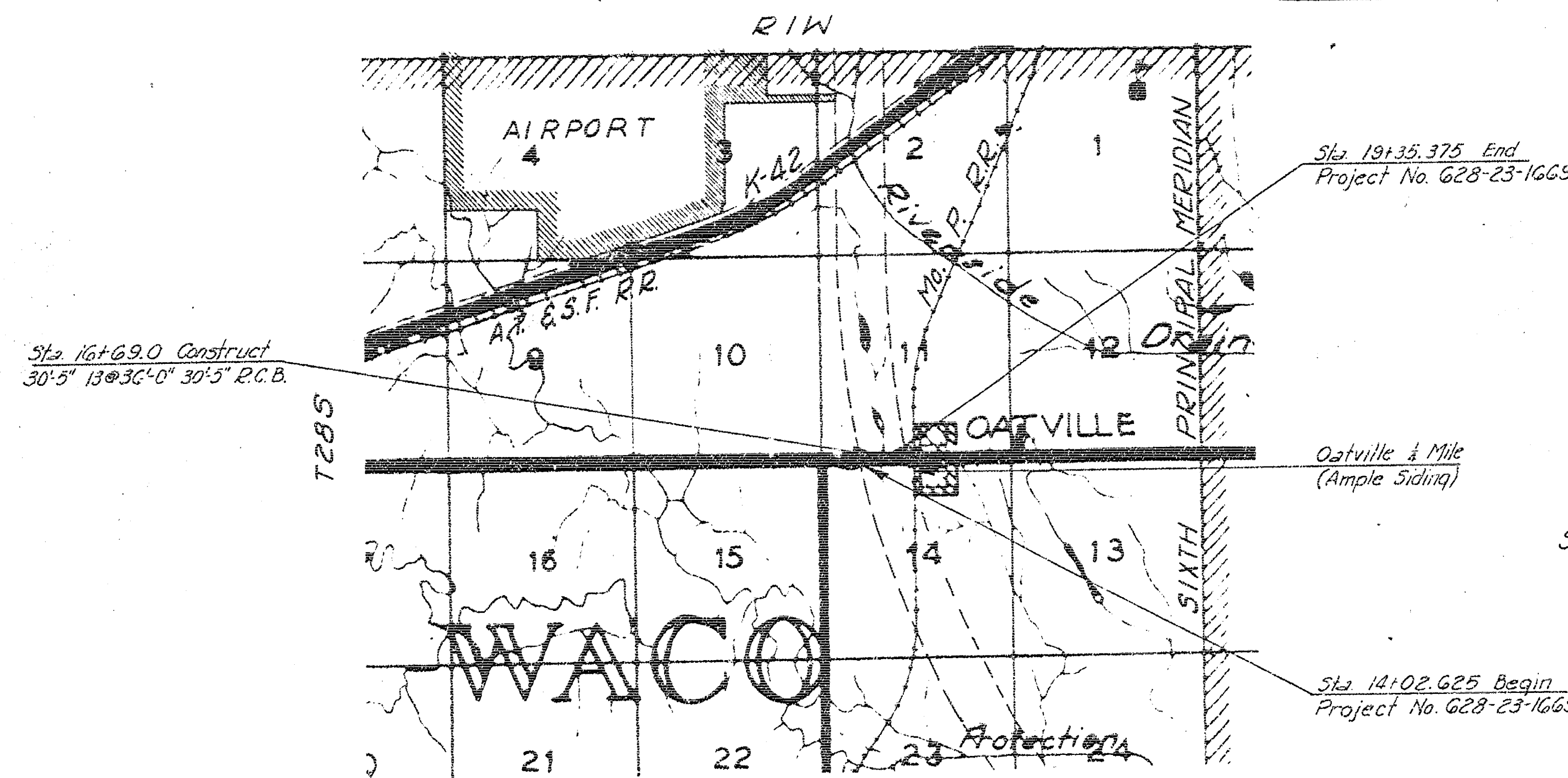
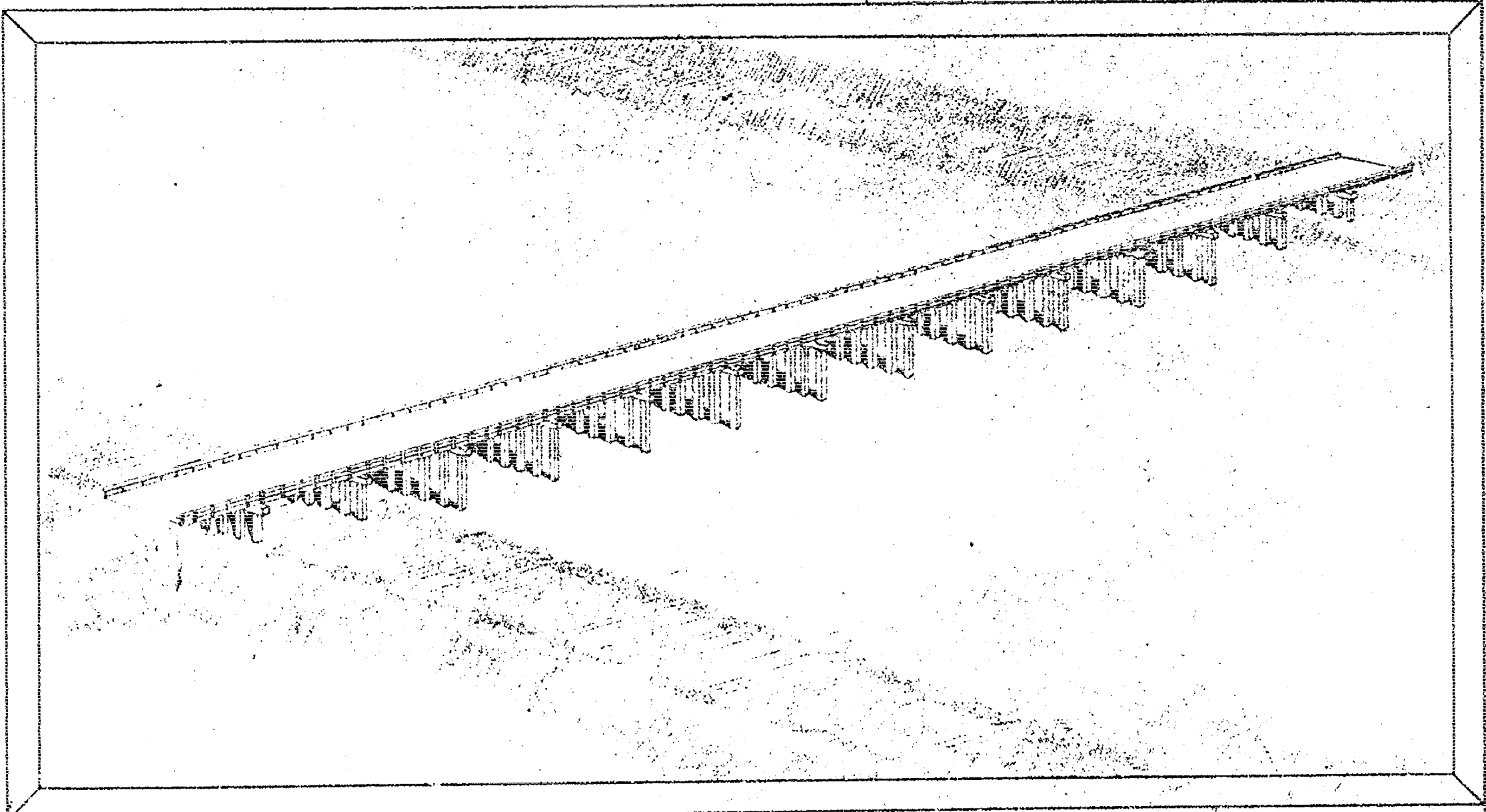


