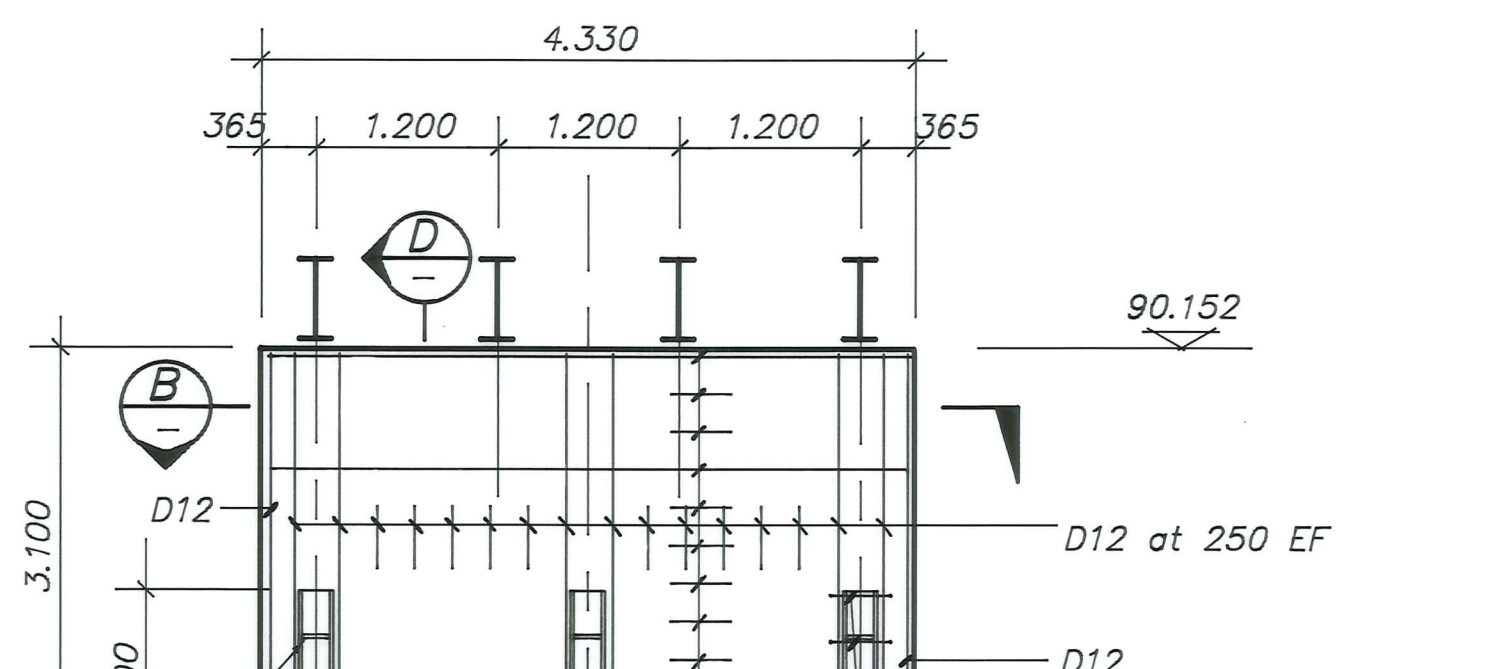
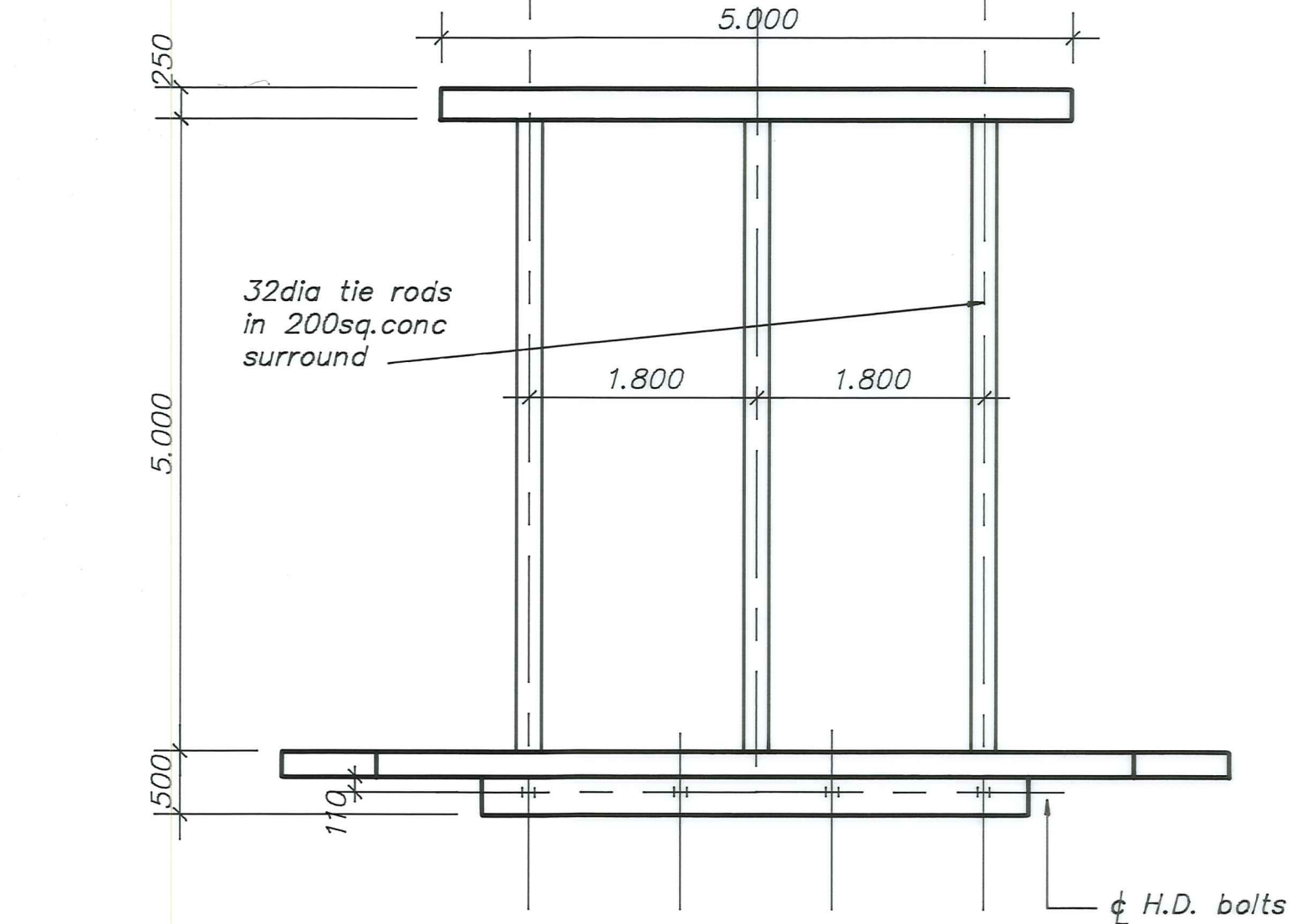


