

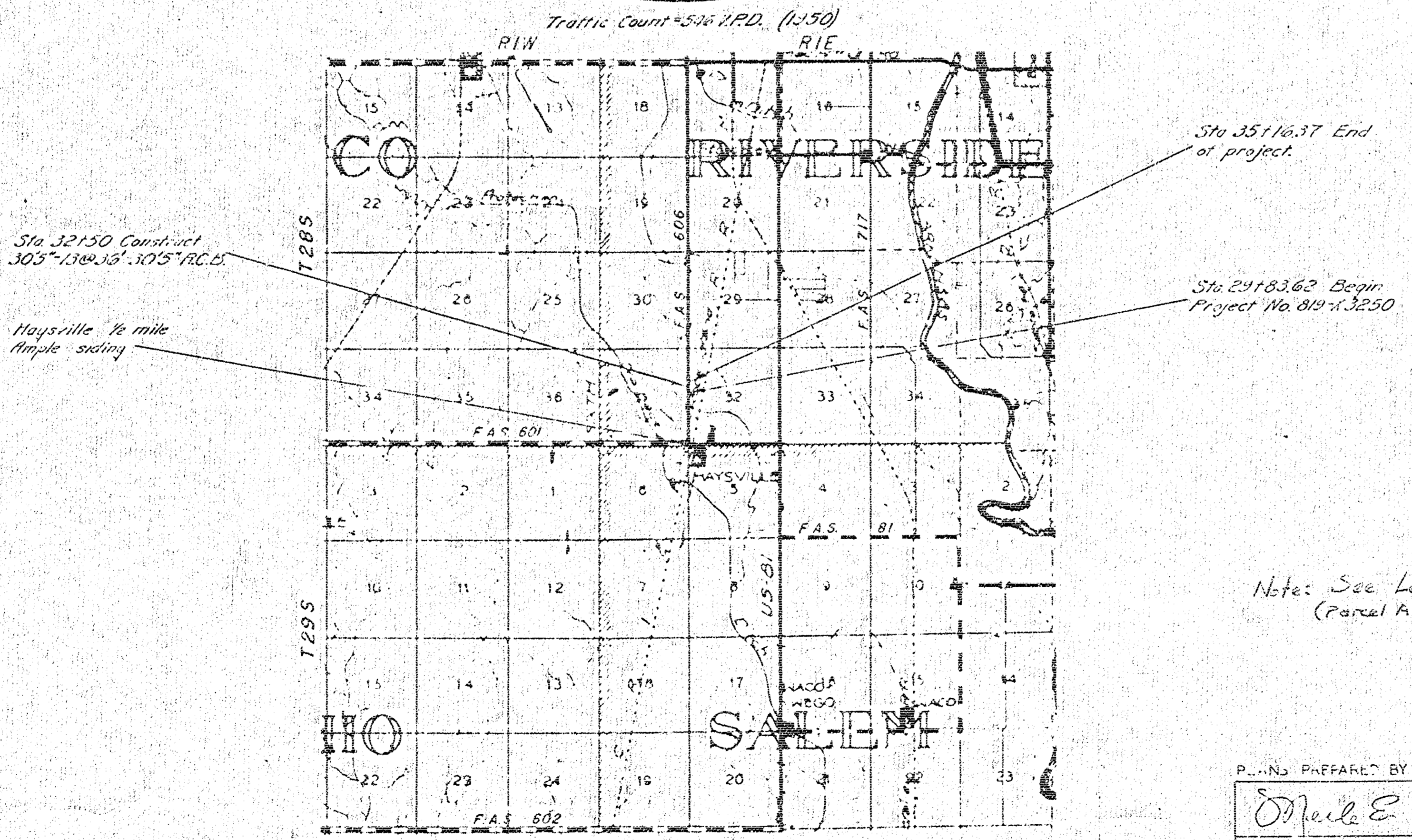


STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KANSAS			1	8

INDEX OF SHEETS

SHEET NO.	TITLE SHEET
1	Title Sheet
2	Topography
3	Plan & Profile
4	Construction Layout
5	General Details
6	Utility Details
7	Plantering Detail
8	Paving Detail

Bridge Only



Note: See Letter Dtd 7 Jan, 1952 concerning County rip-rap (Parcel A) F.1a

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	532.75	FT.	.10	MILES
NET LENGTH OF BRIDGES	512.75	FT.	.10	MILES
NET LENGTH OF ROAD		FT.		MILES
EXCEPTIONS		FT.		MILES
ADDITIONS		FT.		MILES
GROSS LENGTH OF PROJECT	532.75	FT.	.10	MILES