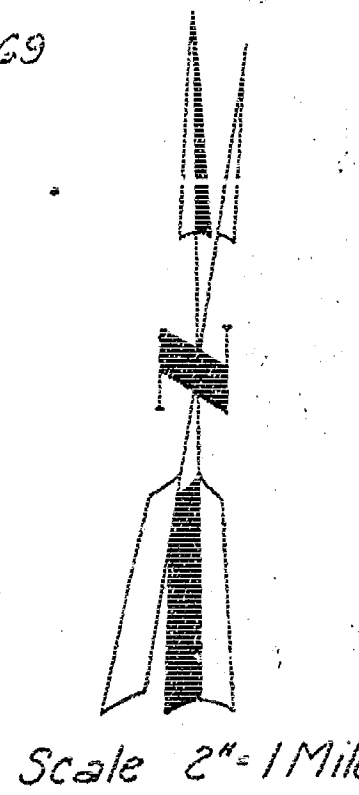
STATE OF KANSAS
STATE HIGHWAY COMMISSION
SEDGWICK COUNTY
PLAN AND PROFILE

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. 0.1009 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:
COUNTY ENGINEER
DATE April 20, 1953

APPROVED:
COUNTY COMMISSIONER
DATE

RECOMMENDED FOR APPROVAL DATE

ENGINEER OF SECONDARY ROADS
STATE HIGHWAY COMMISSION OF KANSAS

APPROVED DATE

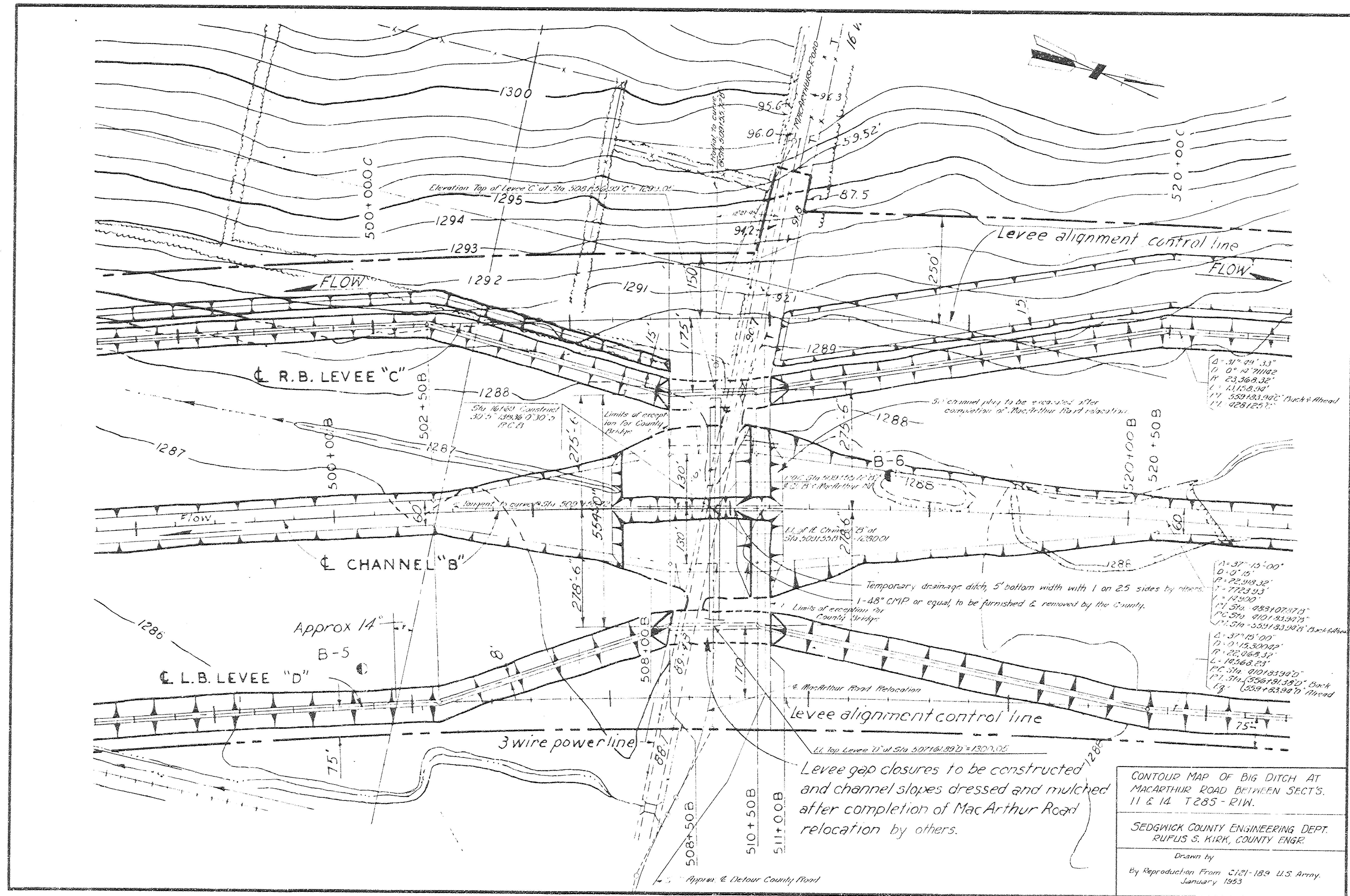
STATE HIGHWAY ENGINEER
STATE HIGHWAY COMMISSION OF KANSAS

RECOMMENDED FOR APPROVAL DATE

DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

APPROVED DATE

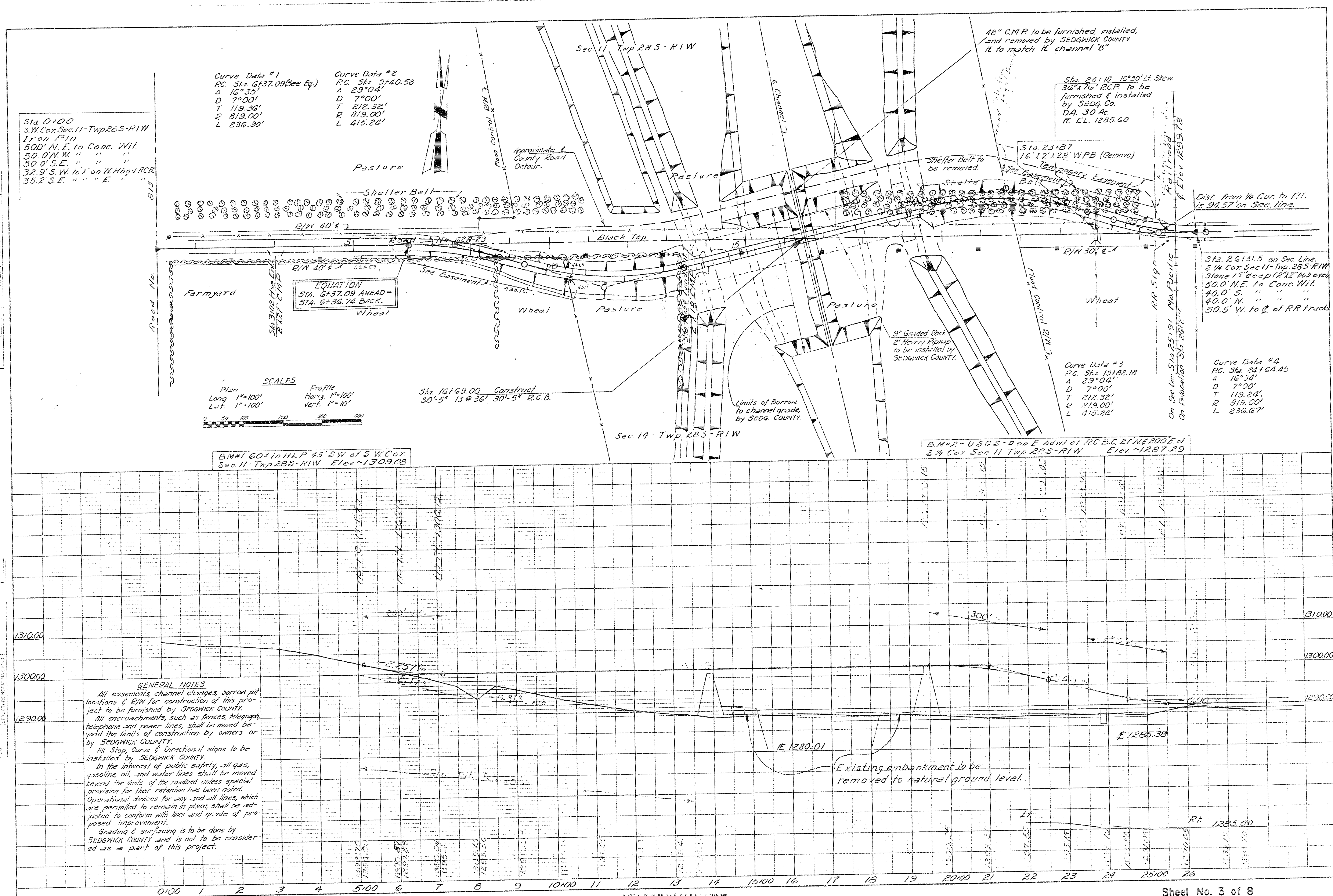
DIVISION ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