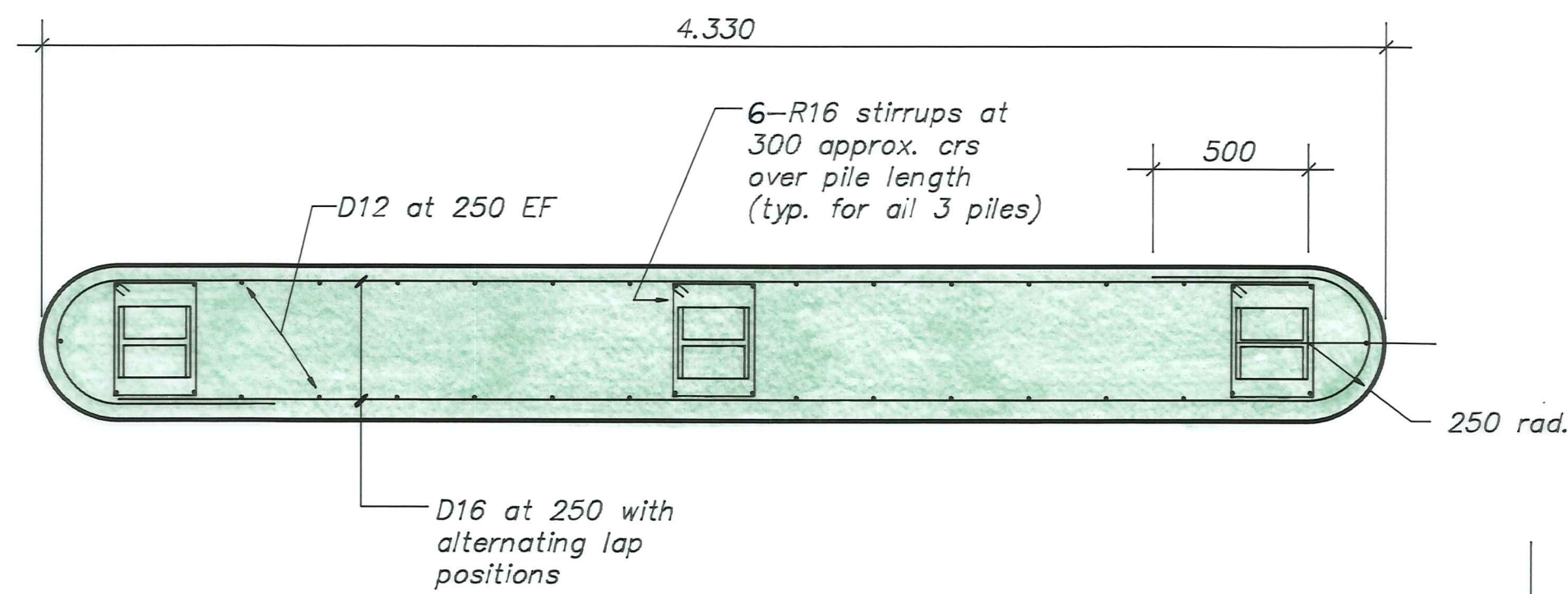
ABUTMENT ELEVATION (2-OFF)
1:50



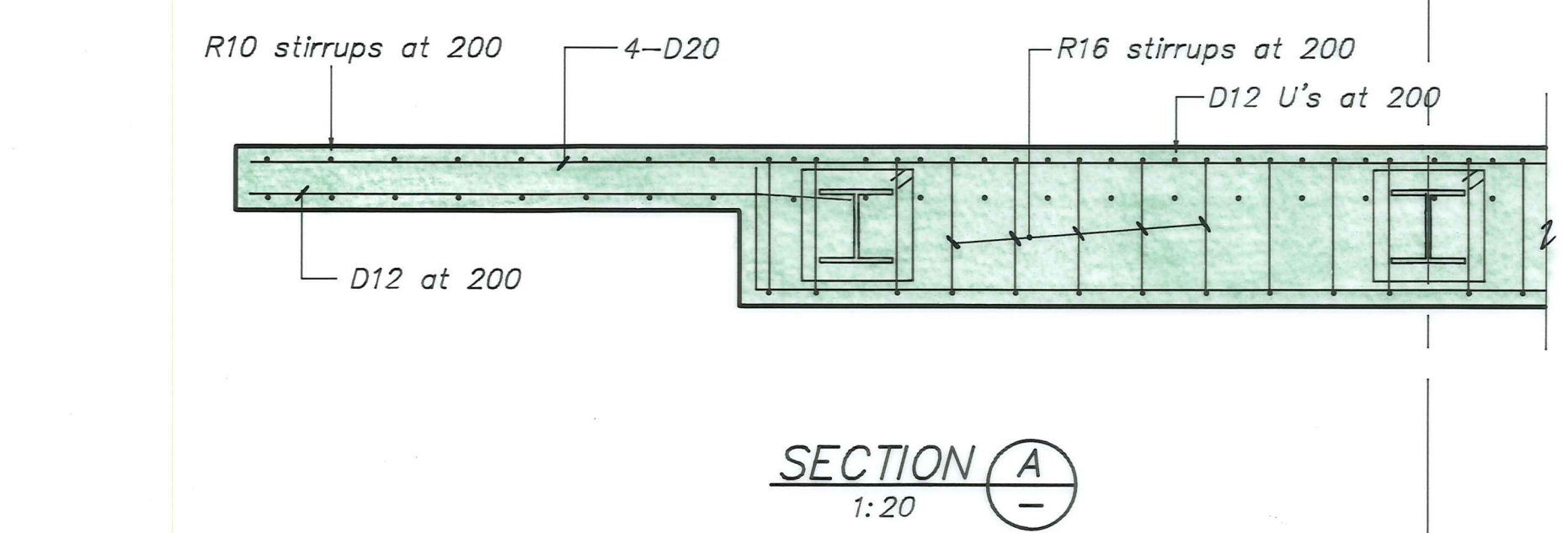
PIER ELEVATION (2-OFF)
1:50



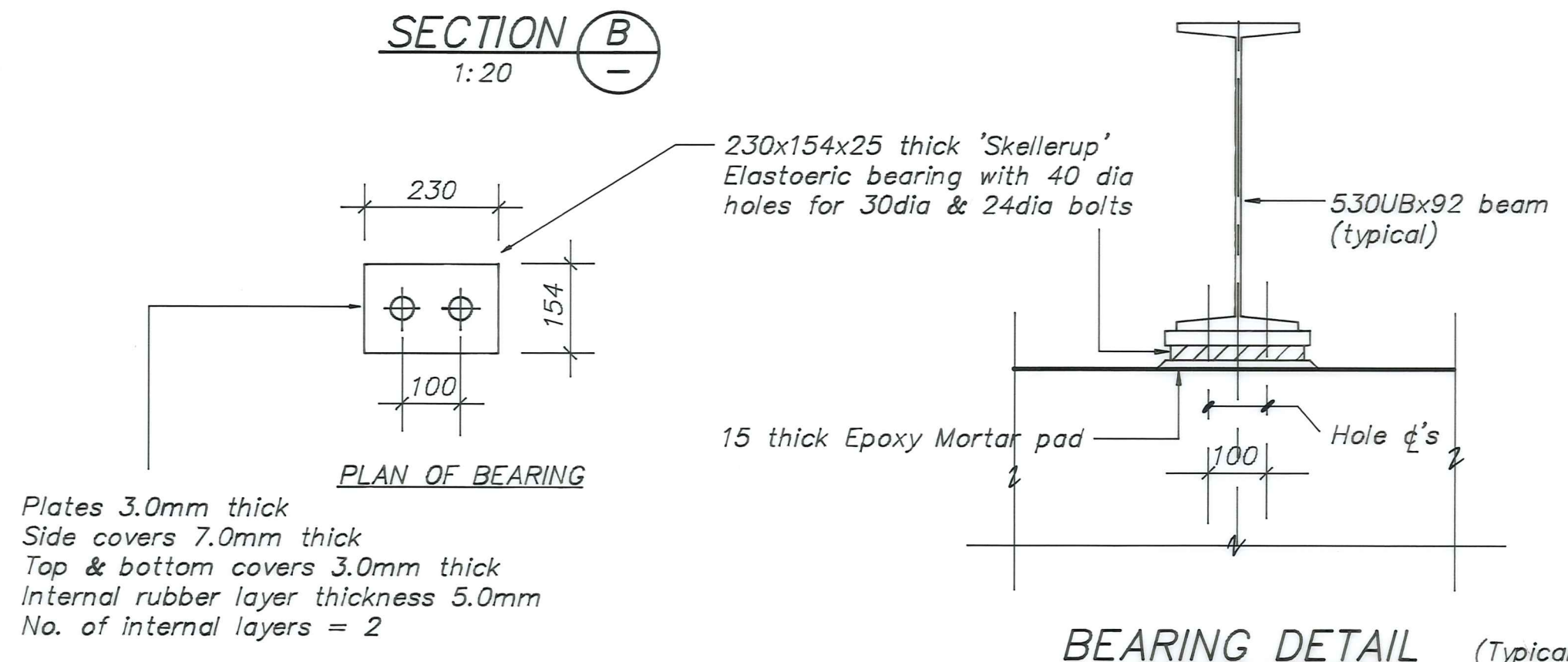
ABUTMENT PLAN
1:50



PIER PLAN
1:50

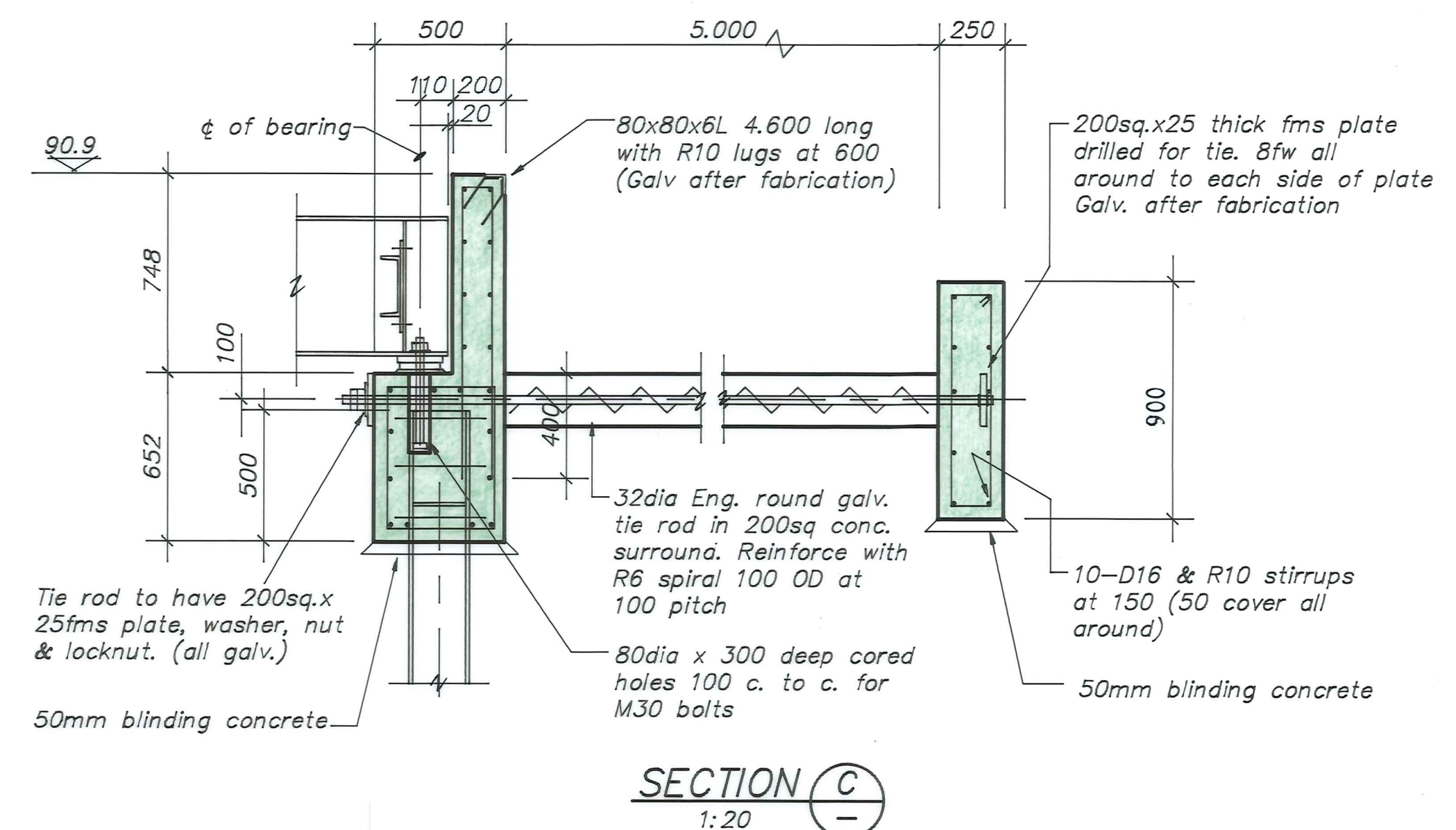


