

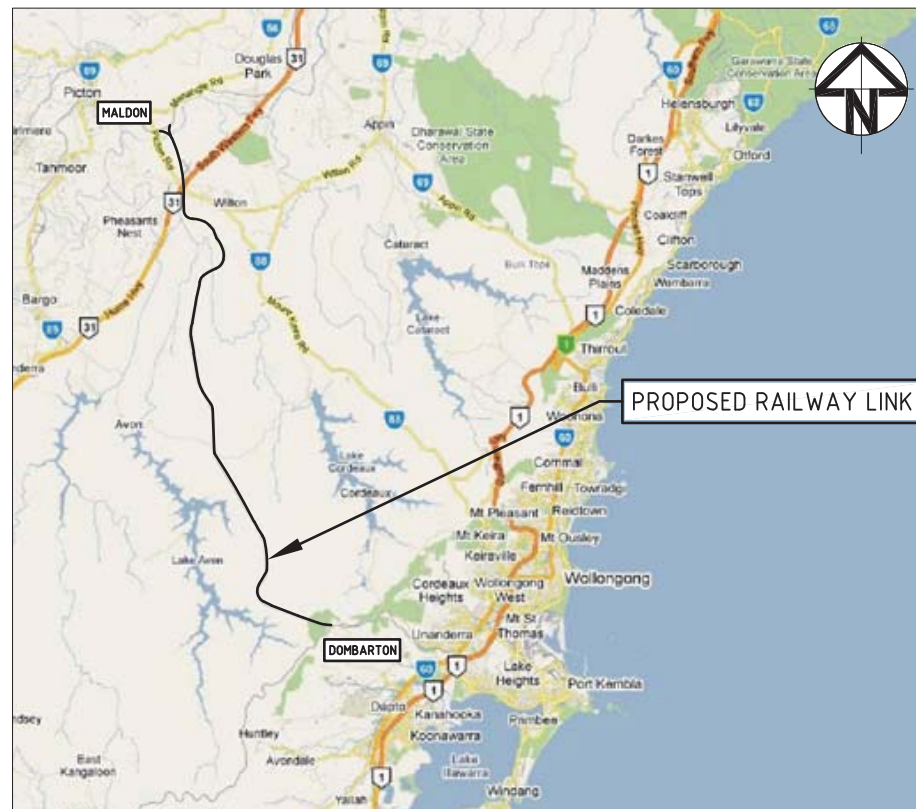
## **A Appendix: Conceptual Drawings**



ACIL Tasman

Economics Policy Strategy

# MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY



LOCALITY PLAN

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SCHEDULE OF DRAWINGS

GENERAL DRAWINGS

- C001COVER SHEET AND LOCALITY PLAN
- C002DRAWING SCHEDULE AND KEYPLAN

TRACK DRAWINGS

- C005SUMMARY OF COMPLETED WORKS (SHEET 1 OF 4)
- C006SUMMARY OF COMPLETED WORKS (SHEET 2 OF 4)
- C007SUMMARY OF COMPLETED WORKS (SHEET 3 OF 4)
- C008SUMMARY OF COMPLETED WORKS (SHEET 4 OF 4)

- C010PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 1 OF 24) 98KM100.00-99KM500.000
- C011PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 2 OF 24) 99KM500.00-101KM000.000
- C012PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 3 OF 24) 101KM000.000-102KM500.000
- C013PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 4 OF 24) 102KM500.000-104KM000.000
- C014PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 5 OF 24) 104KM000.000-105KM500.000
- C015PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 6 OF 24) 105KM500.000-107KM000.000
- C016PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 7 OF 24) 107KM000.000-108KM500.000
- C017PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 8 OF 24) 108KM500.000-110KM000.000
- C018PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 9 OF 24) 110KM000.000-111KM500.000
- C019PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 10 OF 24) 111KM500.000-113KM000.000
- C020PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 11 OF 24) 113KM000.000-114KM500.000
- C021PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 12 OF 24) 114KM500.000-116KM000.000
- C022PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 13 OF 24) 116KM000.000-117KM500.000
- C023PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 14 OF 24) 117KM500.000-119KM000.000
- C024PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 15 OF 24) 119KM000.000-120KM500.000
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- C026PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 17 OF 24) 122KM000.000-123KM500.000
- C027PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 18 OF 24) 123KM500.000-125KM000.000
- C028PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 19 OF 24) 125KM000.000-126KM500.000

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- C030PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 21 OF 24) 128KM000.000-129KM500.000
- C031PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 22 OF 24) 129KM500.000-131KM000.000
- C032PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 23 OF 24) 131KM000.000-132KM240.000
- C033PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 24 OF 24) 132KM240.000-133KM126.512

- C051TYPICAL CROSS SECTIONS (SHEET 1 OF 5)
- C052TYPICAL CROSS SECTIONS (SHEET 2 OF 5)
- C053TYPICAL CROSS SECTIONS (SHEET 3 OF 5)
- C054TYPICAL CROSS SECTIONS (SHEET 4 OF 5)
- C055TYPICAL CROSS SECTIONS (SHEET 5 OF 5)

- C060TYPICAL ARRANGEMENTS AT PROPOSED LEVEL CROSSINGS

ALTERNATIVE ALIGNMENT FOR THE AVON TUNNEL

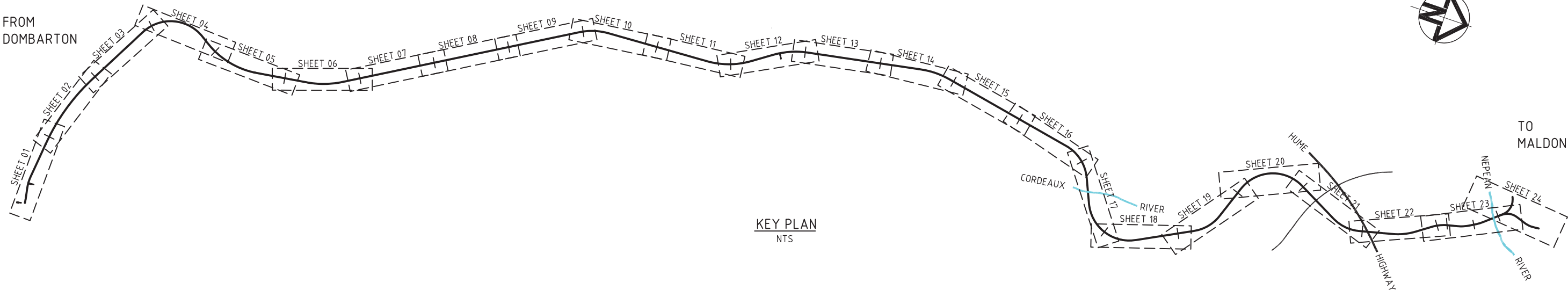
- SK0044AVON TUNNEL BYPASS OPTION - PLAN
- SK0045A AVON TUNNEL BYPASS OPTION - LONG SECTION - OPTION 1
- SK0045B AVON TUNNEL BYPASS OPTION - LONG SECTION - OPTION 2
- SK0046 AVON TUNNEL BYPASS OPTION - LONG SECTION - OPTION 3

