

6th February, 1946.

Mr F.J. Williams,  
P.O. Box 4,  
DUNEDIN.

Dear Sir,

I have to acknowledge receipt of your plans and specifications of the Hall Dodgers bridge and have to inform you that my Council considers that the plans and specifications are in excess of what was required. This arose from a misunderstanding with the change of office of County Clerk the Council being under the impression that the previous County Clerk had requested plans and specifications on modified lines of a previous bridge for which plans and specifications were prepared.

Yours faithfully,

County Clerk.

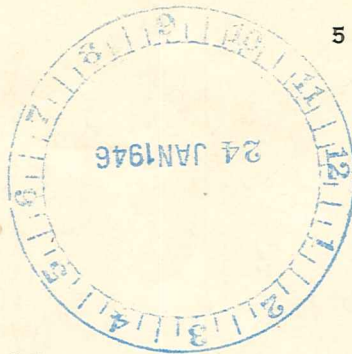
F. H. WILLIAMS  
F. R. ASKIN, B.E., B.Sc., A.M.I.C.E.,  
A.M.N.Z.I.E.  
REGISTERED CIVIL ENGINEER  
N. D. R. RUSSELL, M.S.I. (N.Z.)  
REGISTERED SURVEYOR

P.O. Box 4  
TELEPHONE 10-225

F. J. WILLIAMS  
CIVIL ENGINEERS AND SURVEYORS

5 LIVERPOOL STREET  
DUNEDIN, N.Z.

23rd January, 1946.



The County Clerk,  
Maniototo County Council,  
RANFURLY.

Dear Sir,

As requested in your letter of the 4th September last we are forwarding, under separate cover, plans and specifications in duplicate of Hall - Dodgers Bridge over the Eweburn on the Waipiata - Gimmerburn Road. Included herewith is an extra copy of the specification for your reference and attached to it is a completed schedule with our estimated cost of construction. As will be seen, the estimate for the work included in the contract is £931-16-6.

As usual, we have not included the work of forming the approach embankments in the contract, nor is the work of dismantling the existing bridge or the deviation of the stream included. We recommend that this work be done by the County staff.

When inspecting the site in company with your Foreman, he suggested that the bridge be built in the dry and the stream diverted under it when the other work is completed. We are in agreement with this proposal and the new structure has been sited accordingly.

Yours faithfully,

F. J. WILLIAMS

F. H. WILLIAMS

ASKIN, B.E., B.Sc., A.M.I.C.E.,  
A.M.N.Z.I.E.

REGISTERED CIVIL ENGINEER

N. D. R. RUSSELL, M.S.I. (N.Z.)  
REGISTERED SURVEYOR

**F. J. WILLIAMS**  
CIVIL ENGINEERS AND SURVEYORS

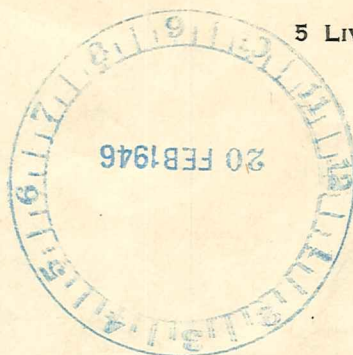
P.O. Box 4  
TELEPHONE 10-225

5 LIVERPOOL STREET

DUNEDIN, N.Z.

FRA/MH.

19th February, 1946.



B/7r

373

The County Clerk,  
Maniototo County Council,  
RAN FURLY.

*Eweburn Br. Waip - Giam.*

Dear Sir,

We have to acknowledge receipt of your letter of the 6th February, 1946, concerning the plans and specifications for the Hall-Dodgers Bridge.

We were unaware of the existence of previous plans and specifications for this bridge, but made a search of old records after receiving your letter. We would mention that all the present members of this firm were absent on Active Service during most of the War years, so did not know of previous arrangements with your County.

The previous specifications and some of the drawings have been located, but there does not appear to be any correspondence concerning the bridge. For your information we are sending you a print of the general lay out of the previous bridge, from which the following points will be noted:

- (1) The bridge was 36 feet long, 20 feet wide between kerbs, skewed to the centre line of the road, and of girder construction
- (2) The original drawing showed the bridge founded on concrete abutment foundations, while our proposal was that the abutments should be founded on reinforced concrete piles.

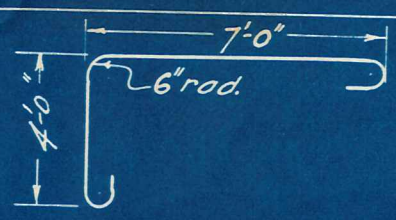
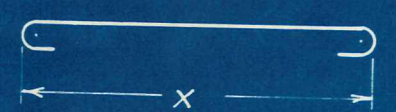
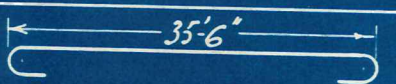
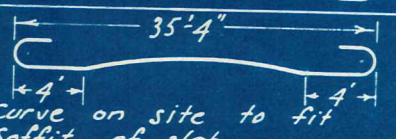
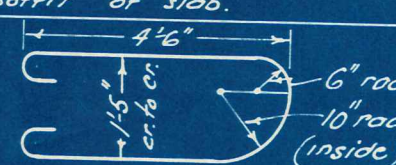
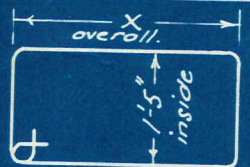
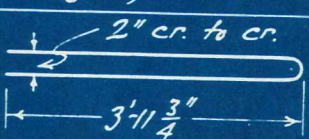
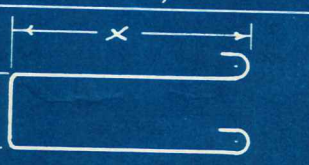
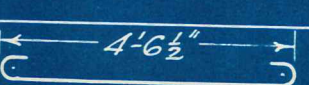
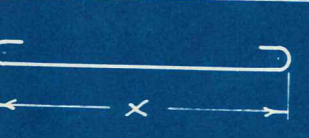

We believe that our proposals are much more modest than the previous ones. The amount of concrete is approximately 60 cubic yards as against 110 cubic yards. The reinforcing steel and excavation are less. The deck slab construction is cheaper than the girder type of construction for short spans. Furthermore, we believe that piled foundations are more stable in loose shingle type of country such as appears to exist at the bridge site.

We note that in a letter from the Public Works Department addressed to the County Clerk, Maniototo County Council, and dated 22nd October, 1941, that the sum of £450 on a £1 for £1 subsidy basis was allocated for Hall's Eweburn Bridge. On this basis the estimate for the bridge at that time must have been approximately £900. Costs have since increased very considerably, so it would appear that our proposals are more modest than were those envisaged at that time.

We regret that the misunderstanding as mentioned in your letter has arisen, and would be glad of any further guidance that your Council can offer us concerning your requirements.

