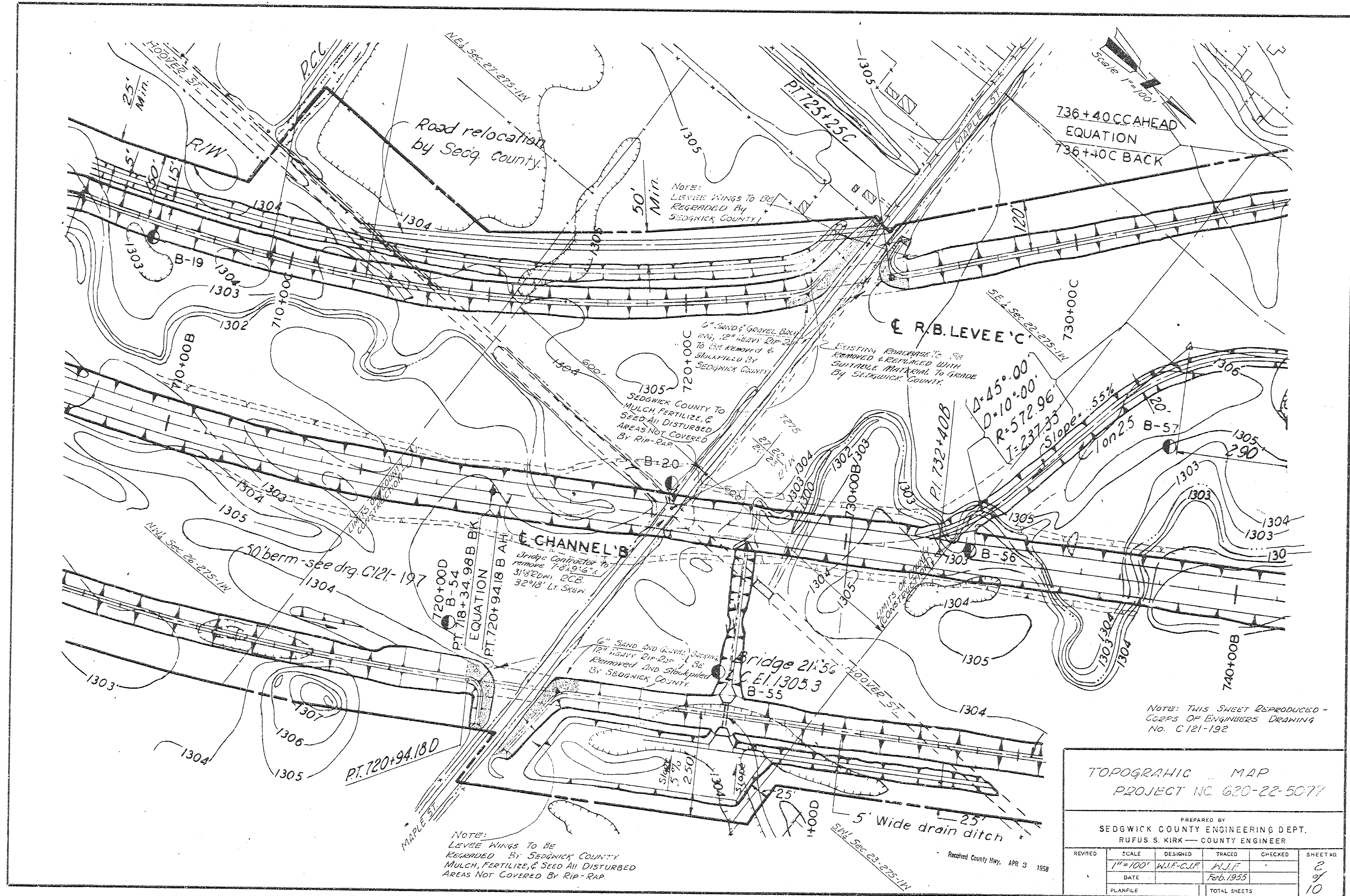
CONVENTIONAL SIGNS	
COUNTY LINE	-----
SECTION LINE	-----
WIRE FENCE	-----
HEDGE ROW	-----
RAILROADS	-----
SURVEY LINE	-----
RIGHT OF WAY	-----
TELEPHONE POLE	-----
POWER POLE	-----
TRAVELED WAY	-----

TRAFFIC COUNT 3,750 V.P.D. (1955)

NET LENGTH OF PROJECT	1216.75	FT	0.230	MILES
NET LENGTH OF BRIDGES	1216.75	FT	0.230	MILES
NET LENGTH OF ROAD	None	FT	None	MILES
EXCEPTIONS	"	FT	"	MILES
ADDITIONS	"	FT	"	MILES
GROSS LENGTH OF PROJECT	1216.75	FT	0.230	MILES