BRIDGE DRAWINGS

- C100CORDEAUX RIVER UNDERBRIDGE OPTION 1
- C101CORDEAUX RIVER UNDERBRIDGE OPTION 2
- C102JANDERRA LANE OVERBRIDGE
- C103PICTON ROAD OVERBRIDGE (SHEET 1 OF 2)
- C104PICTON ROAD OVERBRIDGE (SHEET 2 OF 2)
- C105CONDELL PARK ROAD OVERBRIDGE
- C106HUME HIGHWAY OVERBRIDGE (SHEET 1 OF 2)
- C107HUME HIGHWAY OVERBRIDGE (SHEET 2 OF 2)
- C108NEPEAN RIVER UNDERBRIDGE

TUNNEL DRAWINGS

- C200PLAN, ELEVATION AND TUNNEL SUPPORT CATEGORIES
- C201TUNNEL PROFILE FOR PLATE B ROLLING STOCK
- C202TUNNEL PROFILE FOR PLATE F ROLLING STOCK
- C203PROPOSED HUME HIGHWAY UNDERPASS OPTION FOR PLATE B & F ROLLING STOCK
- C204PROPOSED HUME HIGHWAY UNDERPASS TUNNEL OPTIONS FOR PLATE B & F ROLLING STOCK



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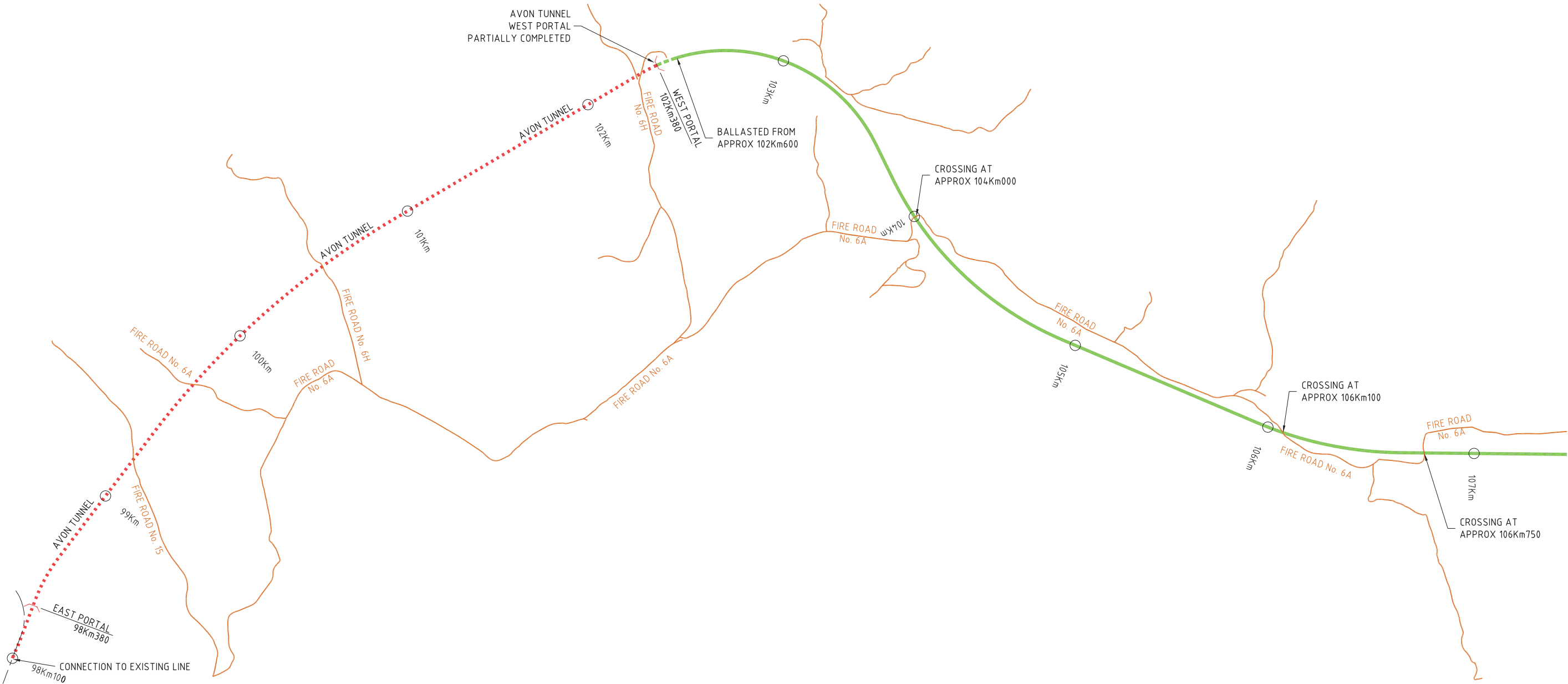
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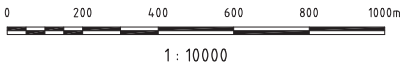
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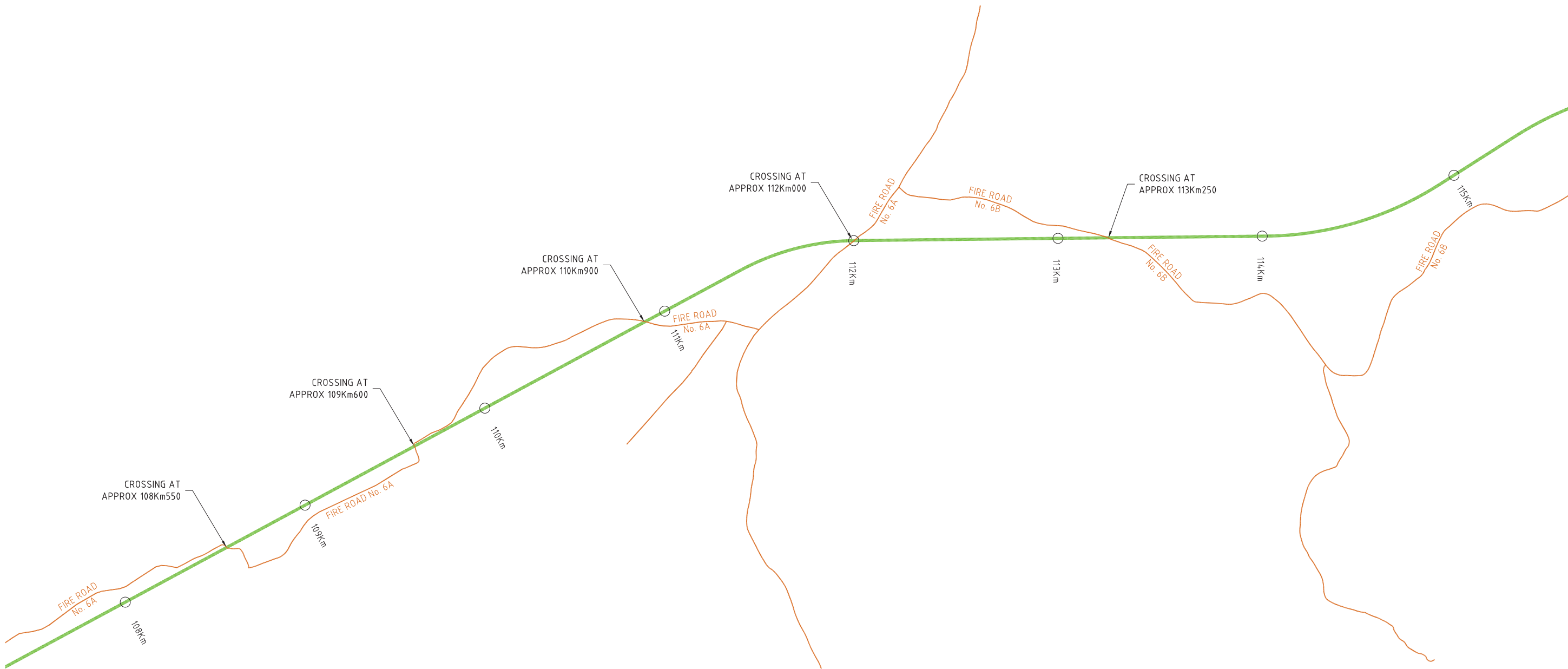
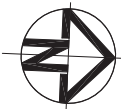