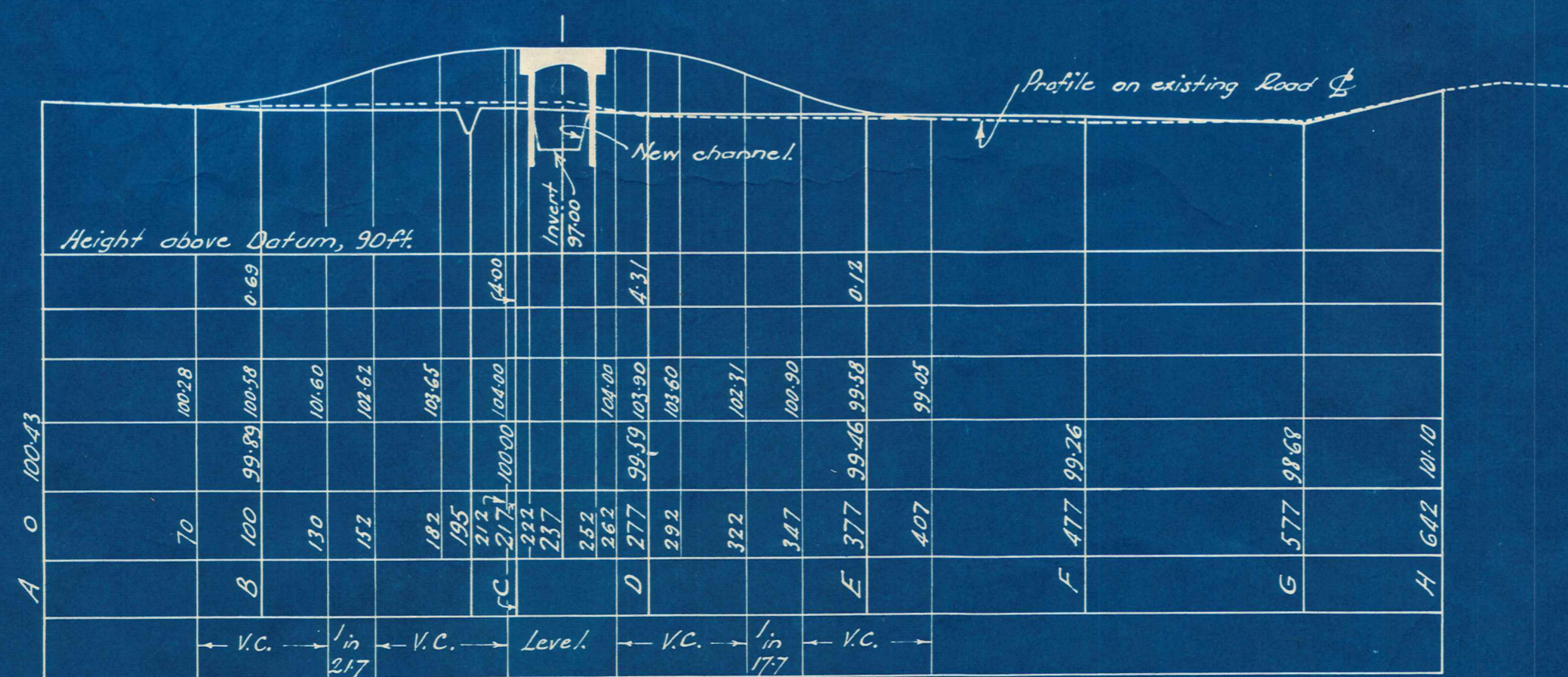
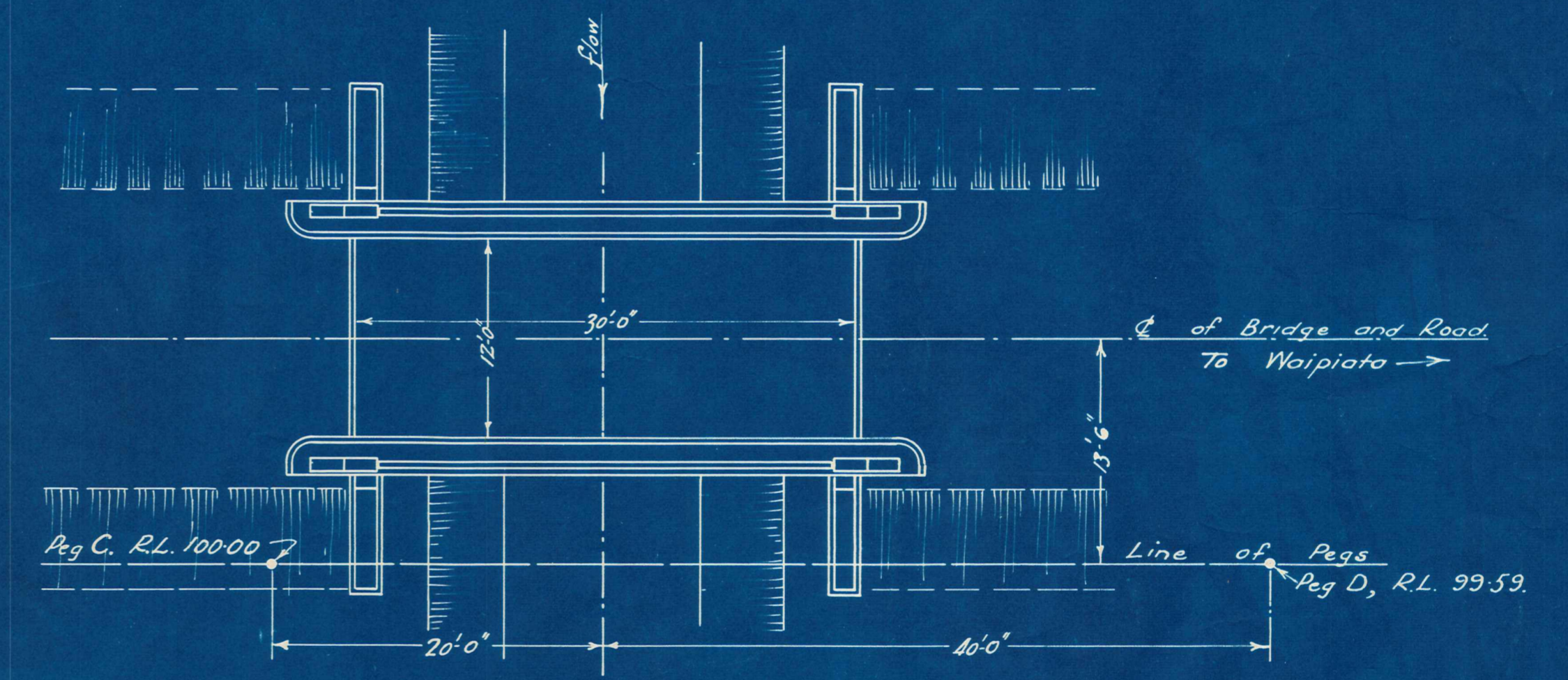
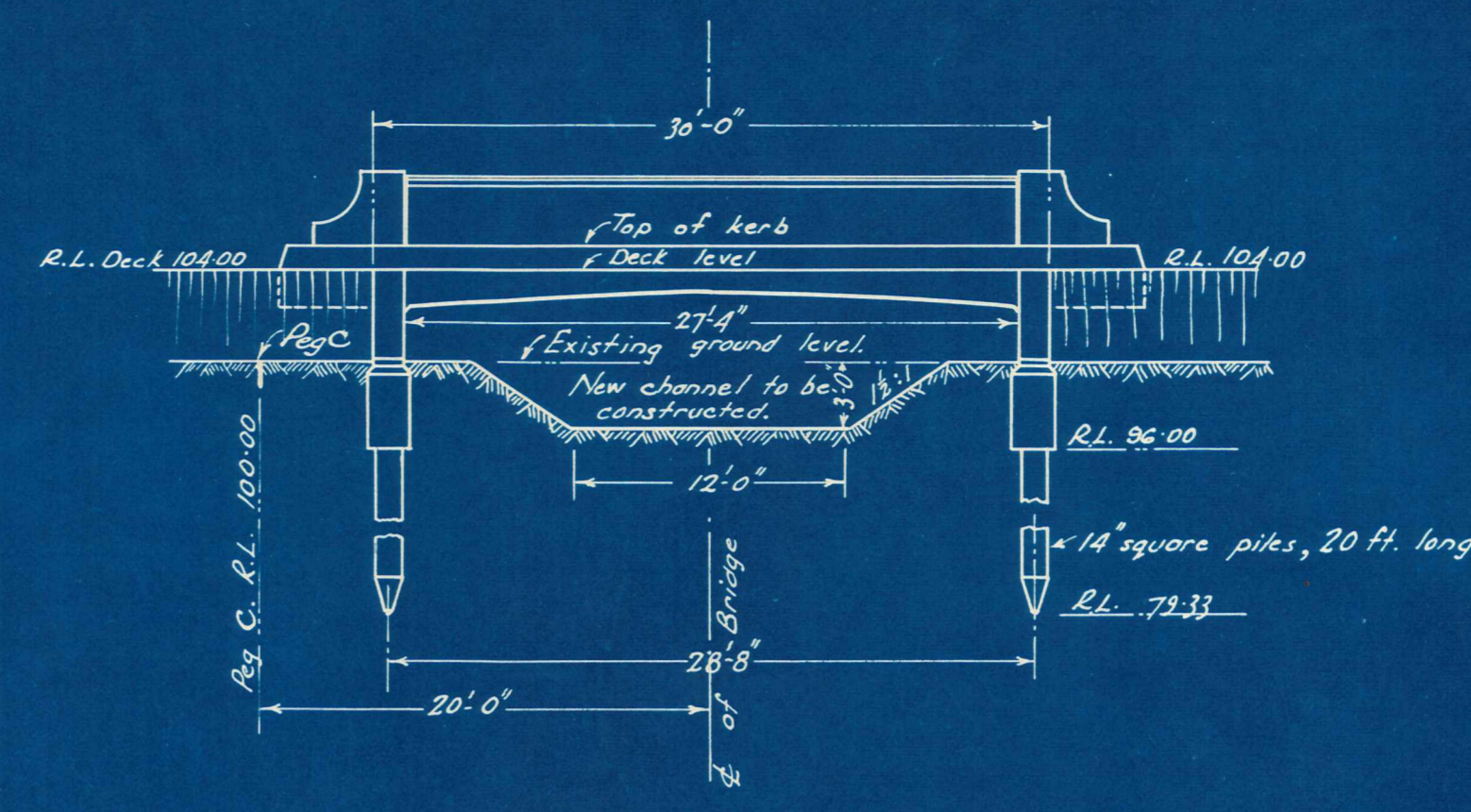
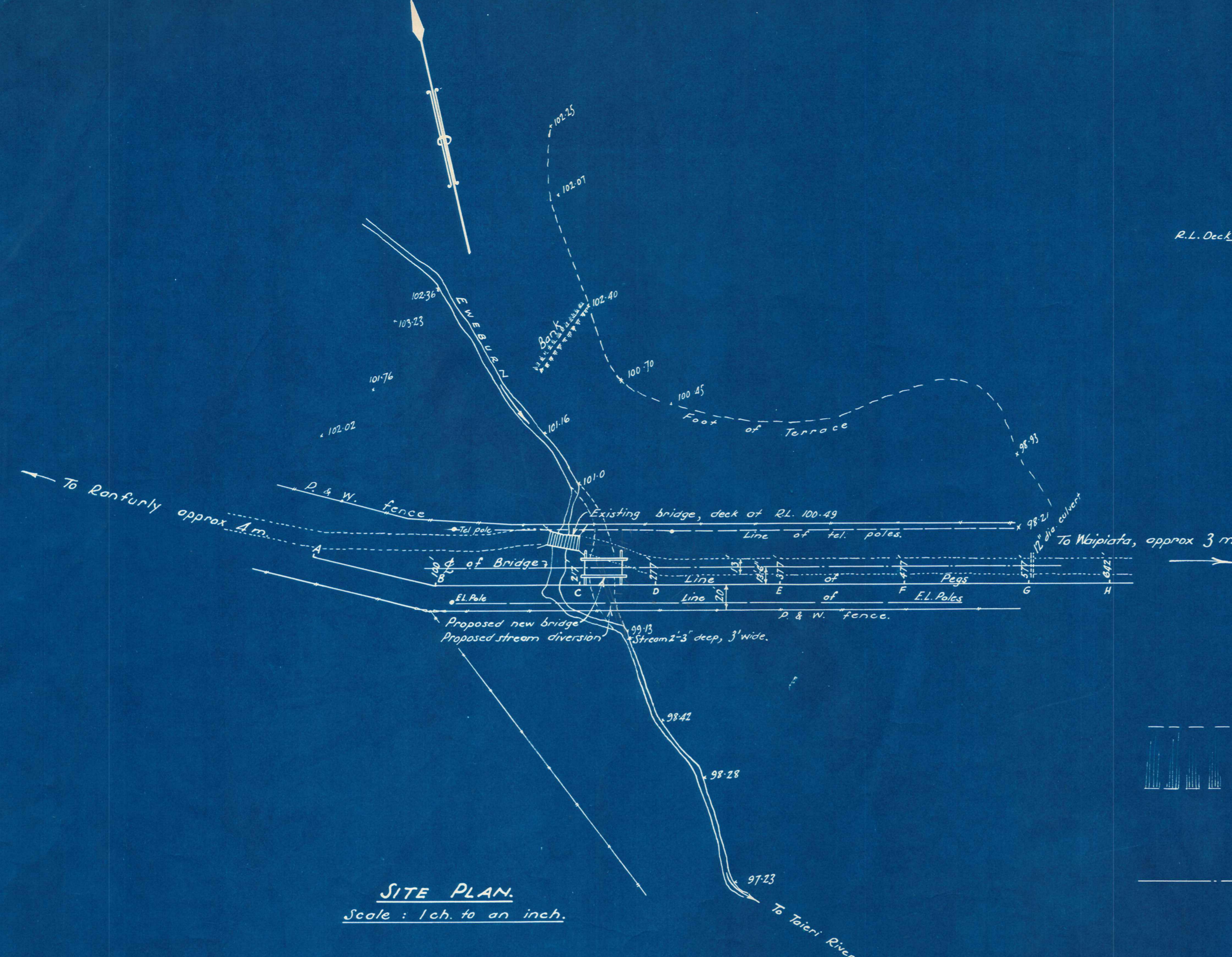
Yours faithfully,