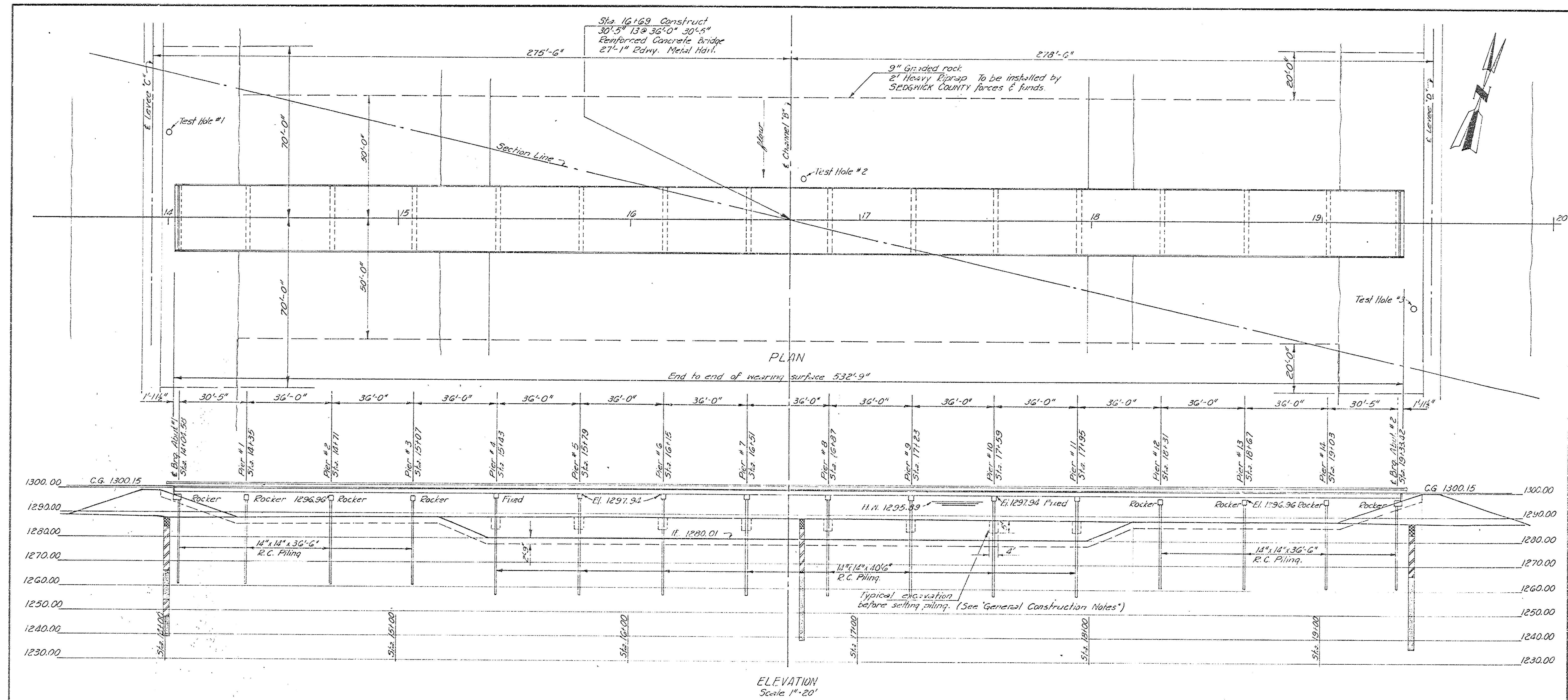


Sheet #1 of 3

PLAN
 SHEET NO. 3 OF 8
 DATE: 10/1/1914
 BY: J. H. HARRIS
 CHECKED: J. H. HARRIS
 APPROVED: J. H. HARRIS

PROFILE
 SHEET NO. 3 OF 8
 DATE: 10/1/1914
 BY: J. H. HARRIS
 CHECKED: J. H. HARRIS
 APPROVED: J. H. HARRIS





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.

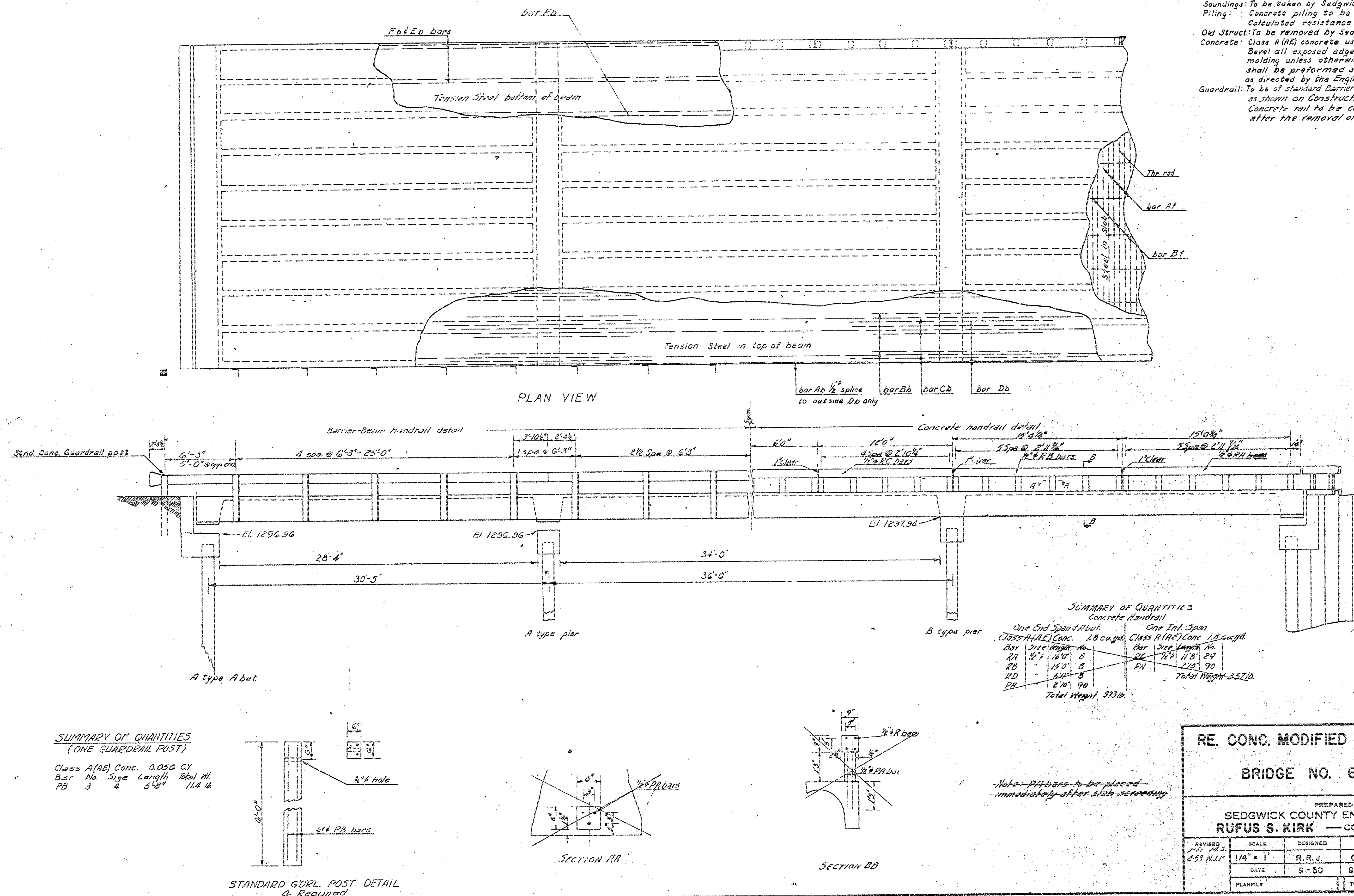
GENERAL NOTES
 Design: According to AASHTO Specifications, Edition of 1949 H-20-44 Loading; $f_c = 20,000$ psi; $f_s = 100,000$ psi.
 Soundings: Taken by SEDGWICK COUNTY with 3" jet.
 Piling: Concrete piling to be driven to a computed resistance of 28 tons per pile.
 Concrete: Use Class A(AE) concrete thruout. Bevel all exposed edges with a 3" triangular mauling.
 Forms: 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 except at pier locations in channelway.

