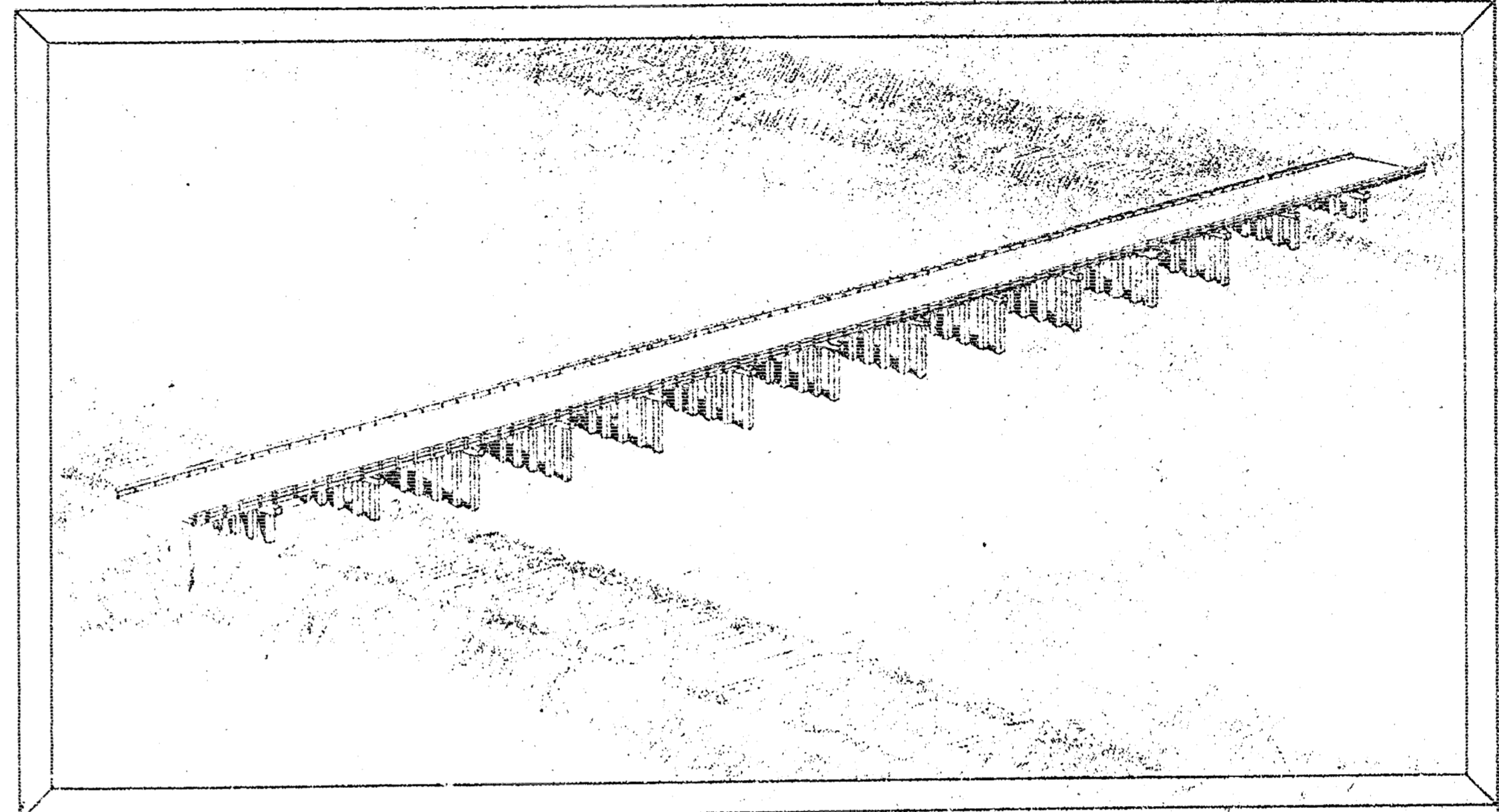
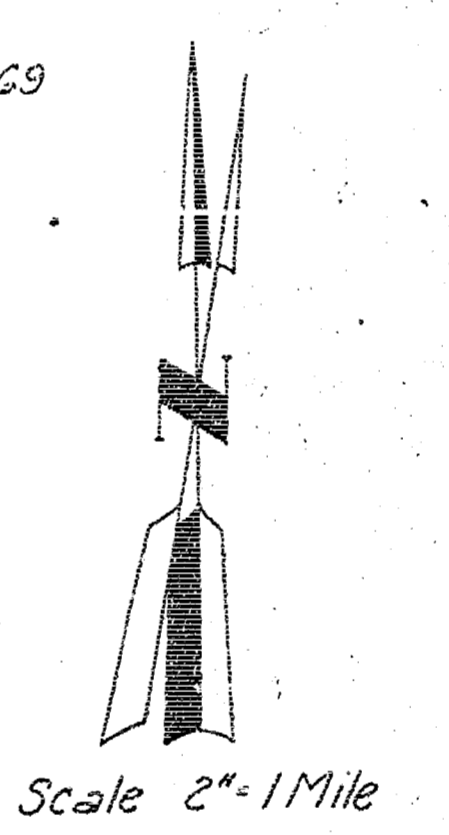
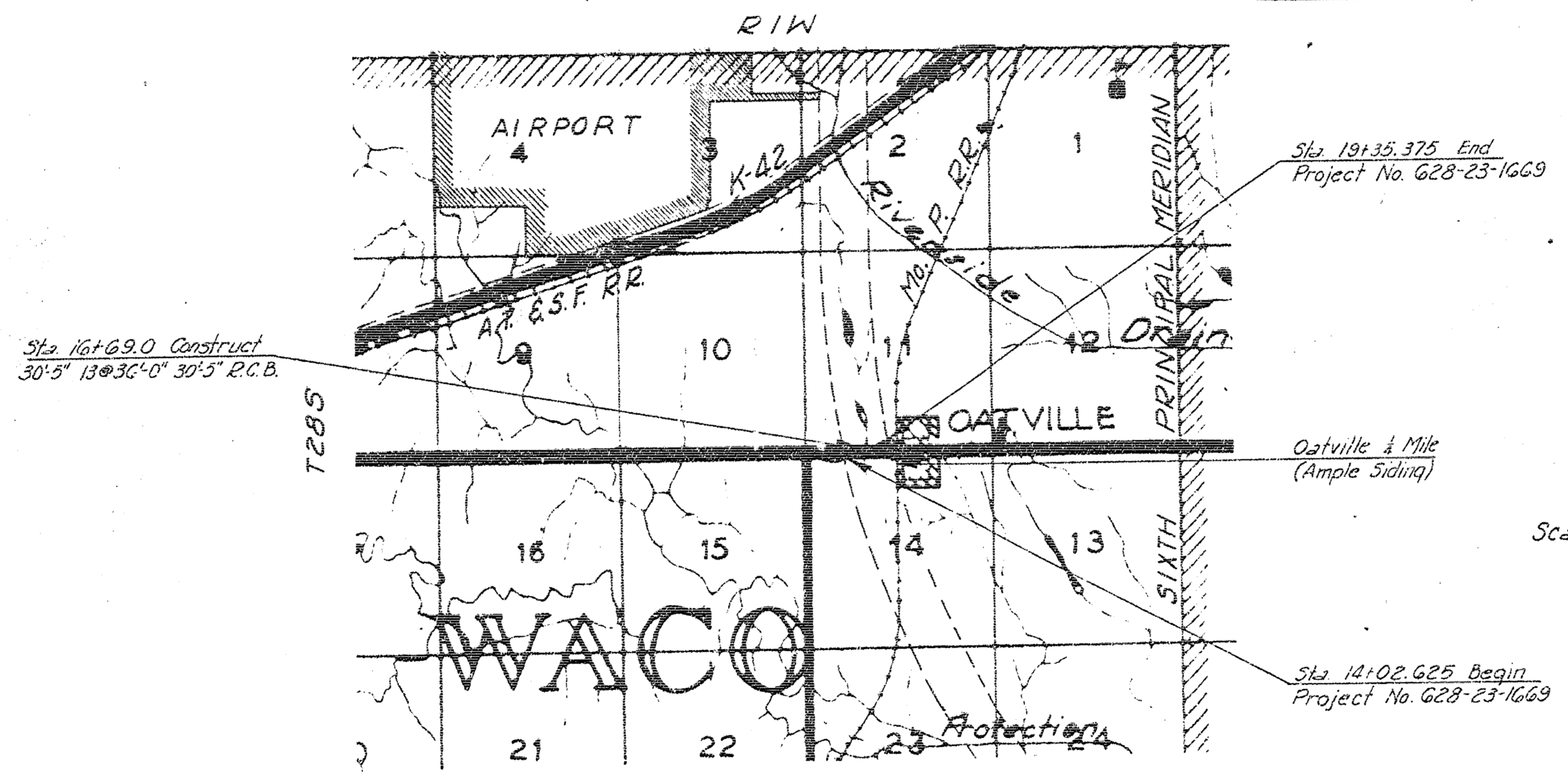