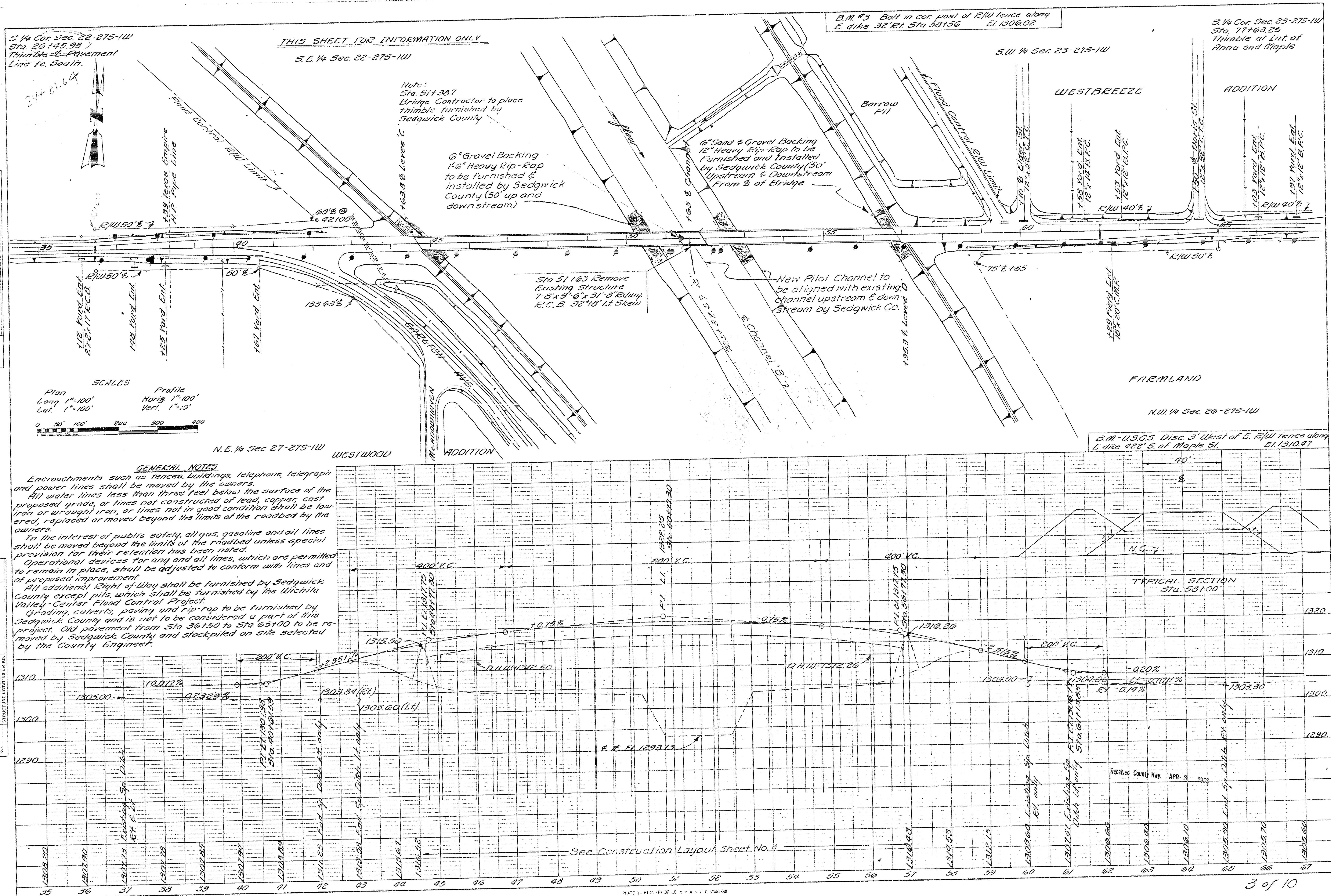
PLANS PREPARED BY	
SEDGWICK COUNTY ENGR DEP	
DATE	
APPROVED	DATE

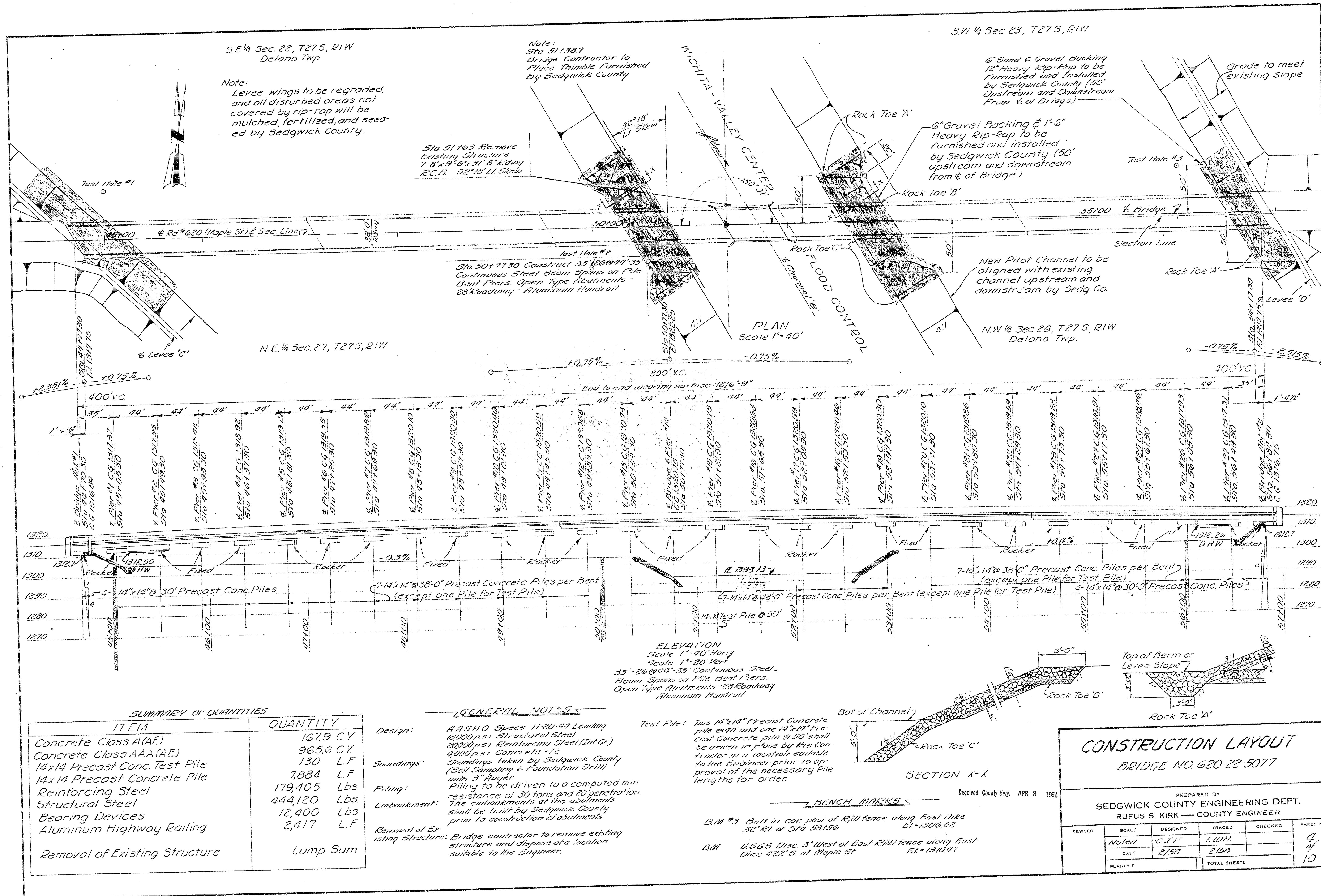
APPROVED	
<i>Rafael Kik</i>	
COUNTY ENGINEER	
DATE 3-4-1958	
APPROVED	DATE
Received County Hwy. APR 9 1958	