PLANS PREPARED BY

Orville E. Schwab
County Design Engineer

DATE

APPROVED

DATE

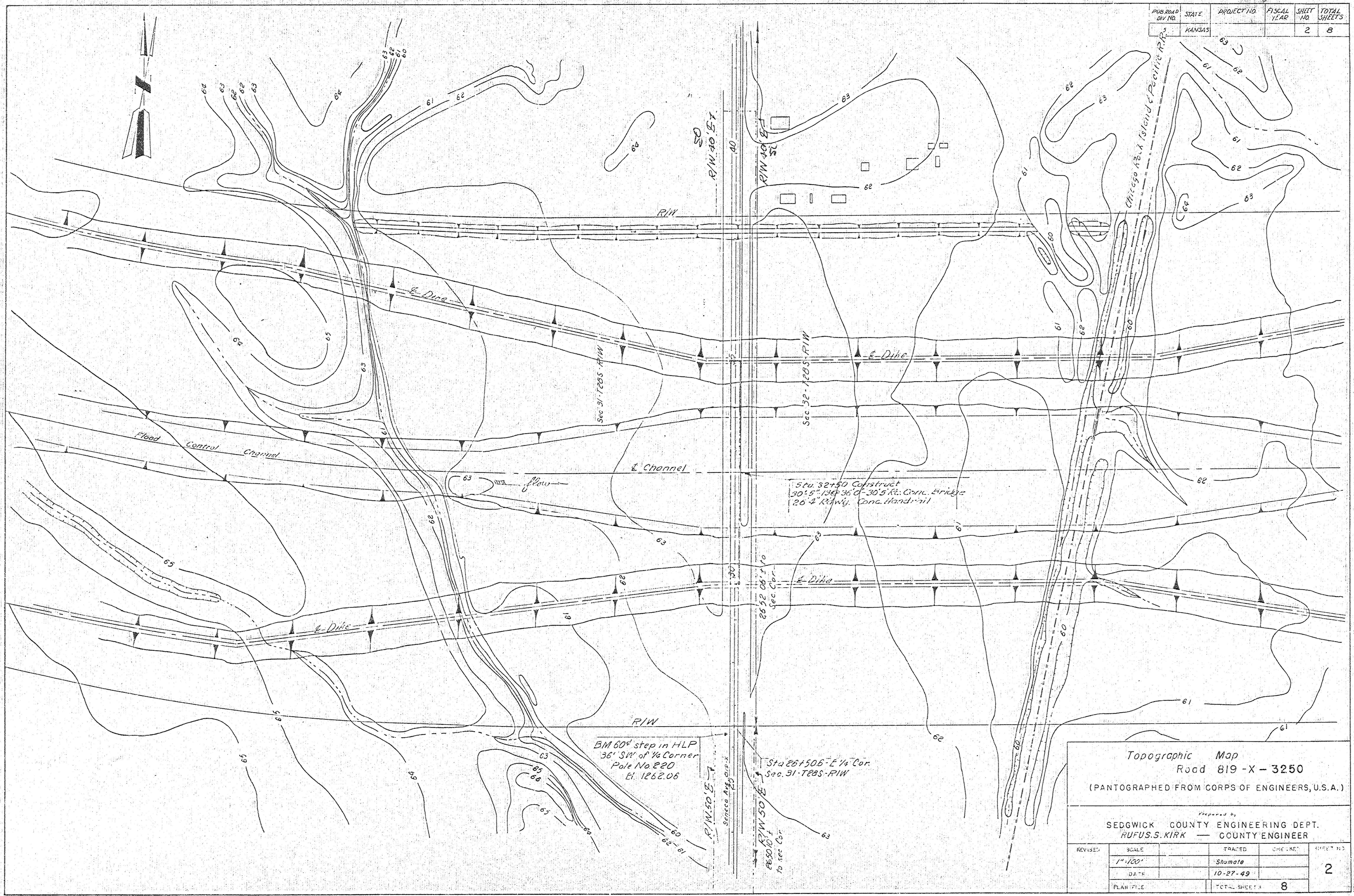
A-PROVED

Richard H. ...
COUNTY ENGINEER

DATE

APPROVED

DATE



PUB. MAP DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	KANSAS			2	8

Sta. 30+50 Construct
 20' x 12' x 1/2' of 30.5' R.C. Cor. bridge
 26' x 12' x 1/2' Conc. Handrail

BM 604 step in HLP
 36' SW of 1/4 Corner
 Pole No. 220
 E. 1262.06

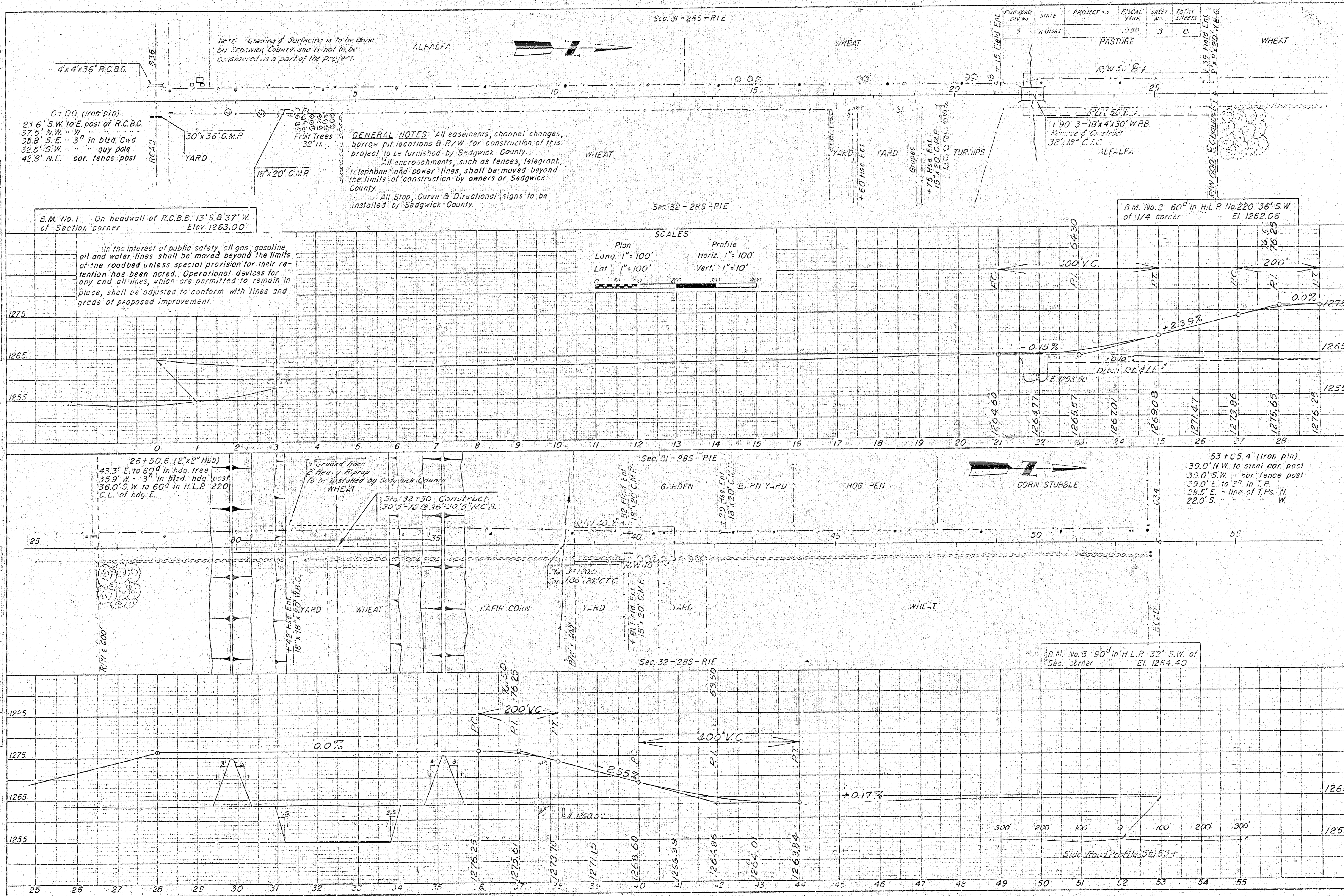
Sta. 26+506 - E 1/4 Cor.
 Sec. 31 - T28S - R1W