p.p. F. J. WILLIAMS

Mark	Description.	X	Cutting length	Diam.	No	Remarks.
S <sub>1</sub>			12'-4"	1"	48	Deck slab.
S <sub>2</sub>		20'-0 1/2"	21'-0"	5/8"	12	" "
S <sub>3</sub>		22'-6"	24'-0"	1"	20	Bend on site to soffit of slab.
S <sub>4</sub>		15'-0 1/2"	16'-0"	5/8"	20	Deck slab
S <sub>5</sub>		14'-8"	16'-0"	7/8"	28	"
K <sub>1</sub>			37'-0"	1"	4	Kerbs.
K <sub>2</sub>			37'-0"	1"	8	"
K <sub>3</sub>			11'-3"	1	8	"
K <sub>4</sub>		1'-10"	7'-3"	1/2"	8	"
K <sub>5</sub>		1'-10 1/2"	7'-4"	"	8	"
K <sub>6</sub>		1'-11"	7'-5"	"	8	"
K <sub>7</sub>		1'-11 3/4"	7'-6 1/2"	"	8	"
K <sub>8</sub>		2'-1"	7'-9"	"	8	"
K <sub>9</sub>		2'-2 3/4"	8'-0 1/2"	"	8	"
K <sub>10</sub>		2'-4 3/4"	8'-4 1/2"	"	24	"
P <sub>1</sub>	Straight, no hooks.		26'-11"	1/2"	8	Panels
P <sub>2</sub>			8'-0"	3/8"	132	"
P <sub>3</sub>		4'-6"	10'-7"	5/8"	12	Posts
P <sub>4</sub>		2'-9"	7'-1"	"	4	"
P <sub>5</sub>		2'-6"	6'-7"	"	4	"
P <sub>6</sub>			5'-6"	5/8"	8	"
A <sub>1</sub>		30'-4"	31'-8"	7/8"	12	Abutments
A <sub>3</sub>		7'-0 1/2"	8'-0"	5/8"	76	"
A <sub>4</sub>		6'-6 1/2"	7'-6"	5/8"	8	"
A <sub>5</sub>		5'-9 1/2"	6'-9"	"	8	"
A <sub>6</sub>		5'-3 1/2"	6'-3"	"	8	"
A <sub>7</sub>		4'-6 1/2"	5'-6"	"	8	"
A <sub>8</sub>		3'-9 1/2"	4'-9"	"	8	"
A <sub>9</sub>		18'-9 1/2"	19'-9"	"	4	"
A <sub>10</sub>		23'-3 1/2"	24'-3"	"	4	"
A <sub>11</sub>		27'-9 1/2"	28'-9"	"	4	"
A <sub>2</sub>			9'-0"	3/8"	60	"

M.C.C. 167d. 177

CONTRACT NO	MANIOTOTO COUNTY COUNCIL.	DRAWING NO 15
	HALL DODGERS BRIDGE.	F.J. WILLIAMS, Civil Engineers & Surveyors.
	GIMMERBURN-WAIPATA ROAD.	DUNEDIN.
	REINFORCING STEEL SCHEDULE.	SHEET NO 4 OF 4 SHEETS.

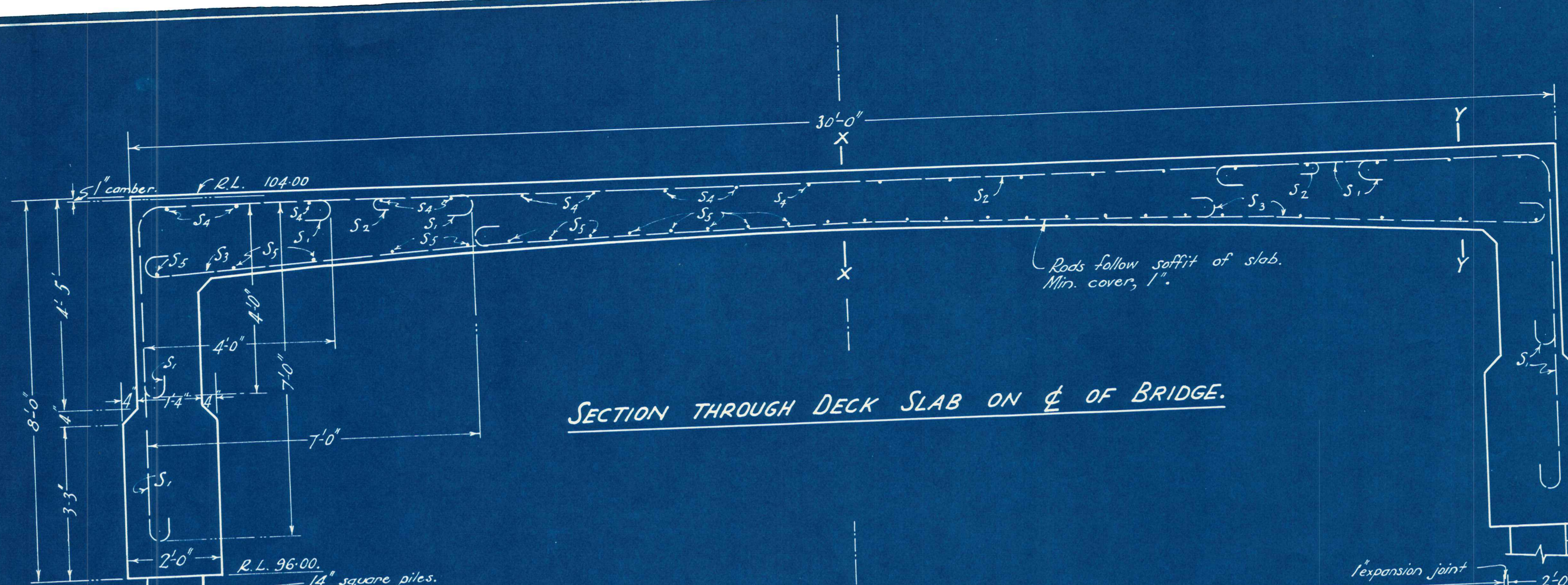


Banks.  
Cuttings  
Formation levels.  
Peg levels.  
Distances. (feet).  
Peg Nos.  
Gradients

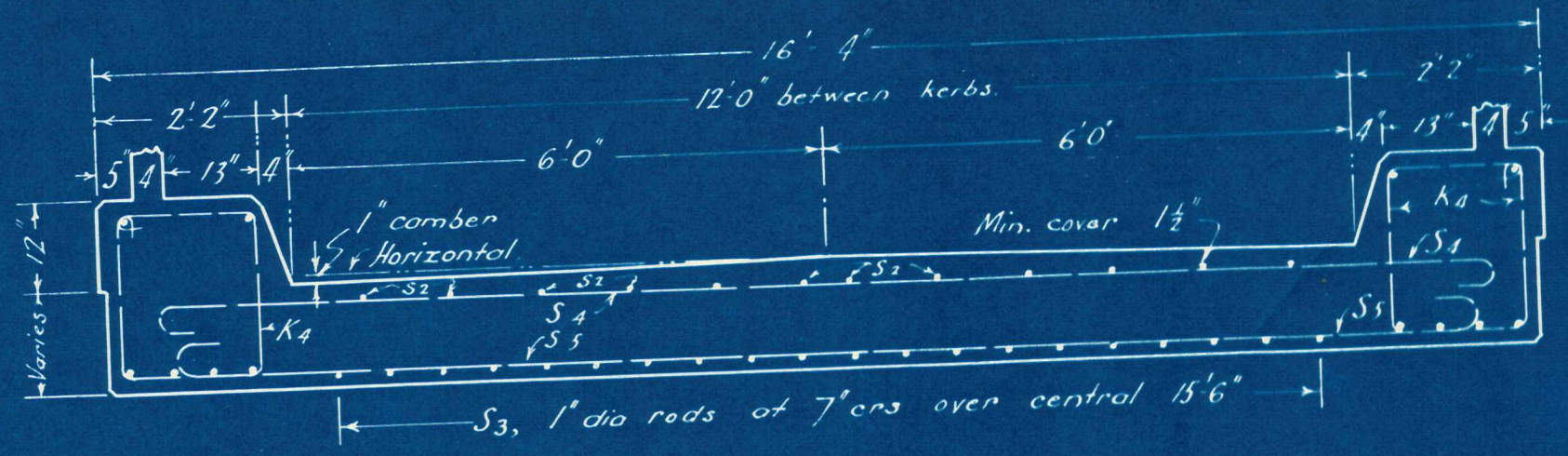
SECTIONAL ELEVATION.  
Scales: Horizontal, 1 ch. to an inch.  
Vertical, 10 ft. " " "

CONTRACT NO 324	MANIOTOTO COUNTY COUNCIL. HALL DODGERS BRIDGE. GIMMERBURN-WAIPIATA ROAD.	DRAWING NO 15 F.J. Williams, Civil Engineers & Surveyors. DUNEDIN. 1946
	Scales as shown.	SHEET No 1 OF 4 SHEETS.