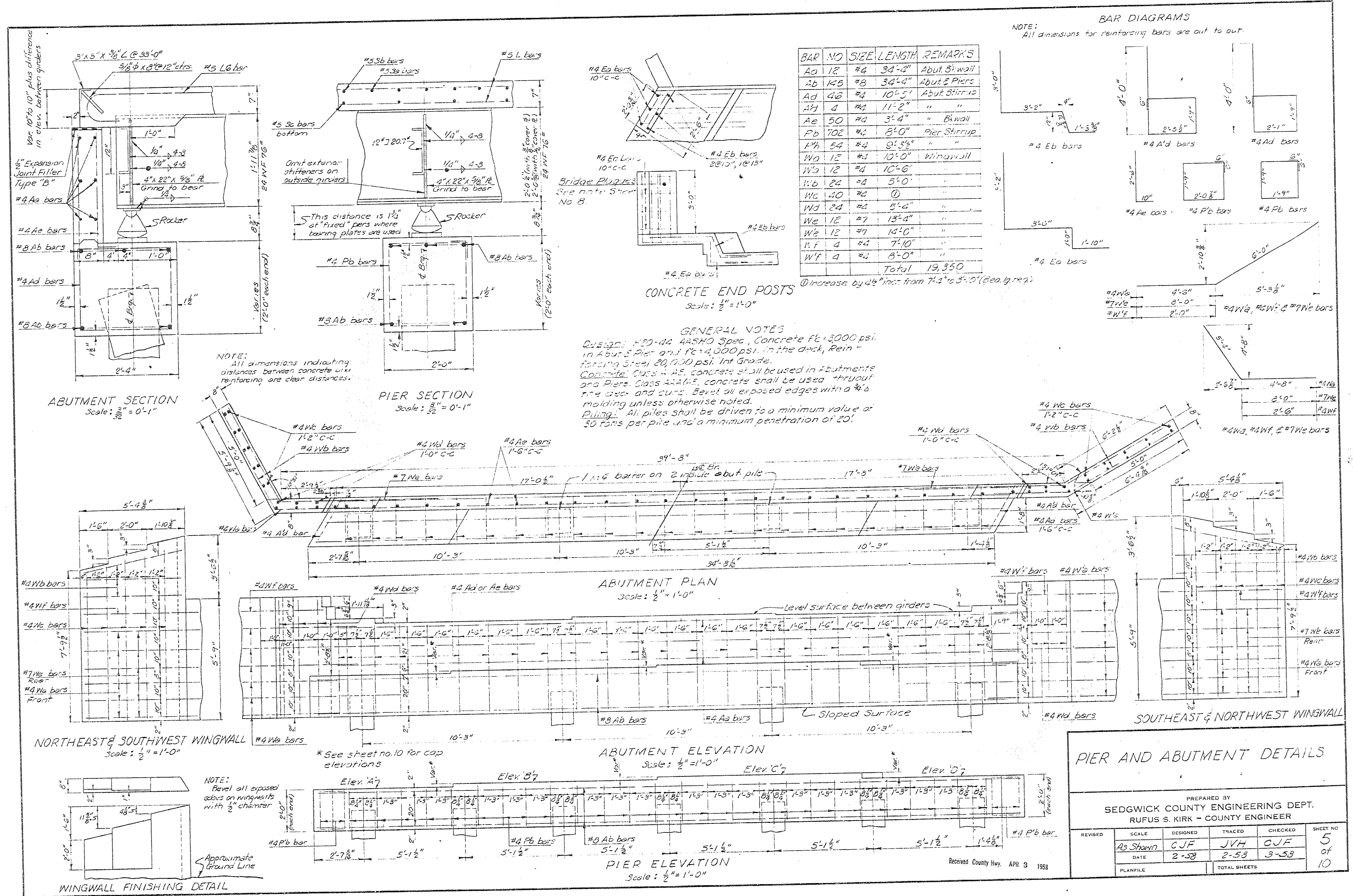


PLAN	DATE	BY	CHKD
2/29	2/29	L. W. Henderson	2/29
NOTE: BOOK NO. OF PLAN CHECKED			

PROFILE	DATE	BY	CHKD
2/29	2/29	L. W. Henderson	2/29
NOTE: BOOK NO. OF PLAN CHECKED			





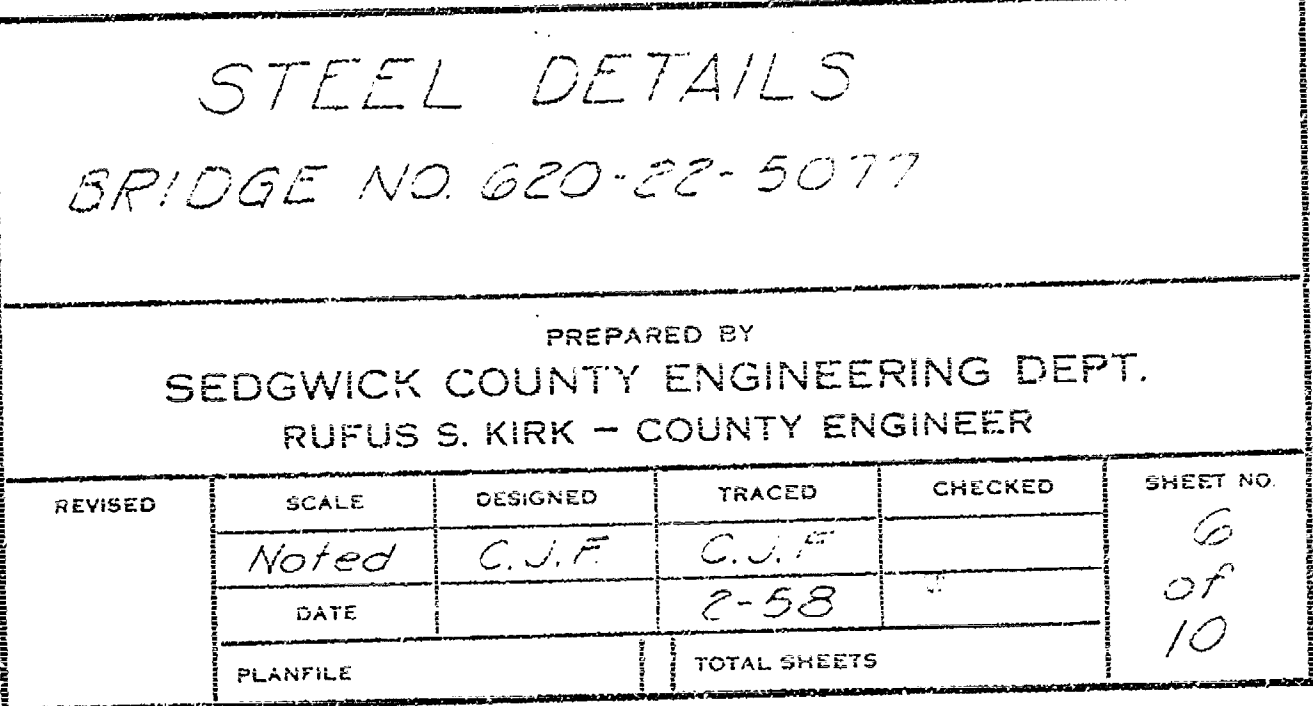


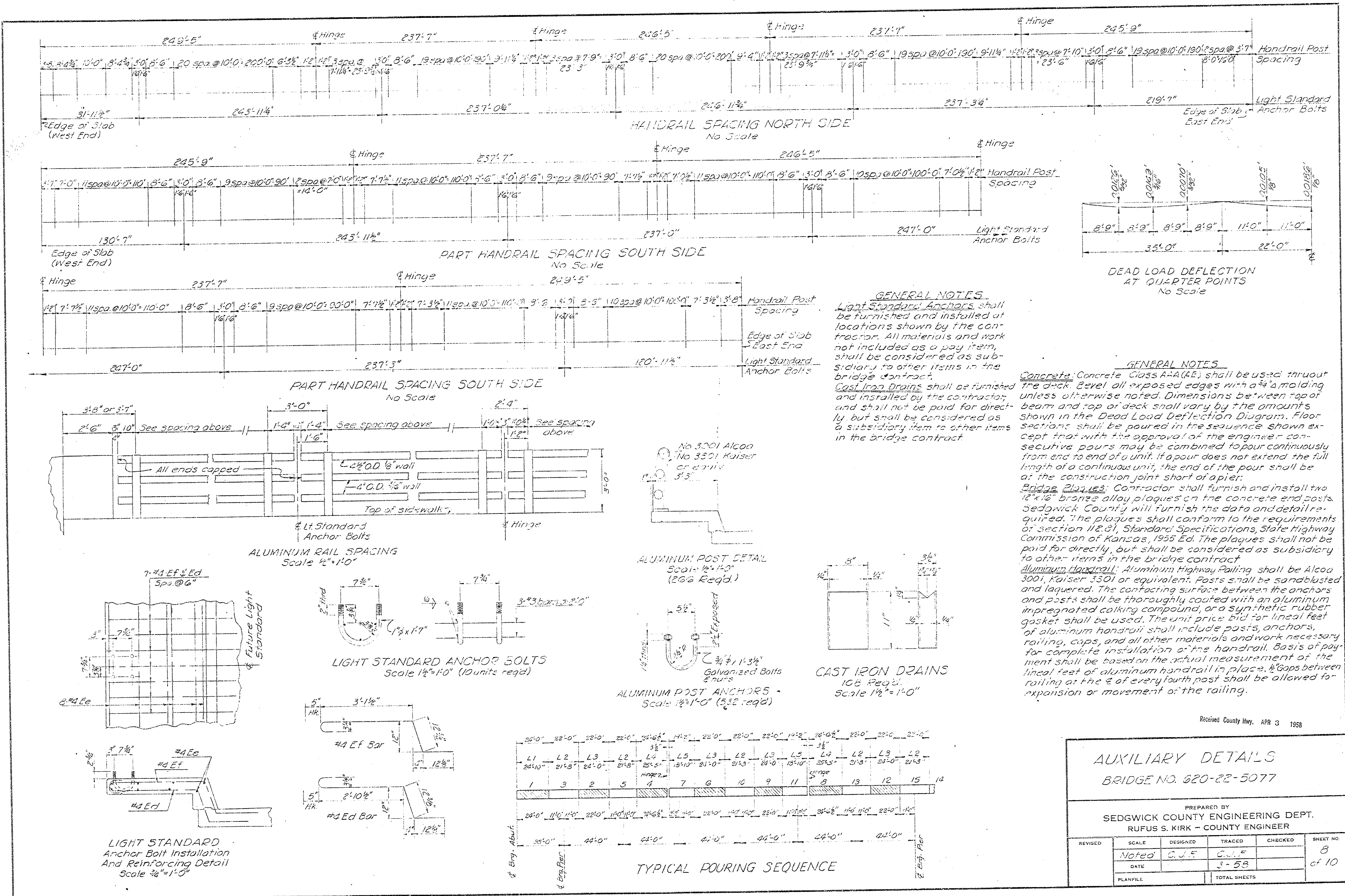
PIER AND ABUTMENT DETAILS

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

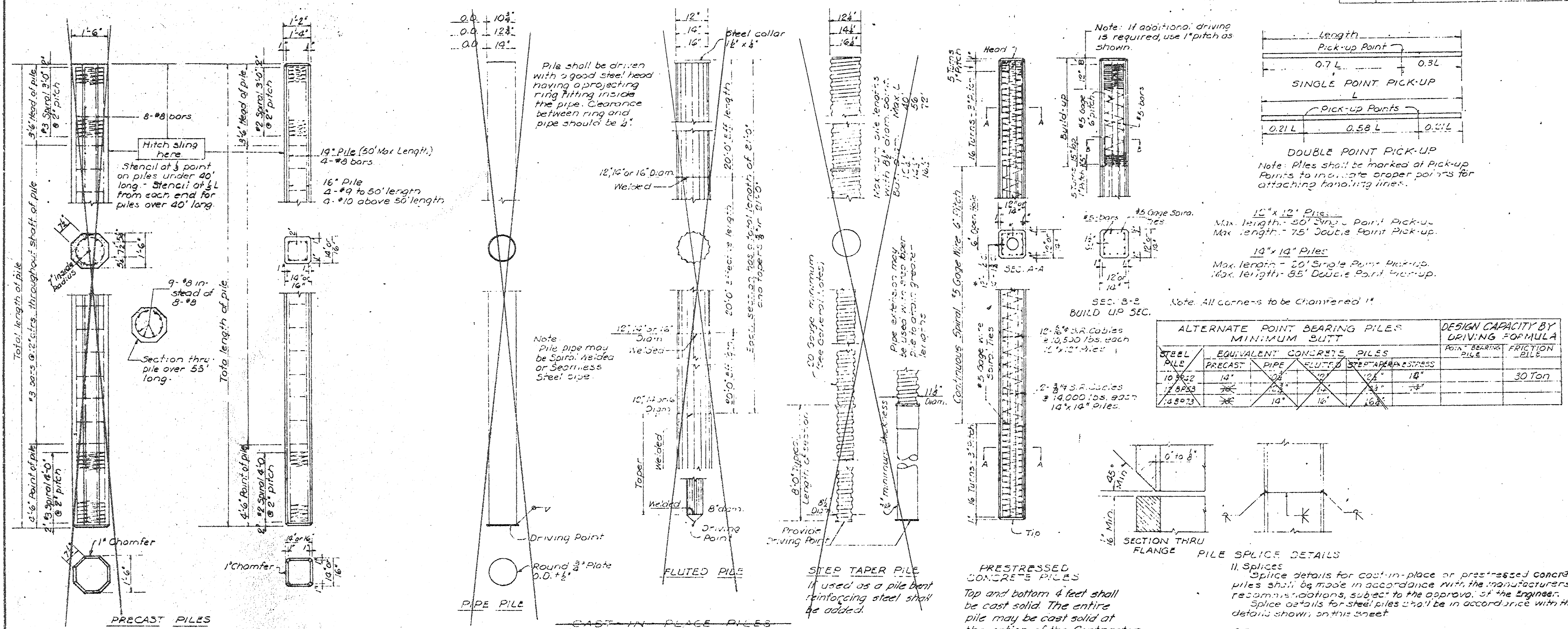
REVISED	SCALE	DESIGNED	TRACED	CHECKED
	<i>As Shown</i>	<i>CJF</i>	<i>JVH</i>	<i>CJF</i>
	DATE	<i>2-53</i>	<i>2-53</i>	<i>3-53</i>
	PLANFILE		TOTAL SHEETS	

SHEET
5
of
10





PUB. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
5	KANSAS		195		