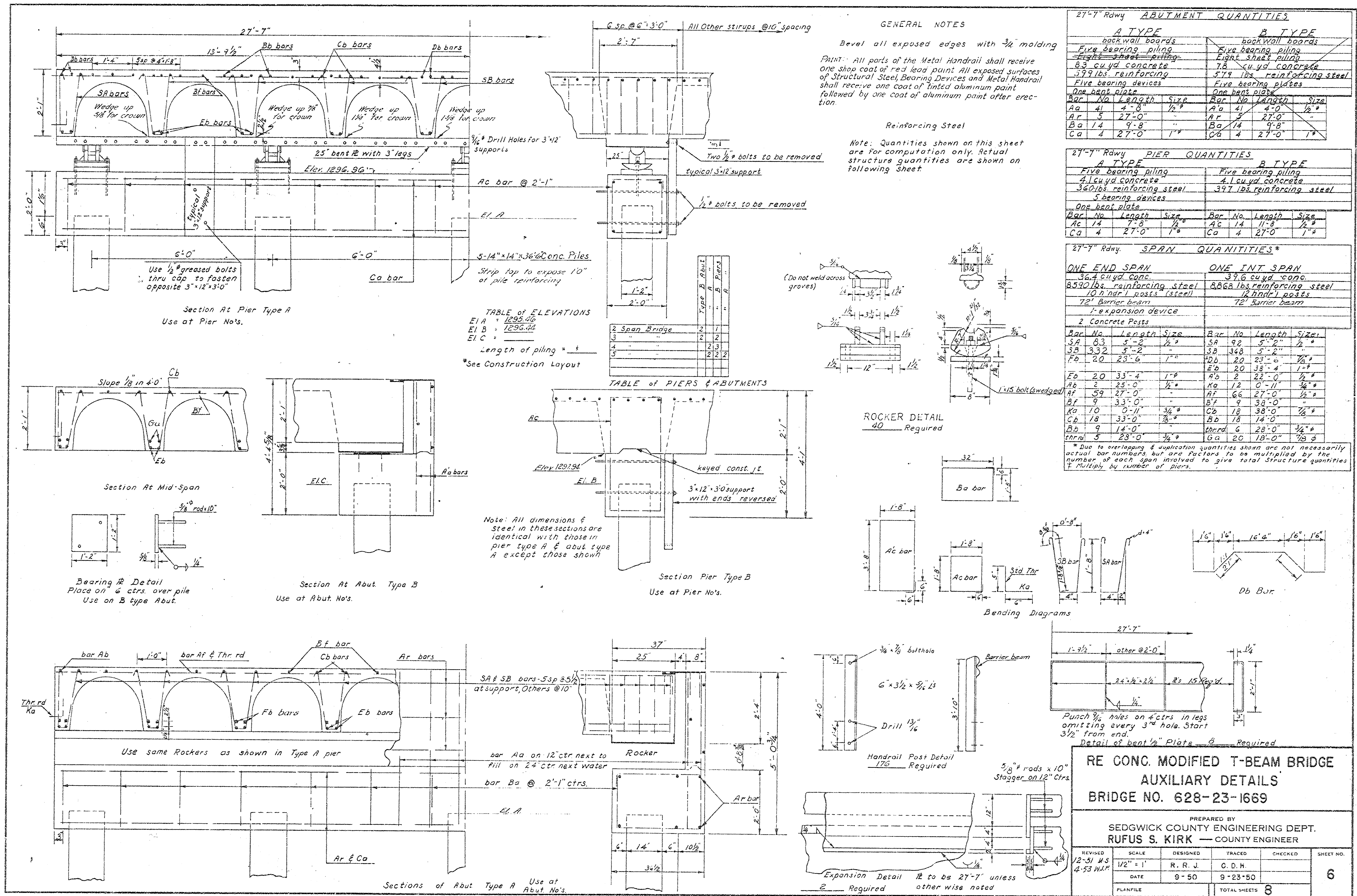
GENERAL CONSTRUCTION NOTES
 Timber cribbing at centerline of each span on this project will be required.
 One set of short forms and four sets of long forms are available for this project. Since the concrete in a full span ahead of any forms to be removed must have attained its design strength before 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 14203, 1015 Shilwell, Mich. 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 trench 5' x 4' x 28" 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.

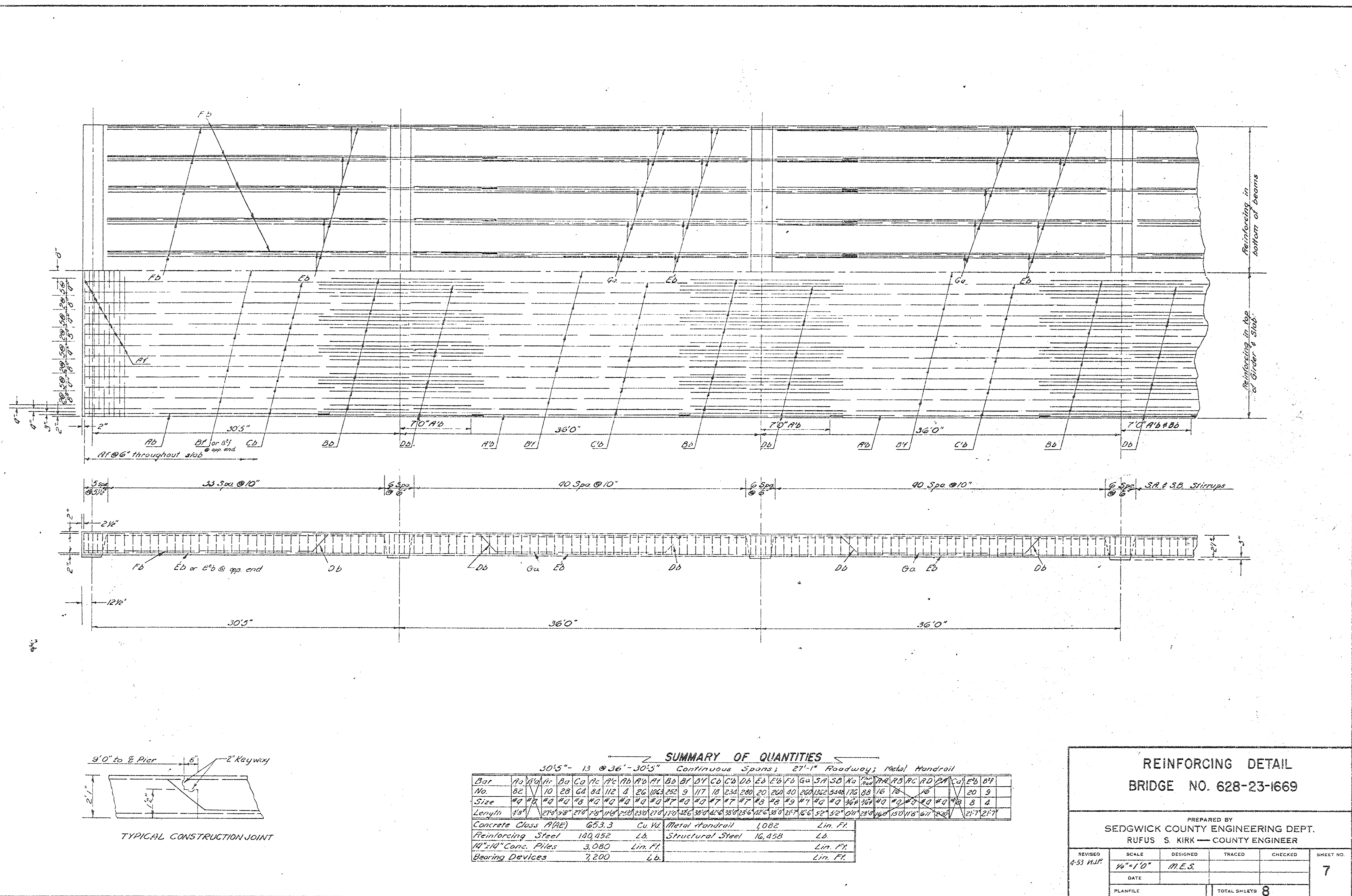
CONSTRUCTION LAYOUT					
BRIDGE NO. 628-23-1669					
PREPARED BY SEDGWICK COUNTY ENGINEERING DEPT. RUFUS S. KIRK — COUNTY ENGINEER					
REVISION	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	1" = 20'	PRELIM	PRELIM		4
	DATE	J-53			
	PLANFILE	TOTAL SHEETS			8