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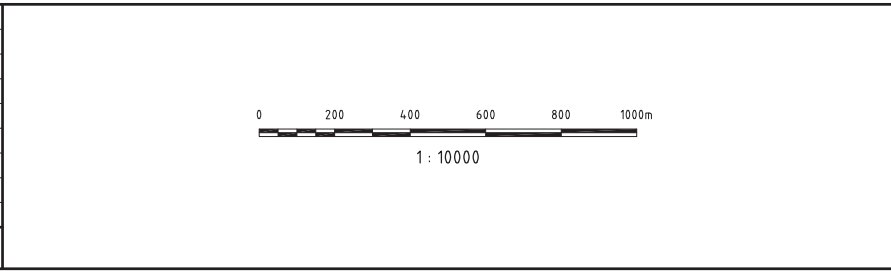
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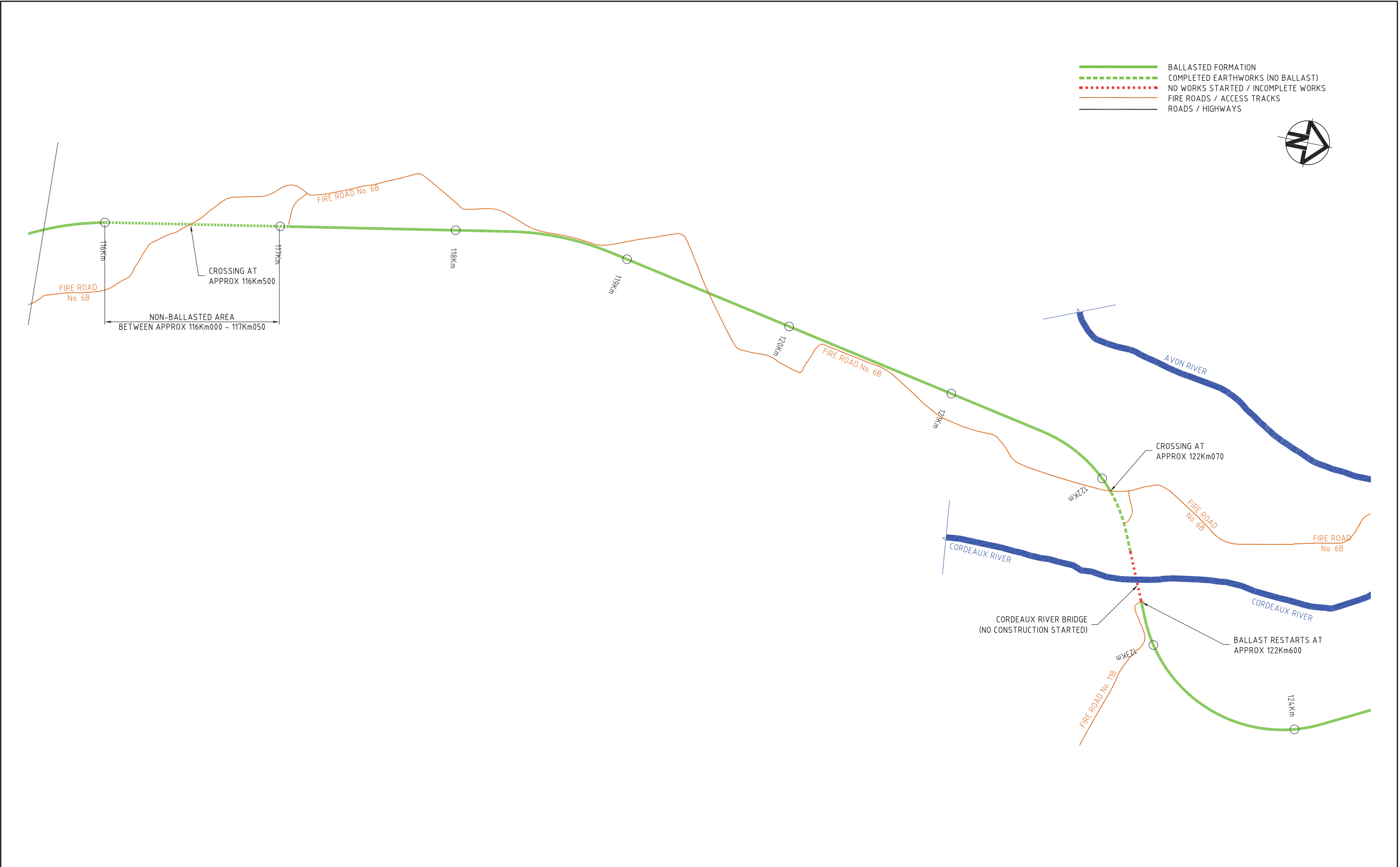
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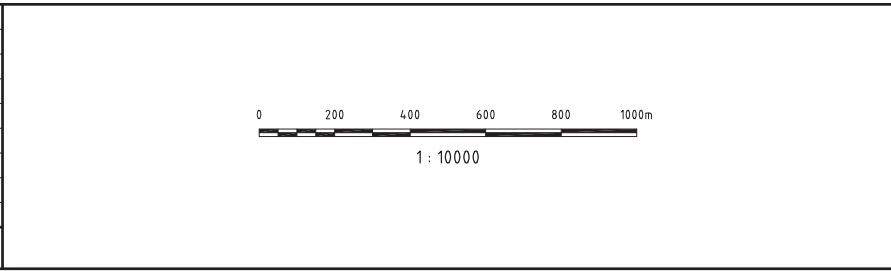