Topographic Map
 Road 819-X-3250
 (PANTOGRAPHED FROM CORPS OF ENGINEERS, U.S.A.)

Prepared by
 SEDGWICK COUNTY ENGINEERING DEPT.
 RUFUS S. KIRK COUNTY ENGINEER

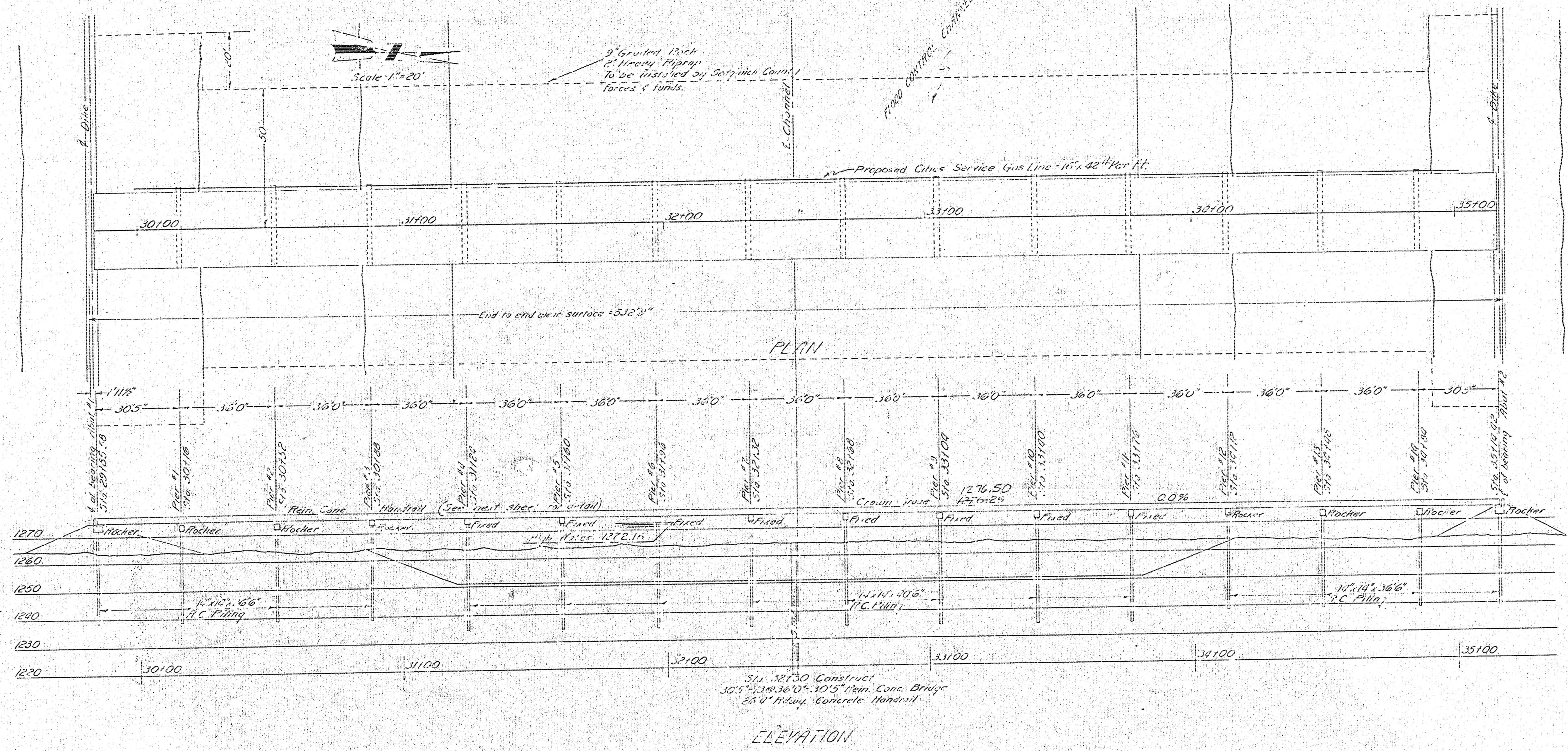
REVISED	SCALE	DRAWN	CHECKED	DATE
	1"=100'	Shumate		10-27-49