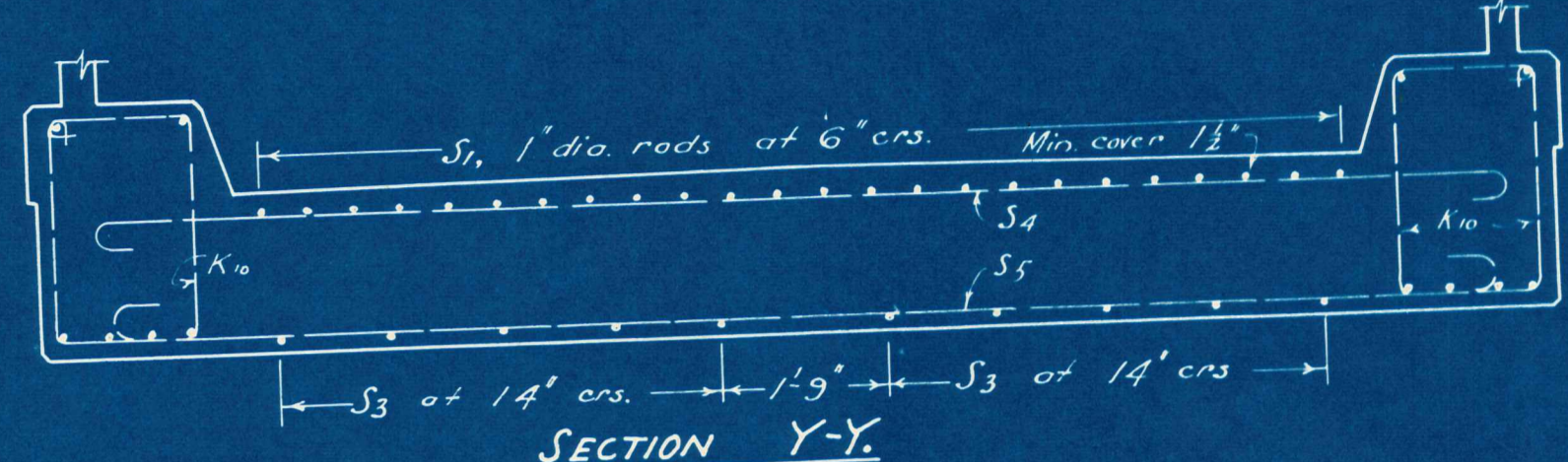
not built, 174  
M.C.C. 187a.



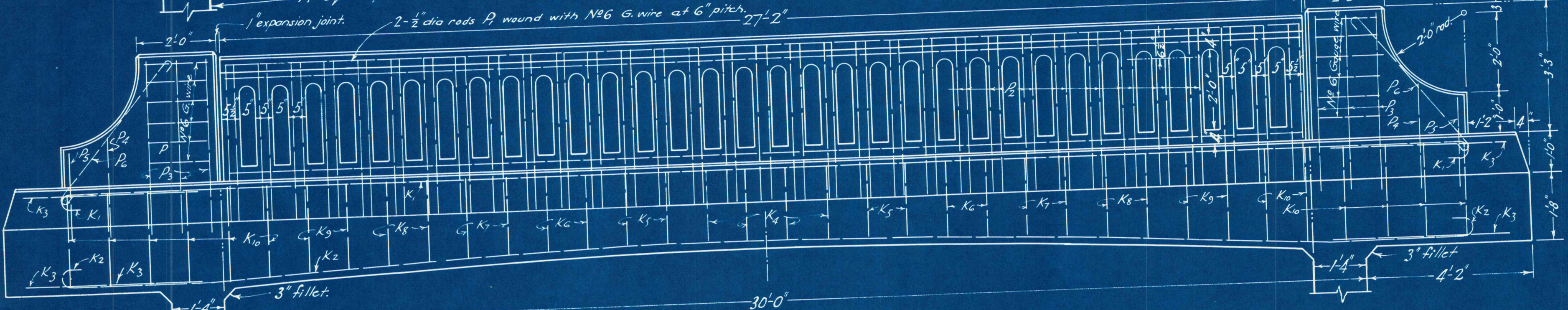
SECTION THROUGH DECK SLAB ON CL OF BRIDGE.



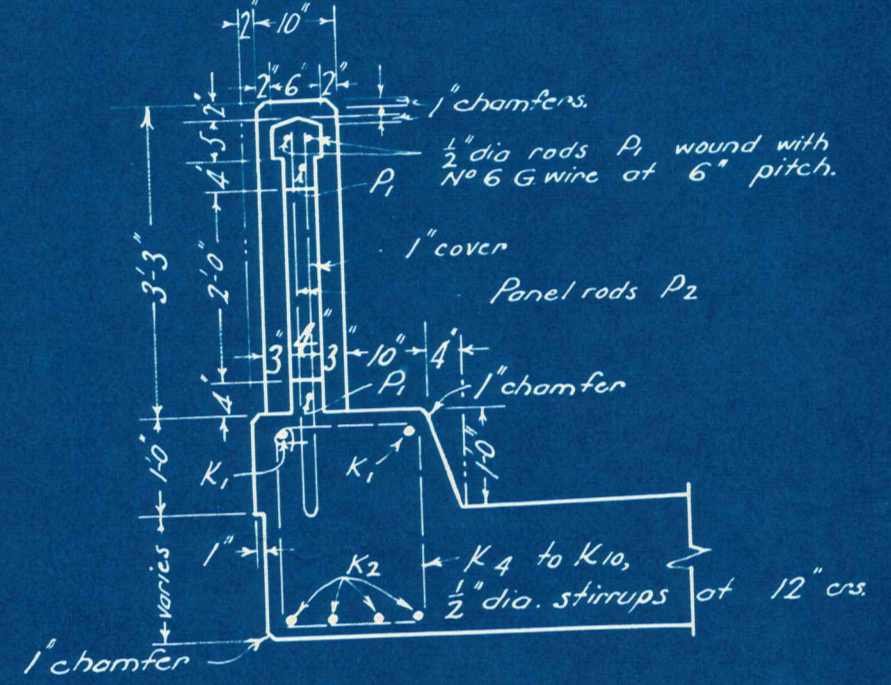
SECTION X-X AT CL OF SPAN.



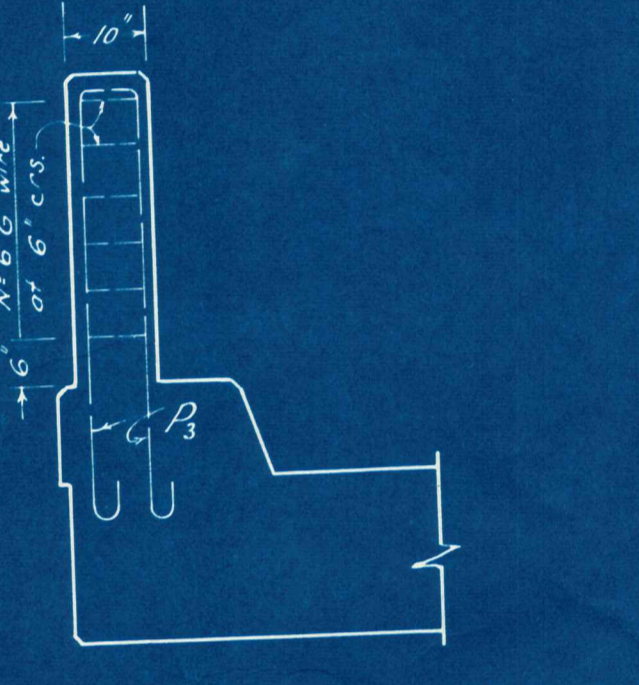
SECTION Y-Y.



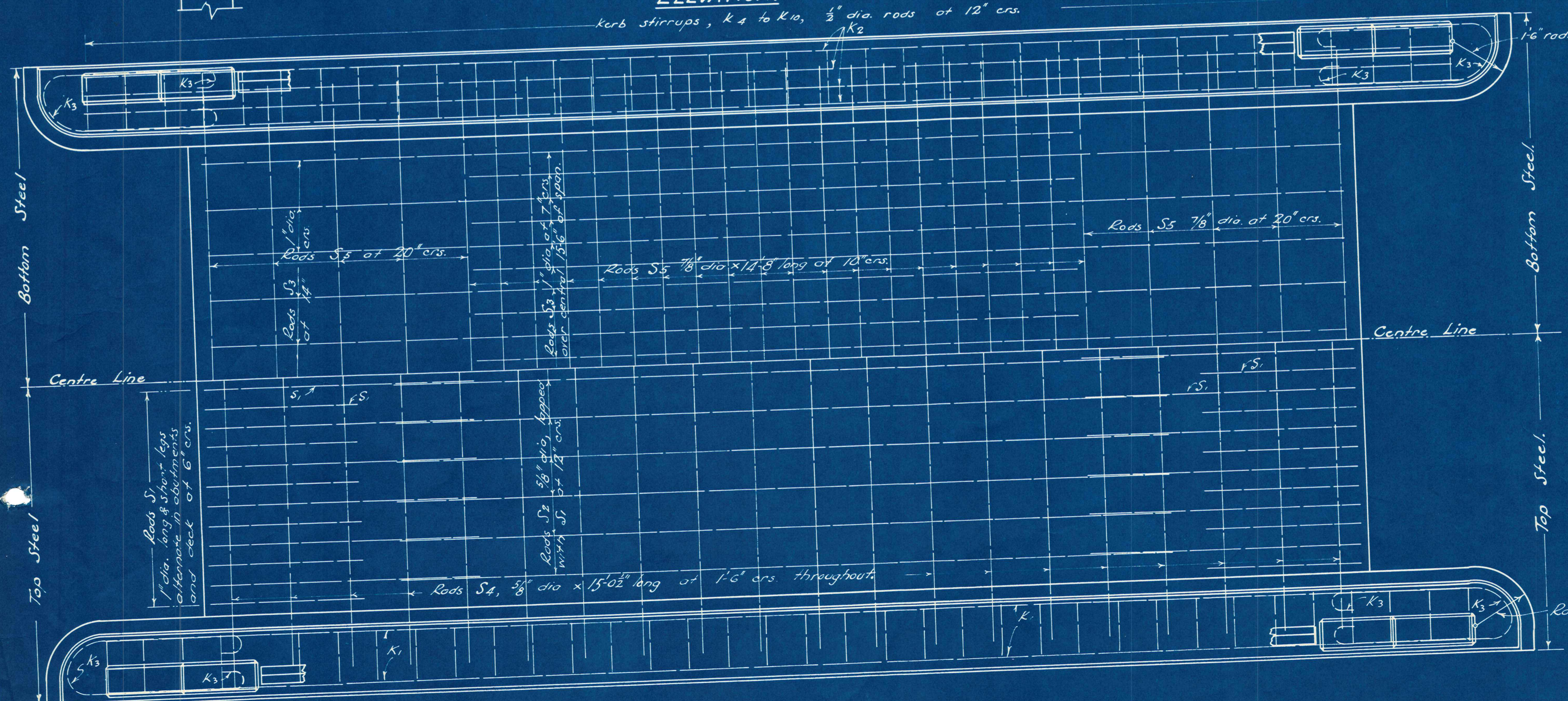
ELEVATION.



