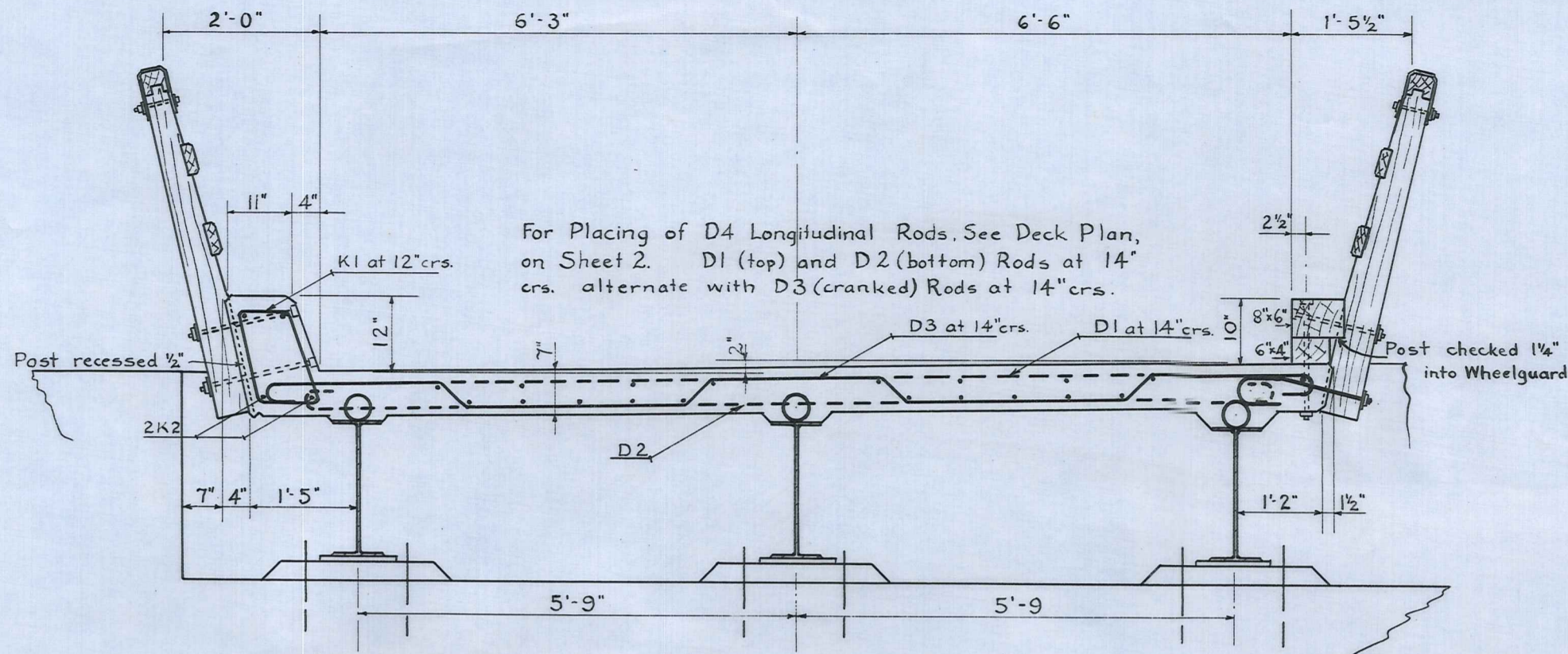


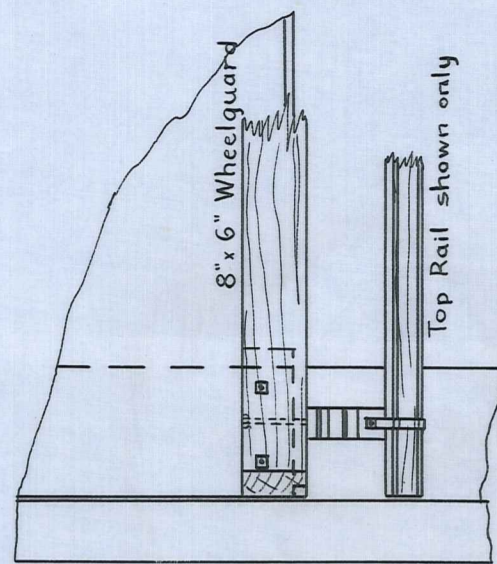
PLAN



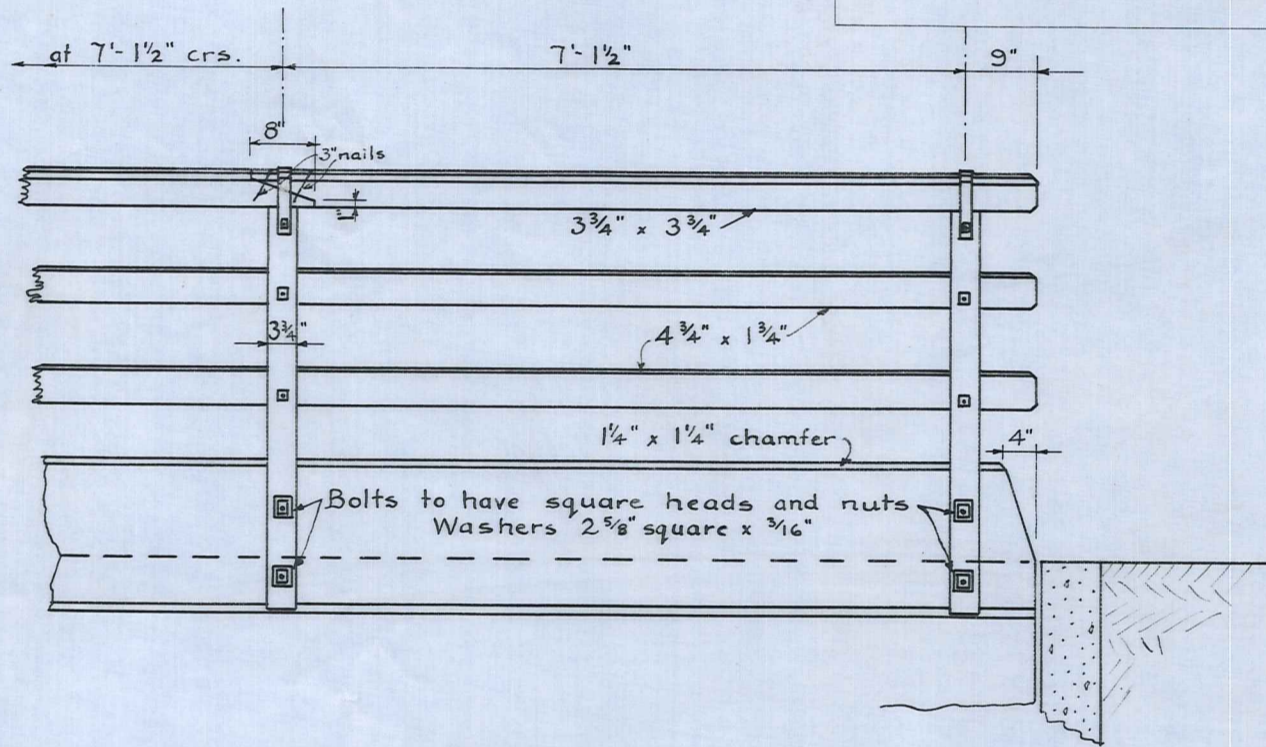
For Placing of D4 Longitudinal Rods. See Deck Plan, on Sheet 2. D1 (top) and D2 (bottom) Rods at 14" crs. alternate with D3 (cranked) Rods at 14" crs.