STATE OF KANSAS
STATE HIGHWAY COMMISSION
SEDGWICK COUNTY
PLAN AND PROFILE



- INDEX OF SHEETS
- Sheet No. 1 Title Sheet
 - Sheet No. 2 Topography
 - Sheet No. 3 Plan & Profile
 - Sheet No. 4 Construction Layout
 - Sheet No. 5 General Details
 - Sheet No. 6 Auxiliary Details
 - Sheet No. 7 Reinforcing Detail
 - Sheet No. 8 Piling Detail



BRIDGE ONLY

- CONVENTIONAL SIGNS
- COUNTY LINE -----
 - SECTION LINE -----
 - WIRE FENCE -----
 - HEDGE ROW -----
 - RAILROAD -----
 - SURVEY LINE -----
 - RIGHT OF WAY -----
 - TELEPHONE -----
 - POWER POLE -----
 - TRAVELED WAY -----
 - CITY LIMITS -----
 - TOWNSHIP BOUNDARY -----

GROSS LENGTH OF PROJECT	532.75 FT.	0.1006	MILES
EXCEPTIONS			
ADDITIONS			
NET LENGTH OF PROJECT	532.75 FT.	0.1009	MILES
NET LENGTH OF BRIDGES	532.75 FT.	0.1009	MILES
NET LENGTH OF ROAD	FT.		MILES

PLANS PREPARED BY:
Rufus Kirk
COUNTY ENGINEER
DATE April 20 1953

APPROVED:
[Signature]
COUNTY COMMISSIONER
DATE.