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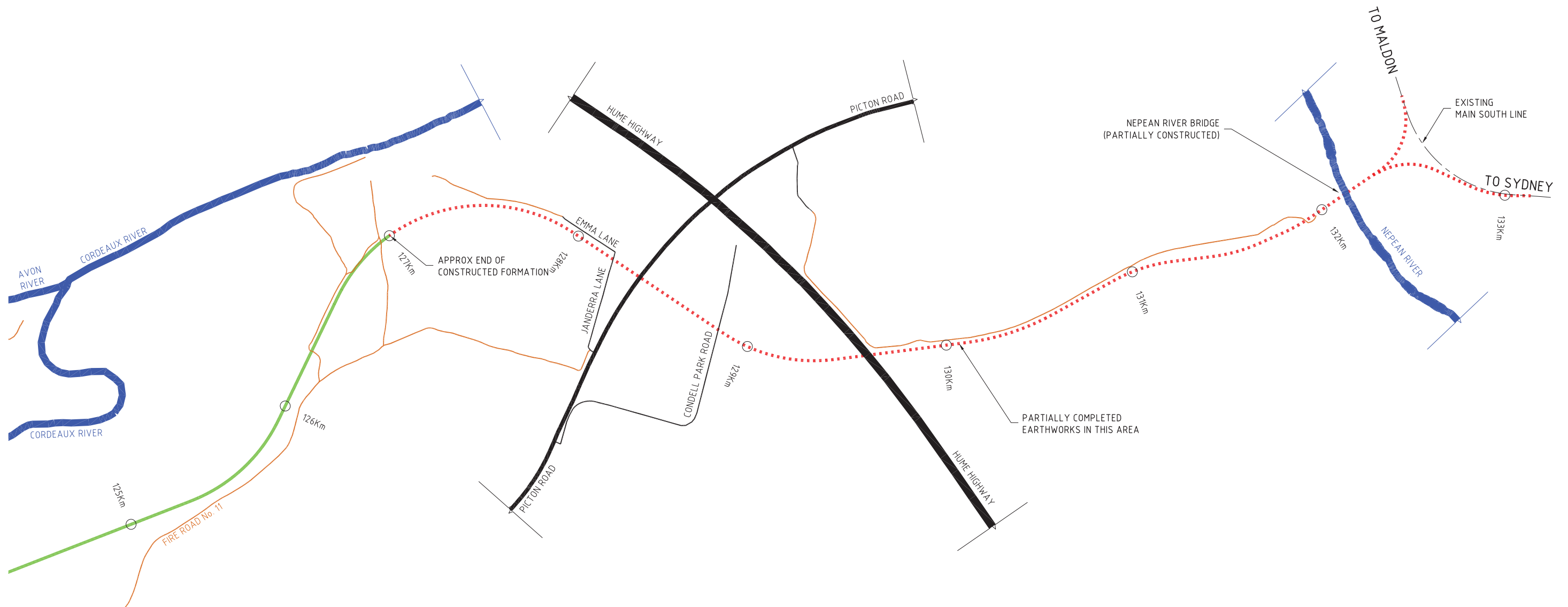
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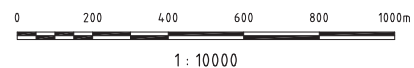
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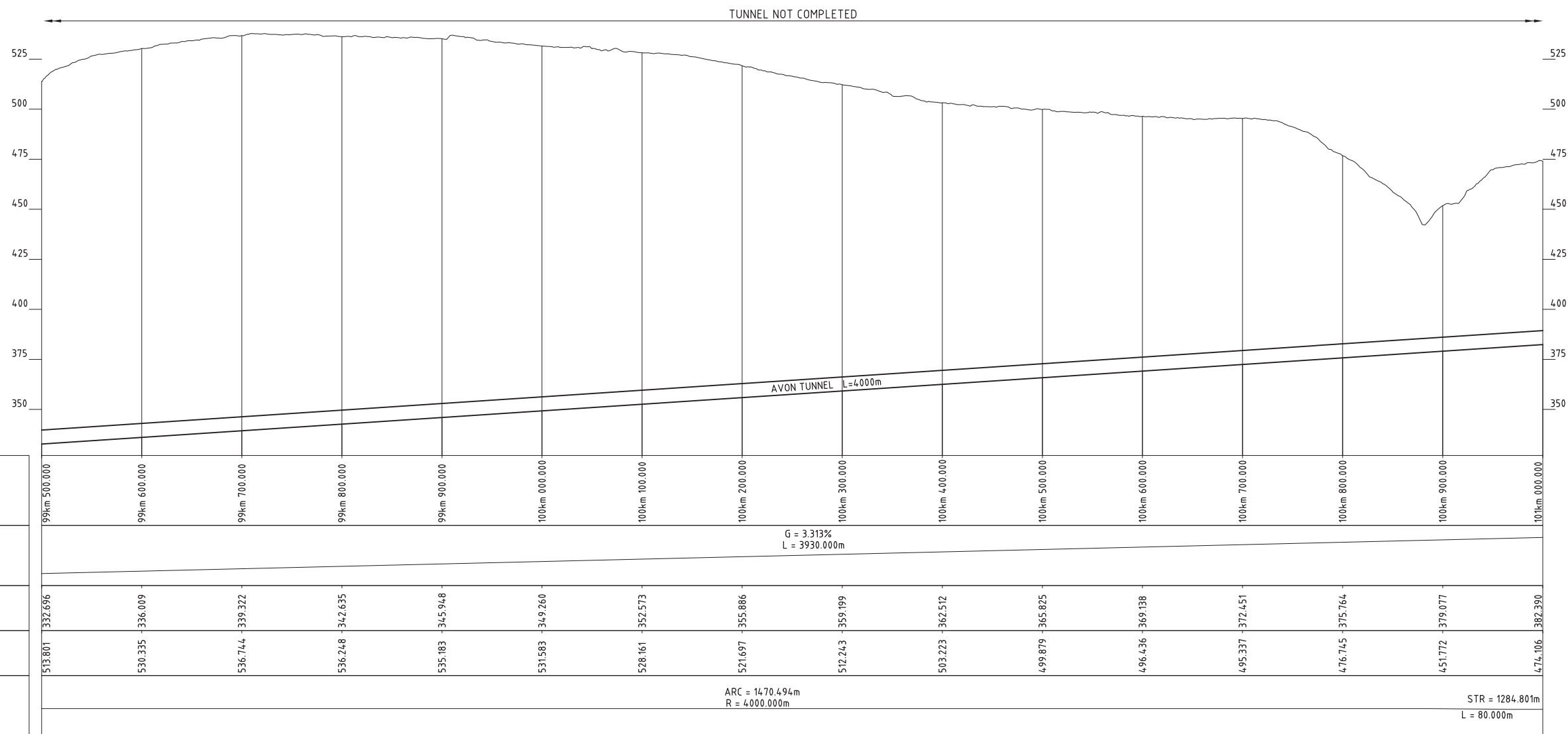
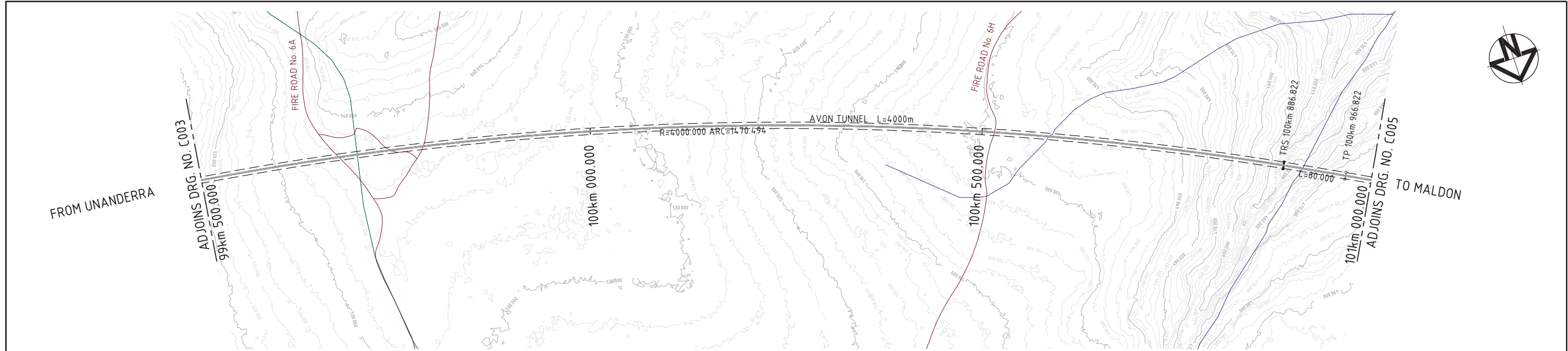
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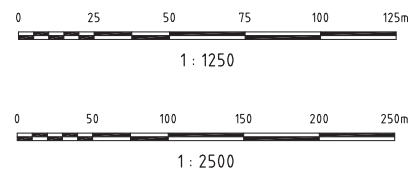