DECK SECTION

Scale:- 1/4" = 1'-0"



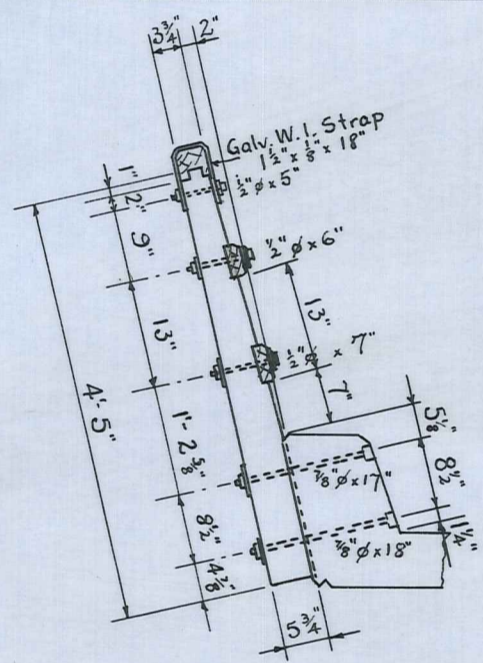
PLAN



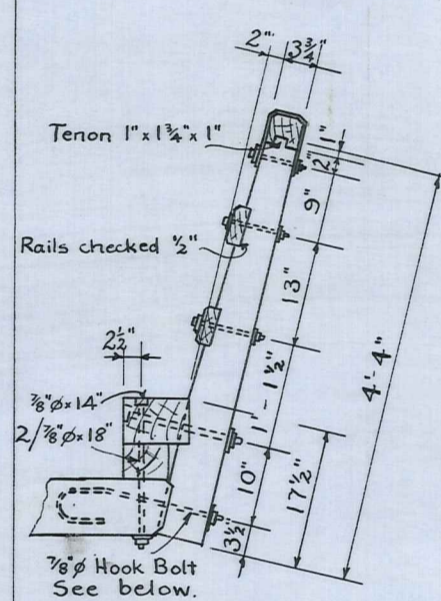
ELEVATION

UPSTREAM HAND - RAIL

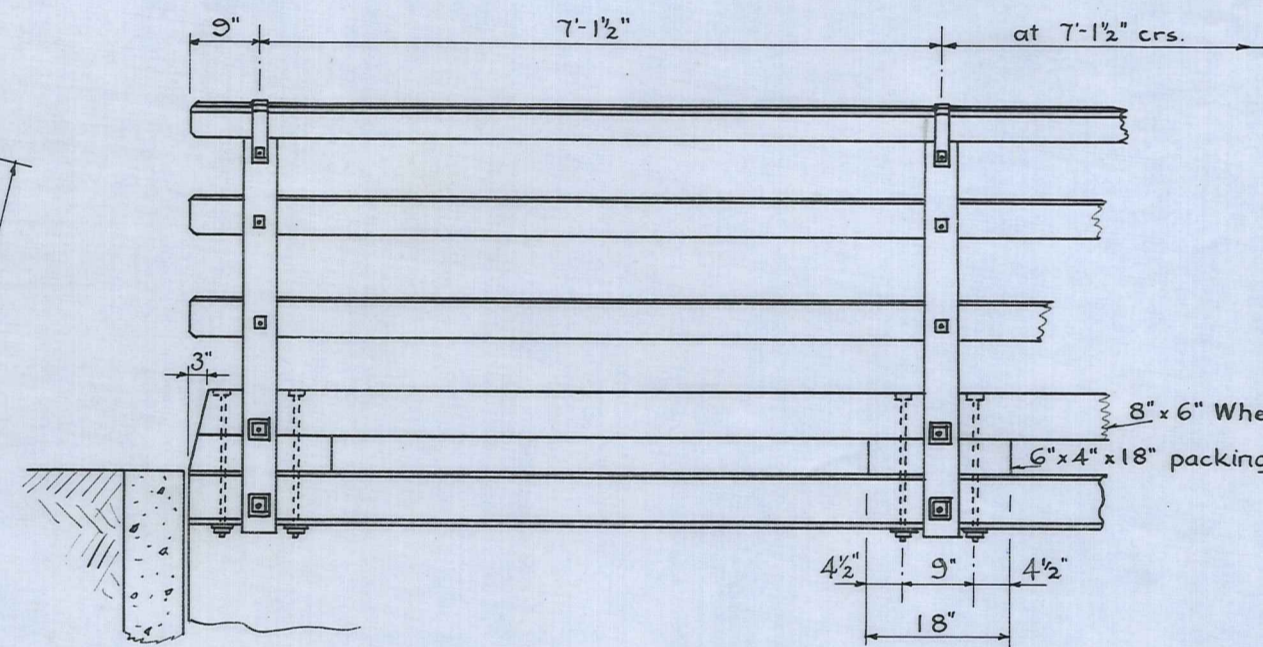
Scale:- 1/4" = 1'-0"



END VIEW



END VIEW.



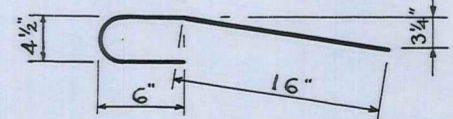
ELEVATION

DOWNSTREAM HAND - RAIL

Scale:- 1/4" = 1'-0"

BOLTS.

- 7/8" ϕ : 15 at 18" long. (2 ea. packing piece, 1 ea. Upstream Post.)
- 5 " 17" " (1 " Upstream Post.)
- 5 " 14" " (1 " Downstream ")
- 5 " 3'-0" " (1 " " " Hook Bolt. See diag.)



35 washers, 2 5/8" square x 3/16", for above 7/8" ϕ bolts.

- 1/2" ϕ : 10 at 5" long. } One of each per Post, both sides
- 10 " 6" " }
- 10 " 7" " }

60 washers, 1 1/4" square x 1/8", for above 1/2" ϕ bolts.