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 piles specified on the Contract or the equivalent prestressed 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 steel and type concrete pile specified on the Contract or the equivalent prestressed 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" or Class "B" Concrete for precast piles shall be Class "A" and "B" = 4000 P.S.I.
4. Reinforcement
Reinforcing bars should be new billet steel of intermediate grade without exception. Hooks and spirals may be either plain or deformed.

5. Precast Piles.
Precast piles shall conform to the requirements of Section 59.310 of the specifications.
6. Cast-in-place Shells
A pile shells shall have a minimum thickness as follows:
1. Piles driven without mandrel: 8 gage except fluted pile use 9 gage minimum.
 2. Piles driven with mandrel: Shell shall be of sufficient thickness and thickness to withstand driving without injury to it to resist harmful side forces and or buckling due to soil pressure after being driven and the mandrel removed.
 3. Shell shells shall meet the following material requirements:
 - a. Fluted steel shells and steel: carbon - SAE 100 classification for cold heading steel.
 - b. Seamless steel shells - A517, Certification, A552, Grade 2 Steel, Fusion-Welded Joints, Seam Shell Pipe.
 - c. Seamless steel shells - A517, A552, Welder and Seamless Steel Pipe Pipes.
 - d. Corrugated steel shell - SAE 100.
 4. The contractor shall maintain the job at all times prior to and during the filling of the shells, a light suitable for their location.