RECOMMENDED FOR APPROVAL DATE

ENGINEER OF SECONDARY ROADS
STATE HIGHWAY COMMISSION OF KANSAS

APPROVED DATE

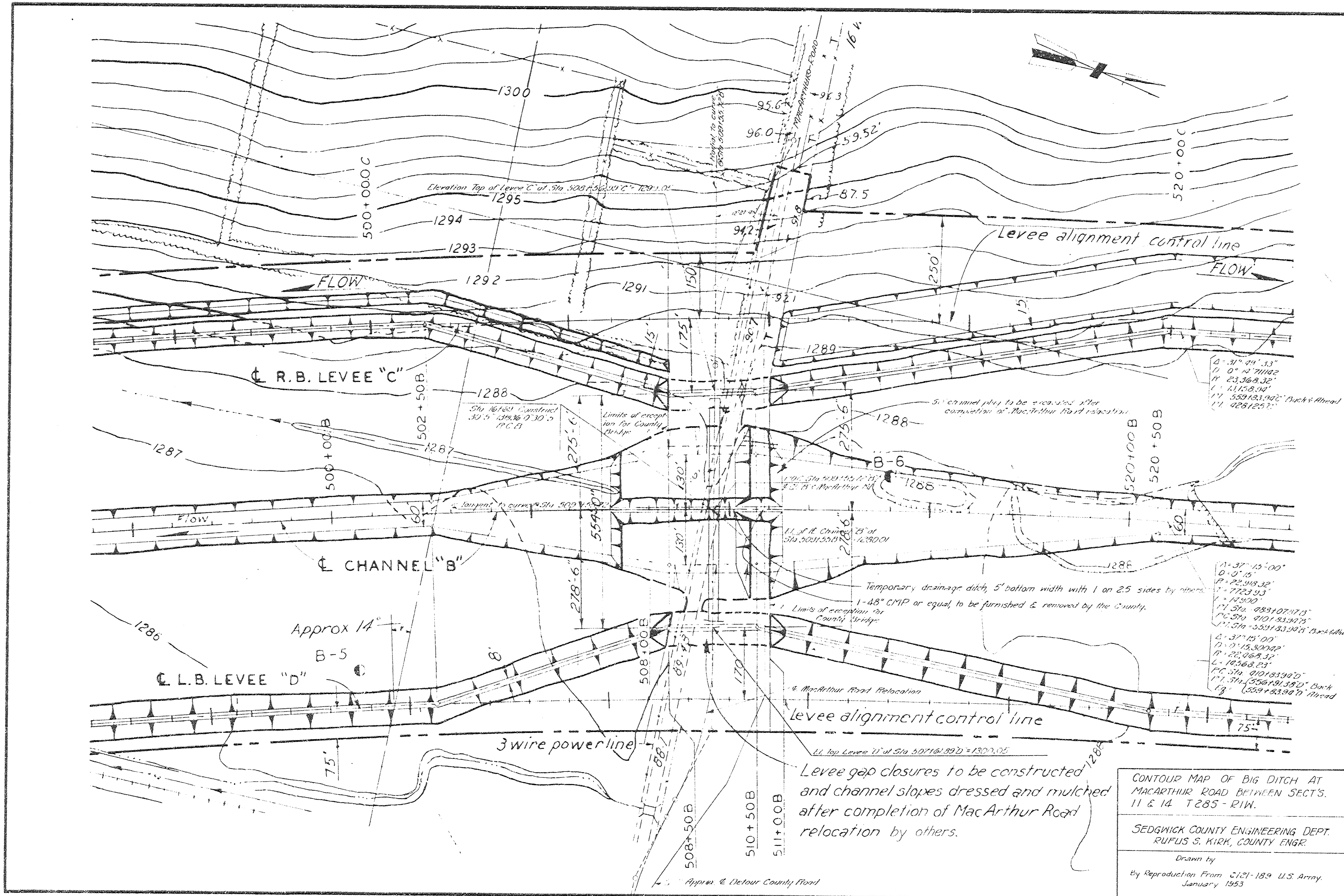
STATE HIGHWAY ENGINEER
STATE HIGHWAY COMMISSION OF KANSAS

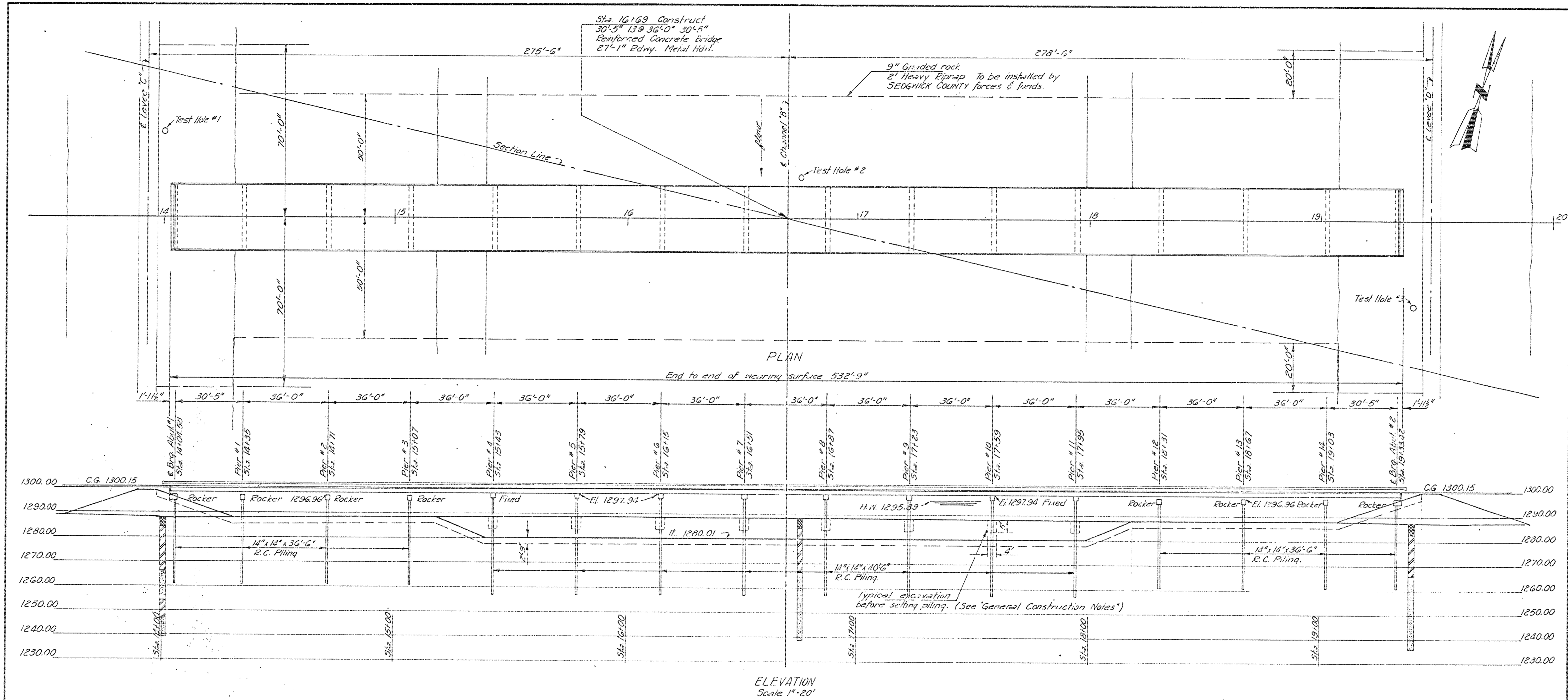
RECOMMENDED FOR APPROVAL DATE

DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

APPROVED DATE

DIVISION ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY





FLOODWAY DATA
 Top of Levee C' elevation 1299.05'
 Top of Levee D' elevation 1300.05'
 Bottom of channel elevation 1280.01'
 Highwater elevation 1295.89'
 Width of channel at bottom 260'
 Side slopes of channel 1 on 2.5
 Side slopes of levees 1 on 3
 Width of floodway c/c to c/c of Levee 554'
 Estimated flow 40,500 c.f.s.
 Estimated velocity 7.30 ft. per sec.

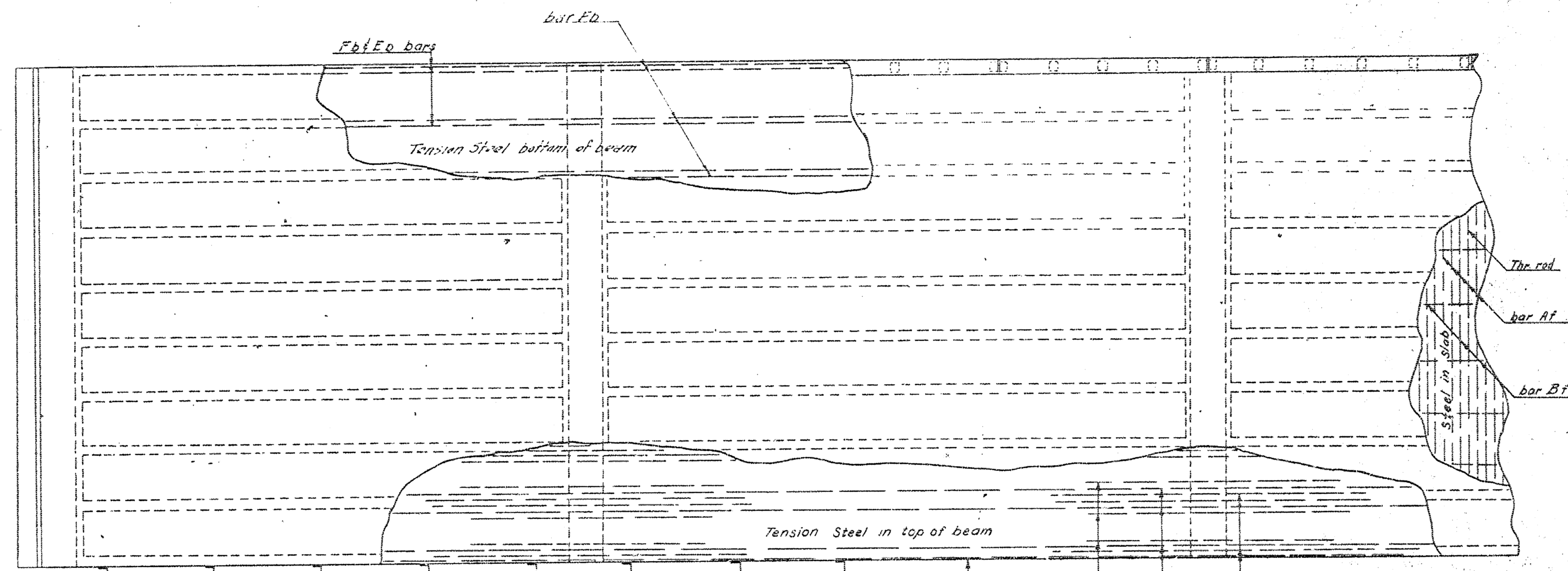
GENERAL NOTES
 Design: According to AASHTO Specifications, Edition of 1945 H-20-44 Loading; $f_c = 20,000$ psi; $f_s = 1,000$ psi.
 Soundings: Taken by SEDGWICK COUNTY with 3" jet.
 Piling: Concrete piling to be driven to a computed resistance of 28 tons per pile.
 Concrete: Use Class A(AE) concrete thruout. Bevel all exposed edges with a 3" triangular mauling. Contractor shall use preformed metal forms owned by SEDGWICK COUNTY.
 Forms: To be constructed by SEDGWICK COUNTY or others. No earthwork is to be considered a part of this project except at pier locations in channelway.

GENERAL CONSTRUCTION NOTES
 Timber cribbing at centerline of each span on this project will be required.
 One set of short forms and four sets of long forms are available for this project. Since the concrete in a full span ahead of any forms to be removed must have attained its design strength before removal of these forms, it is suggested that high-early strength cement be used.
 Forms for this project shall be picked up by Contractor at the SEDGWICK COUNTY YARDS, 1015 Stillwell, Michik and returned to this location unless otherwise instructed by the Engineer. (See "Special Provisions" in Specifications & Proposal Booklet.)
 Since the speed and simplicity of this project will be greatly increased if construction is well underway before the waterway and levees are constructed, work on forming of piling must start within two weeks and pile driving must start within three weeks after the contract is let. A French 5'x4'x28" to be excavated before setting piling and backfilled before any form work for caps proceeds at each pier location in channelway. Excavation and backfilling not to be paid for directly, but shall be included in the unit price bid for concrete piling.

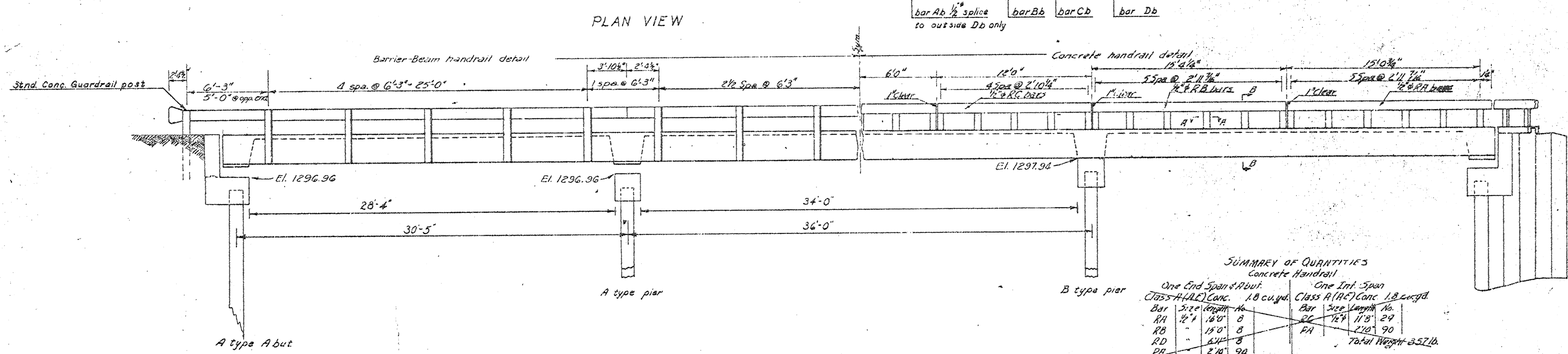
CONSTRUCTION LAYOUT					
BRIDGE NO. 628-23-1669					
PREPARED BY SEDGWICK COUNTY ENGINEERING DEPT. RUFUS S. KIRK — COUNTY ENGINEER					
REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	1" = 20'	PRELIM	PRELIM		4
		DATE	4-53		
	PLANFILE	TOTAL SHEETS	8		

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 A(AC) concrete used throughout.
 Bavel all exposed edges with a $\frac{3}{8}$ " Δ molding unless otherwise noted. Forms shall be preformed steel "pan" used as directed by the Engineer in charge.
 Guardrail: To be of standard barrier beam or concrete as shown on Construction Layout. Concrete rail to be constructed after the removal of deck forms.