Straps: 10 Galv. W.I. Straps 1 1/2" x 1/8" x 18" (one each Post)

TIMBER

- Posts :- 5 at 4'-4" } 5 3/4" x 3 3/4" . 45' reqd.
- 5 at 4'-5" }
- Top Rails :- 3 3/4" x 3 3/4" 63' reqd.
- Side Rails :- 4 3/4" x 1 3/4" 126' reqd.
- Wheelguards :- 8" x 6" 30' reqd.
- Packing Pieces :- 6" x 4" 7'-6" reqd.

MANIOTOTO COUNTY	
18:3:55	R.J. Black, County Engineer.
CONTRACT NO. 392	

EWEBURN (HALLS) BRIDGE
WAIPIATA GIMMERBURN ROAD

DECK & KERB REINFORCING
HAND - RAILS & MATERIALS

SCALE:- 1/4" = 1'
FILE:-34/1 FOLD
M.C.C. 30.
SHEET 5.

ABUTMENT STEEL							
ROD	DESCRIPTION	DIA.	N ^o . OF	LENGTH			
A1		5/8"	22	29'-0"			
A2	 1 1/4" rad. 3'-5" 6'-2"/>	5/8"	56	14'-0"			
A3		7'-1"	5/8"	12	8'-0"		
A4		6'-1"	5/8"	12	7'-0"		
A5		5'-1"	5/8"	4	6'-0"		
A6		Z	Y				
		4'-6"	8'-9"	4'-3"	3/4"	12	13'-6"
A7		5'-0"	9'-7"	3'-3"	5/8"	12	13'-4"
A8		3'-4"	6'-6"	3'-3"	5/8"	4	10'-3"
A9		1'-9"	3'-5"	3'-3"	5/8"	4	7'-2"
A10		11'-6"	3/4"	12	12'-0"		
A11		10'-7"	5/8"	12	11'-1"		
A12		7'-1"	5/8"	4	7'-6"		
A13		3'-7"	5/8"	4	4'-0"		
A14	 1 1/4" rad. 6'-2"/>			5/8"	8	15'-0"	
A15		X					
		2'-8"	5/8"	4	7'-0"		
A16		2'-11 1/2"	5/8"	4	7'-7"		
A17		3'-3"	5/8"	4	8'-2"		
A18		3'-7"	5/8"	4	8'-10"		

ABUTMENT STEEL (CONT'D)						
ROD	DESCRIPTION	X	DIA.	N ^o . OF	LENGTH	
A19		3'-10 1/2"	5/8"	4	9'-5"	
A20		4'-2"	5/8"	4	10'-0"	
A21		4'-6"	5/8"	4	10'-8"	
A22		4'-9 1/2"	5/8"	4	11'-3"	
A23		5'-1"	5/8"	4	11'-9"	
A24	 2'-7"/>			3/8"	36	9'-0"
A25				1/2"	8	9'-3"
A26	Wire ties			N ^o 6g	100	3'-0"

PILE STEEL						
ROD	DESCRIPTION	DIA.	N ^o . OF	LENGTH		
P1	 1'-7 1/2" 1'-3 1/2" rad. 4'-3 1/2"/>	7/8"	112	19'-4 1/2"		
P2	See Sheet 3			N ^o 6g	14	476'-0"

DECK STEEL					
ROD	DESCRIPTION	DIA.	N ^o . OF	LENGTH	
D1		5/8"	26	28'-0"	
D2		5/8"	26	27'-0"	
D3	 2 1/2" rad. 3'-1 1/2" 3 1/2" 2'-10 1/2" 3 1/2" 2'-2 1/4" 3 1/2" 2'-10 1/2" 3 1/2" 1'-1 1/2"/>	5/8"	25	29'-0"	
D4		5/8"	36	30'-6"	

- NOTES:-
1. Rod sketches are not to scale.
 2. Dimensions are outside to outside unless otherwise shown.
 3. Rods D1, D2 & D3 to be sloped 2" to suit deck slab.
 4. All laps 40d, min. All hooks 4d rad. inside.

KERB STEEL				
ROD	DESCRIPTION	DIA.	N ^o . OF	LENGTH
K1	 6" 1'-4"/>	3/8"	60	6'-6"
K2		3/8"	8	30'-6"

RAIL STEEL				
ROD	DESCRIPTION	DIA.	N ^o . OF	LENGTH
R1	 3'-7 1/2" 4'-6" 3 1/2"/>	3/8"	12	10'-6"
R2	See drawing	N ^o 6g	24	4'-6"
R3	 2"/>	3/8"	132	8'-0"
R4		1/2"	8	12'-11 1/2"
R5		3/8"	8	12'-11 1/2"
R6	See drawing Sheet 2	N ^o 6g	4	19'-0"