MALDON TO DOMBARTON RAIL LINK  
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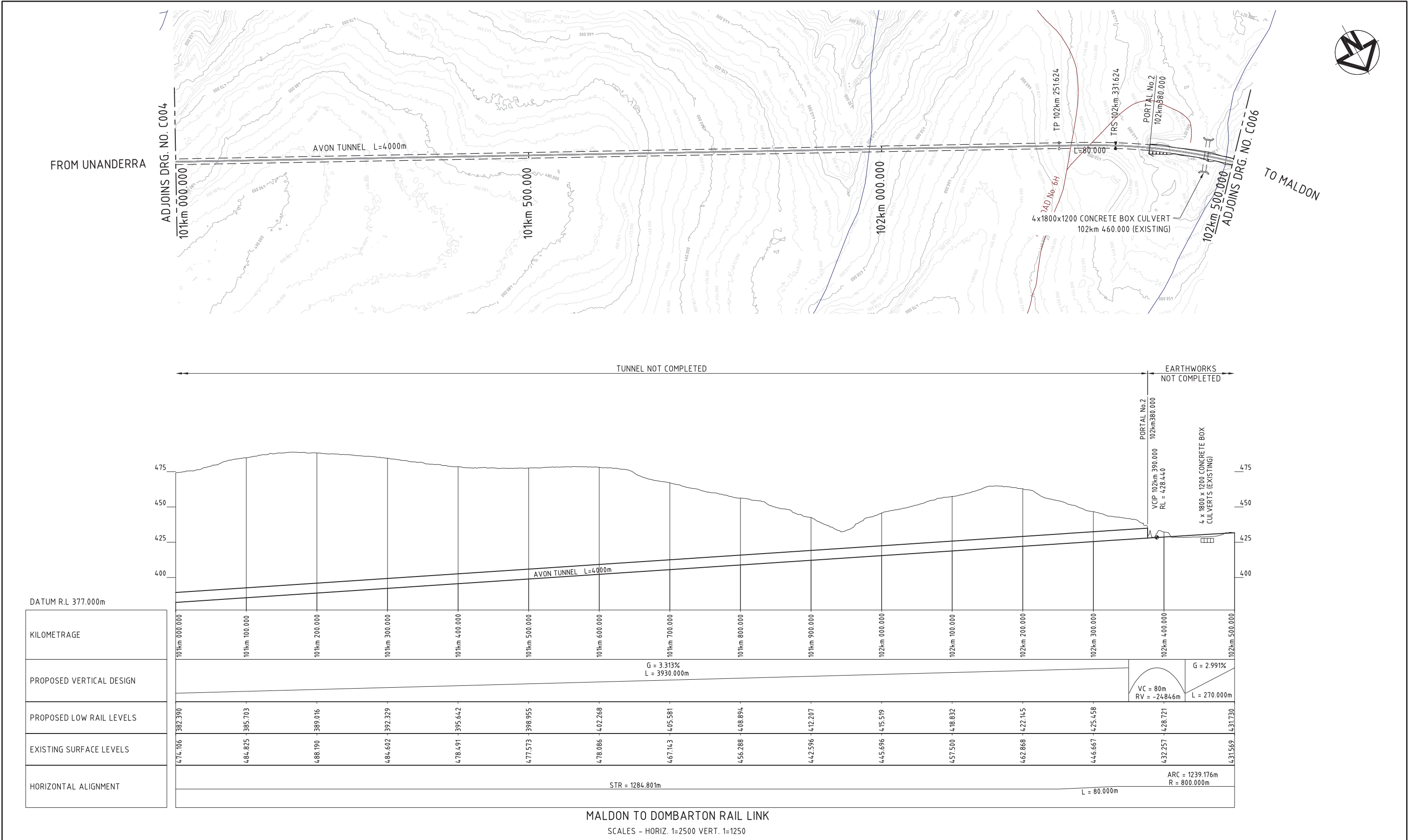
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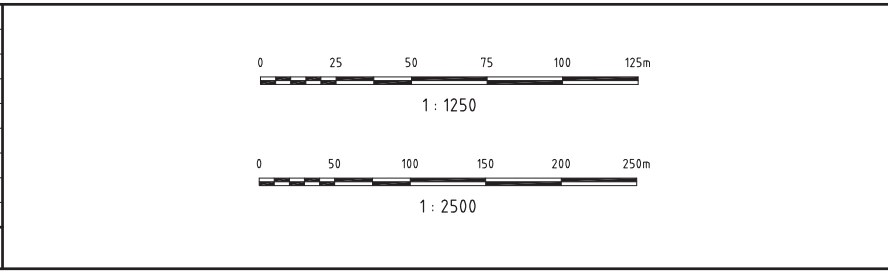
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NOT TO BE USED FOR CONSTRUCTION		
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	1:1250 (V)	
Original Size	A1	Drawn D.B.
Height Datum	AHD	Designed S.D.
Grid	ISG	Checked K.T.
Approved		
Filename: C012-aa003069-nsd-00.dwg		