GENERAL NOTES

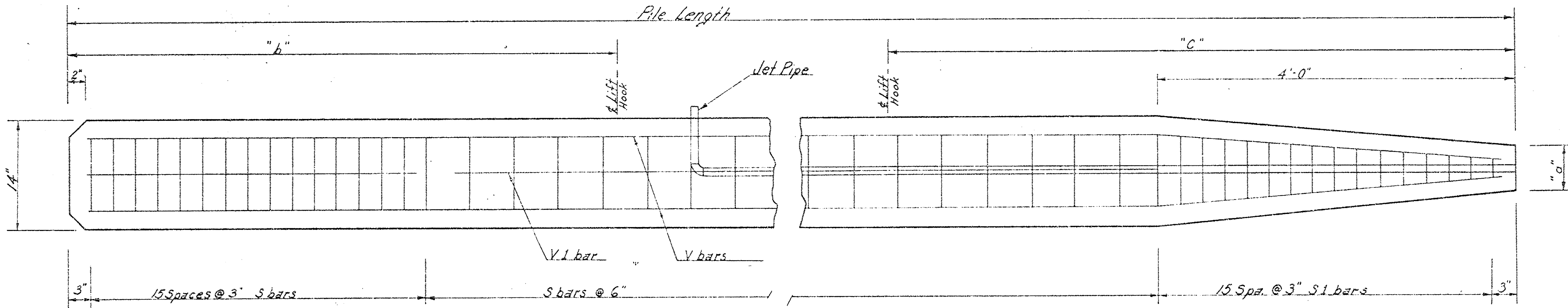
Design: Designed for H-20-44 loading AASHTO specifications. $f_c = 20,000$ psi, $f_s = 100,000$ psi.
 Soundings: To be taken by Sedgwick County.
 Piling: Concrete piling to be driven to a calculated resistance of 28 tons.
 Old Struct: To be removed by Sedgwick County.
 Concrete: Class A (AE) concrete used throughout.
 Bevel all exposed edges with a $\frac{1}{4}$ " 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.



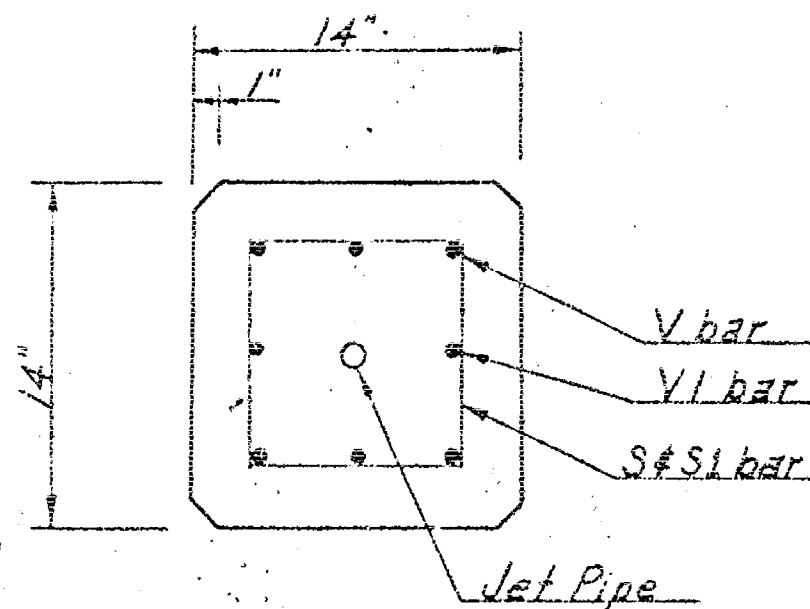




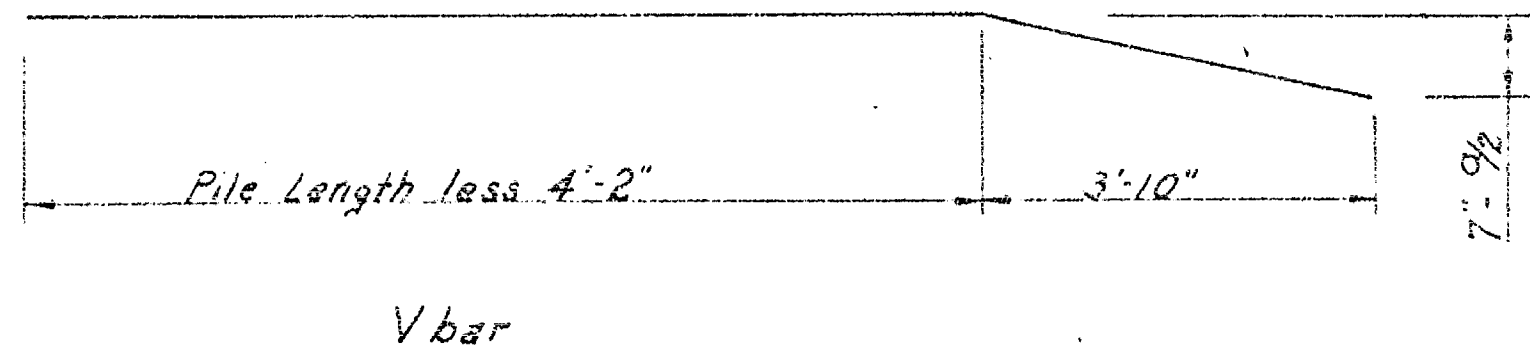
Pub. Rd. Div. No.	State	Project No.	Fiscal Year	Sheet No.	Total Sheets
5	Kansas		1951		