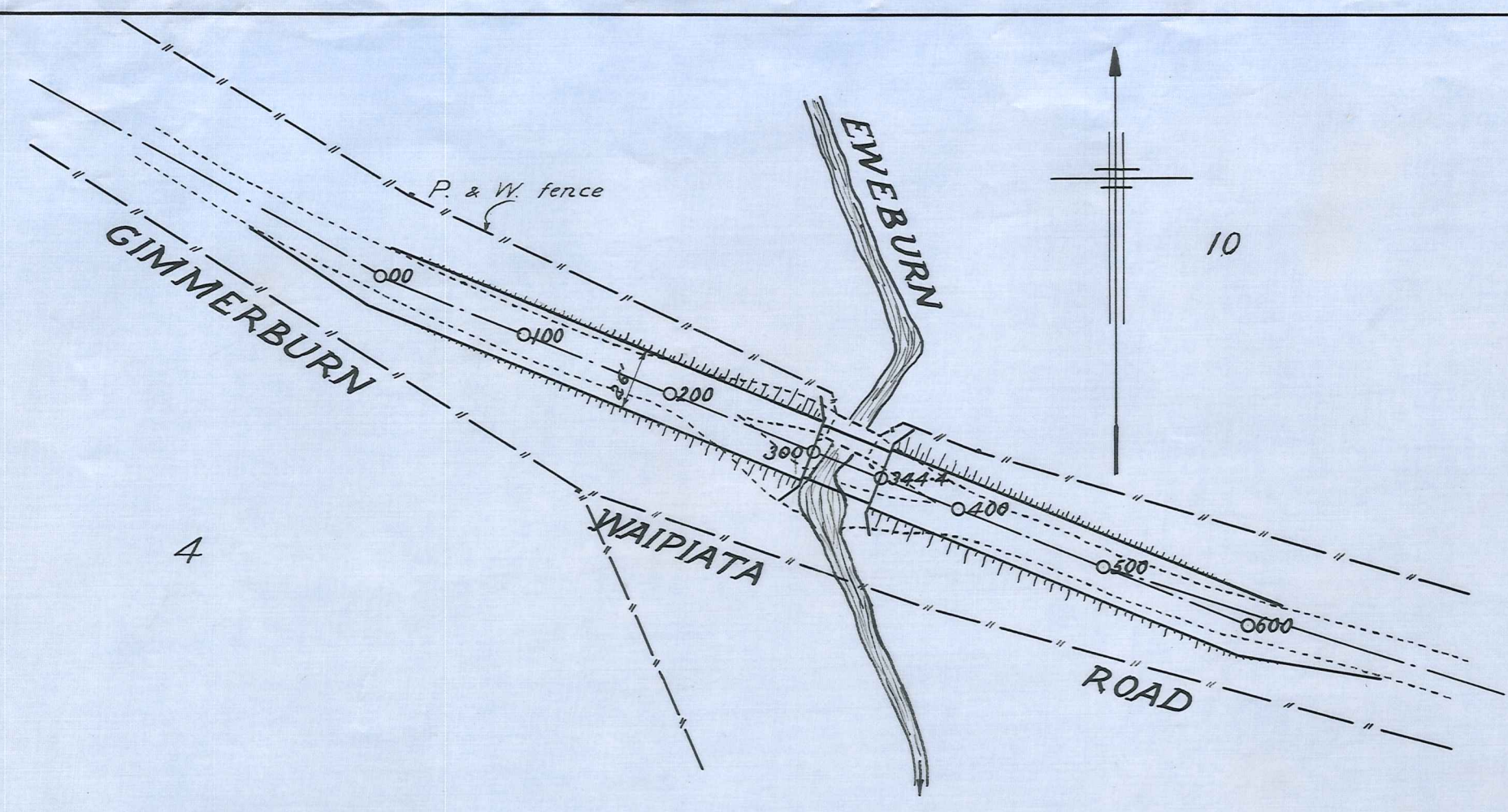
DIAM.	LENGTH	WEIGHT
7/8"	2170'	1.980 T
3/4"	306'	0.205 T
5/8"	6113' - 4"	2.847 T
1/2"	117' - 8"	0.044 T
3/8"	1873' - 8"	0.314 T
N ^o 6g	7148'	0.313 T
TOTAL WEIGHT		5.703 T

MANIOTOTO COUNTY
22-10-54 R. J. Black,
R.A. County Engineer.
CONTRACT N^o.