SECTION SHOWING PANEL REINFORCEMENT.



SECTION SHOWING POST REINFORCEMENT.



HALF PLANS SHOWING DECK AND KERB REINFORCEMENT.

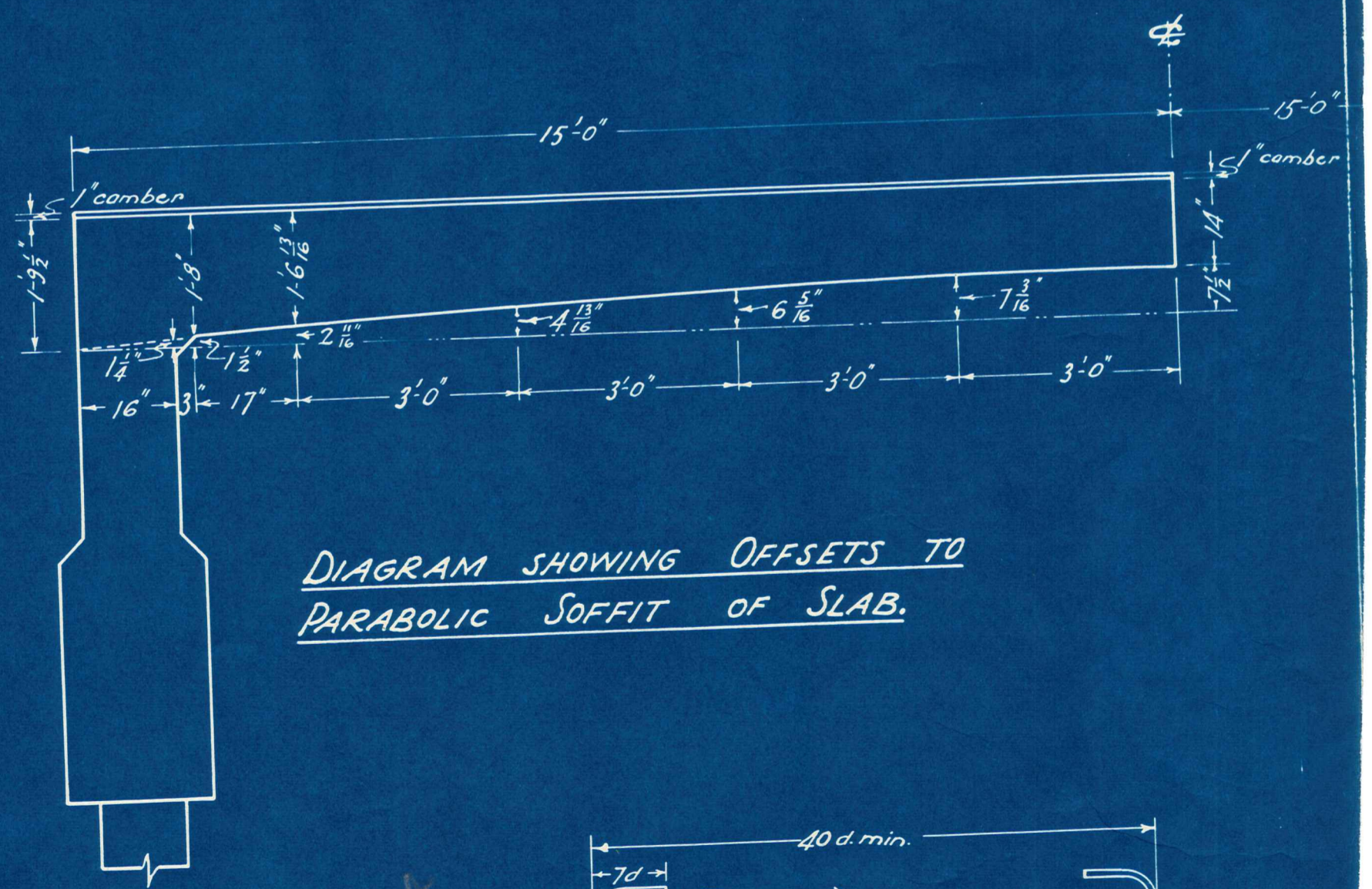
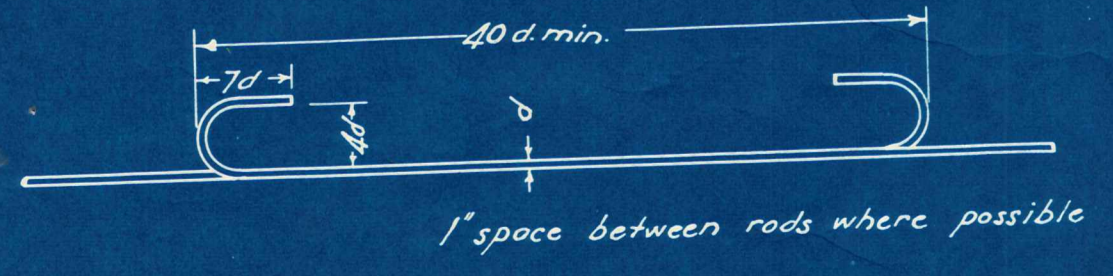
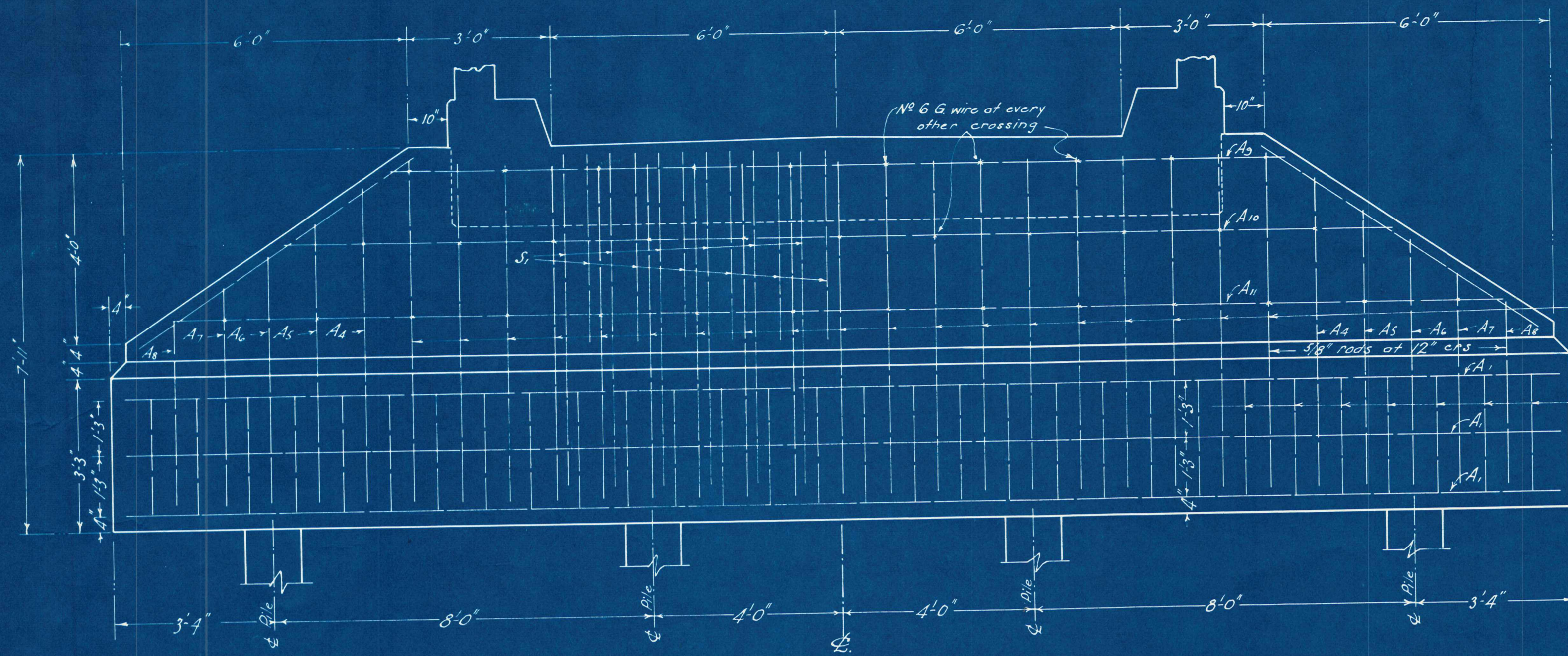


DIAGRAM SHOWING OFFSETS TO PARABOLIC SOFFIT OF SLAB.