Project

**MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY**

Title

**PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 3 OF 24)**

**101KM000.000 - 102KM500.000**



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Level 5, 141 Walker St

North Sydney NSW 2060

Australia

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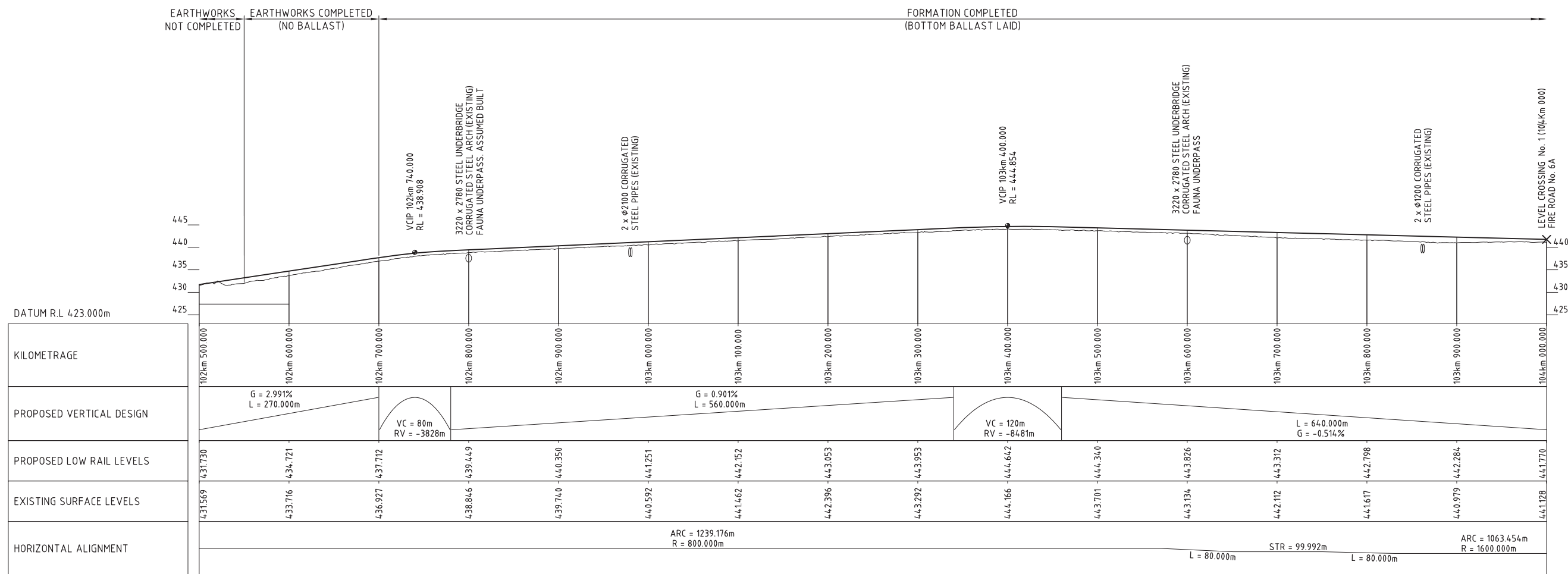
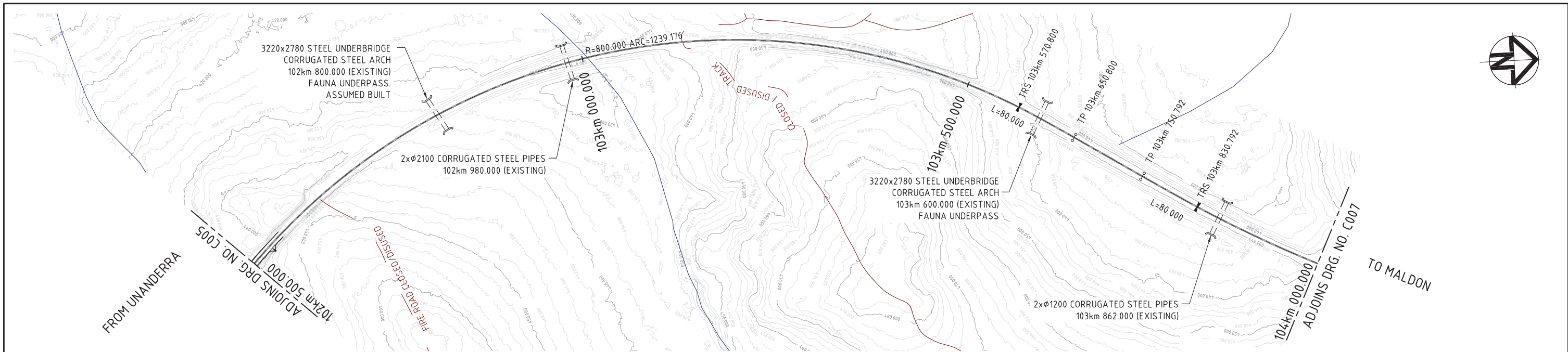
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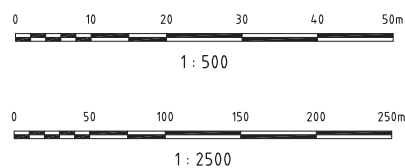
Drawing No.	Project No.	Issue
C012	AA003069	F





MALDON TO DOMBARTON RAIL LINK  
SCALES - HORIZ. 1:2500 VERT. 1:500

F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



Client




**ACIL Tasman**  
Economics Policy Strategy

Status  
**CONCEPT**  
NOT TO BE USED FOR CONSTRUCTION

Scales	1:2500 (H) 1:500 (V)	Current Issue Signatures
Original Size	A1	Drawn D.B.
Height Datum	AHD	Designed S.D.
Grid	ISG	Checked K.T.
Filename:	C013-aa003069-nsd-00.dwg	

Project  
**MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY**

Title  
**PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 4 OF 24)**  
**102KM500.000 - 104KM000.000**



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Drawing No.	Project No.	Issue
C013	AA003069	F

FROM UNANDERRA

ADJOINS DRG. NO. C006  
104km 000.000

FIRE ROAD LEVEL CROSSING No. 1

FIRE ROAD No. 6A

Ø1050 CORRUGATED STEEL PIPE  
104km 386.000 (EXISTING)

FIRE ROAD No. 6A

Ø900 CONCRETE PIPE  
104km 865.000 (EXISTING)