- D. Improperly driven, broken, or otherwise defective piles 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.
- Steel Piles
Steel pile material shall meet the requirements of ASTM A7-53T.
- Pile Points
All cast-in-place piles shall be equipped with a steel driving point of minimum thickness. Driving points shall be well welded to the pile. Driving points shall be either hot pressed steel meeting the requirements of AASHTO for forged steel, or cast steel meeting the requirements of AASHTO Specification for High-Strength Cast Steel meeting the requirements of ASTM A7-53T.
- Steel Piles Shall have a square end and only. No driving point is required.
- Welding
All field welding shall meet the requirements of Section 51.34 of the Specifications
- Revised
- Point
Shall comply with the Kansas Standard Specifications, (1955 Edition)

ALTERNATE POINT BEARING PILES					DESIGN CAPACITY BY DESIGN FORMULA	
MINIMUM SUIT					POINT BEARING PILS	FRICTION PILS
STEEL PILE	EQUIVALENT CONCRETE PILES			STEEL PILES		
	PRECAST	PIPE	FLUTED			
10" x 12	14"	12"	12"	12"	12'	30 Ton
12" x 13	20"	16"	16"	16"	13'	
14" x 13	26"	18"	18"	18"	10'	

11. Splices
Splice details for cast-in-place or pre-stressed 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
Notarized 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.

1							
2							
3							
NO	DATE	EYEWITNESS			BY	APP	

STATE HIGHWAY COMMISSION OF KANSAS

STANDARD PILE DETAILS

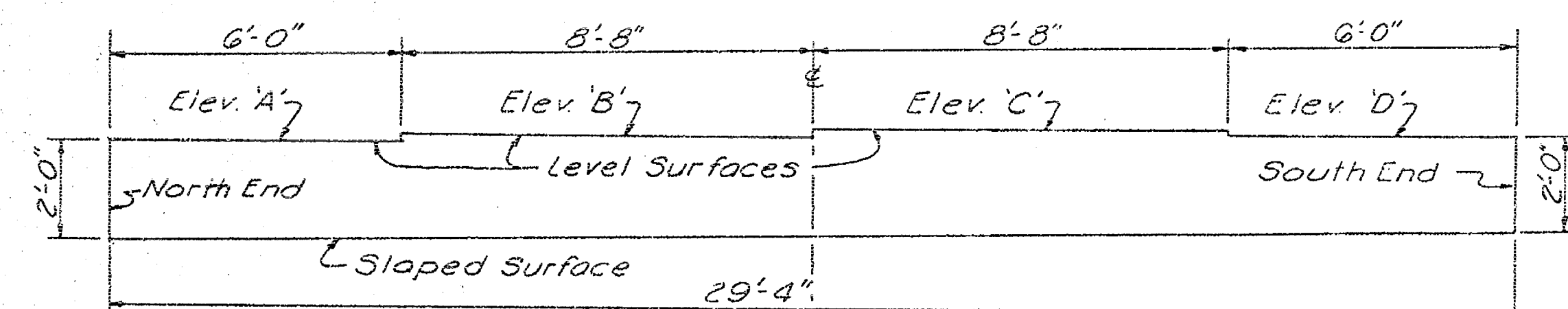
BRIDGE NO. 620-22-5077

SHEET NO.	OF	SCALE	AMPS	
DESIGNED		DETAILS	QUANTITIES	TRACKED
DRAWN BY		DETAILS	QUAN. CE.	TRACK CE.