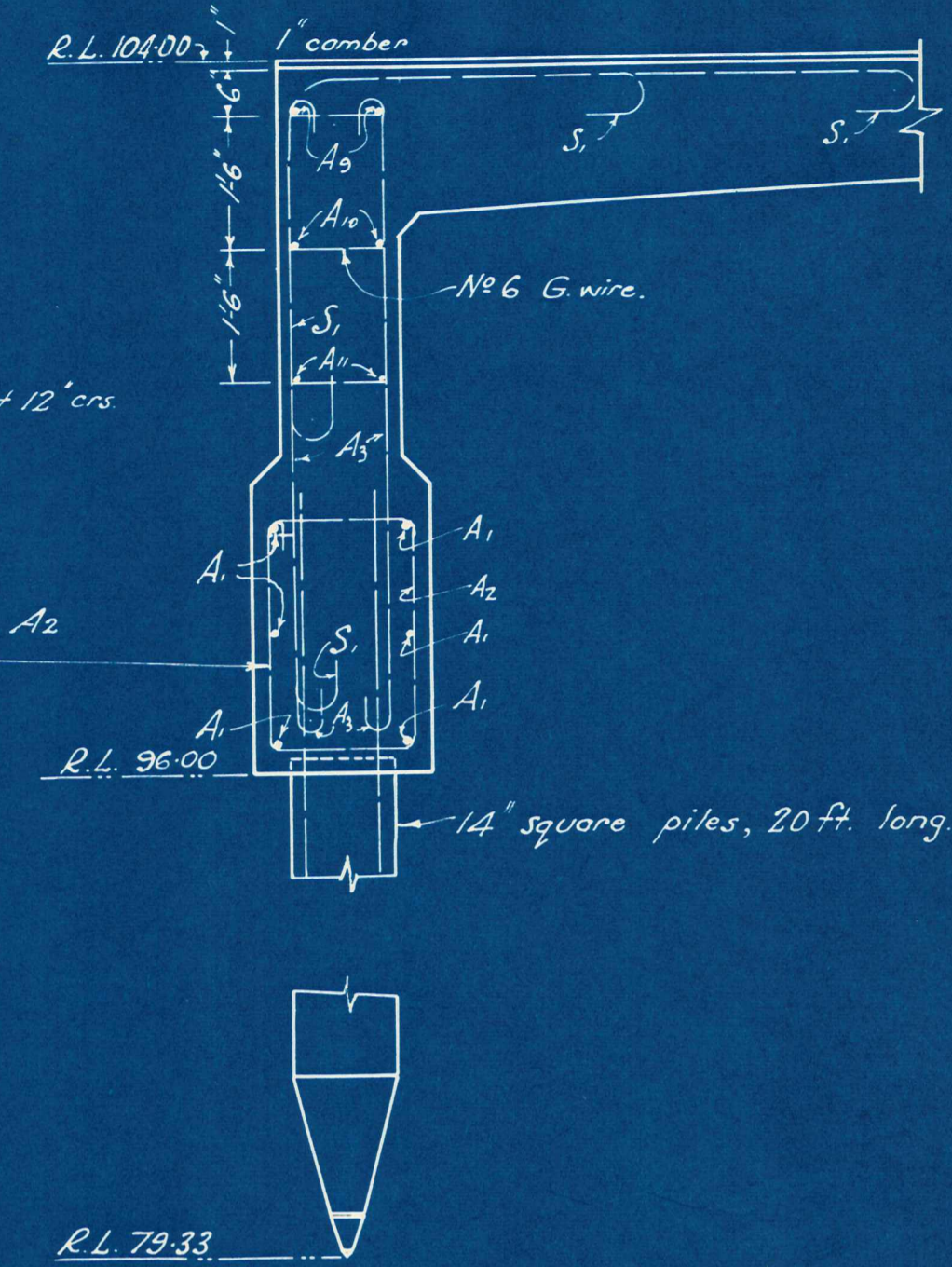


TYPICAL LAP & HOOK.

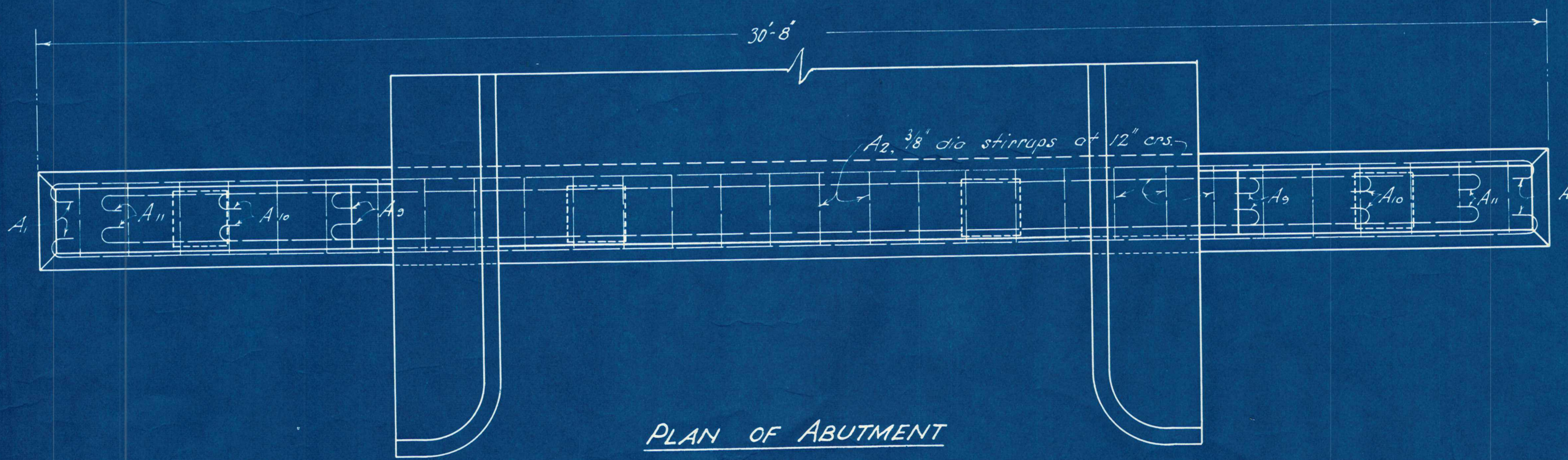
CONTRACT No	MANIOTOTO COUNTY COUNCIL. HALL DODGERS BRIDGE. GIMMERBURN-WAIPATA ROAD.	DRAWING No 15 F.J. WILLIAMS, Civil Engineers & Surveyors, DUNEDIN. 1926
Scale, 1/2 in. = 1 ft.		SHEET No 2 of 4 SHEETS



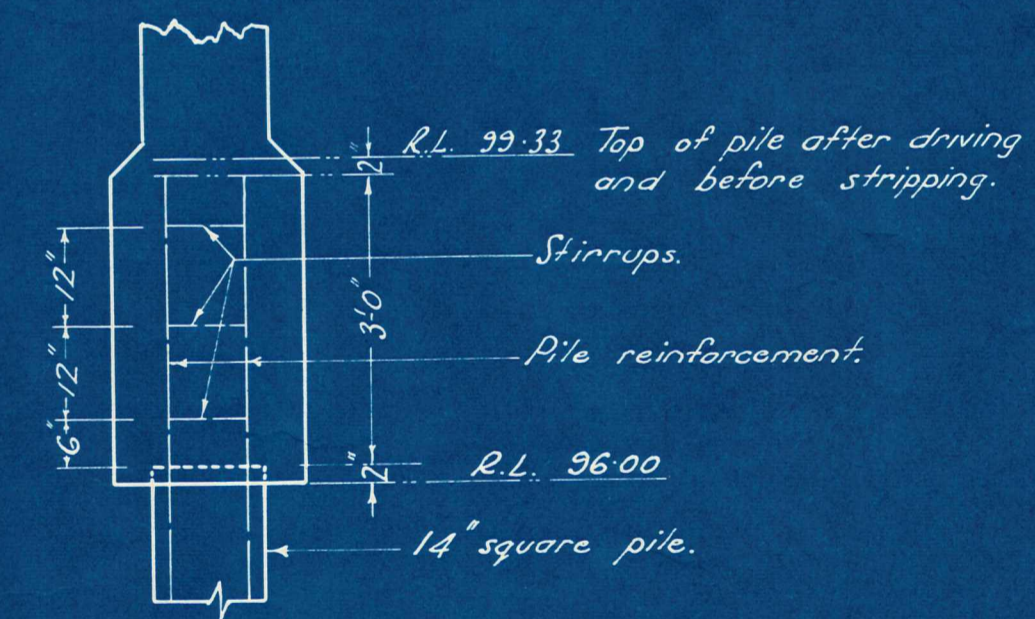
ELEVATION OF ABUTMENT.  
(Rods  $S_1$  omitted in half elevation for clarity.)



SECTION OF ABUTMENT.