SECTION A
1:20

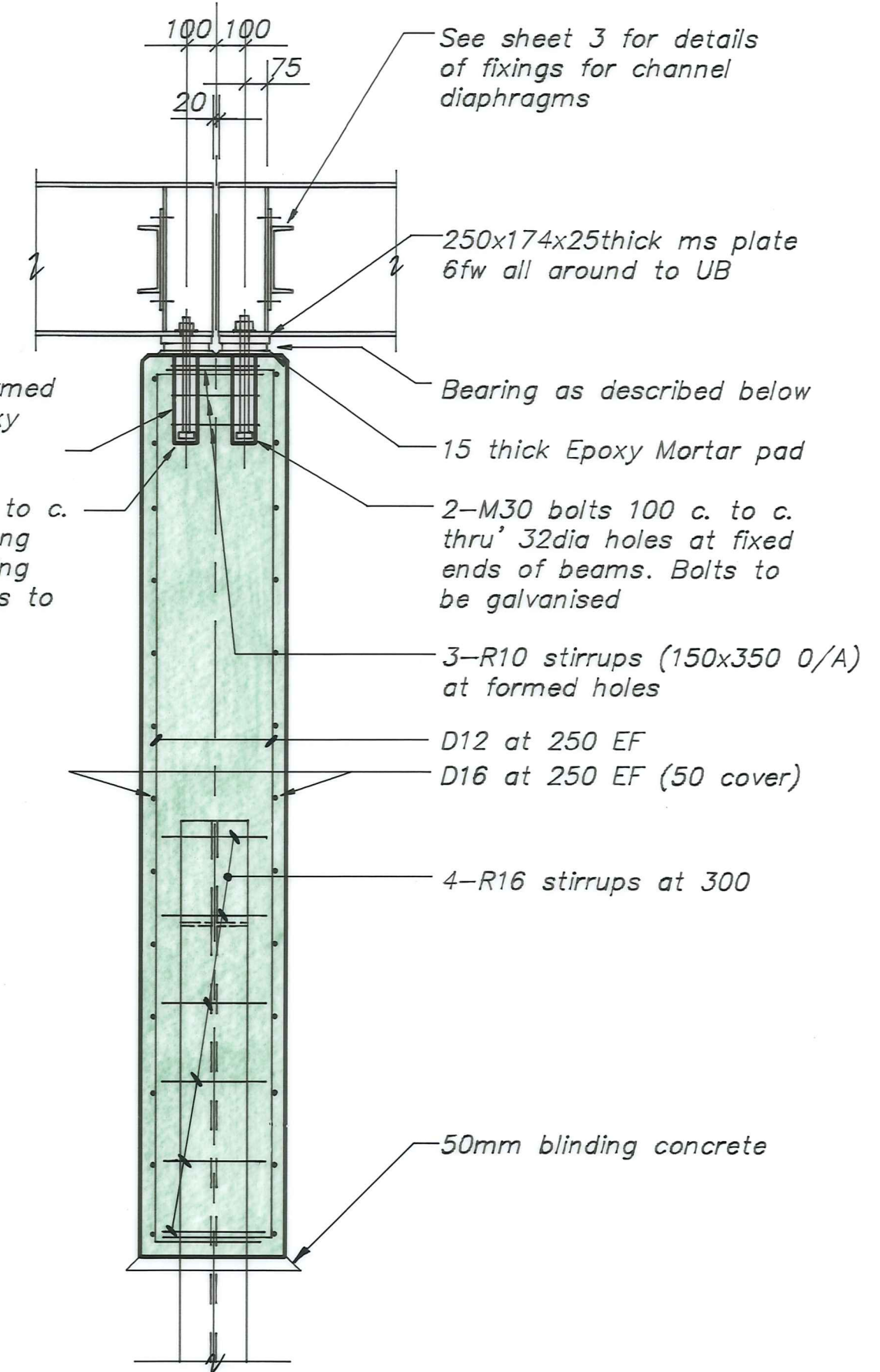


SECTION B
1:20

BEARING DETAIL
1:10



SECTION C
1:20



SECTION D
1:20

NOTES:
1 Cover to reinf. to be 50mm unless otherwise shown
2 All exposed concrete edges to be chamfered 20mmx20mm

No.	Revisions	Date	Appvd

Designed	B.K. WALKER	Date	SEPT '00	Print Date
Drawn	E.R. WILSON	"	"	"
Checked	[Signature]	"	NOV '99	"
Approved	[Signature]	"	"	"
File	6/9/34	L.B.	aBRG--E-	

DUFFILL WATTS & KING LTD
Consulting Civil & Structural Engineers
Dunedin Invercargill Alexandra Queenstown