PLAN VIEW

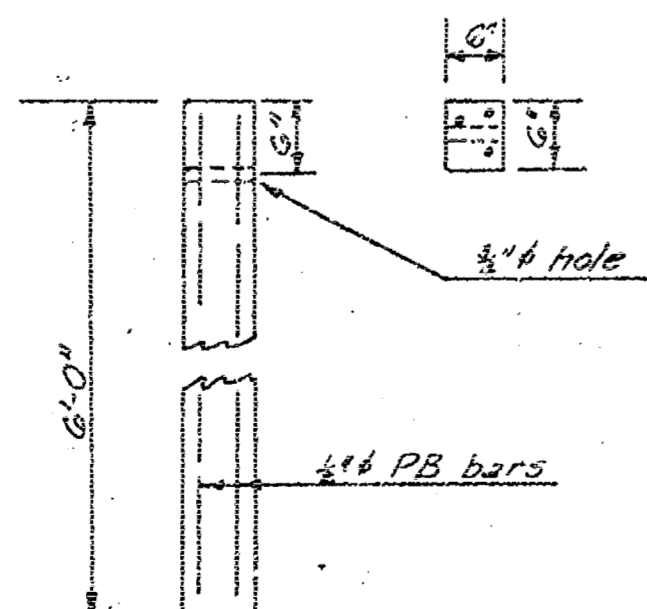


SUMMARY OF QUANTITIES

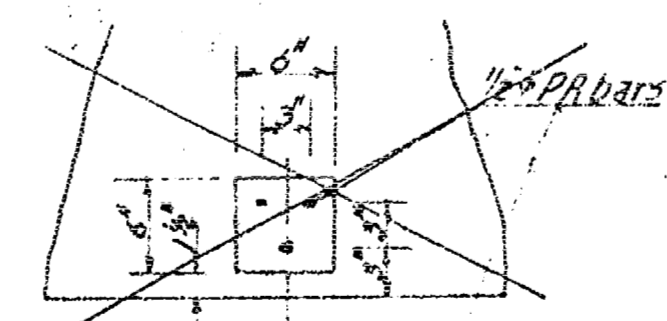
One End Span + Abut		One Int. Span	
Bar	Qty	Bar	Qty
RA	180	RA	178
RB	180	RB	178
RD	210	RD	210
RE	210	RE	210
Total Weight 373 lb.		Total Weight 373 lb.	

SUMMARY OF QUANTITIES
(ONE GUARDRAIL POST)

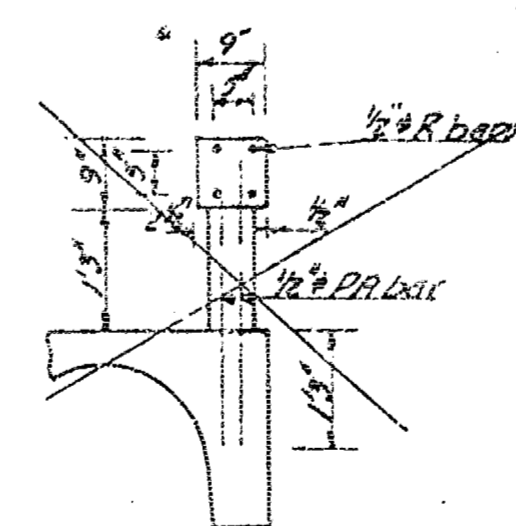
Class	No.	Size	Length	Total Wt.
Class A(AC) Conc.	0.056	CY		
Bar	3	2	5'-0"	11.4 lb.



STANDARD GDR. POST DETAIL
As Required



SECTION AA



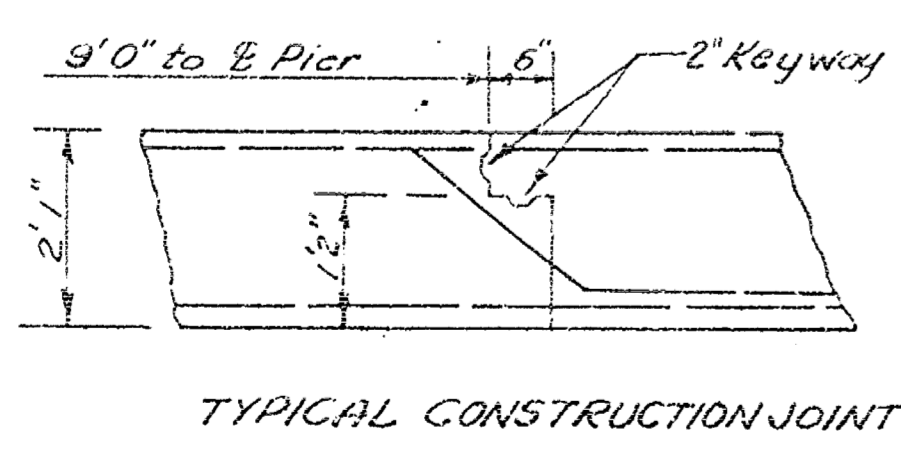
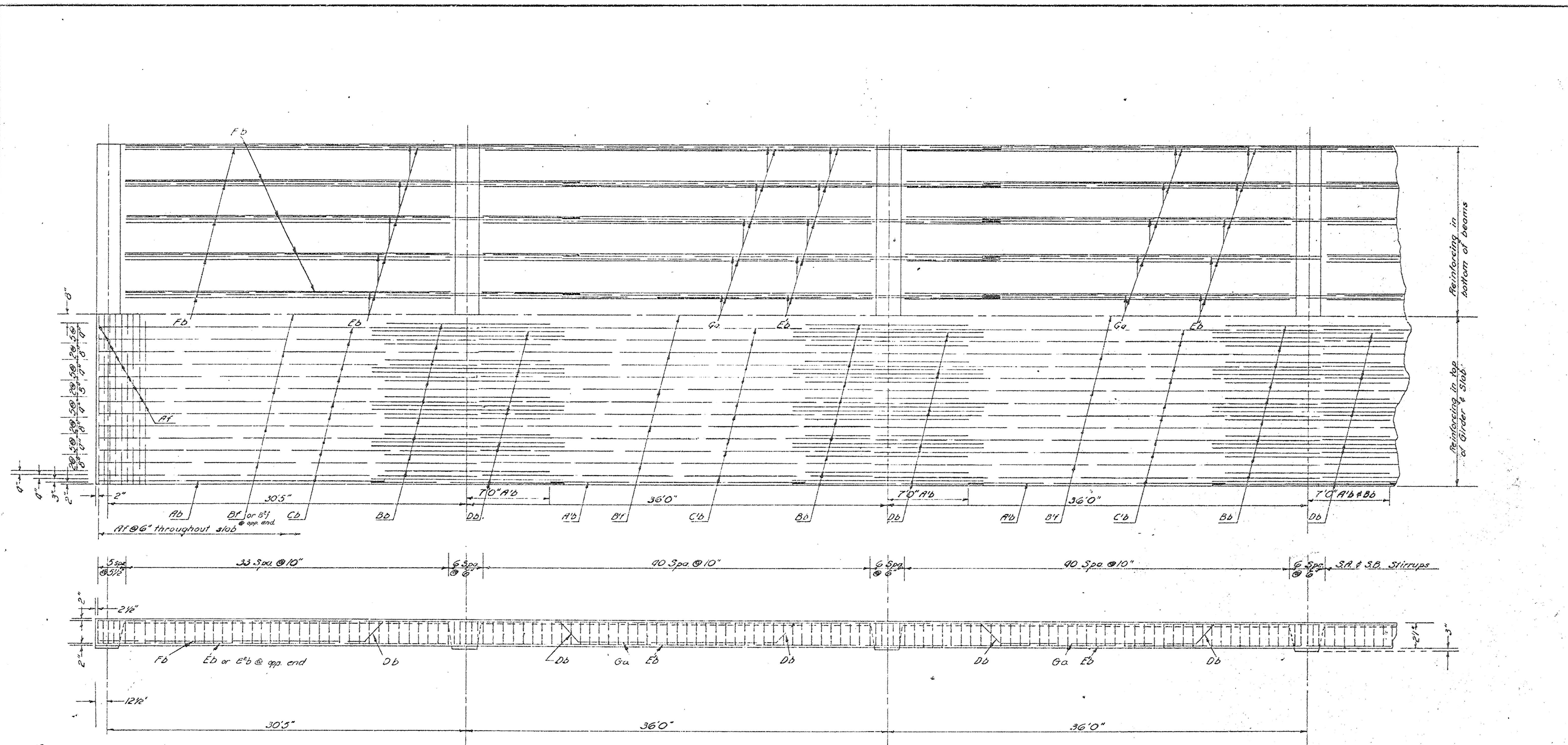
SECTION BB

Note: PB bars to be placed immediately after slab screeding.