TOTAL SHEETS 8



PLAN
 HOME BOOK
 PROJECT NO.
 SHEET NO.
 TOTAL SHEETS

PROFILE
 HOME BOOK
 PROJECT NO.
 SHEET NO.
 TOTAL SHEETS



FLOODWAY DATA
 Top of left bank elevation 1275.72 1176.27 } 4/4/52
 Top of right bank elevation 1274.73 1175.27 }
 Bottom of channel elevation 1254.54
 Highway elevation 1272.16
 Width of channel at bottom 60'
 Side slopes of channel 1 on 2.5
 Side slopes of levees 1 on 3
 Width of floodway center to center of levee 559' 4/4/52
 Estimated flow 46,500 c.f.s.
 Estimated velocity 8 ft/sec.

GENERAL NOTES
 Design: According to A.A.S.H.O. Specifications, edition of 1951, 14-20-53, loading, 15 x 20, 0.20 psi, 10,000 psi.
 Soundings: Taken in Sedgwick County with 36' ft. Concrete pillars 1' in diameter to a depth of 100 feet.
 Piling: 12" x 12" x 33' long, one pile.
 Concrete: Use Class (A) concrete throughout. Develop all exposed edges with 1/4" triangular masonry. Contractor shall use preformed metal forms owned by Sedgwick County.
 Embankment: To be constructed by Sedgwick County or others. No earthwork is to be considered a part of this project.

CONSTRUCTION LAYOUT
BRIDGE NO. 819-X-3250

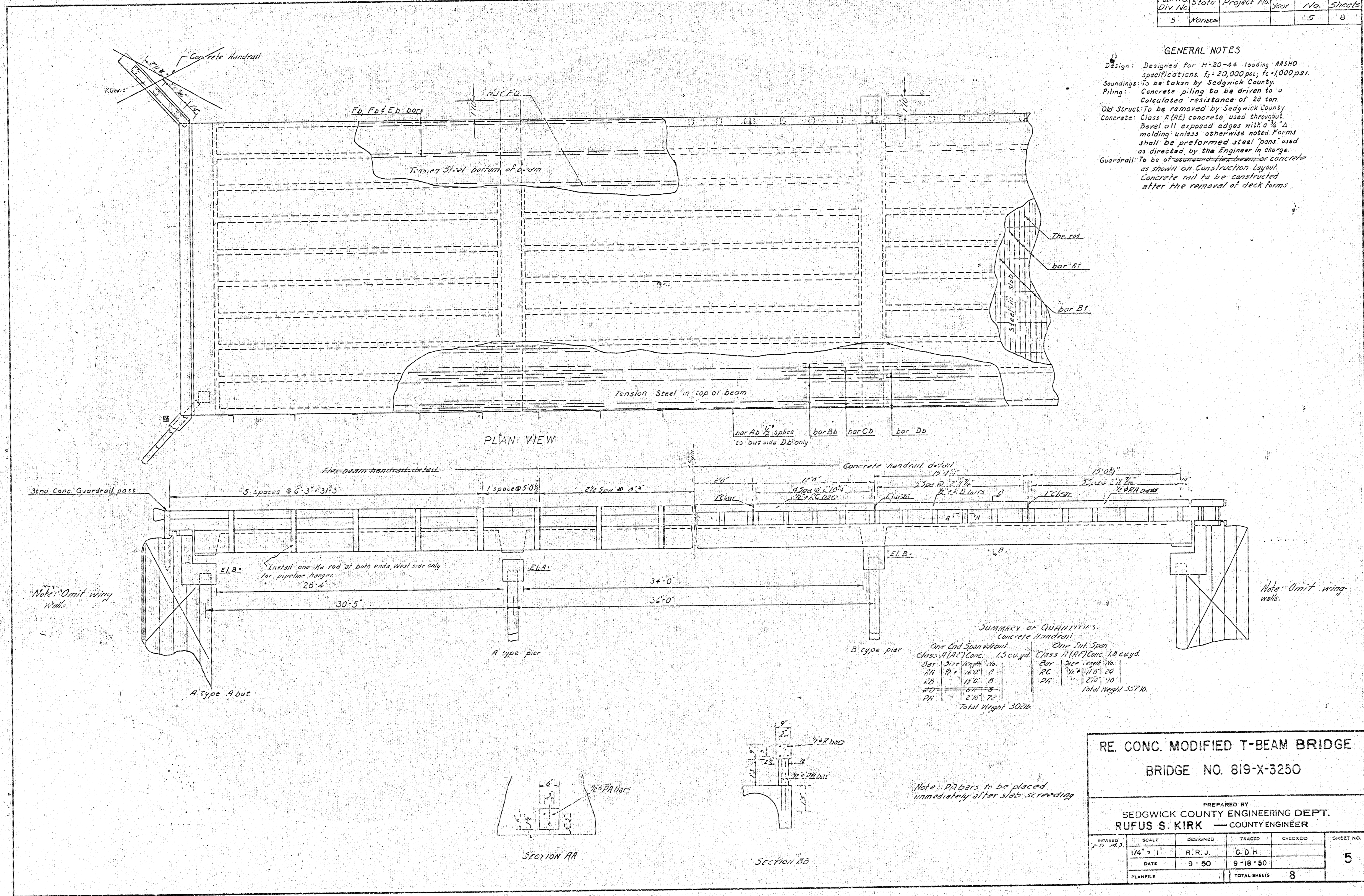
PREPARED BY
 SEDGWICK COUNTY ENGINEERING DEPT.
 RUFUS S. KIRK — COUNTY ENGINEER

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	1"=20'	M.E.S.	L.W.H.		4
DATE				TOTAL SHEETS	
PLANFILE				8	