Client: **MANIOTOTO COUNTY COUNCIL**

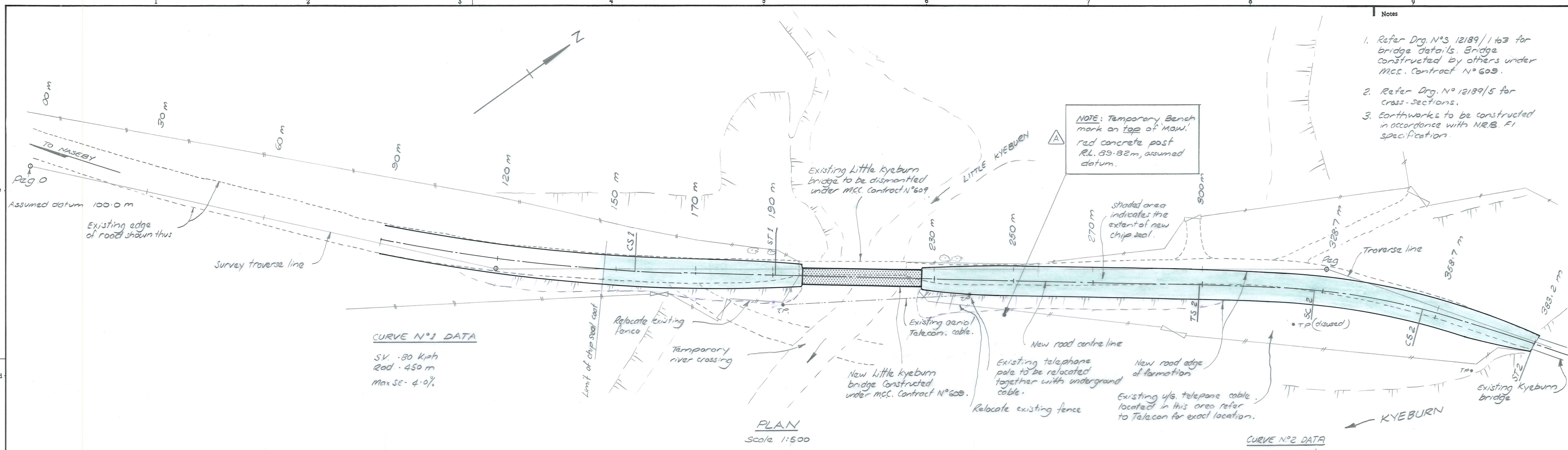
Project: **LITTLE KYEBURN BRIDGE No.54 REPLACEMENT**

Sheet Title: **ABUTMENT & PIER DETAILS**

Job No.	Sheet No.	Revision
12189	2	of 2 sheets

ORIGINAL SIZE mm

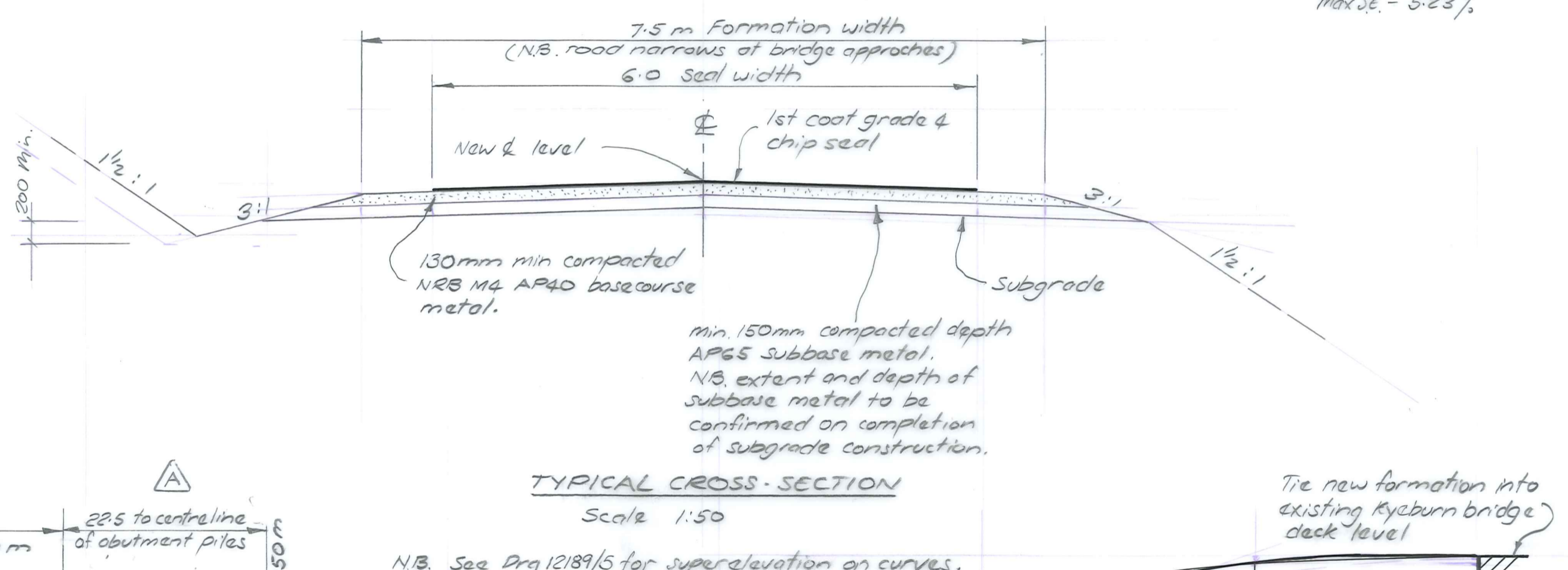
- Notes
1. Refer Drg. N°s 12189/1 to 3 for bridge details. Bridge constructed by others under M.C.C. Contract N° 609.
 2. Refer Drg. N° 12189/5 for cross-sections.
 3. Earthworks to be constructed in accordance with N.R.B. F1 specification.