RE. CONC. MODIFIED T-BEAM BRIDGE
BRIDGE NO. 628-23-1669

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

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
4-53 N.F.	1/4" = 1'	R. R. J.	C. D. H.		5
		DATE	9-50	9-18-60	
		PLANS		TOTAL SHEETS	8



SUMMARY OF QUANTITIES

30.5' - 13 @ 36' - 30.5' Continuous Spans; 27'-1\"/>

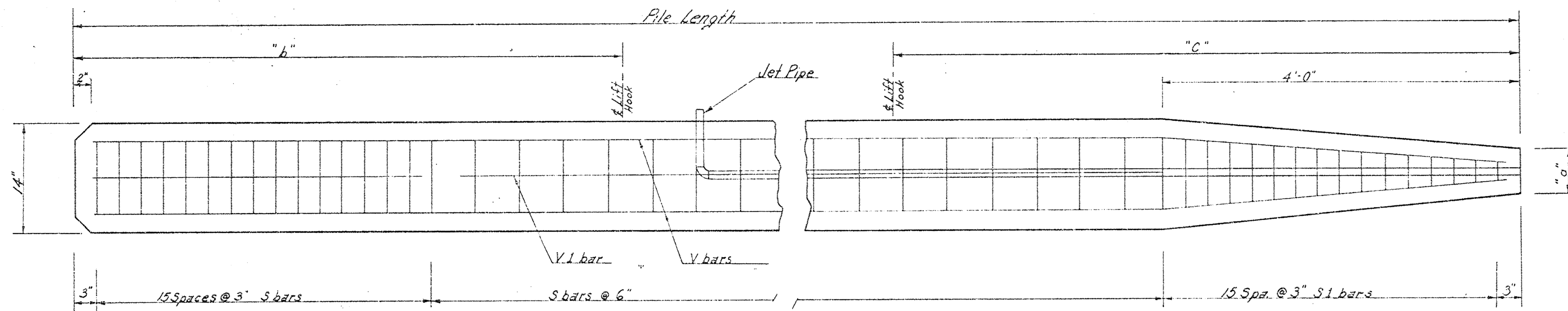
Bar	No.	Size	Length	Concrete Class (Pile)	Cu. Yd.	Metal Handrail	1,082	Lin. Ft.
A1	10	#10	10	10	10	10	10	10
A2	10	#10	10	10	10	10	10	10
B1	10	#10	10	10	10	10	10	10
B2	10	#10	10	10	10	10	10	10
C1	10	#10	10	10	10	10	10	10
C2	10	#10	10	10	10	10	10	10
D1	10	#10	10	10	10	10	10	10
D2	10	#10	10	10	10	10	10	10
E1	10	#10	10	10	10	10	10	10
E2	10	#10	10	10	10	10	10	10
F1	10	#10	10	10	10	10	10	10
F2	10	#10	10	10	10	10	10	10
G1	10	#10	10	10	10	10	10	10
G2	10	#10	10	10	10	10	10	10
Stirrups	10	#10	10	10	10	10	10	10
Reinforcing Steel	10	#10	10	10	10	10	10	10
Structural Steel	10	#10	10	10	10	10	10	10
40\"/>								

REINFORCING DETAIL
BRIDGE NO. 628-23-1669

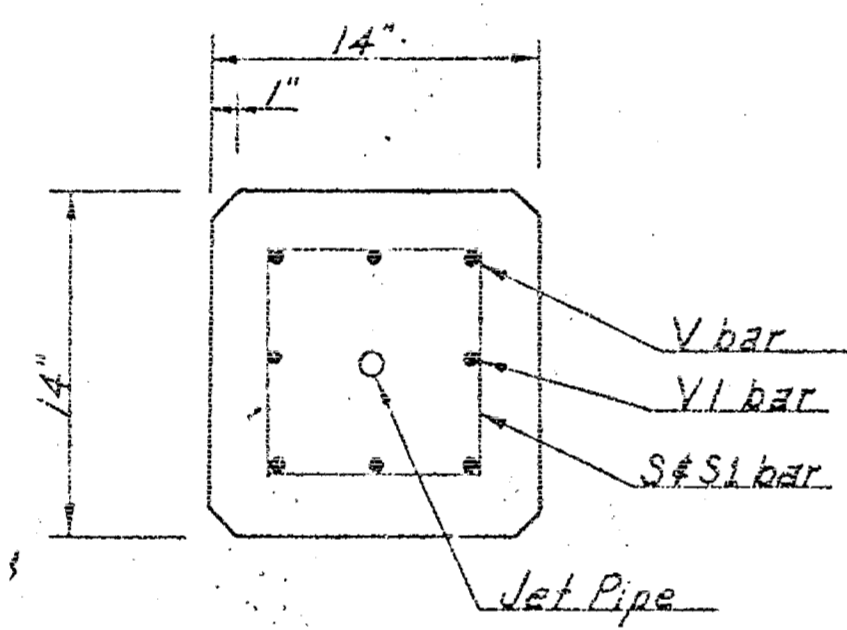
PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
RUFUS S. KIRK — COUNTY ENGINEER

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
4-33 HLF	1/8" = 1'-0"	M.E.S.			7
DATE					TOTAL SHEETS 8
PLANFILE					

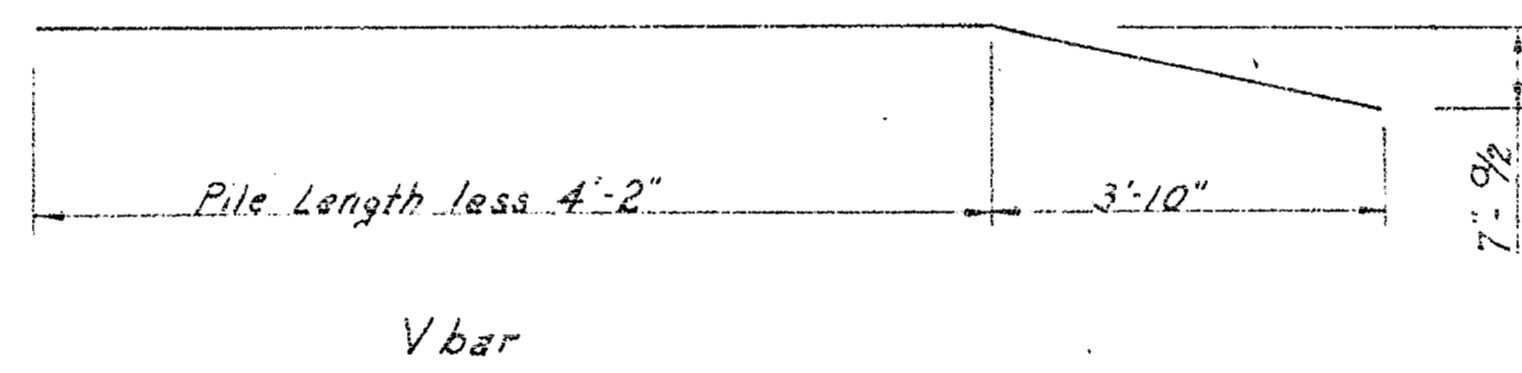
Pub. Rd. Div. No.	State	Project No.	Fiscal Year	Sheet No.	Total Sheets
5	Kansas		1951		