TRB

TP

L=80.000

TP 104km 974.246

3220 x 2780 STEEL UNDERBRIDGE  
CORRUGATED STEEL ARCH  
104km 780.000 (EXISTING)  
FAUNA UNDERPASS.  
ASSUMED BUILT

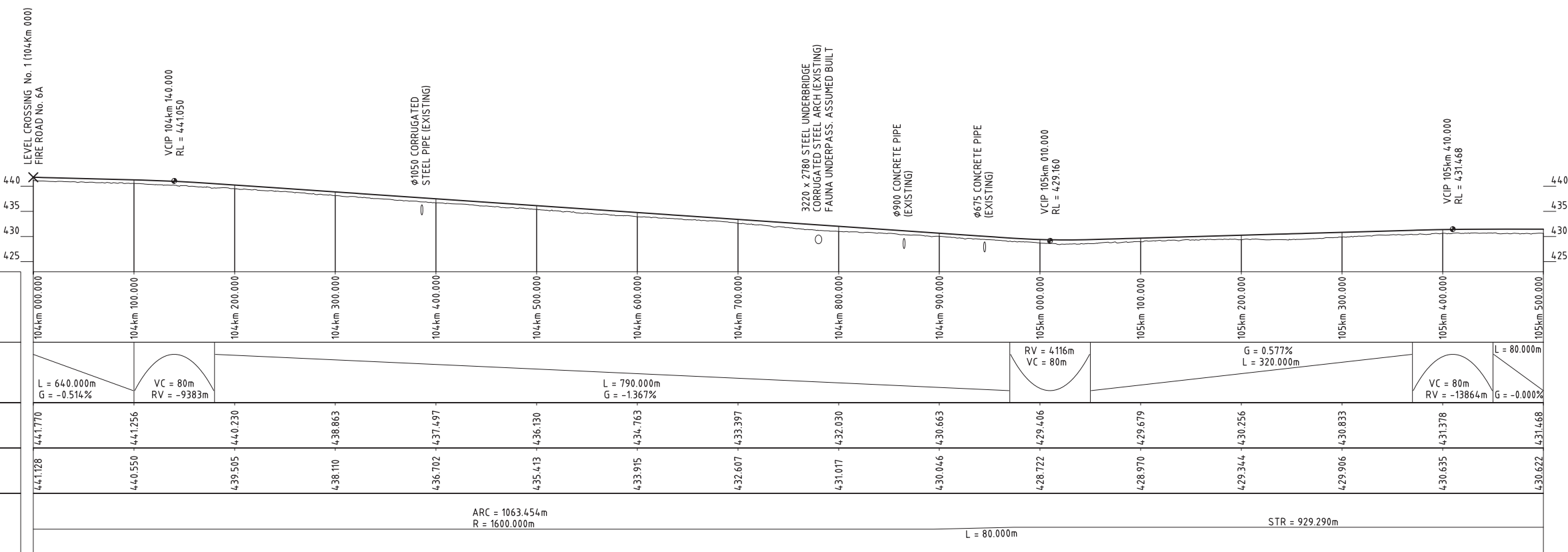
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104km 945.000 (EXISTING)

FIRE ROAD No. 6A

ADJOINS DRG. NO. C008  
105km 500.000

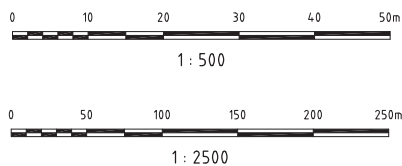
TO MALDON

FORMATION COMPLETED  
(BOTTOM BALLAST LAID)



MALDON TO DOMBARTON RAIL LINK  
SCALES - HORIZ. 1:2500 VERT. 1:500

F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



Client




**ACIL Tasman**  
Economics Policy Strategy

Status		<b>CONCEPT</b> NOT TO BE USED FOR CONSTRUCTION	
Scales	1:2500 (H) 1:500 (V)	Current Issue Signatures	
Original Size	A1	Drawn D.B.	
Height Datum	AHD	Designed S.D.	
Grid	ISG	Checked K.T.	
Filename:	C014-aa03069-nsd-00.dwg		

Project **MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY**

Title **PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 5 OF 24)**  
**104KM000.000 - 105KM500.000**



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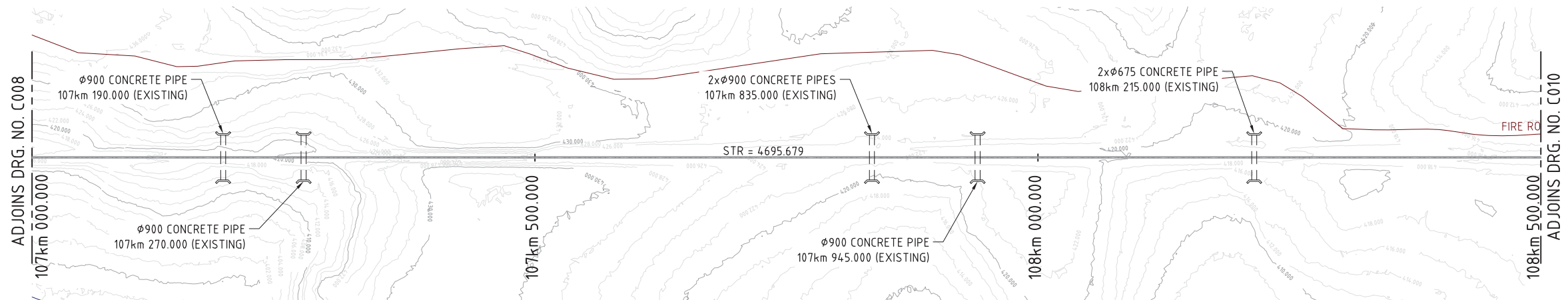
Drawing No.	Project No.	Issue
C014	AA003069	F





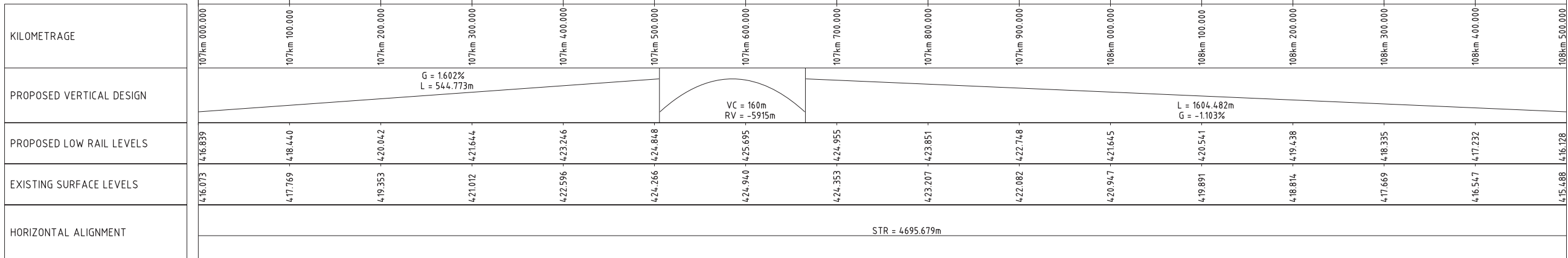
FROM UNANDERRA

TO MALDON



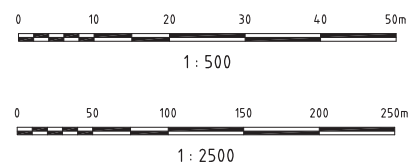
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(BOTTOM BALLAST LAID)