Pub. Rd. Div. No.	State	Project No.	Fiscal Year	Sheet No.	Total Sheets
5	Kansas			5	8

GENERAL NOTES

Design: Designed for H-20-44 loading AASHTO specifications. $f_c = 20,000 \text{ psi}$, $f_s = 100,000 \text{ psi}$.
 Soundings: To be taken by Sedgwick County.
 Piling: Concrete piling to be driven to a calculated resistance of 28 ton.
 Old Struct: To be removed by Sedgwick County.
 Concrete: Class R (R2) concrete used throughout.
 Detail all exposed edges with $\frac{1}{2}$ " mauling unless otherwise noted. Forms shall be preformed steel pans used as directed by the Engineer in charge.
 Guardrail: To be of unreinforced concrete as shown on Construction layout. Concrete rail to be constructed after the removal of deck forms.



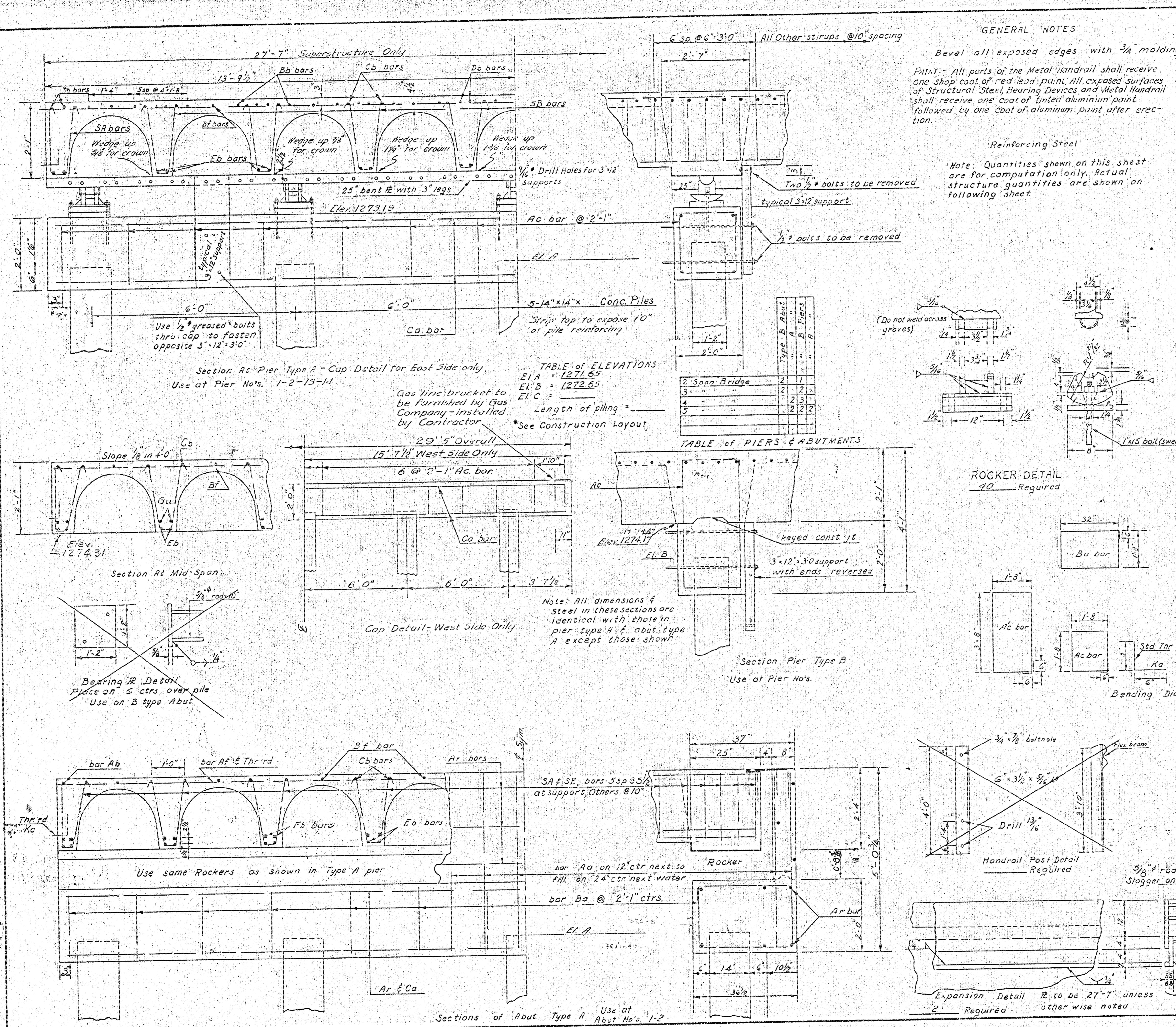
**SUMMARY OF QUANTITIES
Concrete Handrail**

One End Span #2202		One Int. Span	
Bar	Qty.	Bar	Qty.
Class R (R2) Conc.	1.5 cu. yd.	Class R (R2) Conc.	1.8 cu. yd.
#4	12	#4	12
#6	8	#6	8
#8	8	#8	8
#10	7	#10	7
Total Weight 337 lb.		Total Weight 337 lb.	