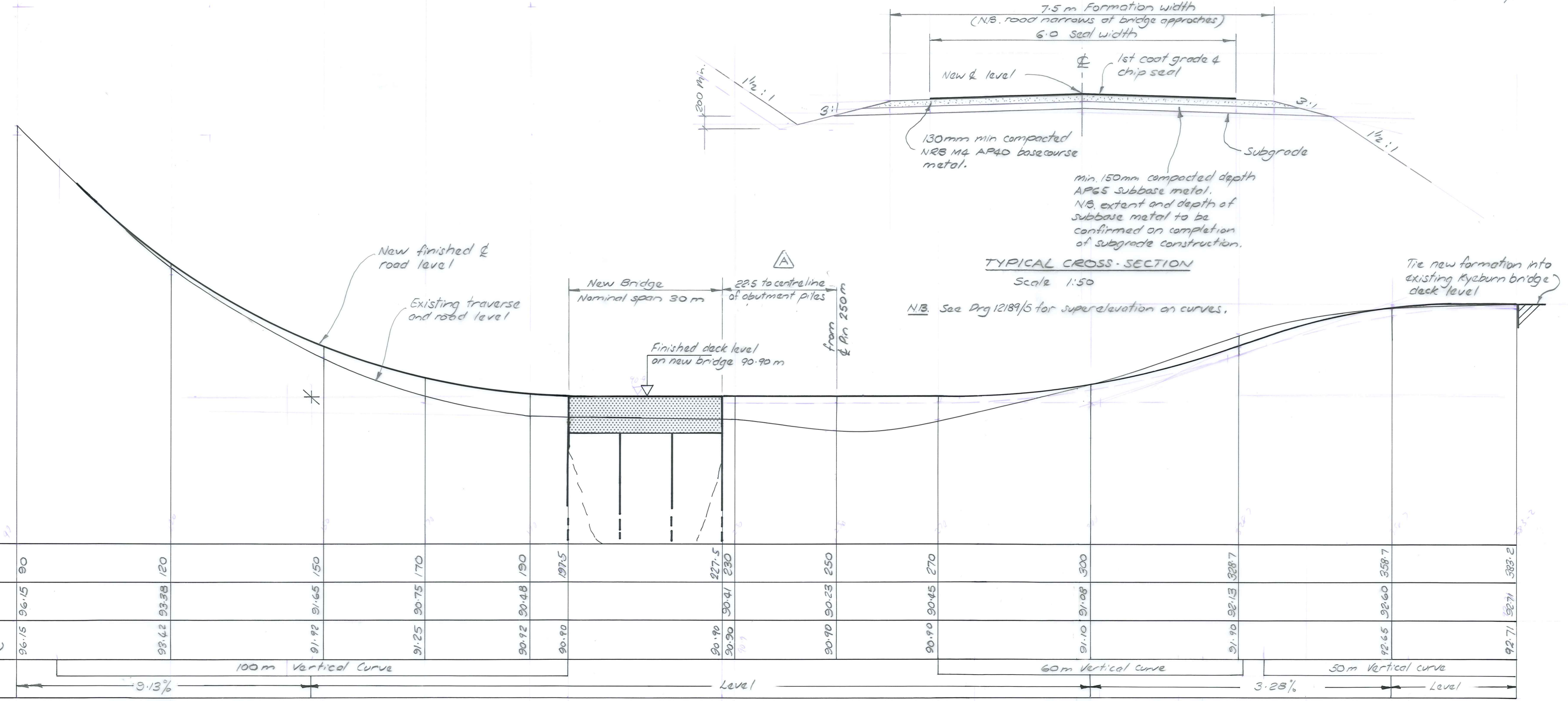
CURVE N°1 DATA
 S.V. - 80 Kph
 Rad. - 450 m
 Max. Sc. - 4.0%

CURVE N°2 DATA
 S.V. - 70 Kph
 Rad. - 180 m
 Max. Sc. - 5.23%

PLAN
 Scale 1:500



TYPICAL CROSS-SECTION
 Scale 1:50



LONGITUDINAL SECTION
 Scales: HORIZ. 1:500
 VERT. 1:50

No.	Revisions	Date	Appvd
A	Bench mark and bridge set out details added	22.12.87	

Designed	M. J. COOPER	Date	11.87	Print Date
Drawn	"	"	"	"
Checked	[Signature]	15.11.88		
Approved	[Signature]	19.12.88		
File	6/9734	L.B.	MCC 540	

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Project
LITTLE KYEBURN BRIDGE No. 54 REPLACEMENT