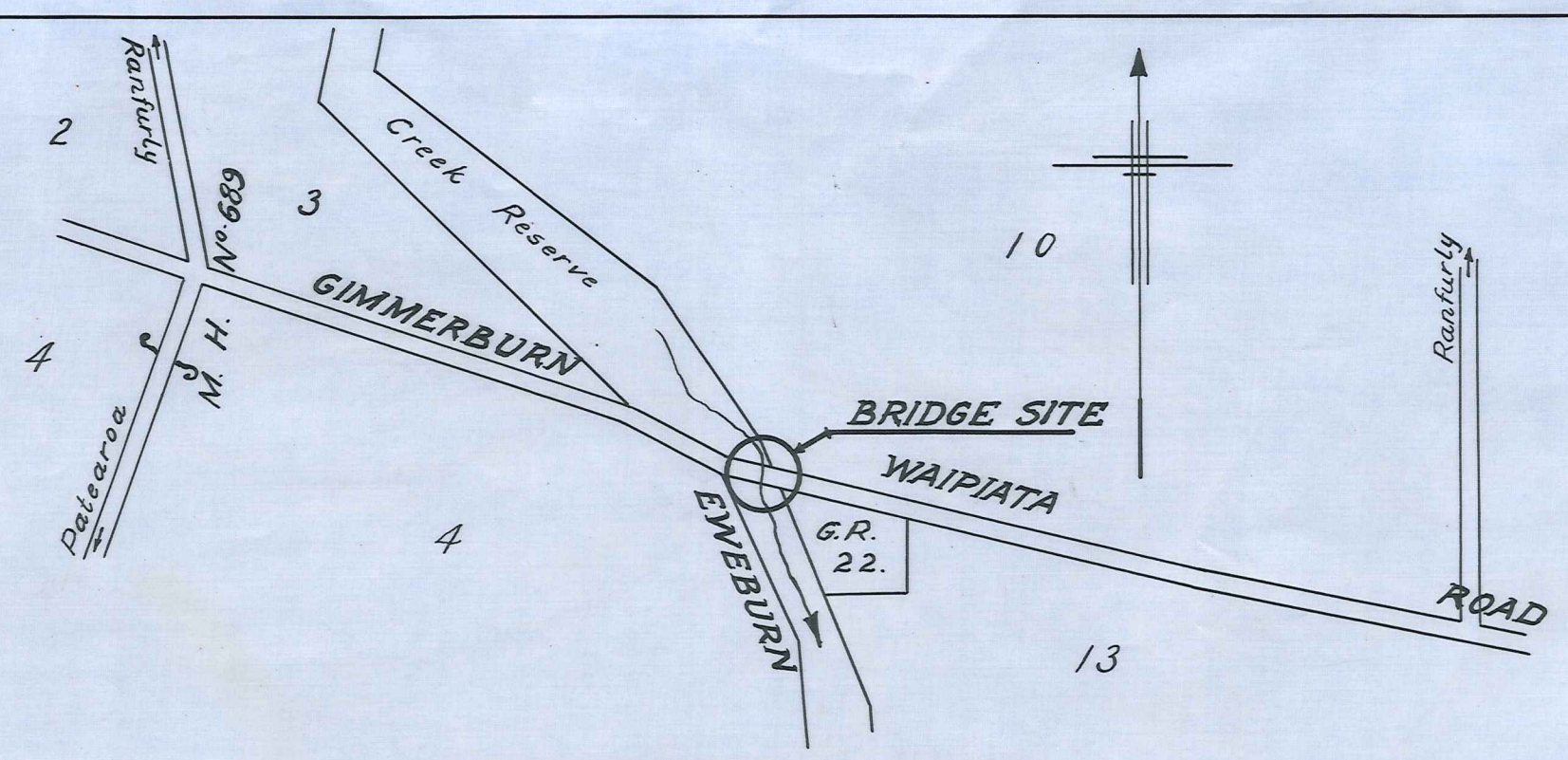
EWEBURN (HALLS) BRIDGE
WAIPIATA GIMMERN BURN ROAD

REINFORCING SCHEDULE

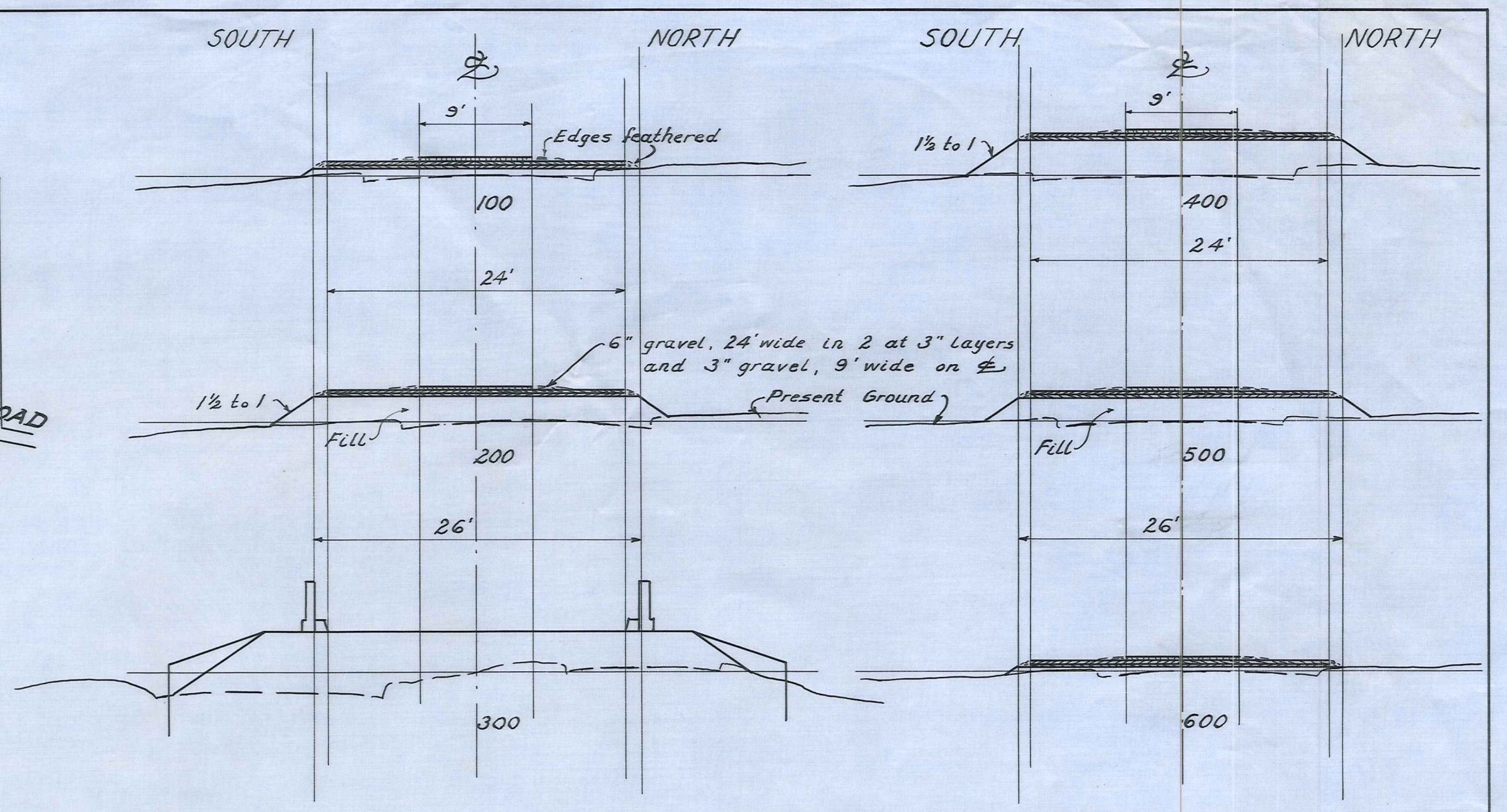
SCALES:- NOT TO SCALE
FILE:- 34/1 FOLDER:- 1b
M. C. C. 2966
SHEET 1 OF 4 SHEETS



SITE PLAN
Scale: 1 chain.



LOCALITY PLAN
BLOCK X, MANIOTOTO S.D.
Scale: 10 chains.