RE. CONC. MODIFIED T-BEAM BRIDGE
BRIDGE NO. 819-X-3250

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

REVISION	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
1	1/4" = 1'	R. R. J.	C. D. H.		5
		DATE	9-50	9-18-50	
		PLANFILE	TOTAL SHEETS		8



GENERAL NOTES
 Bevel all exposed edges with 3/4" molding
 PAINT: All parts of the Metal Handrail shall receive one shop coat of red lead paint. All exposed surfaces of Structural Steel, Bearing Devices and Metal Handrail shall receive one coat of tinted aluminum paint followed by one coat of aluminum paint after erection.

Reinforcing Steel
 Note: Quantities shown on this sheet are for computation only. Actual structure quantities are shown on following sheet

TABLE of ELEVATIONS

E1 A	1271.65
E1 B	1272.65
E1 C	1273.65

Gas line bracket to be furnished by Gas Company - Installed by Contractor
 Length of piling - See Construction Layout.

TABLE of PIERS & ABUTMENTS

Type	No.	Span	Abutment
1	1	27'-7"	1
2	2	27'-7"	2
3	3	27'-7"	3
4	4	27'-7"	4
5	5	27'-7"	5

27'-7" Slab ABUTMENT QUANTITIES

A TYPE			B TYPE		
back wall boards			back wall boards		
Five bearing piling			Five bearing piling		
Eight sheet piling			Eight sheet piling		
8.3 cu yd concrete			7.8 cu yd concrete		
579 lbs reinforcing steel			579 lbs reinforcing steel		
Five bearing devices			Five bearing devices		
One bent plate			One bent plate		
Bar No	Length	Size	Bar No	Length	Size
Aa	4'-10"	1"	Aa	4'-10"	1"
Ab	27'-0"	1"	Ab	27'-0"	1"
Ba	14'-8"	1"	Ba	14'-8"	1"
Ca	4'-27'-0"	1"	Ca	4'-27'-0"	1"

27'-7" Slab PIER QUANTITIES

A TYPE			B TYPE		
Five bearing piling			Five bearing piling		
4.4 cu yd concrete			4.4 cu yd concrete		
384 lbs reinforcing steel			423 lbs reinforcing steel		
5 bearing devices			5 bearing devices		
One bent plate			One bent plate		
Bar No	Length	Size	Bar No	Length	Size
Aa	15'-7"	1"	Aa	15'-7"	1"
Ac	28'-10"	1"	Ac	28'-10"	1"
Ca	4'-28'-10"	1"	Ca	4'-28'-10"	1"

27'-7" Slab SPAN QUANTITIES*

ONE END SPAN			ONE INT SPAN		
36.4 cu yd cone			39.6 cu yd cone		
6342 lbs reinforcing steel			4868 lbs reinforcing steel		
45 expansion device			45 expansion device		
Concrete Posts			Concrete Posts		
Bar No	Length	Size	Bar No	Length	Size
JA	63	5/8"	SB	192	5/8"
JB	332	5/8"	SB	348	5/8"
JA	20	23/8"	EA	20	23/8"
EA	20	33/4"	EA	20	33/4"
EA	2	25'-0"	KA	12	0'-11"
EA	59	27'-0"	EA	66	27'-0"
EA	9	33'-0"	EA	9	33'-0"
EA	18	33'-0"	EA	18	33'-0"
EA	9	14'-0"	EA	6	28'-0"
EA	5	28'-0"	EA	20	18'-0"

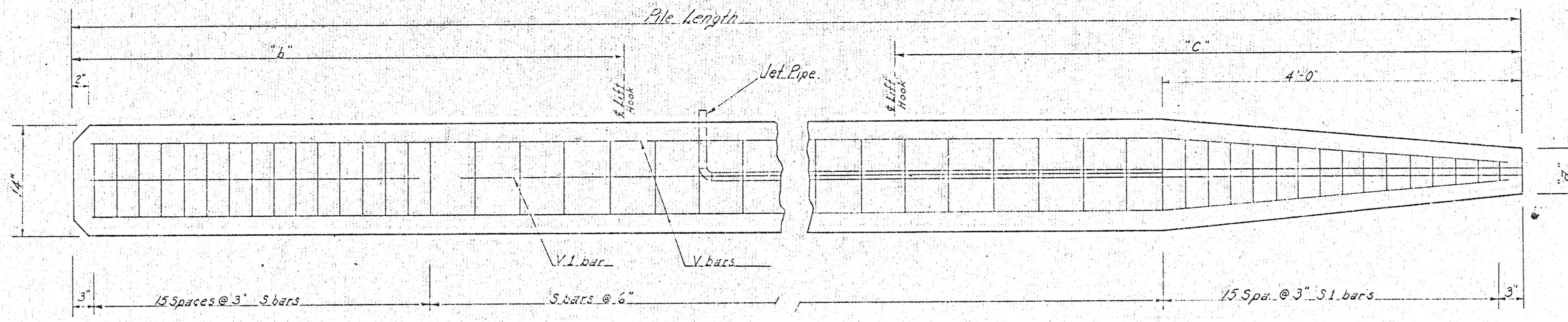
* Due to overlapping & duplication quantities shown are not necessarily actual bar quantities but are factors to be multiplied by the number of each span involved to give total structure quantities. Multiply by number of piers.