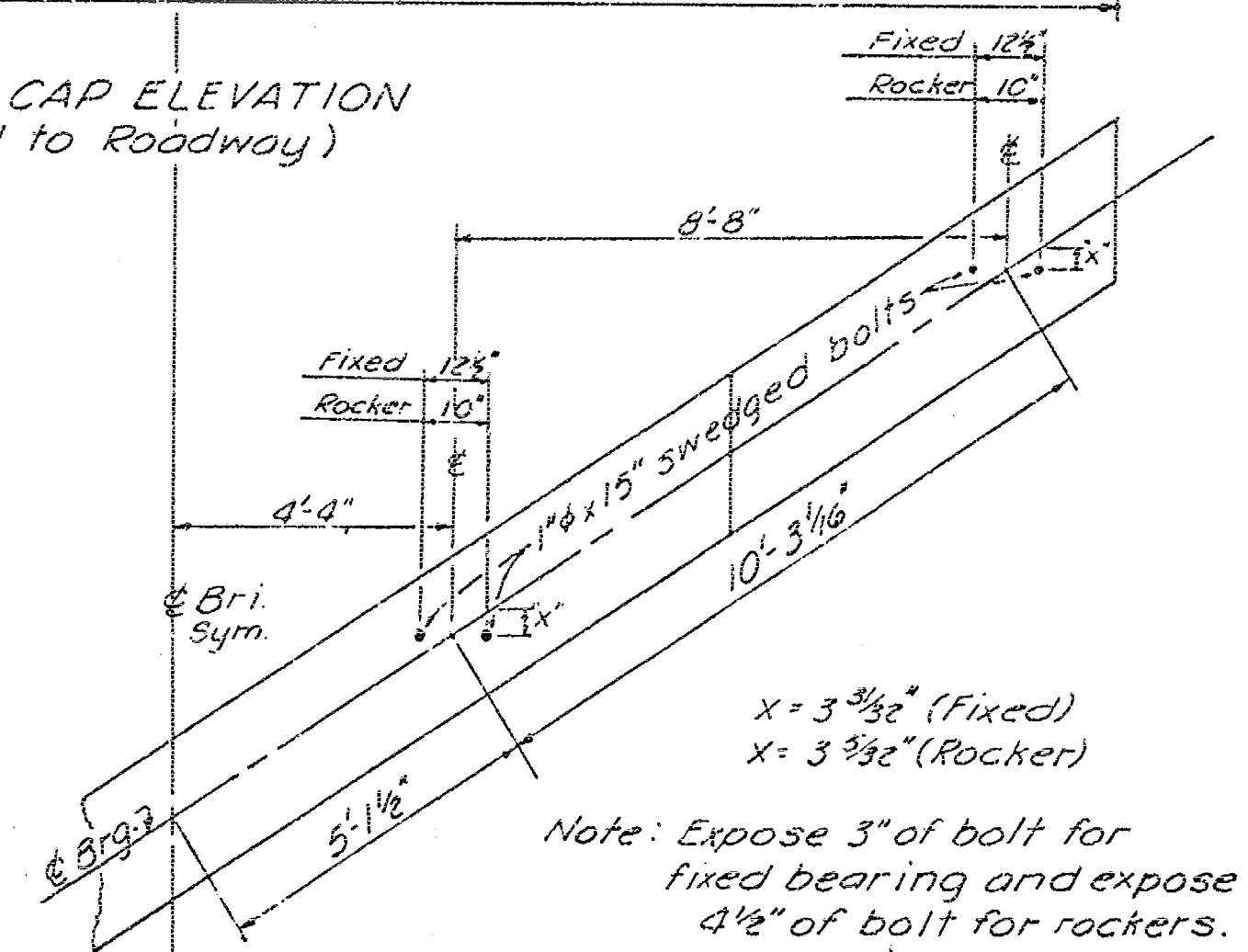
ABUTMENT & PIER ELEVATIONS

ABUTMENT Or PIER NO.	North Elev. A'	Elev. B'	Elev. C'	South Side Elev. D'
Abut #1 R	1313.03	1313.28	1313.37	1313.29
Pier #1 R	1313.54	1313.78	1313.86	1313.78
Pier #2 F	1314.73	1314.97	1315.03	1314.94
Pier #3 F	1315.26	1315.49	1315.55	1315.44
Pier #4 F	1315.72	1315.93	1315.98	1315.87
Pier #5 R	1315.51	1315.71	1315.75	1315.63
Pier #6 R	1315.63	1316.02	1316.06	1315.93
Pier #7 R	1316.09	1316.29	1316.32	1316.19
Pier #8 F	1316.93	1317.12	1317.15	1317.01
Pier #9 F	1317.14	1317.32	1317.35	1317.20
Pier #10 R	1316.71	1316.89	1316.91	1316.77
Pier #11 R	1316.86	1317.03	1317.05	1316.90
Pier #12 R	1316.95	1317.13	1317.14	1316.98
Pier #13 F	1317.60	1317.77	1317.77	1317.61
Pier #14 Bri	1317.62	1317.79	1317.79	1317.62
Pier #15 F	1317.61	1317.77	1317.77	1317.60
Pier #16 R	1316.98	1317.14	1317.13	1316.95
Pier #17 R	1316.90	1317.05	1317.03	1316.86
Pier #18 R	1316.77	1316.91	1316.89	1316.71
Pier #19 F	1317.20	1317.35	1317.32	1317.14
Pier #20 F	1317.01	1317.15	1317.12	1316.93
Pier #21 R	1316.19	1316.32	1316.29	1316.09
Pier #22 R	1315.93	1316.06	1316.02	1315.83
Pier #23 R	1315.63	1315.75	1315.71	1315.51
Pier #24 F	1315.86	1315.98	1315.93	1315.71
Pier #25 F	1315.43	1315.53	1315.47	1315.25
Pier #26 F	1314.91	1315.00	1314.93	1314.69
Pier #27 R	1313.72	1313.80	1313.72	1313.47
Abut #2 R	1313.21	1313.28	1313.19	1312.94