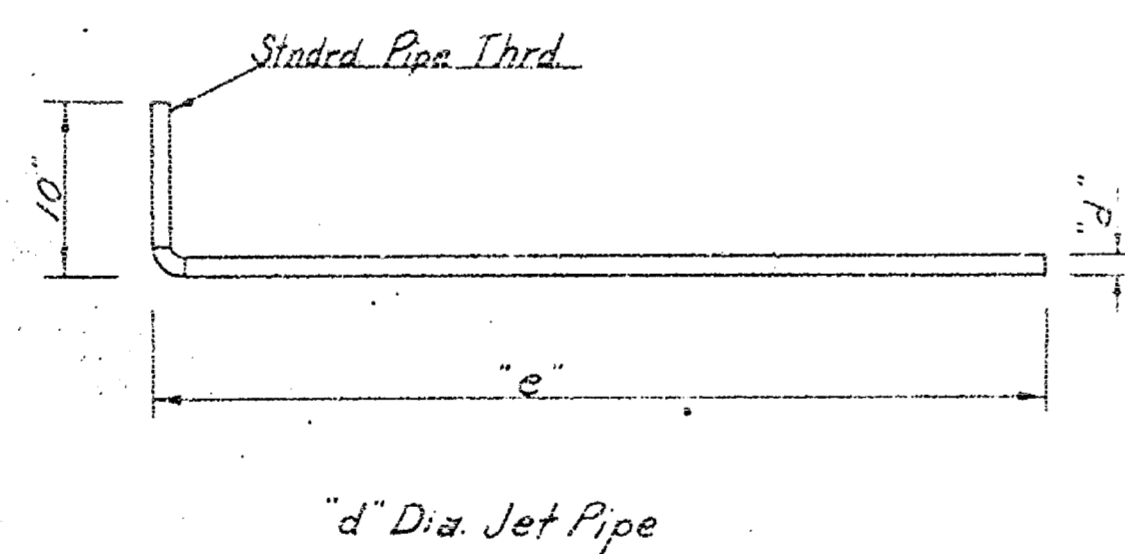
ELEVATION



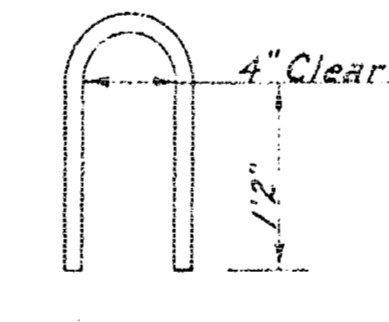
END VIEW



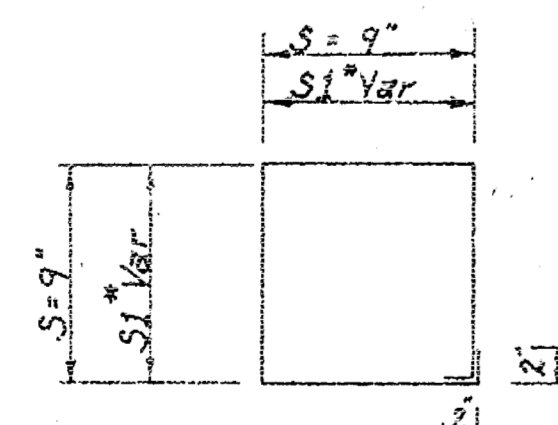
V bar



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 ARSHO Specifications, 1949 Edition. $f_c = 12,000$ psi. $f_s = 1,000$ psi.
 Concrete: Use class A throughout if piling are to be encased or otherwise protected. Use class B (AE) 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 18" of hook location.

Pile Length	20'-6"	24'-6"	28'-6"	32'-6"	36'-6"	40'-6"
Bar	#7 20'-6" 4	#7 24'-2" 4	#7 28'-2" 4	#7 32'-2" 4	#6 36'-2" 4	#6 40'-2" 4
V.I.	#2 3'-4" 41	#2 3'-4" 49	#2 3'-4" 57	#2 3'-4" 65	#2 3'-4" 73	#2 3'-4" 81
S1	#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	6"	6"	6"	6"	6"	6"
"a"	6'-0"	7'-2"	8'-4"	9'-6"	10'-8"	11'-10"
"b"	8'-0"	9'-2"	10'-4"	11'-6"	12'-8"	13'-10"
"c"	8'-0"	9'-2"	10'-4"	11'-6"	12'-8"	13'-10"
"d"	14"	14"	14"	14"	14"	14"
"e"	28"	32"	36"	40"	44"	48"
Concrete	74 Cu. Yds.	114 Cu. Yds.	154 Cu. Yds.	194 Cu. Yds.	234 Cu. Yds.	274 Cu. Yds.
Rebar	209 Lbs.	247 Lbs.	284 Lbs.	321 Lbs.	358 Lbs.	395 Lbs.

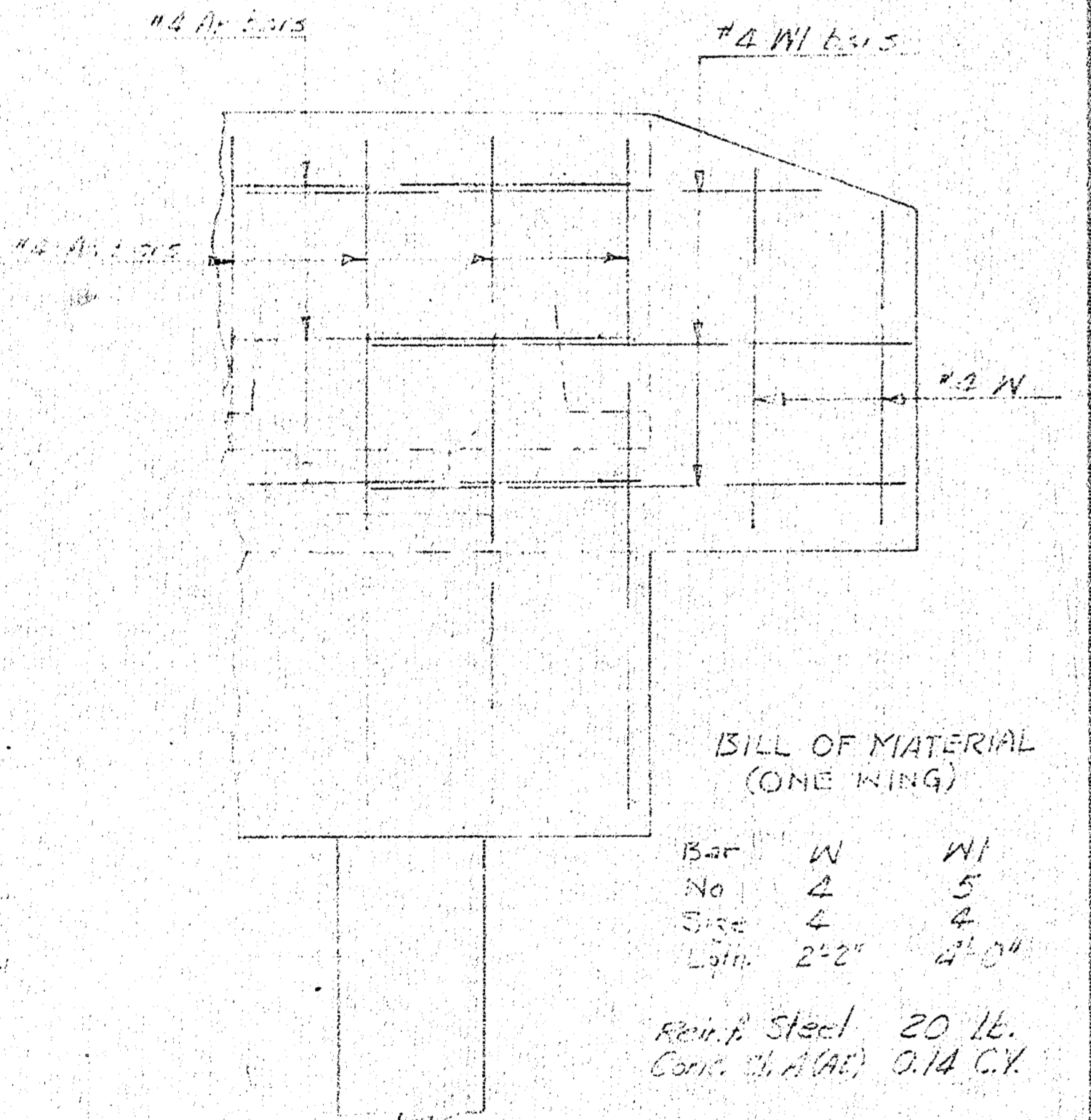
Pile Length	37'-0"
Bar	#6 36'-8" 4
V.I.	#2 3'-4" 74
S1	#2 Var 15
Lift Hook	#8 3'-0" 2
Jet Pipe	10"
"a"	10'-10"
"b"	11'-11"
"c"	11'-11"
"d"	14"
"e"	28"
Concrete	182 Cu. Yds.
Rebar	482 Lbs.