RE CONC. MODIFIED T-BEAM BRIDGE
AUXILIARY DETAILS
BRIDGE NO. 819-X-3250

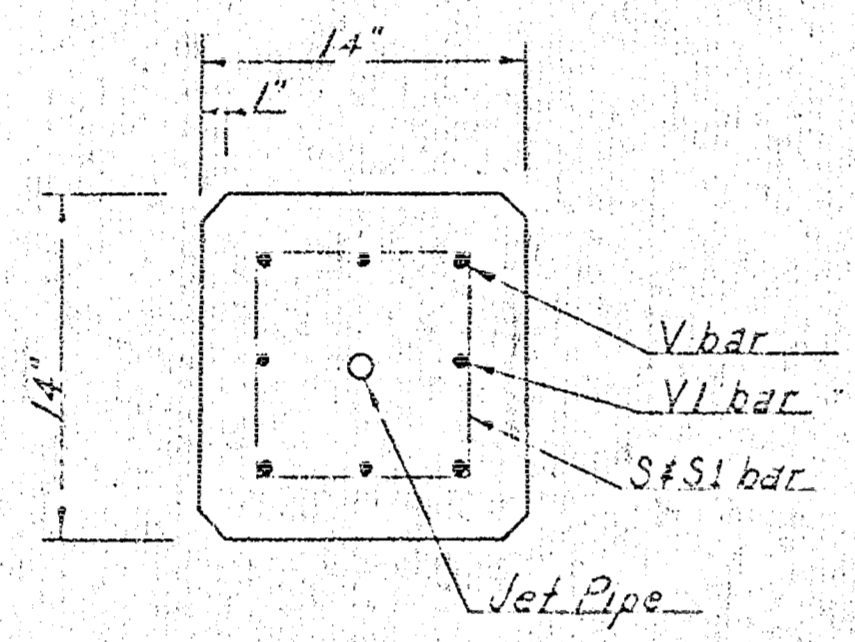
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 RUFUS S. KIRK - COUNTY ENGINEER

REVISIONS	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
12-31-43	1/2" = 1'	R. R. J.	C. D. H.		6
		DATE	9-50	9-23-50	
		PLANFILE	TOTAL SHEETS	8	

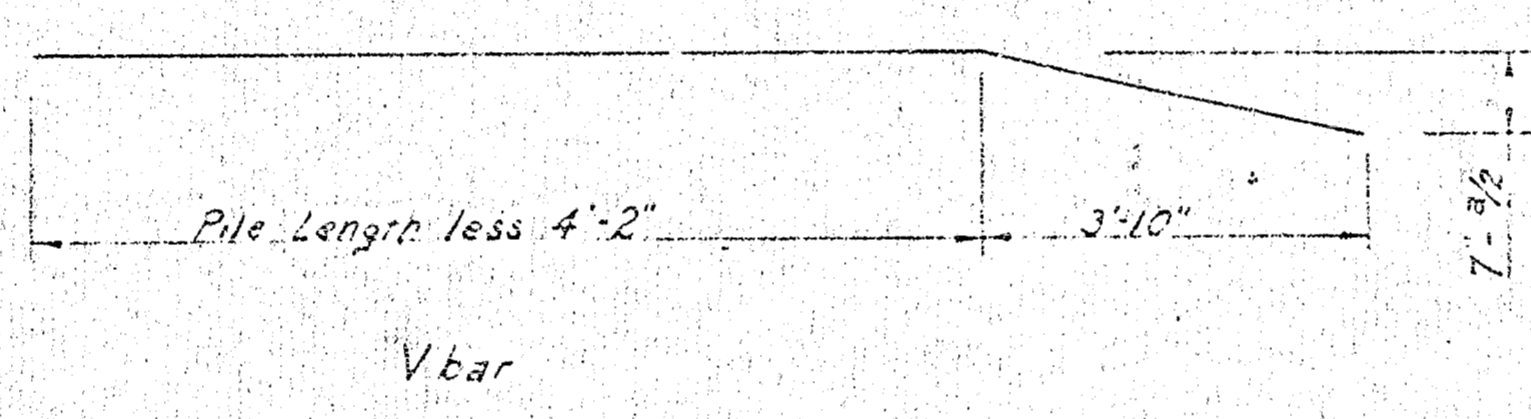
Pub. Rd. Div. No.	State	Project No.	Fiscal Year	Sheet No.	Total Sheets
5	Kansas		1951	8	8