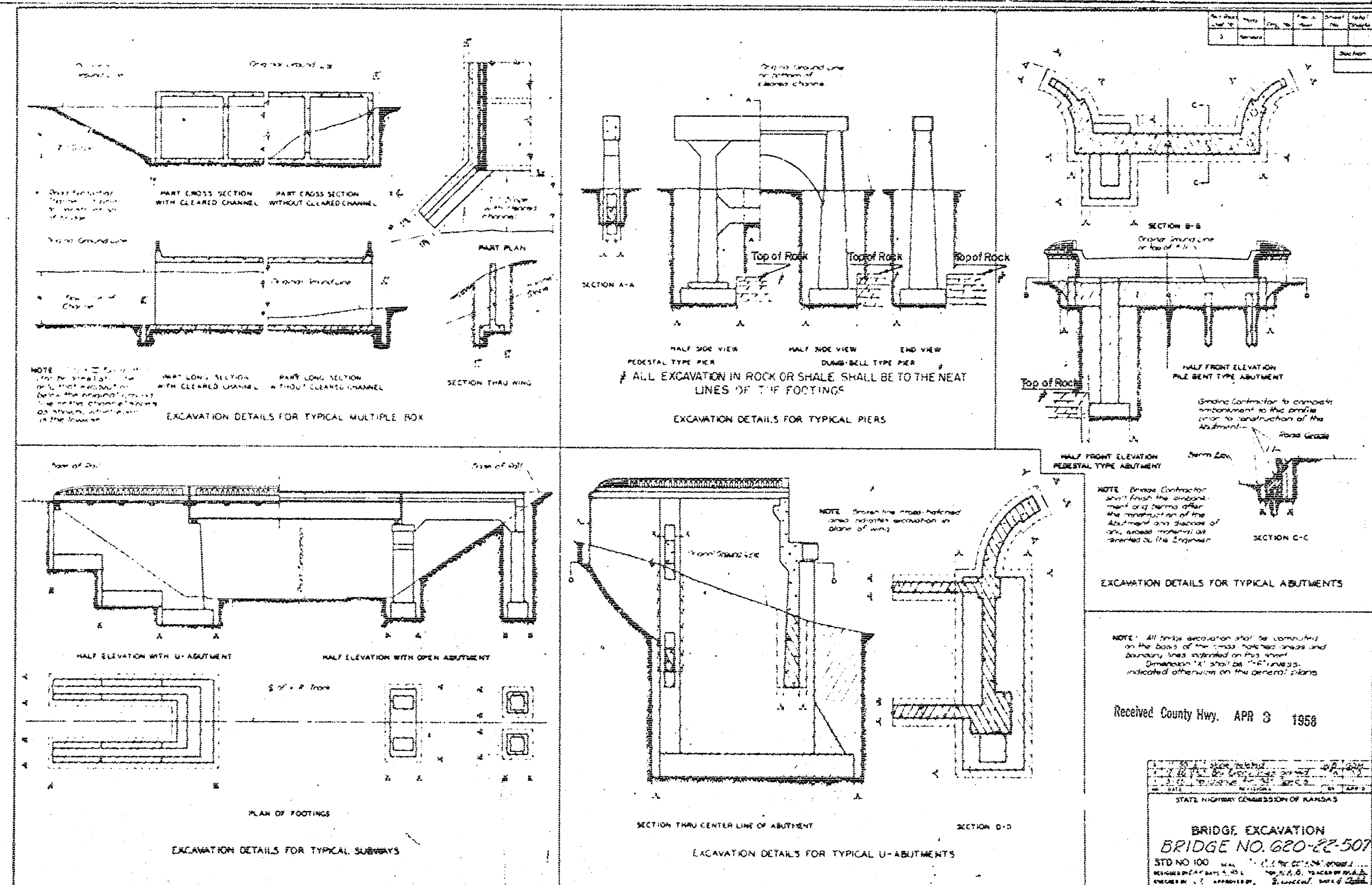
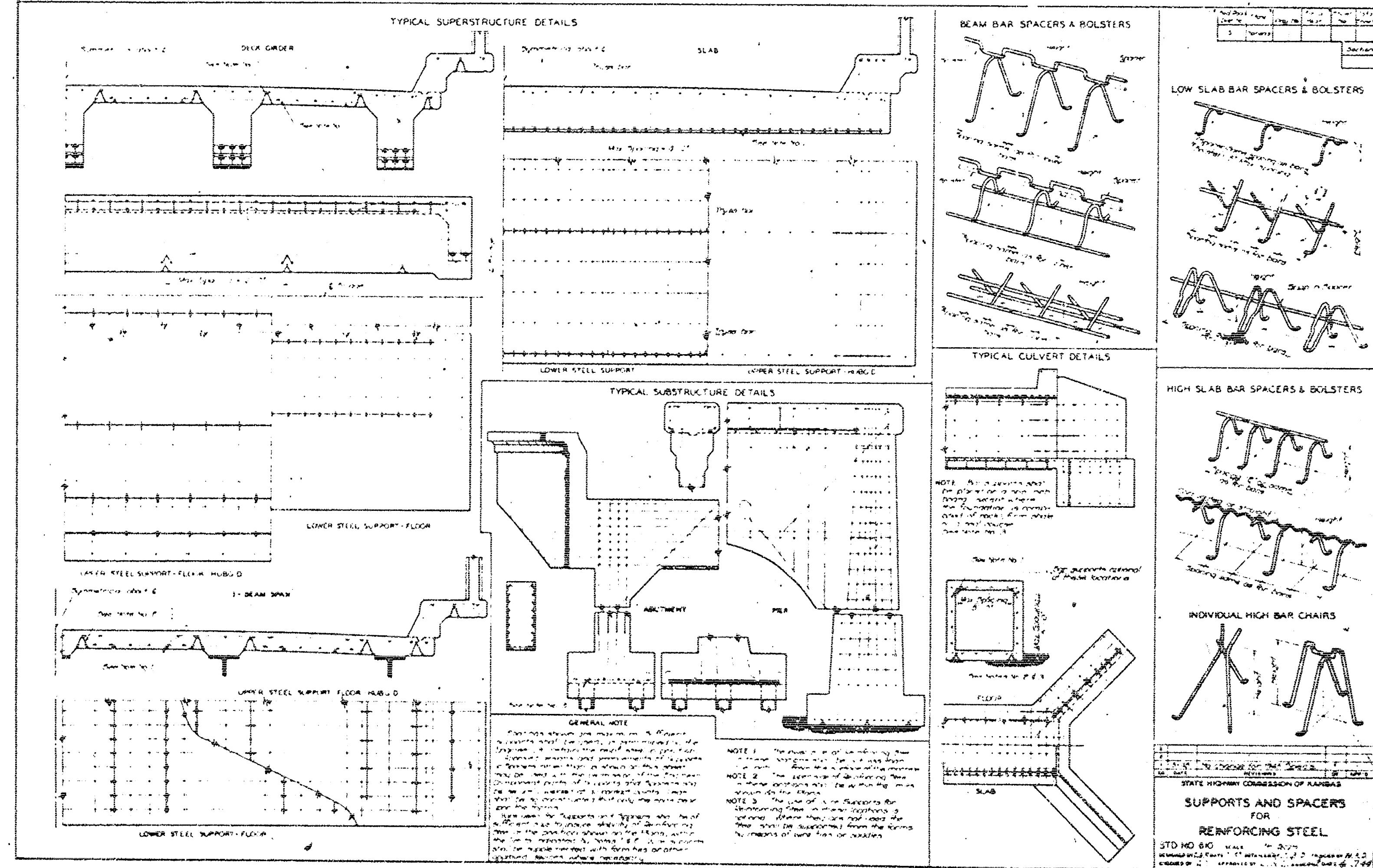
R=Rockers F=Fixed



TYPICAL CAP ELEVATION
(Normal to Roadway)



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



Received County Hwy. APR 3 1958

BRIDGE NO. 620-22-5070
STD NO. 100
RECEIVED APR 3 1958
COUNTY HIGHWAY DEPARTMENT
COUNTY HIGHWAY DEPARTMENT