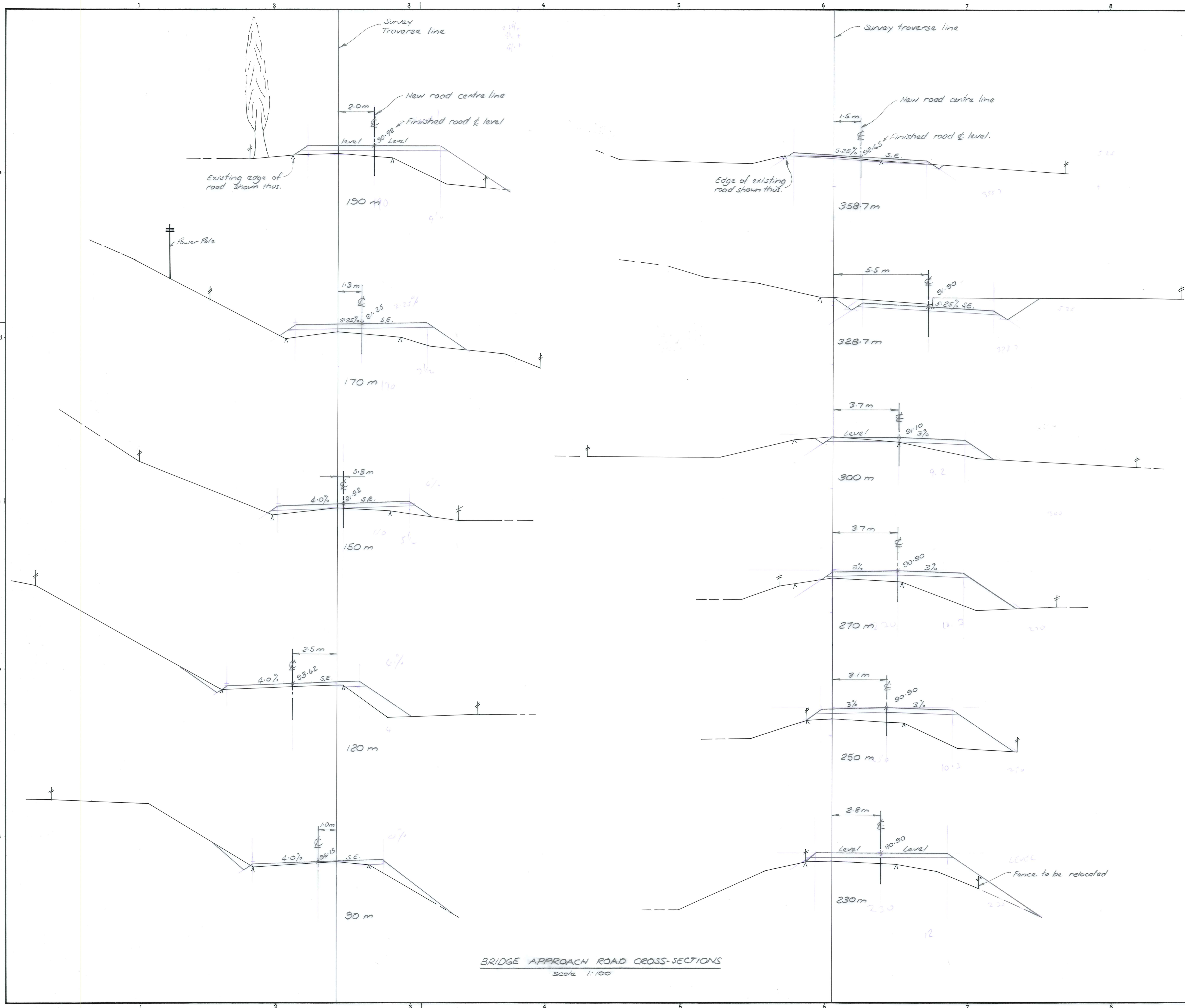
Sheet Title
BRIDGE APPROACH DETAILS

Job No.	12189	Sheet No.	4	Revision	A
		of	4	shts	

ORIGINAL SIZE mm

Notes
 1. Refer Drg. N° 12189/a for Typical cross-section.

ORIGINAL SIZE mm
 0 10 30 50 100 150 200 300



BRIDGE APPROACH ROAD CROSS-SECTIONS
 Scale 1:100

No.	Revisions	Date	Appvd

Designed	M.J. COOPER	Date	Nov 88	Print Date
Drawn	"			
Checked	<i>[Signature]</i>		13/12/88	
Approved	<i>[Signature]</i>		19/12/88	
File	6/9/34	L.B.	M.C. 540	

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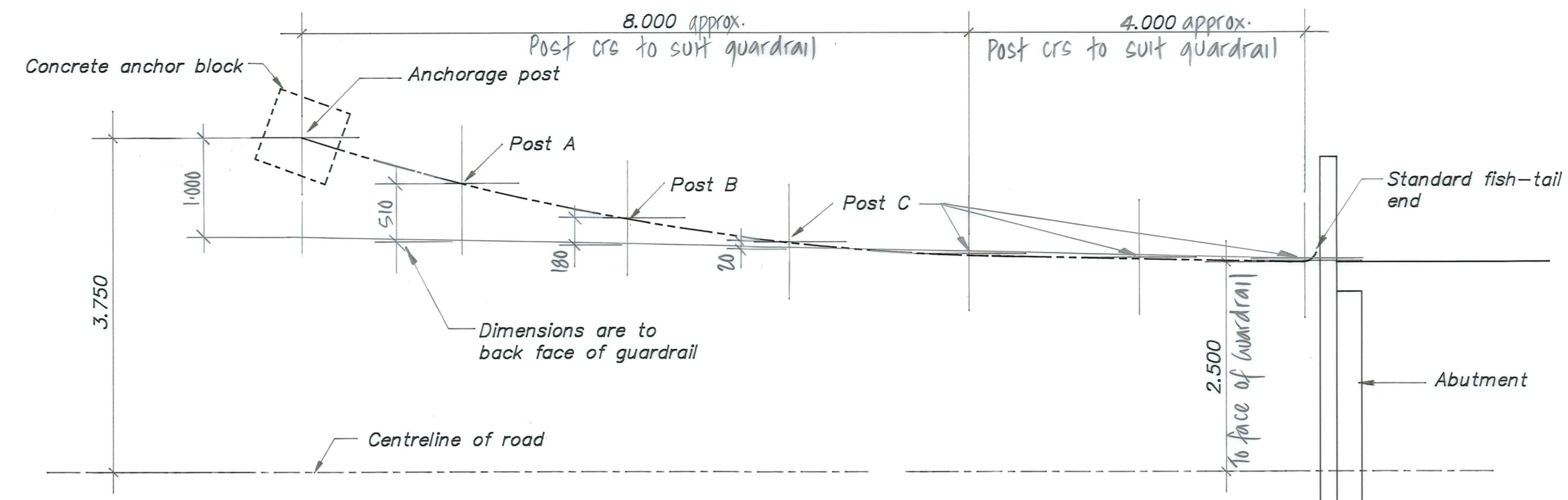
Client
MANIOTOTO COUNTY COUNCIL