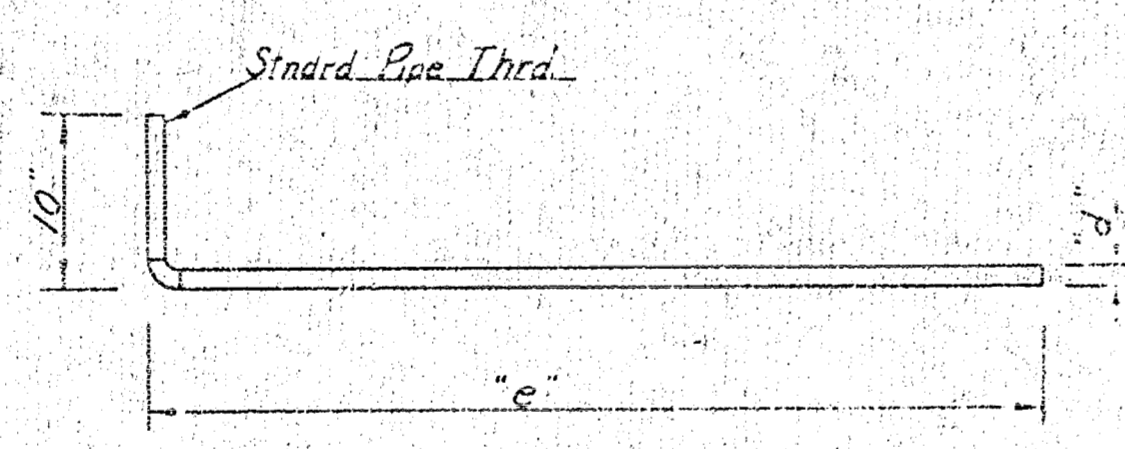
ELEVATION



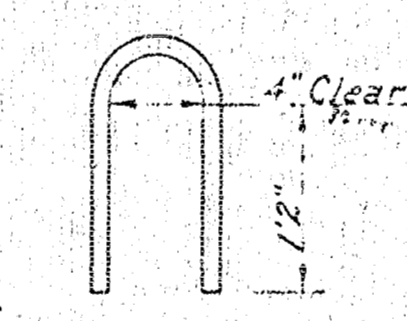
END VIEW



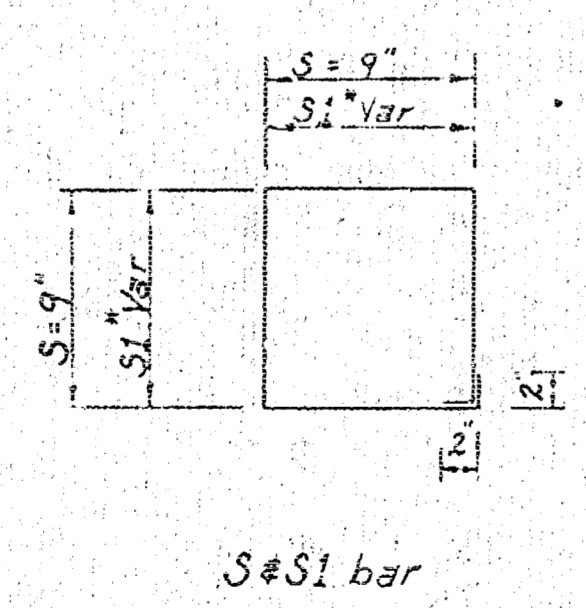
V bar



d Dia Jet Pipe



#8 Lift Hook



S#S1 bar

*S1-15 bars, increase from "x" to "y" by "z" increments

General Notes
 Design: According to ARS MO Specifications 1949 Edition 1s/2,000 psi. For 1,000 psi Concrete Use class 9 throughout if piling are to be encased or otherwise protected. Use class 11 (A2) if piling are to form open bent, unless otherwise noted.
 Reinforcing: All dimensions are to center of bars unless otherwise noted.
 Jet Pipe: Standard pipe of dimensions shown unless otherwise approved by Engineer.
 Curing: Piling shall be left in forms or otherwise properly cured for at least 7 days. Piling shall not be moved until concrete has attained its design strength or a minimum of 4 weeks after casting.
 Payment: The cost of material and labor used for casting and driving of piles shall be included in the unit bid for concrete piles.
 Handling: Piling shall only be lifted by handling hooks or by rigging within 16" of hook location.

Note: Concrete at end of piles shall be removed to expose reinforcing as shown elsewhere on plans. The measured length for payment of piles shall be as stated in Sect. 5940 of the standard specifications of Kansas, Edition of 1951.

Pile Length	20'6"	24'6"	28'6"	32'6"	36'6"	40'6"
Bar	#7 20'6" 4	#7 24'6" 4	#7 28'6" 4	#7 32'6" 4	#6 36'6" 4	#6 40'6" 4
V.I.	#2 3'4" 49	#2 3'4" 49	#2 3'4" 49	#2 3'4" 49	#2 3'4" 49	#2 3'4" 49
S	#2 Var. 15	#2 Var. 15	#2 Var. 15	#2 Var. 15	#2 Var. 15	#2 Var. 15
Lift Hook	#8 3'0" 2	#8 3'0" 2	#8 3'0" 2	#8 3'0" 2	#8 3'0" 2	#8 3'0" 2
Jet Pipe	1/4" 20'0" 1	1/4" 24'0" 1	1/4" 28'0" 1	1/4" 32'0" 1	1/4" 36'0" 1	1/4" 40'0" 1
a	6"	6"	6"	6"	6"	6"
b	6'50"	7'2"	8'4"	9'6"	10'8"	11'10"
c	8'0"	1'2"	10'4"	11'6"	12'8"	14'10"
d	6"	6"	6"	6"	6"	6"
e	26'0"	26'0"	26'0"	26'0"	26'0"	26'0"
Concrete	94 Cu.Yds.	114 Cu.Yds.	134 Cu.Yds.	155 Cu.Yds.	175 Cu.Yds.	195 Cu.Yds.
Rebar	207 Lbs.	247 Lbs.	287 Lbs.	327 Lbs.	367 Lbs.	407 Lbs.

Pile Length	37'0"
Bar	#7 36'8" 4
V.I.	#2 3'4" 49
S	#2 3'4" 74
S1	#2 Var. 15
Lift Hook	#8 3'0" 2
Jet Pipe	1/4" Note 1
a	10"
b	10'10"
c	11'11"
d	17/4"
e	See Note
X	2'5/8" to 2'3/4" by 3/4"
Concrete	182 Cu.Yds.
Rebar	452 Lbs.

14"x14"x Re. Conc. Piling
 BRIDGE NO. 819-x-3250

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

REV.	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
		Schwab	Housman		8
		DATE 12-51	1-52		
		PLANFILE	TOTAL SHEETS	8	