APPROACH SECTIONS
Scale: 10 feet

1 in 150

Grader alignment and gravel

Fill

Present Ground

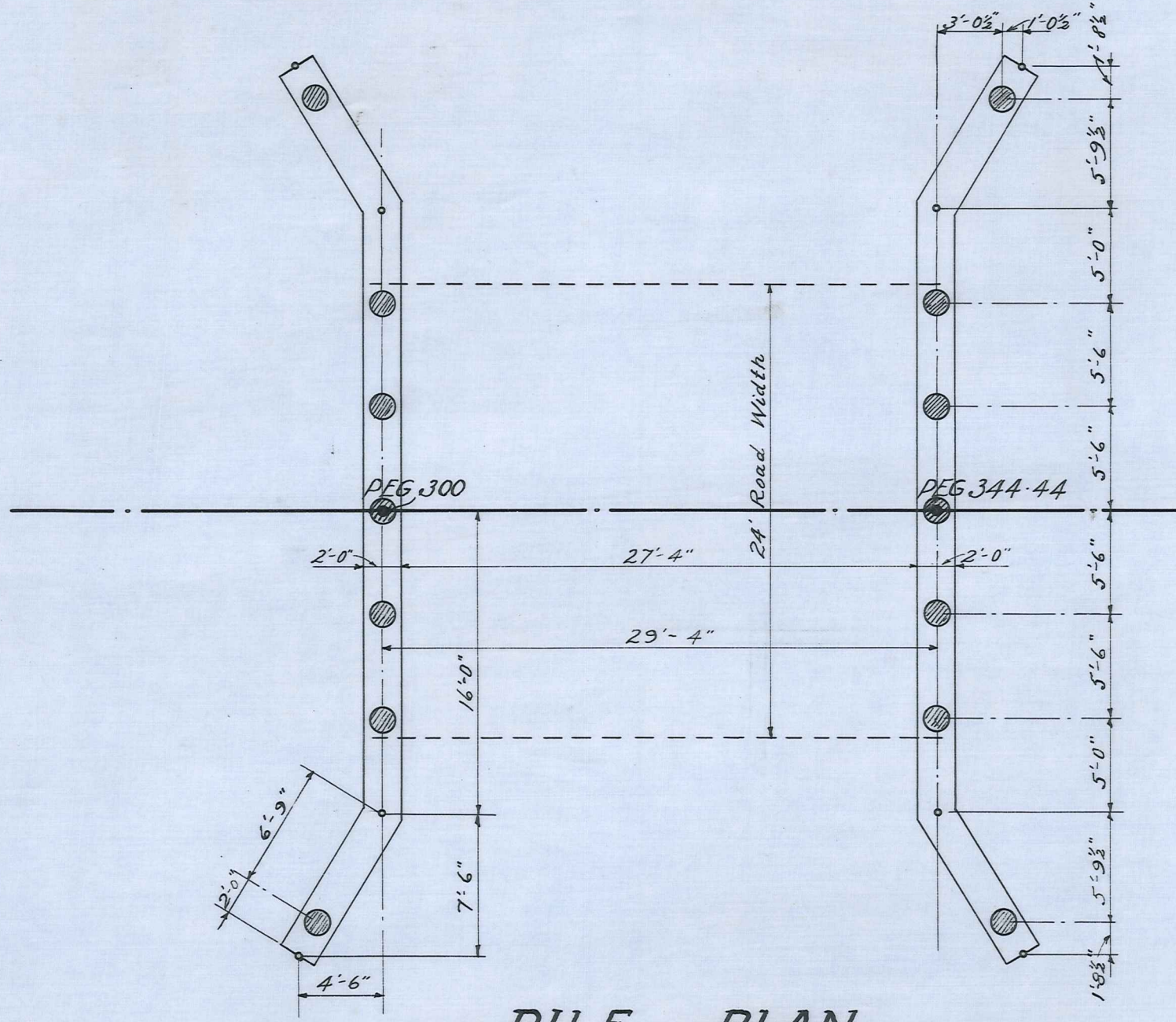
level 7

Cut Creek 0.40'

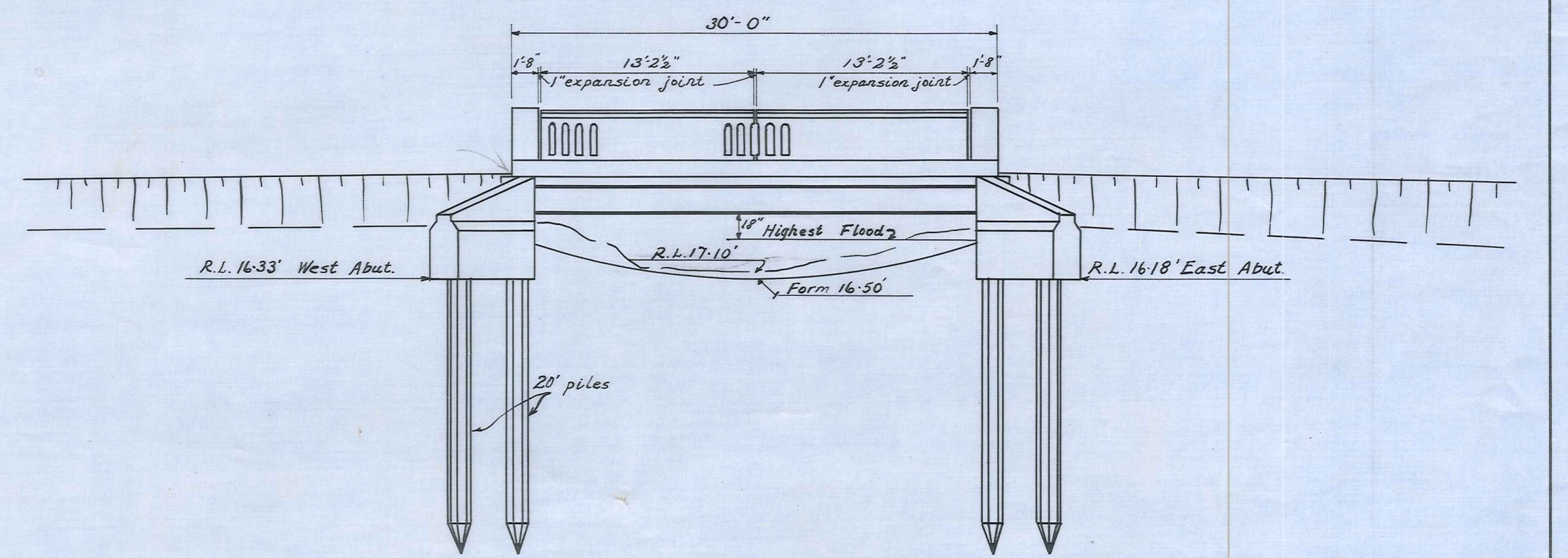
FILL	00	2000	2000	00	V.C.	1 in 52.91	V.C.	1 in 200	V.C.	1 in 46.88	V.C.
FORMAT ^m LEVEL	227.9	19.88	19.97	0.09							
REDUCED LEVEL	45.45	19.76	20.19	0.42							
PEG & DIST	00	200	200	200							
GRADIENTS											

LONGIT^{DL}. SECTION

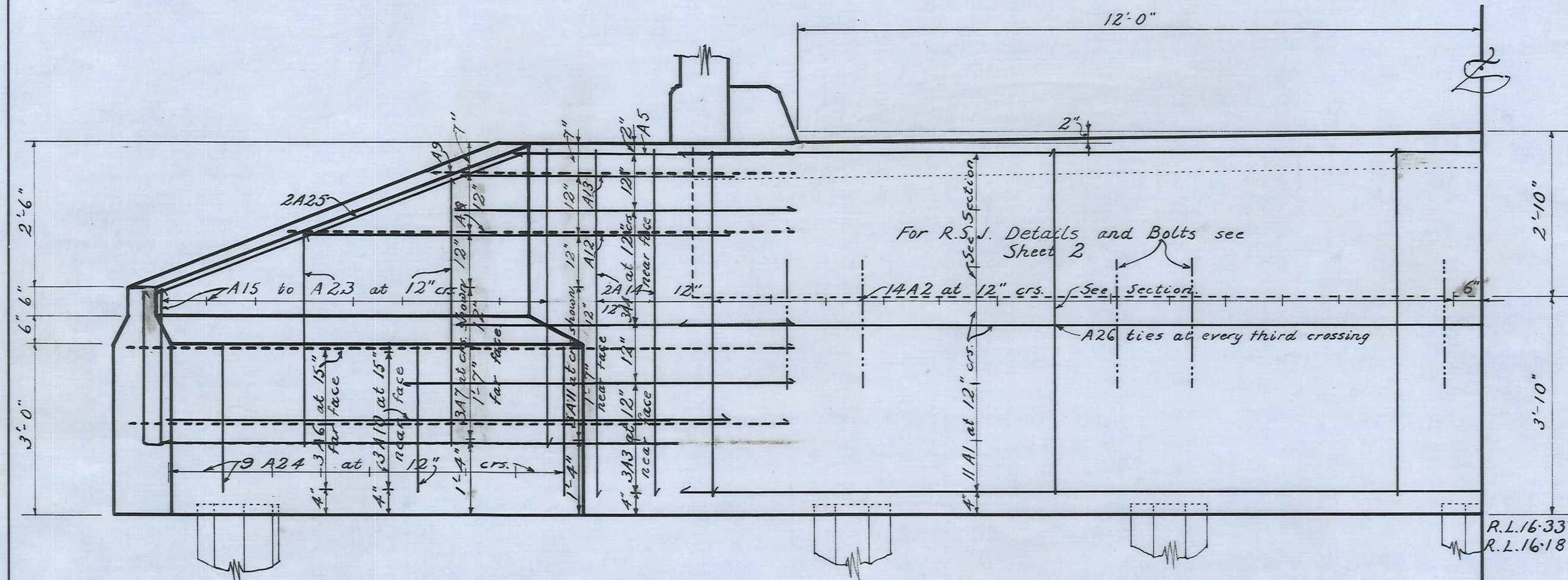
Scales: Vertical: 10 feet.
Horizontal: 66 feet.