PLAN OF ABUTMENT

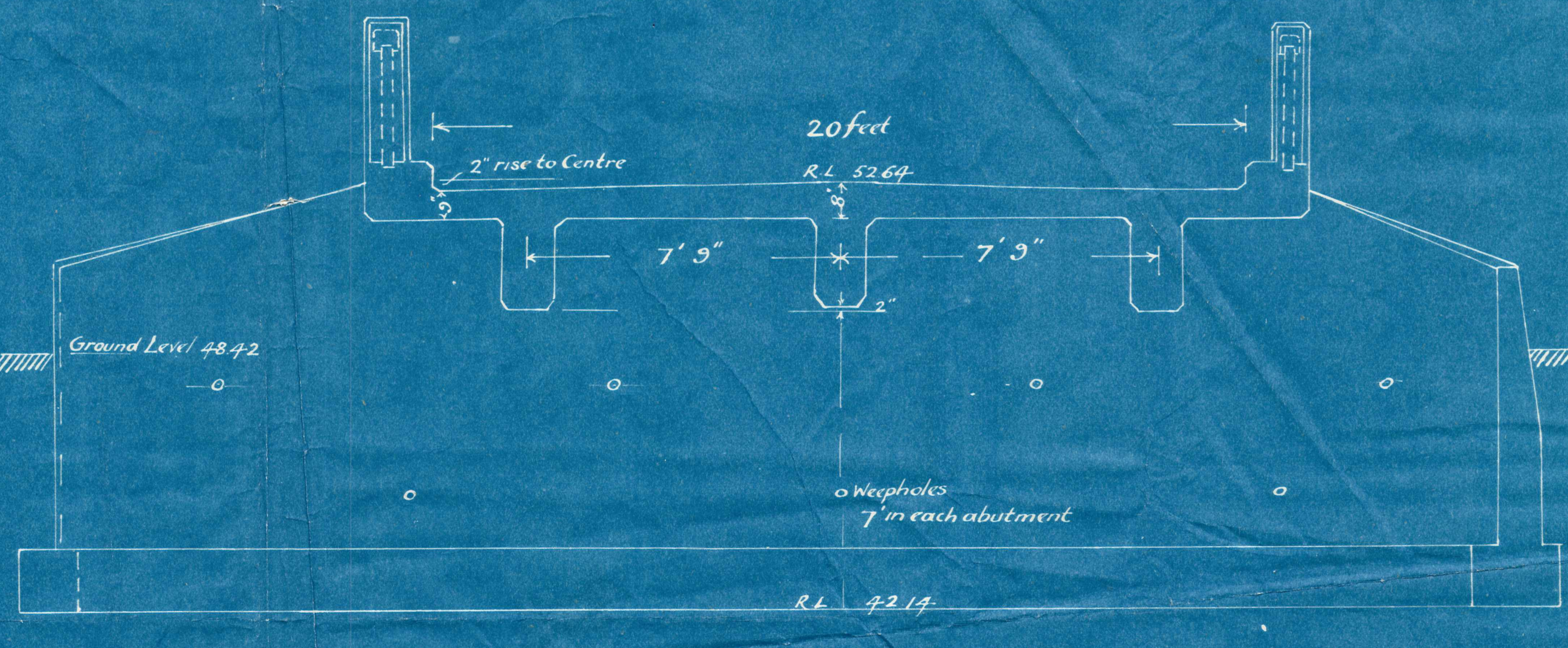
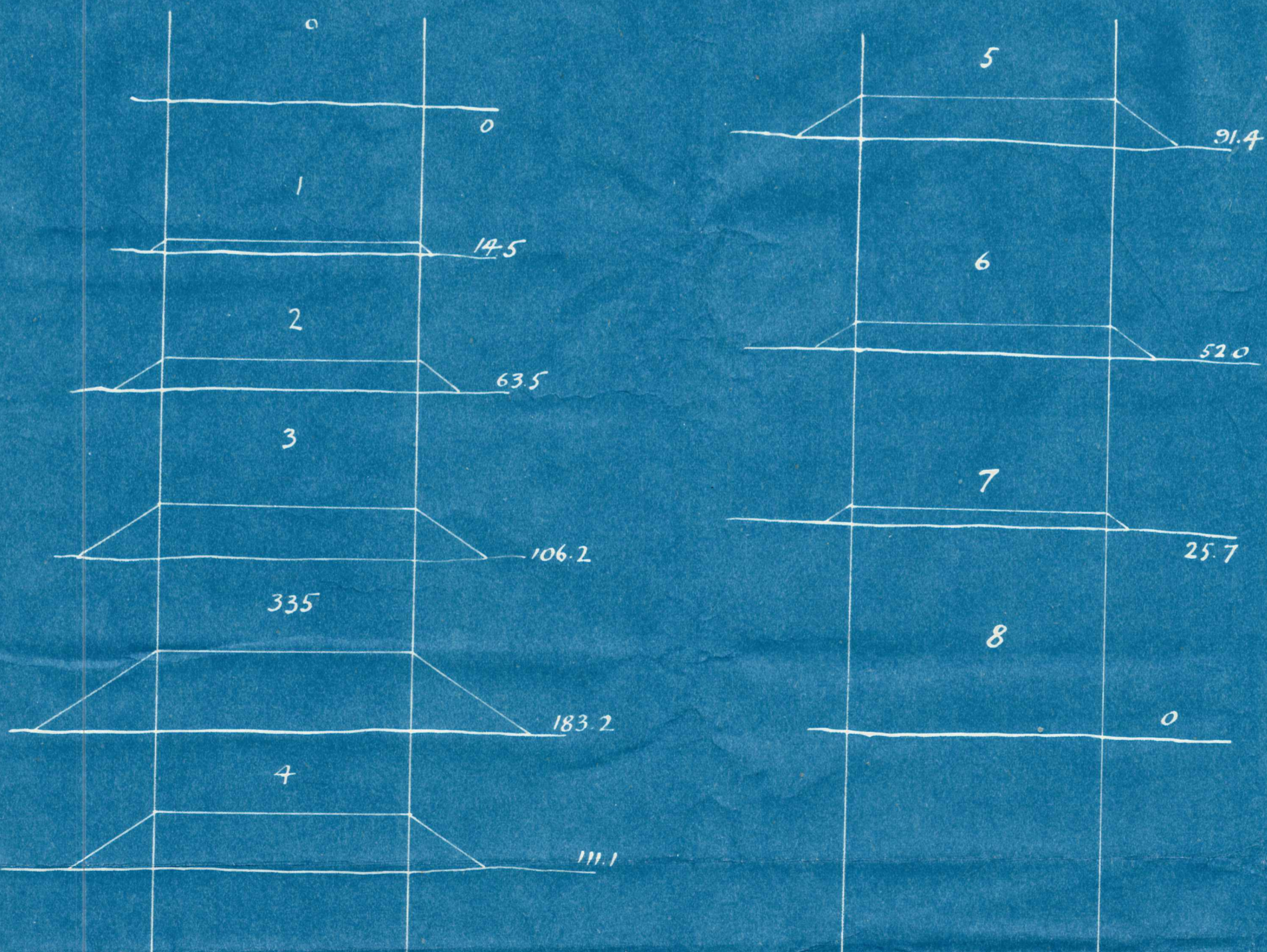
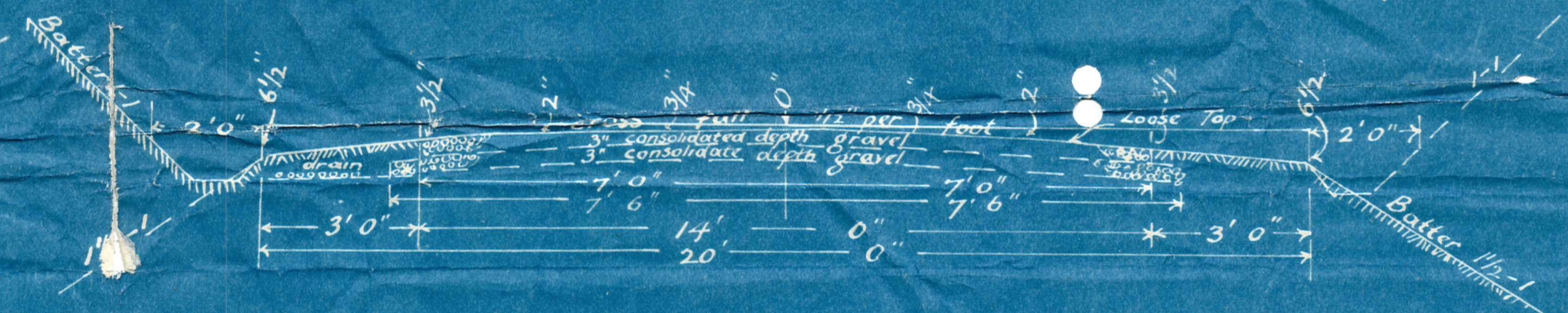
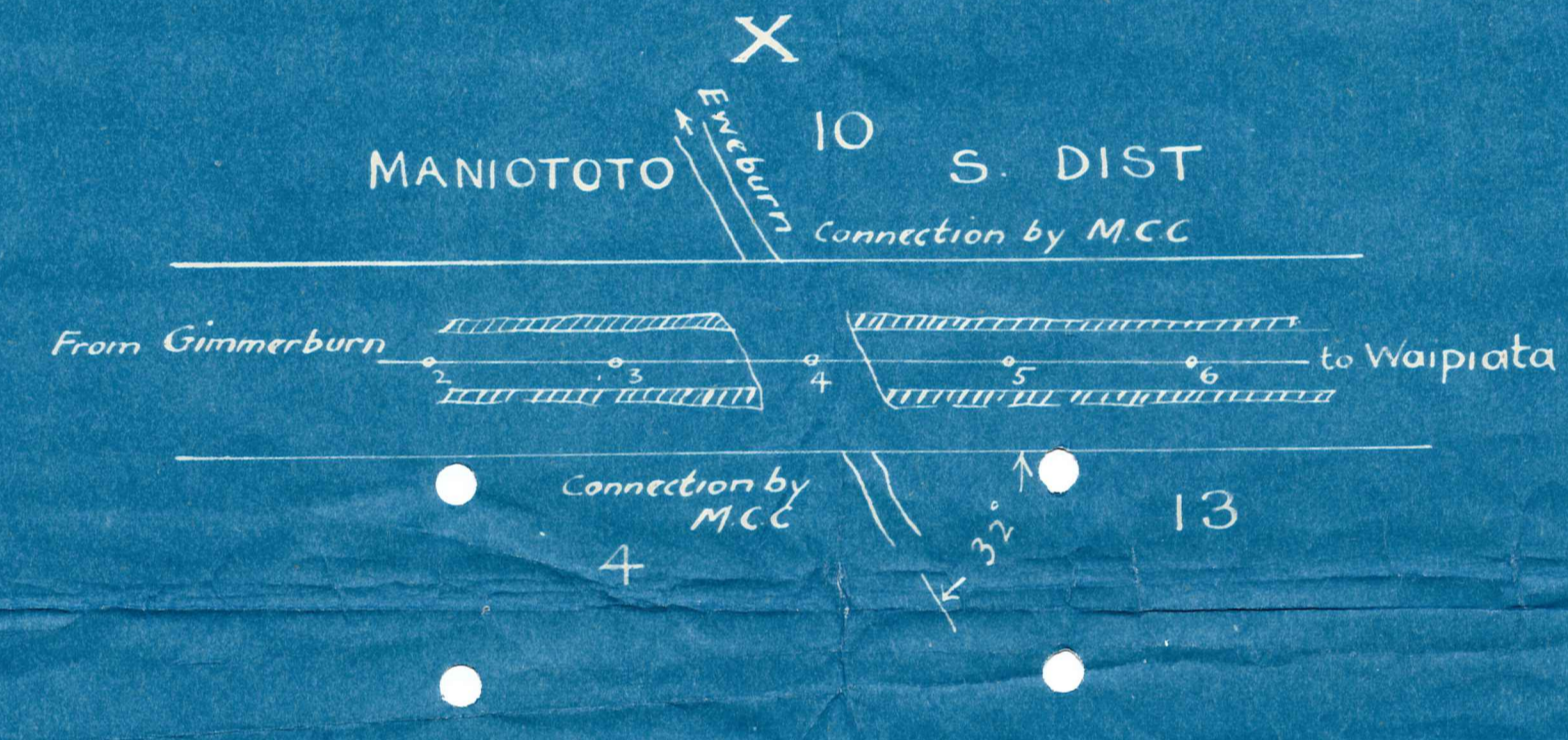
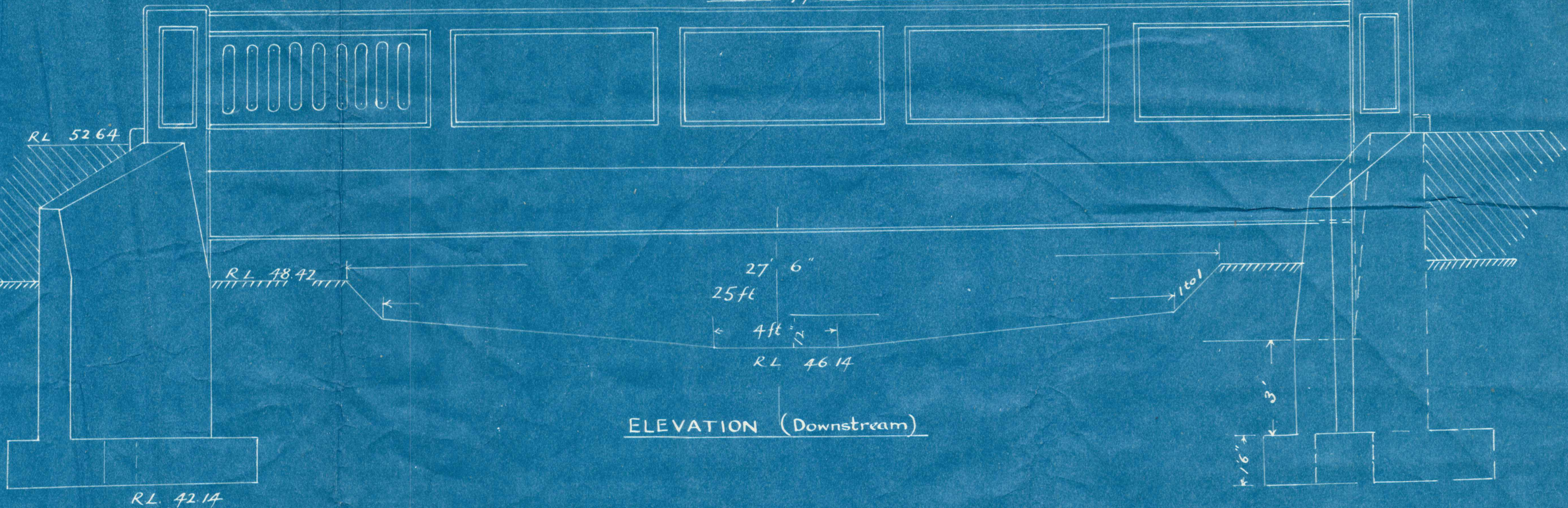
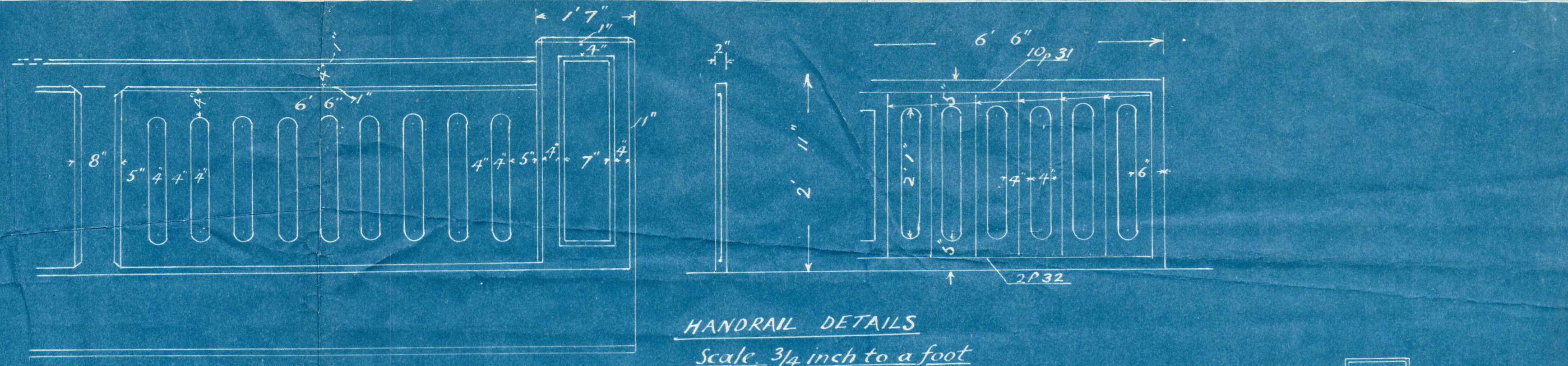
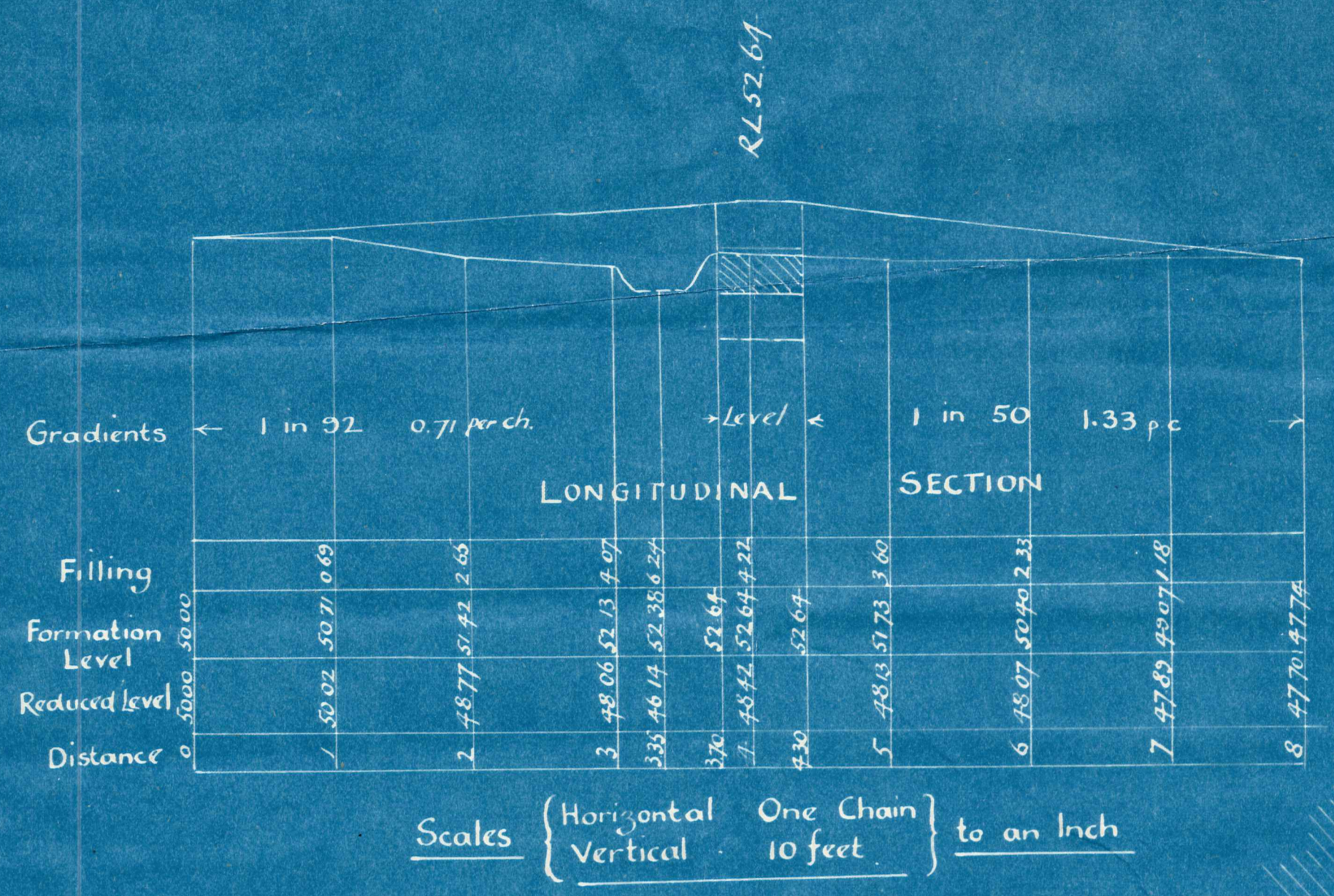


Concrete in pile head to be completely cut away for the distance shown and stirrups removed. 3 stirrups to be replaced as shown.

STRIPPING OF PILE HEAD.

not built  
M.C.C. 1970

CONTRACT No	MANICOTO COUNTY COUNCIL. HALL DODGERS BRIDGE. GIMMERBURN - WAIPIATA ROAD	DRAWING No 15 F.J. WILLIAMS, Civil Engineers & Surveyors DUNEDIN
Scale,	$\frac{1}{2}$ in = 1 ft.	SHEET No 3 of 4 SHEETS.



CONTRACT No. 324  
 SHEET No 1

BRIDGE OVER EWEBURN (HALL'S)

Scales 3/8" to a foot and as shown.

16/5/41  
 M.C.C. 155.

August 1941

Engineer  
 Maniototo County Council