14" x 14" Re. Conc. Piling
 BRIDGE NO. 628-23-1669

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

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

BY H. F. F. DATE 10-8-53 SUBJECT Canal Levee Wing SHEET NO. 1 OF 3
 CHECKED BY DATE ERI. No. 628-23-1667 JOB NO.



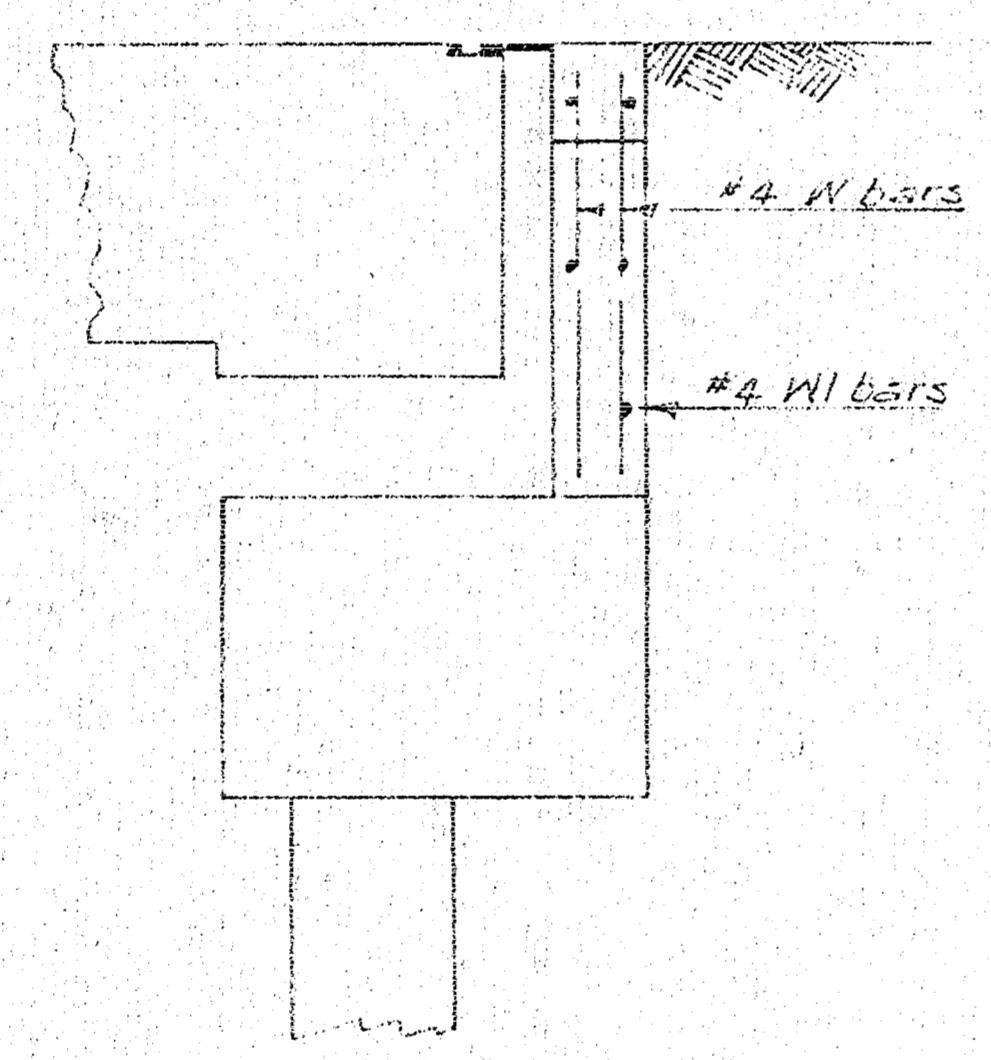
BILL OF MATERIAL
(ONE WING)

Bar No.	W	WI
1	4	5
2	4	2
3	2'-2"	4'-0"

Rein. Steel 20 LL.
 Conc. (14.0%) 0.14 C.Y.

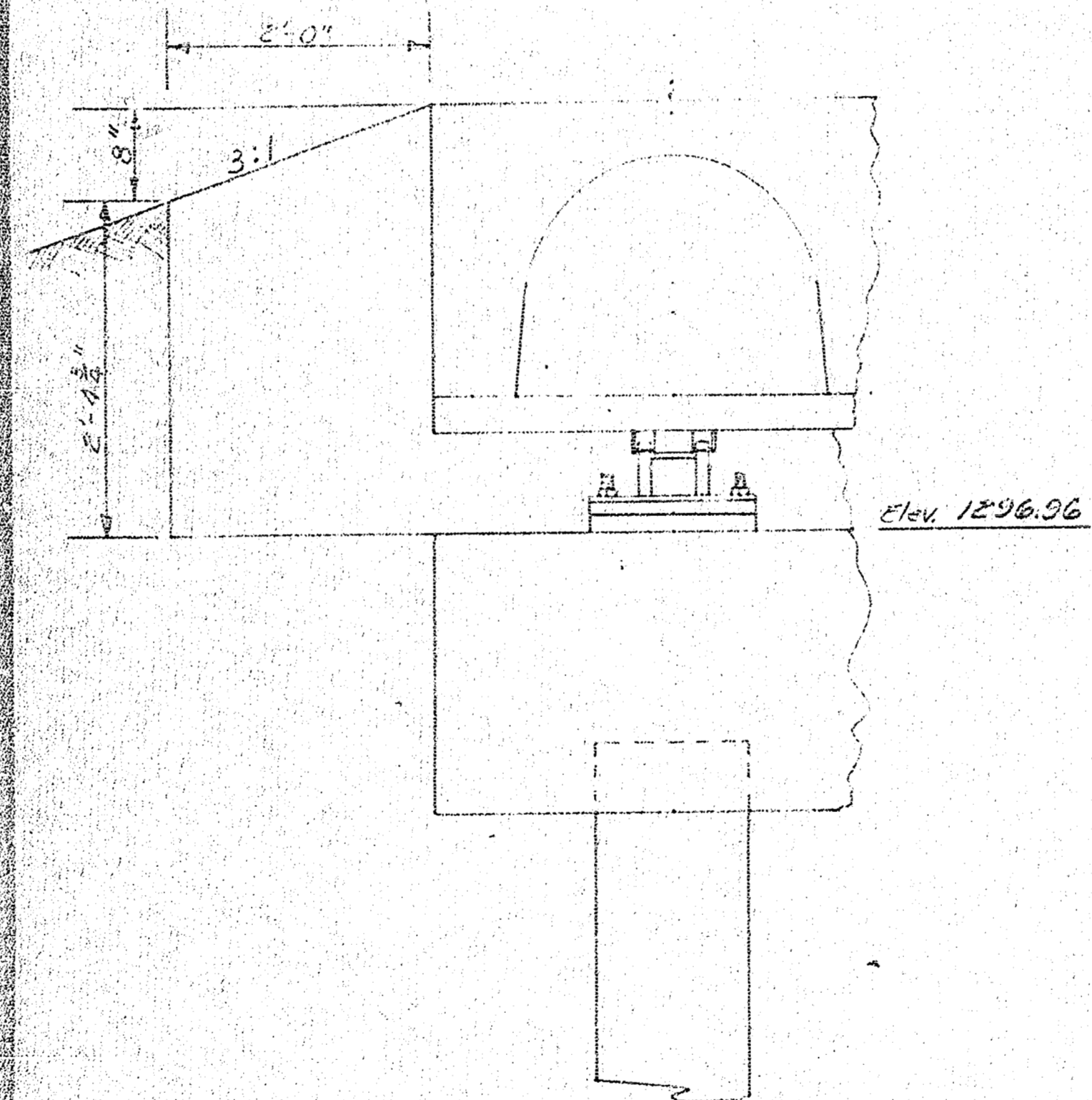
ELEVATION & SECTION (LEVEE SIDE)
 Scale 1/2" = 1'-0"

BY H. F. F. DATE 10-8-53 SUBJECT Canal Levee Wing SHEET NO. 3 OF 3
 CHECKED BY DATE ERI. No. 628-23-1667 JOB NO.