PILE PLAN & PEGS
Scale: 1/2 inch to 1 foot.

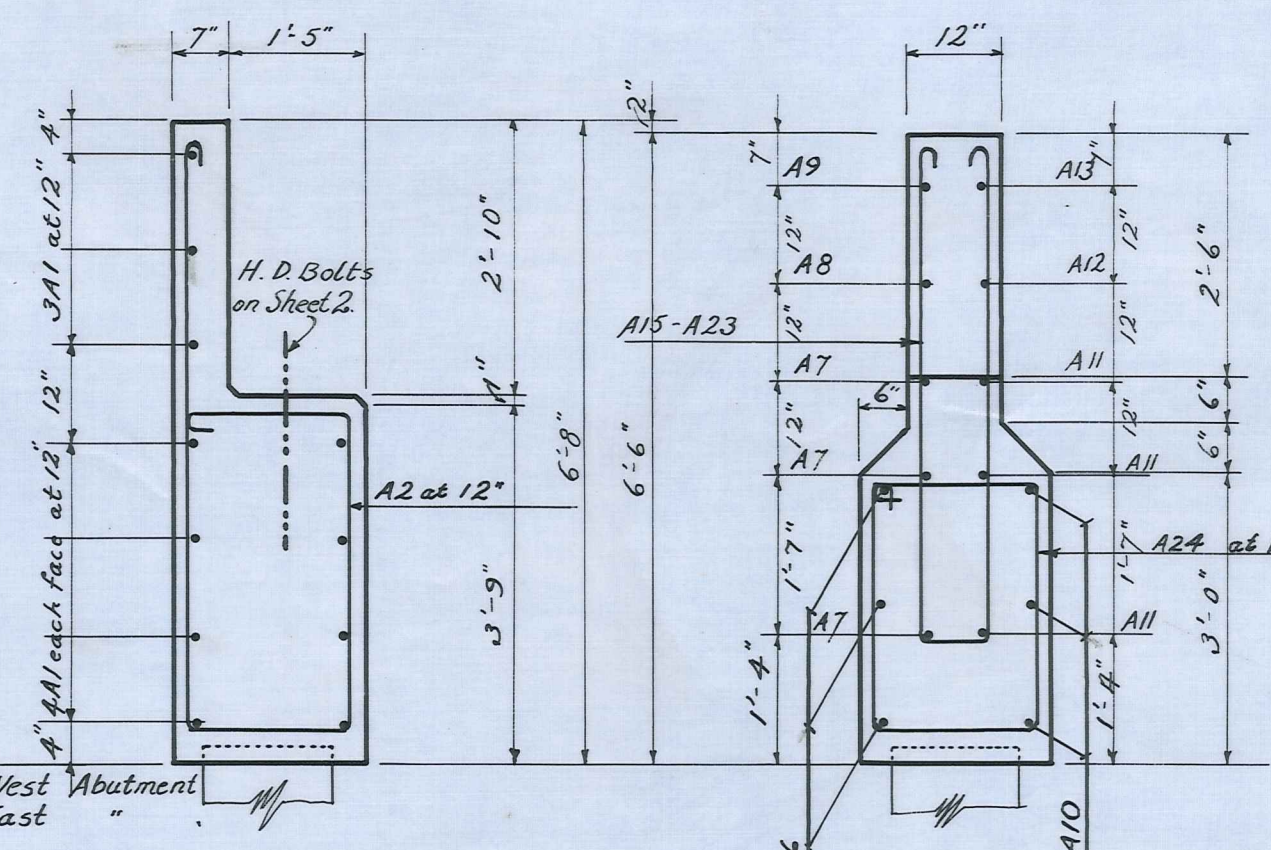


BRIDGE ELEVATION



ABUTMENT ELEVATION

Scale: 1/2 inch to 1 foot.