Project
LITTLE KYEBURN BRIDGE No. 54 REPLACEMENT

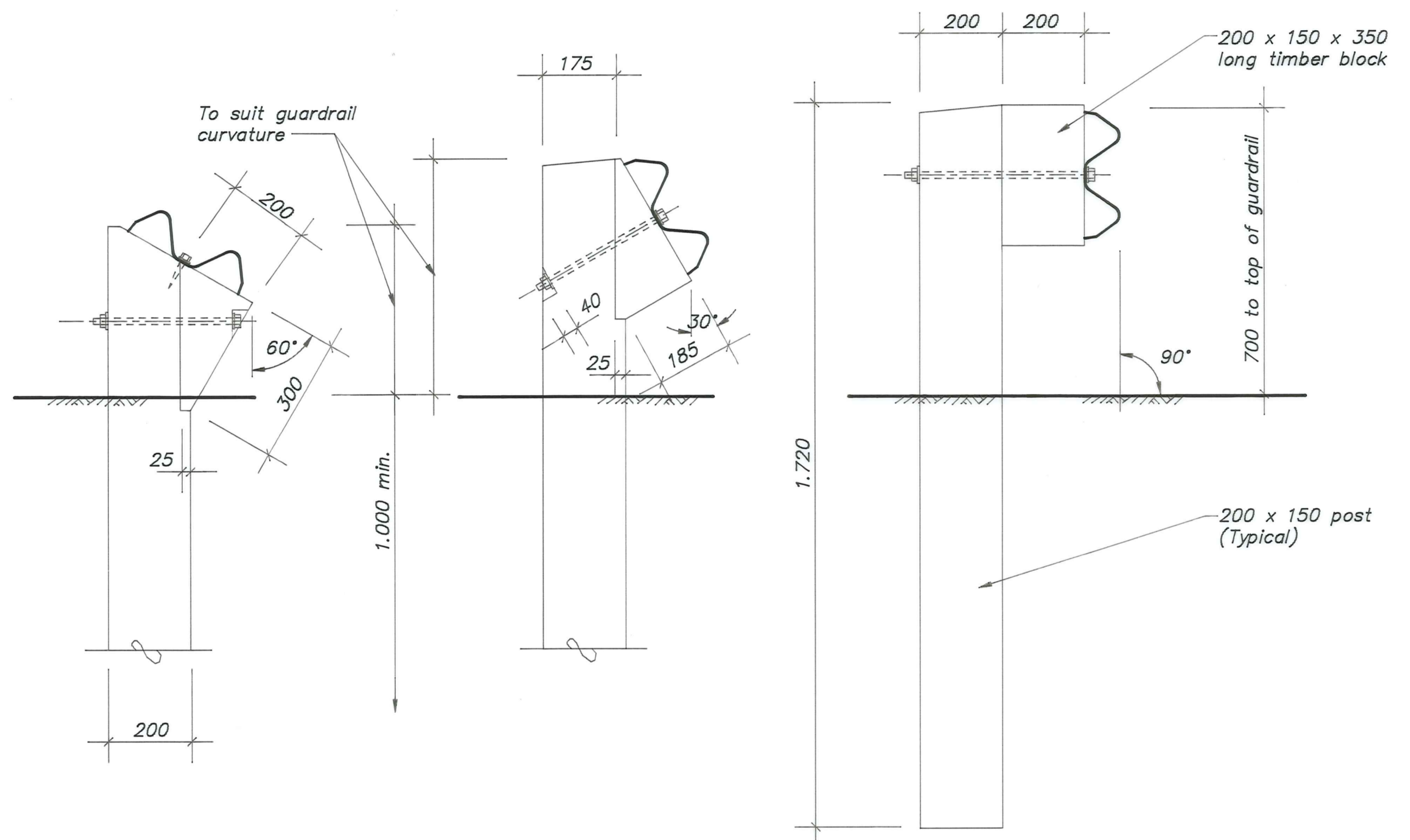
Sheet Title
BRIDGE APPROACH CROSS-SECTIONS

Job No.	Sheet No.	Revision
12189	5	
	of	shts

Notes
 All steelwork to be hot dipped galvanised after fabrication including guardrail, bolts, nuts & washers.
 All timber posts & blocks to be Pinus Radiata merchantable grade cut to size, drilled & then preservative to the Timber Preservation Authority Specification H4.



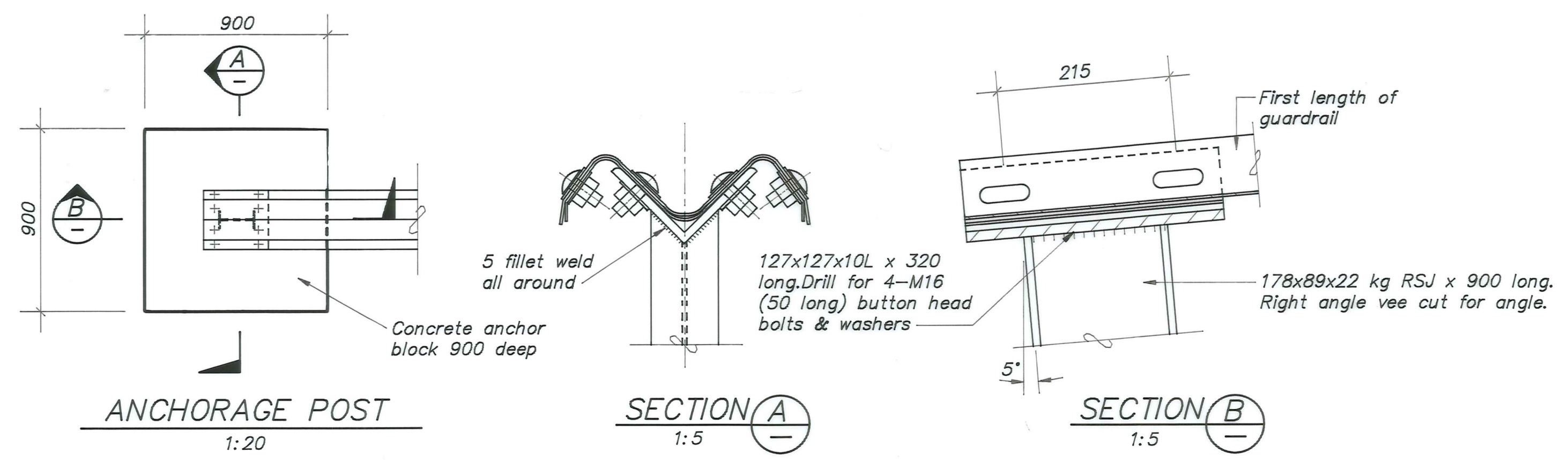
TYPICAL GUARDRAIL LAYOUT PLAN
 1:50



POST A
 1:10

POST B
 1:10

POST C
 1:10



ANCHORAGE POST
 1:20

SECTION A
 1:5

SECTION B
 1:5

No.	Revisions	Date	Appvd

Designed	Date	Print Date
Drawn J. KNOX	DEC '88	
Checked [Signature]	JAN '89	
Approved [Signature]	MAY 89	
File 6/9/34	L.B.	bBRG--D-

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Client
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Project
LITTLE KYEBURN BRIDGE No.54 REPLACEMENT

Sheet Title
GUARDRAIL DETAILS

Job No.	Sheet No.	Revision
12189	6	
	of	shts

ORIGINAL SIZE mm