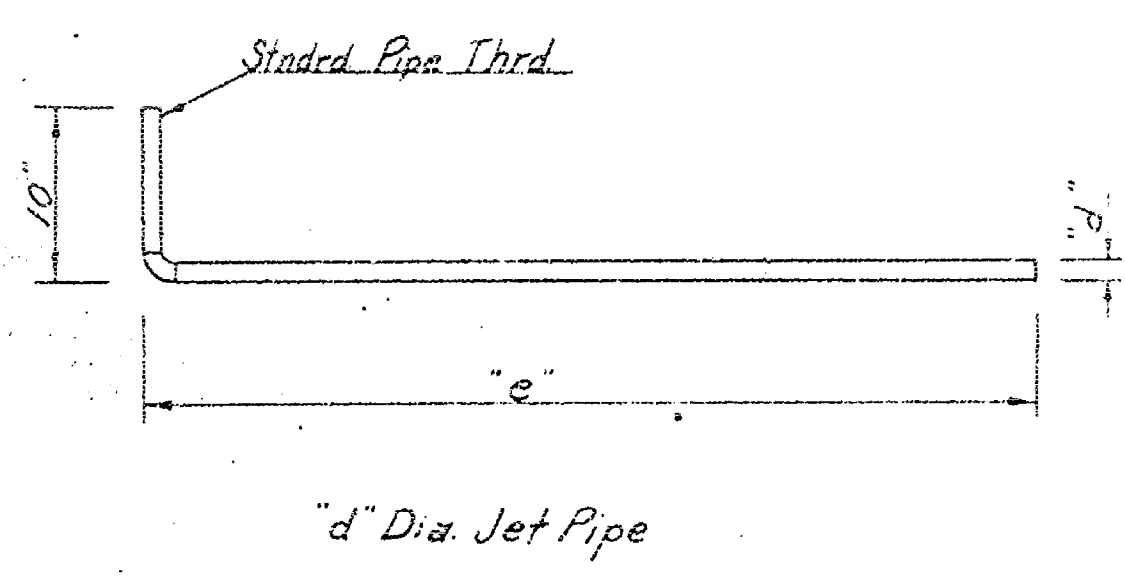
ELEVATION



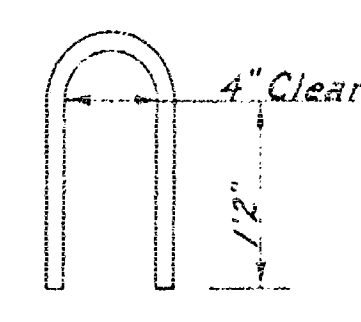
END VIEW



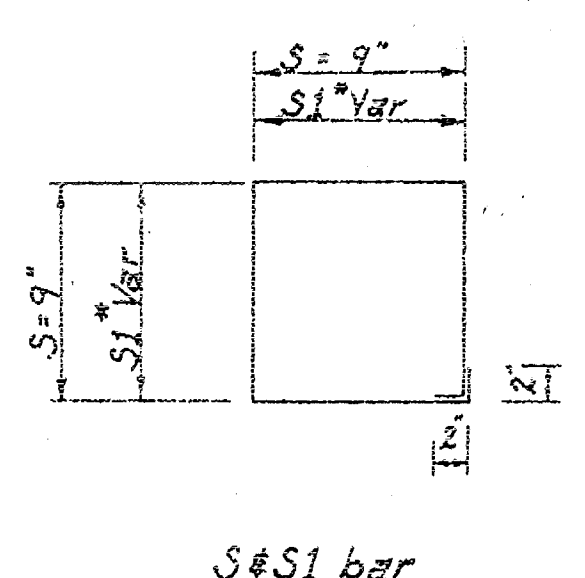
V bar



"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. $f_c = 12,000 \text{ psi}$, $f_s = 1,000 \text{ psi}$.
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	Size	Length	No.	Size	Length	No.
V	#7	20'-6"	4	#7	24'-6"	4
V.I.	#2	3'-4"	41	#2	3'-4"	49
S	#2	Var.	15	#2	Var.	15
S1	#2	Var.	15	#2	Var.	15
Lift Hook	#8	3'-0"	2	#8	3'-0"	2
Jet Pipe	#6	6"	1	#6	6"	1
"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"	8'-0"	9'-2"	10'-4"	11'-6"	12'-8"	13'-10"
"e"	8'-0"	9'-2"	10'-4"	11'-6"	12'-8"	13'-10"
"x"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"
Concrete	74 Cu. Yds.	114 Cu. Yds.	134 Cu. Yds.	155 Cu. Yds.	175 Cu. Yds.	195 Cu. Yds.
Rebar	209 Lbs.	247 Lbs.	284 Lbs.	321 Lbs.	472 Lbs.	524 Lbs.

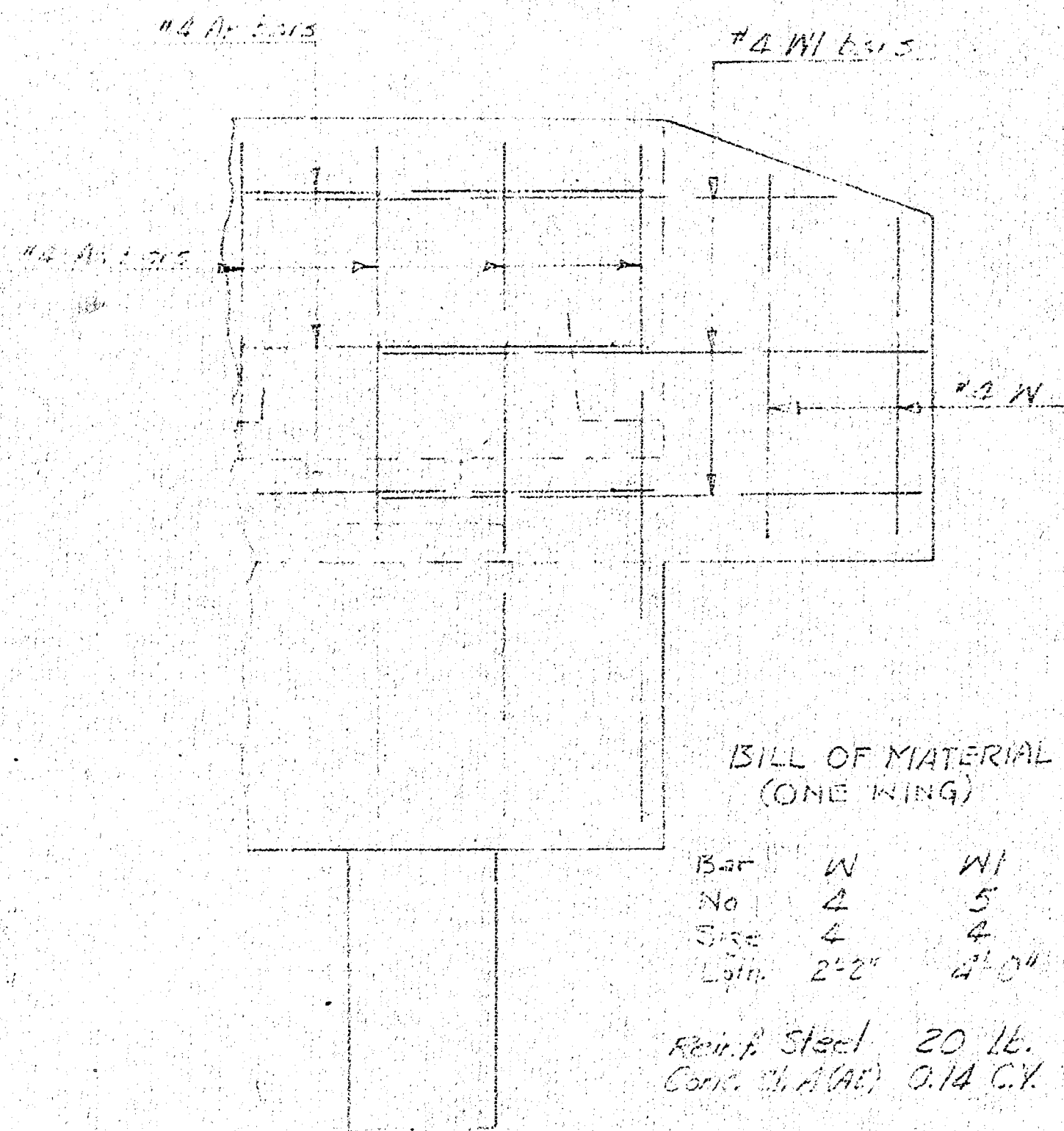
Pile Length	37'-0"					
Bar	Size	Length	No.	Size	Length	No.
V	#6	36'-8"	4			
V.I.	#6	33'-0"	4			
S	#2	3'-4"	74			
S1	#2	Var.	15			
Lift Hook	#8	3'-0"	2			
Jet Pipe	#6	6"	1			
"a"	10'					
"b"	10'-10"					
"c"	11'-11"					
"d"						
"e"						
"x"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"	3'-4"
Concrete	182 Cu. Yds.					
Rebar	482 Lbs.					