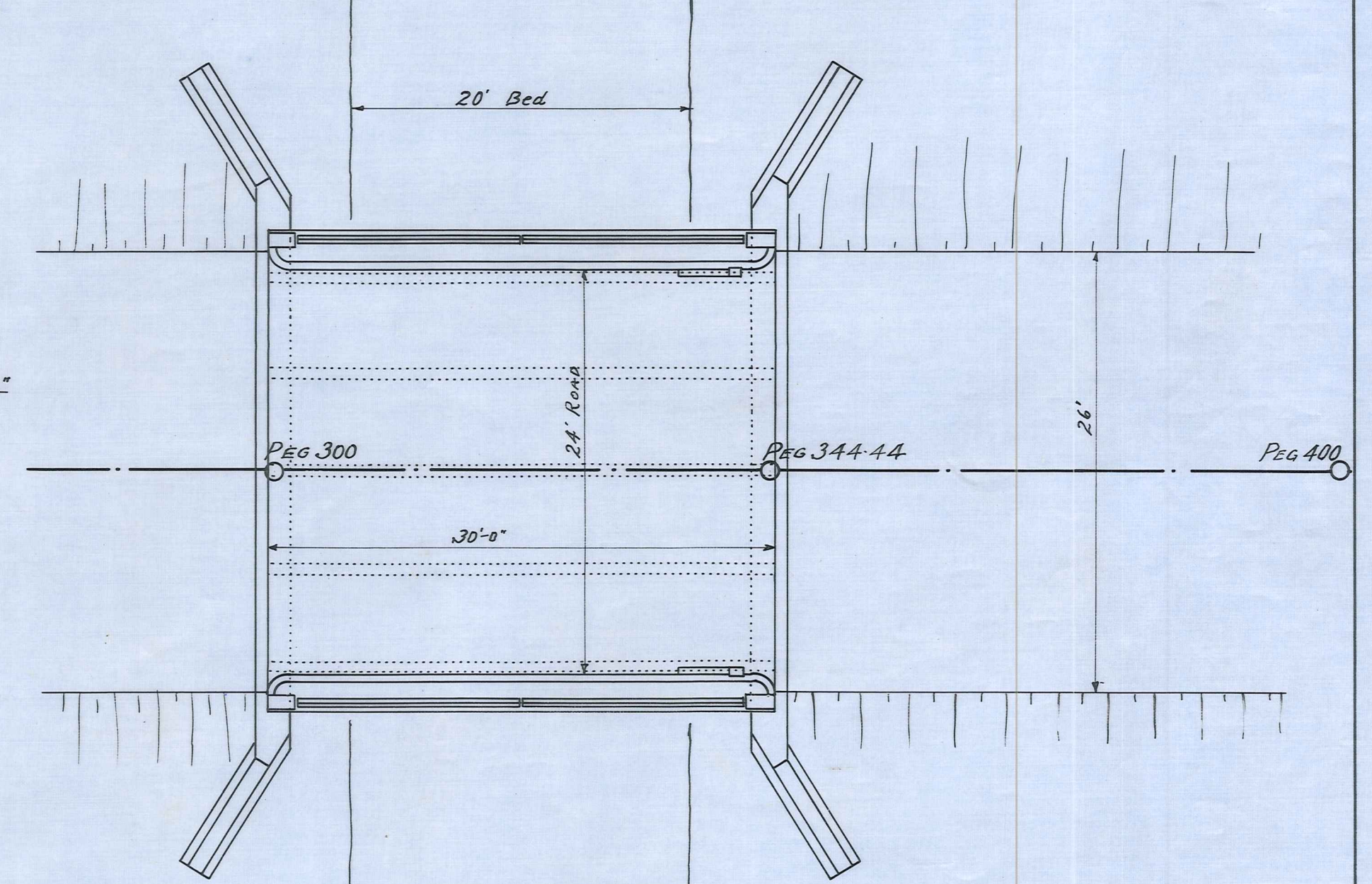


SECTN. X-X

Scale: 1/2"

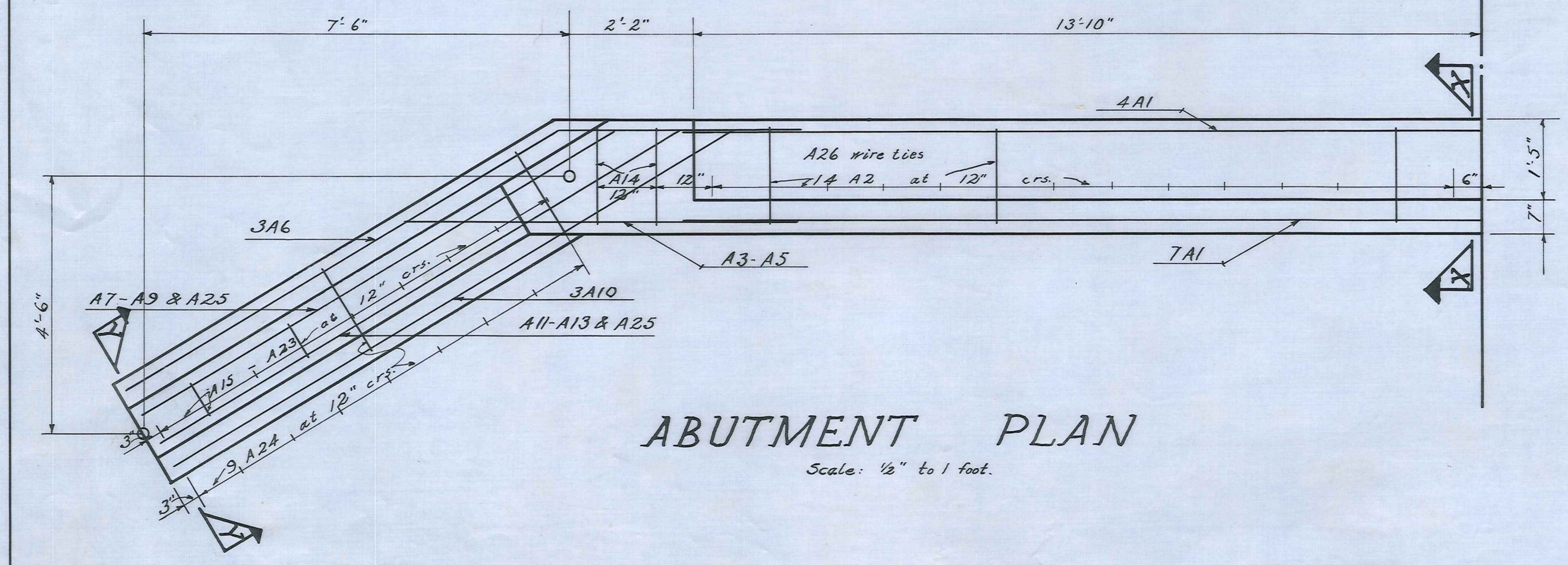
SECTN. Y-Y

Scale: 1/2"



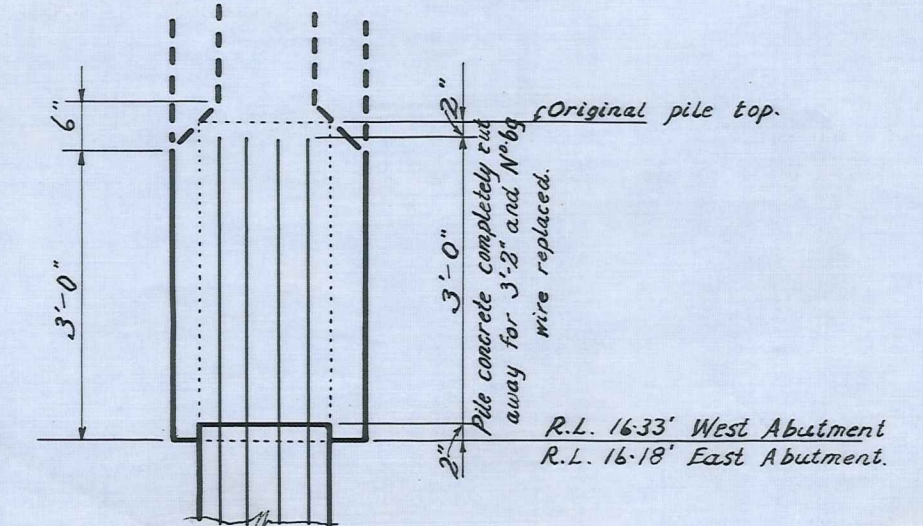
BRIDGE PLAN

Scale: 1/2" to 1 foot.



ABUTMENT PLAN

Scale: 1/2" to 1 foot.



STRIPPING OF PILE HEAD

Scale: 1/2 inch to 1 foot.

DESIGN LOADING H20-516

MINIMUM COVER TO OUTSIDE RODS 1 1/2" UNLESS OTHERWISE SHOWN.

MANIOTOTO COUNTY	EWE BURN (HALLS) BRIDGE	Scales: As shown
20.10.54 R.L. Black	WAIPAATA GIMMERBURN ROAD	File: 34/1 Folder: 1b
CONTRACT N°	30' SPAN, 24' ROAD, R.S.J. BEAMS	M.C.C. 296a
	SITE & APPROACHES, ABUTMENT DETAILS	SHEET 1 of 4 SHEETS