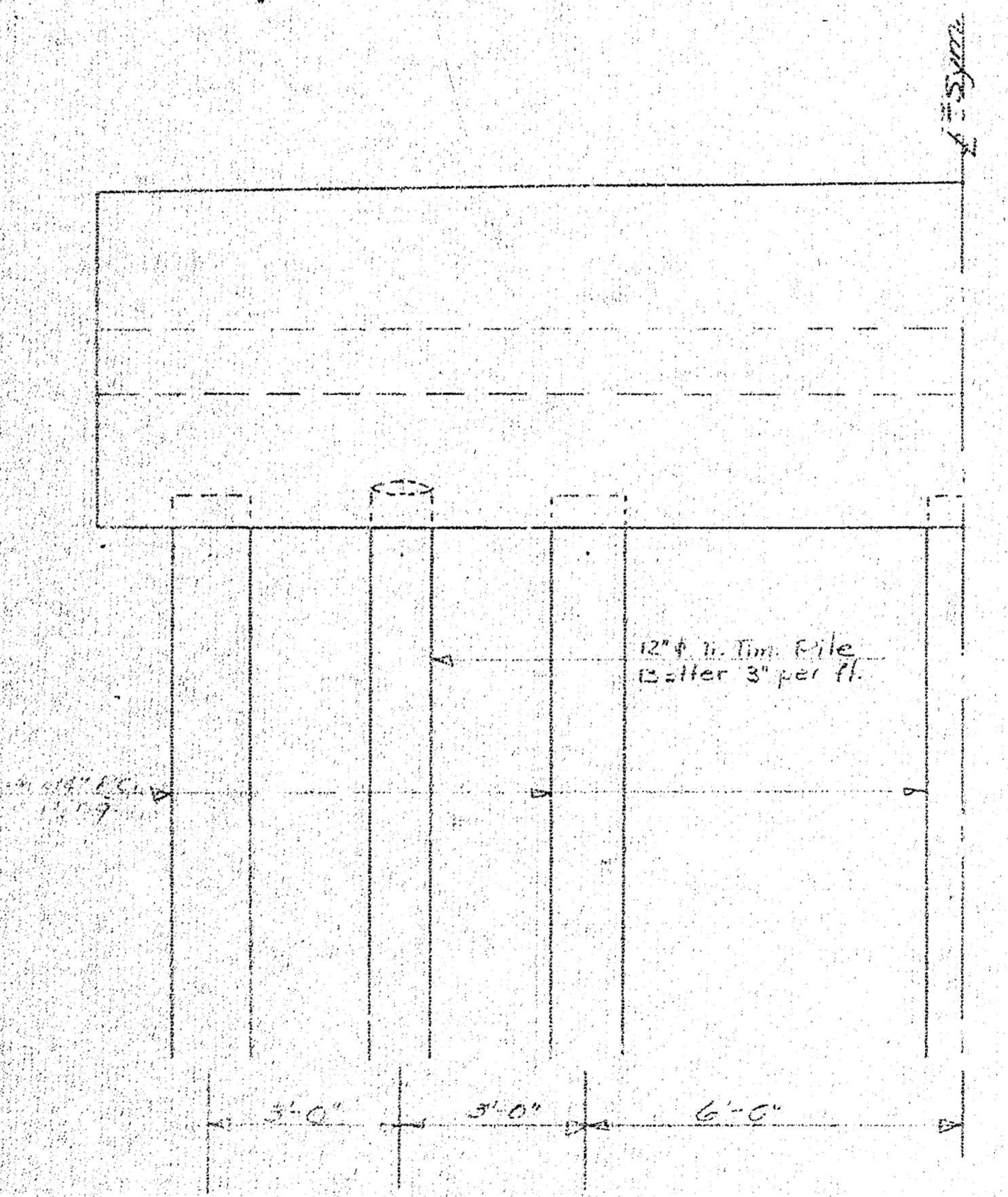
SIDE ELEVATION (SHOWING STEEL
 IN WING ONLY)
 Scale 1/2" = 1'-0"

BY H. F. F. DATE 10-8-53 SUBJECT Canal Levee Wing SHEET NO. 2 OF 3
 CHECKED BY DATE ERI. No. 628-23-1667 JOB NO.

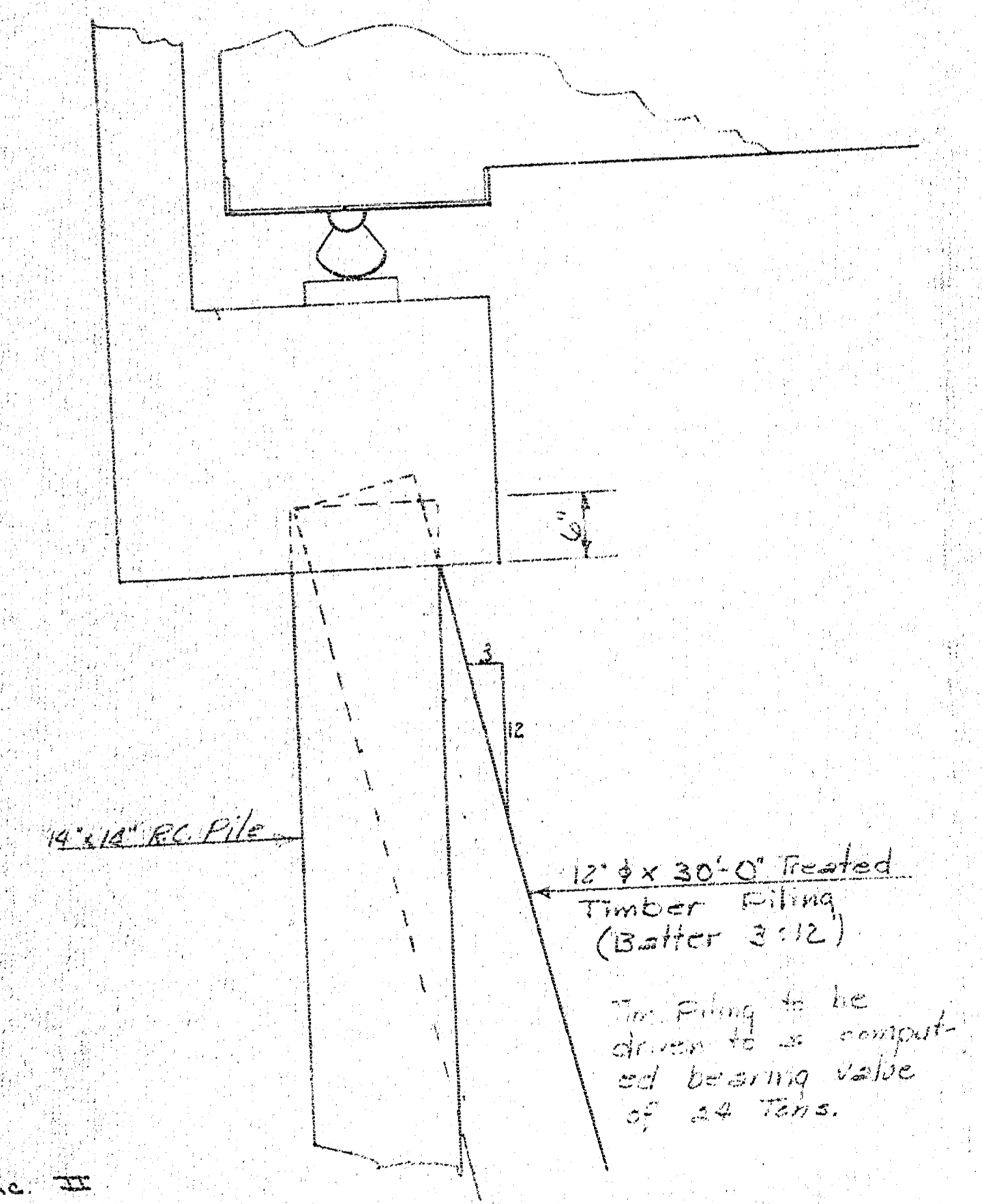


ELEVATION (WATER SIDE)
 Scale 1" = 1'-0"

BY H. F. F. DATE 11-53 SUBJECT Batter Piling in SHEET NO. 1 OF 1
 CHECKED BY DATE Alignments 628-23-1667 JOB NO.
 2 Ea. Abut.



BY H. F. F. DATE 9-1-53 SUBJECT Batter Piling in SHEET NO. 1 OF 2
 CHECKED BY DATE Alignments 628-23-1667 JOB NO.
 2 Ea. Abut.



Enc. II