14"x14" Re. Conc. Piling
BRIDGE NO. 628-23-1669

PREPARED BY SEDGWICK COUNTY ENGINEERING DEPT. RUFUS S. KIRK — COUNTY ENGINEER				
REVISED	SCALE	DESIGNED	TRACED	CHECKED
		Schwab	Hauseman	
	DATE	12-51	1-52	
	PLANFILE		TOTAL SHEETS	8

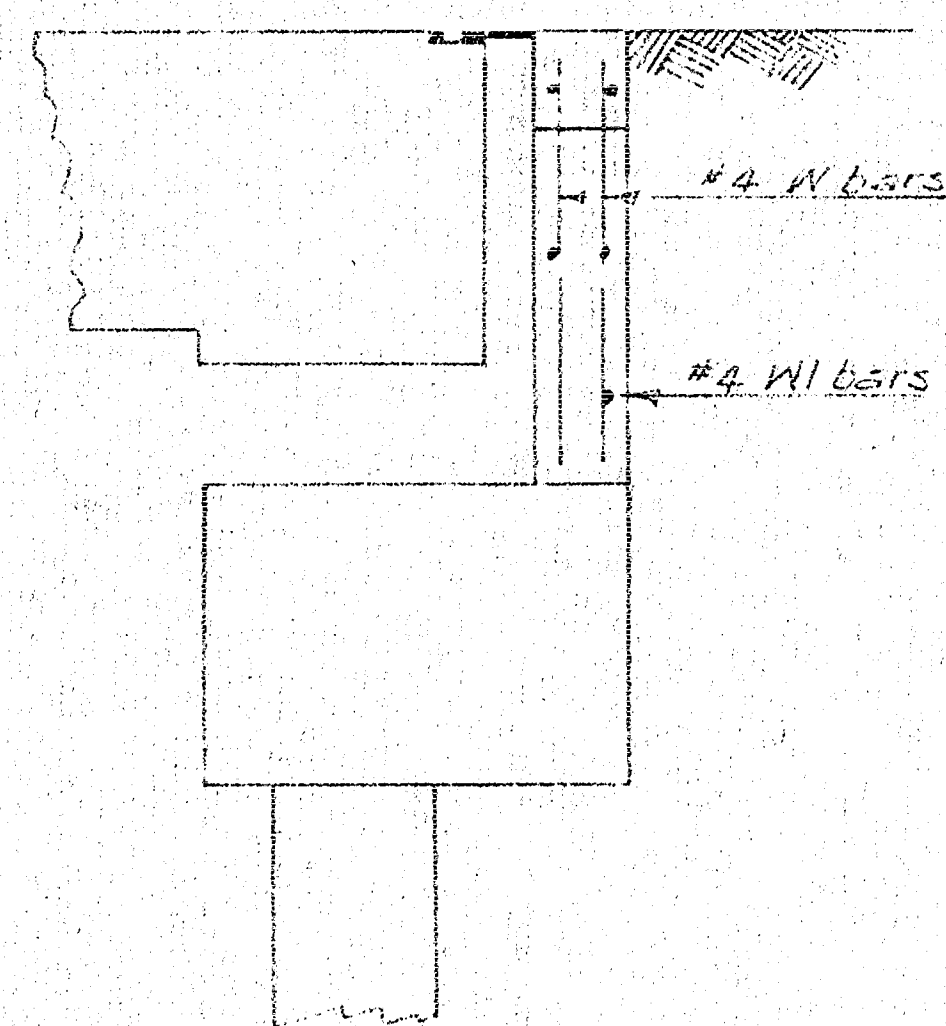
8

BY: H. W. F. DATE: 9-8-53 SUBJECT: Cantilever Wing SHEET NO. 1 OF 3
 CHECKED BY: DATE: ERI. No. 628-23-1667 JOB NO.



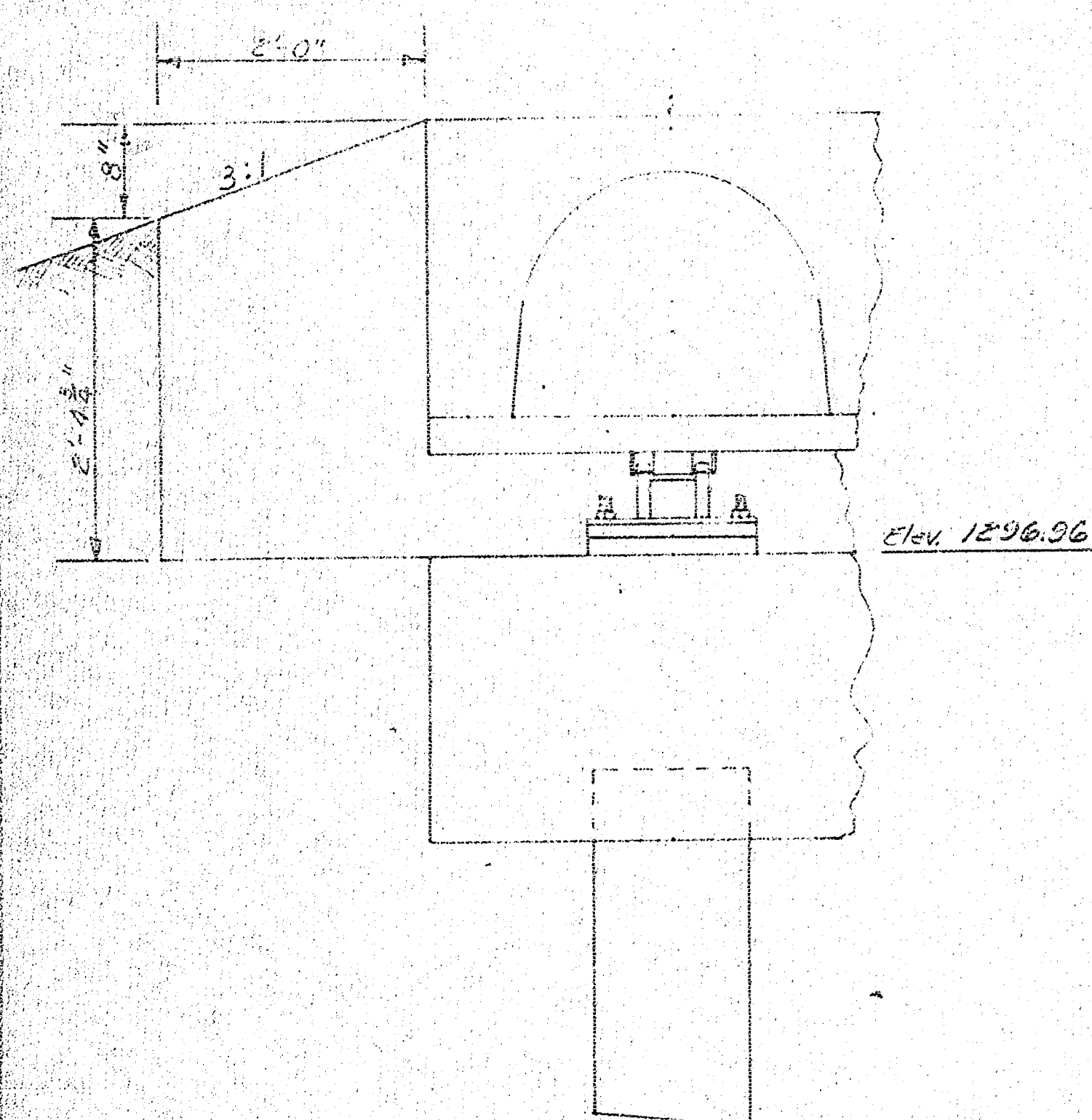
ELEVATION & SECTION (LEEVE SIDE)

BY: H. W. F. DATE: 9-8-53 SUBJECT: Cantilever Wing SHEET NO. 3 OF 3
 CHECKED BY: DATE: ERI. No. 628-23-1667 JOB NO.



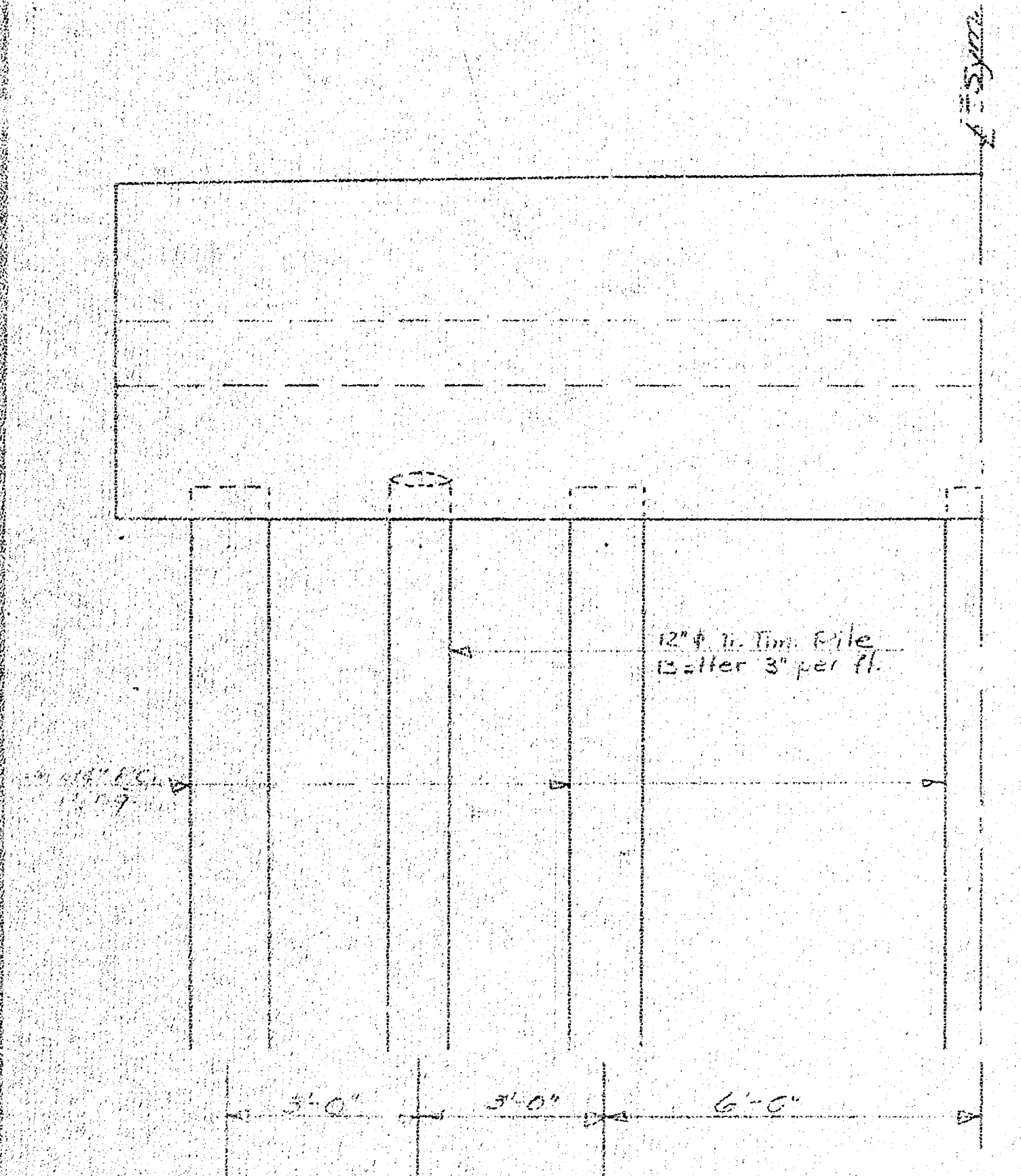
SIDE ELEVATION (SHOWING STEEL IN WING ONLY)
 Scale: 3/4" = 1'-0"

BY: H. W. F. DATE: 9-8-53 SUBJECT: Cantilever Wing SHEET NO. 2 OF 3
 CHECKED BY: DATE: ERI. No. 628-23-1667 JOB NO.

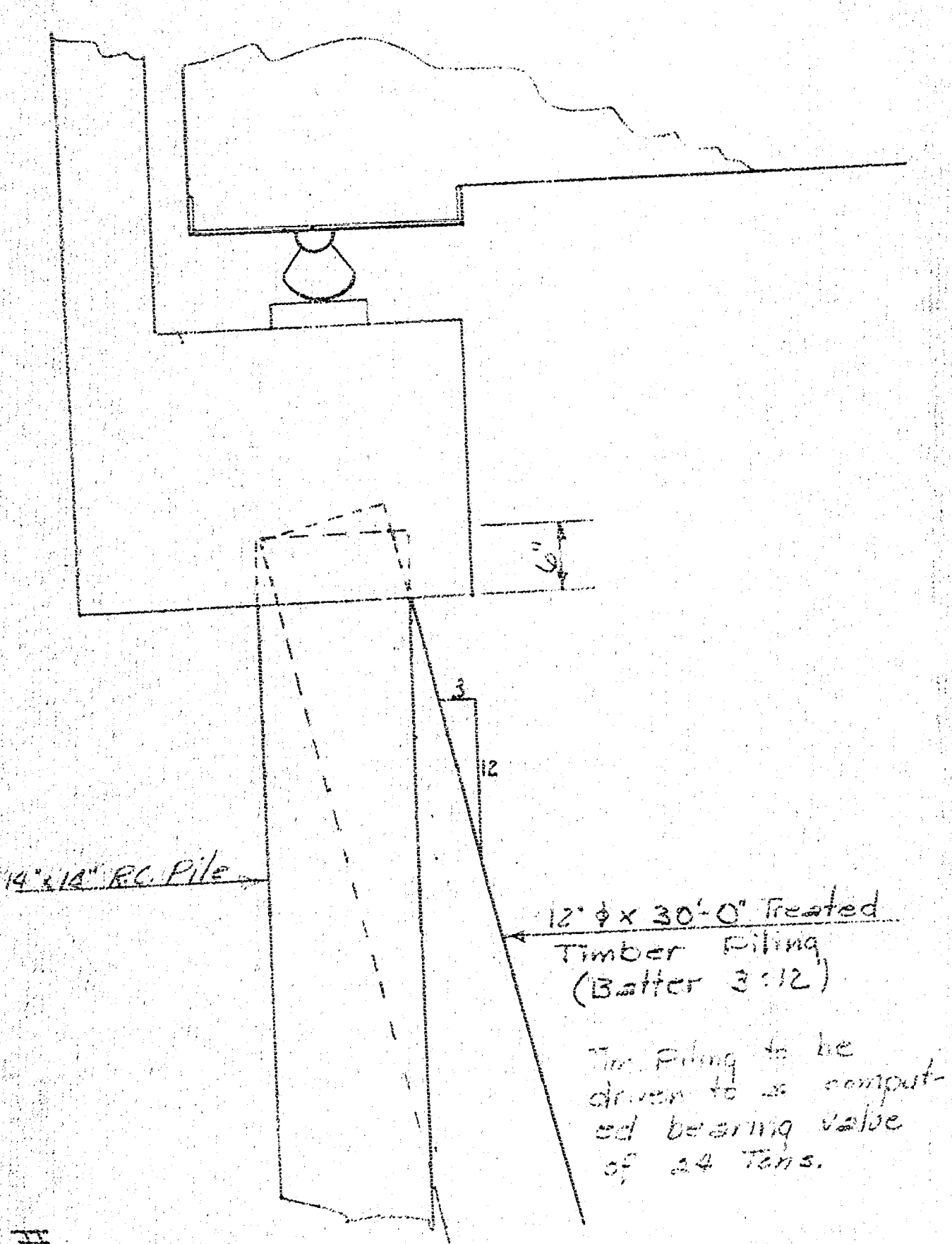


ELEVATION (WATER SIDE)
 Scale: 1" = 1'-0"

BY: H. W. F. DATE: 9-8-53 SUBJECT: Batter Piling in SHEET NO. 1 OF 1
 CHECKED BY: DATE: Abutments 628-23-1667 JOB NO.



BY: H. W. F. DATE: 9-8-53 SUBJECT: Batter Piling in SHEET NO. 1 OF 2
 CHECKED BY: DATE: Abutments 628-23-1667 JOB NO.



Enc. III