DATUM R.L. 409.000m



MALDON TO DOMBARTON RAIL LINK  
SCALES - HORIZ. 1:2500 VERT. 1:500

F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



Client



Status

CONCEPT NOT TO BE USED FOR CONSTRUCTION			
Scales	1:2500 (H) 1:500 (V)	Current Issue Signatures	
		Drawn	D.B.
Original Size	A1	Designed	S.D.
Height Datum	AHD	Checked	K.T.
Grid	ISG	Approved	
Filename:	C016-aa03069-nsd-00.dwg		

Project

MALDON TO DOMBARTON  
RAILWAY LINK  
FEASIBILITY STUDY

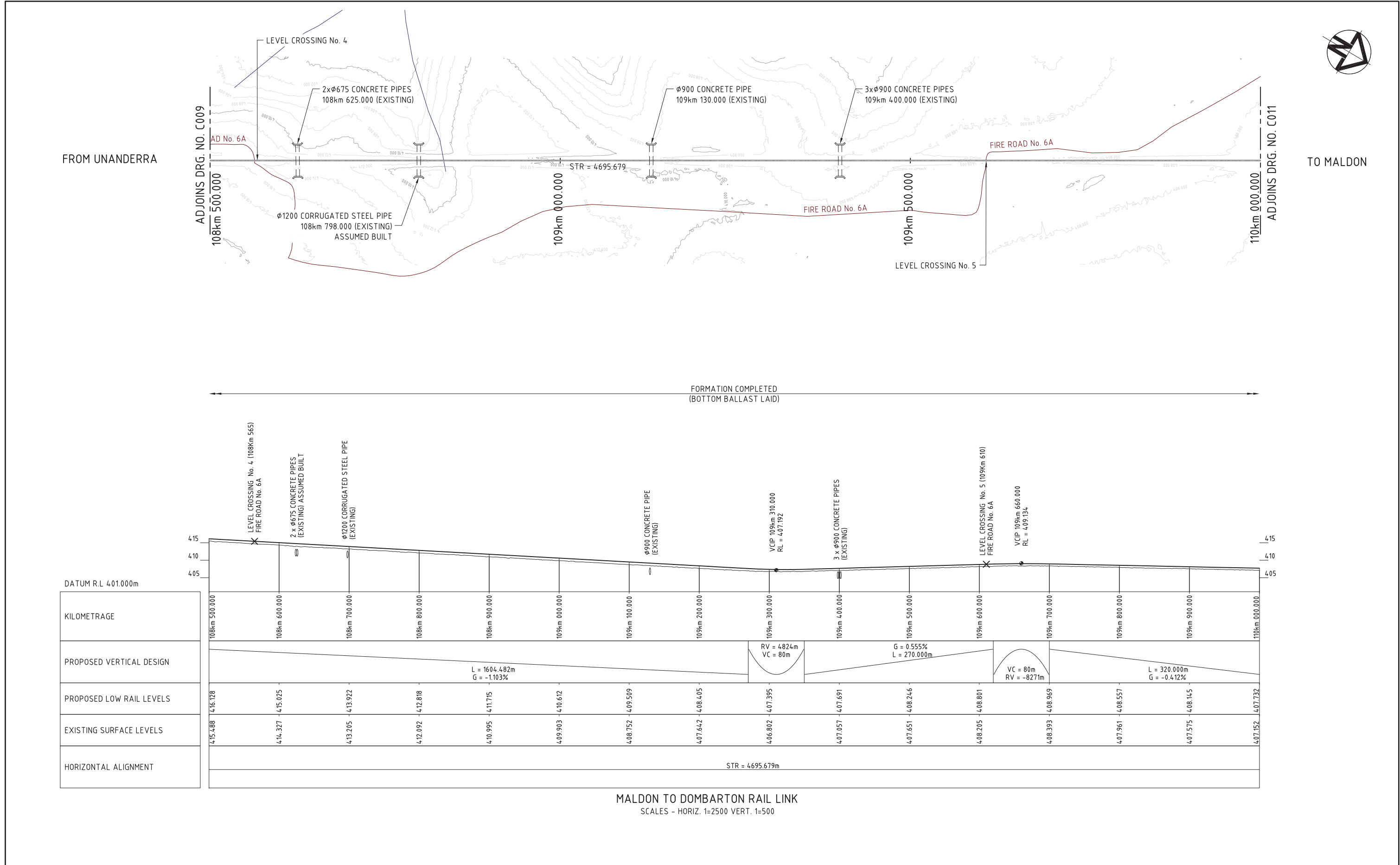
Title

PROPOSED HORIZONTAL  
AND VERTICAL ALIGNMENT  
(SHEET 7 OF 24)  
107KM000.000 - 108KM500.000



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Drawing No.	Project No.	Issue
C016	AA003069	F



F	CONCEPT DESIGN	26.11.10
Issue	Description	Date

01020304050m  
1 : 500

050100150200250m  
1 : 2500

Client

ACIL Tasman  
Economics Policy Strategy

Status

CONCEPT  
NOT TO BE USED FOR CONSTRUCTION

Scales	1:2500 (H) 1:500 (V)	Current Issue Signatures
Original Size	A1	Drawn D.B.
Height Datum	AHD	Designed S.D.
Grid	ISG	Checked K.T.
Filename	C017-aa03069-nsd-00.dwg	

Project

MALDON TO DOMBARTON  
RAILWAY LINK  
FEASIBILITY STUDY

Title

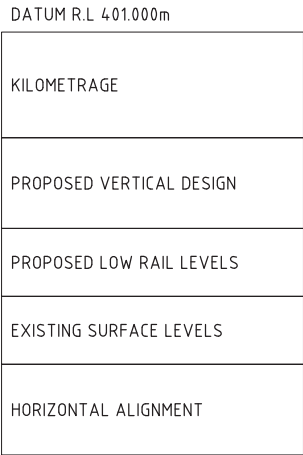
PROPOSED HORIZONTAL  
AND VERTICAL ALIGNMENT  
(SHEET 8 OF 24)  
108KM500.000 - 110KM000.000

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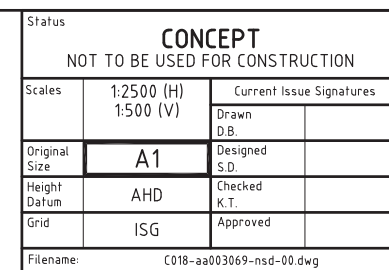
Drawing No.	Project No.	Issue
C017	AA003069	F

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Date Plotted: 15 Nov 2010 - 03:45PM File Name: M:\E-CAD\C-Civil\C-Concept\c017-aa03069-nsd-00.dwg V1



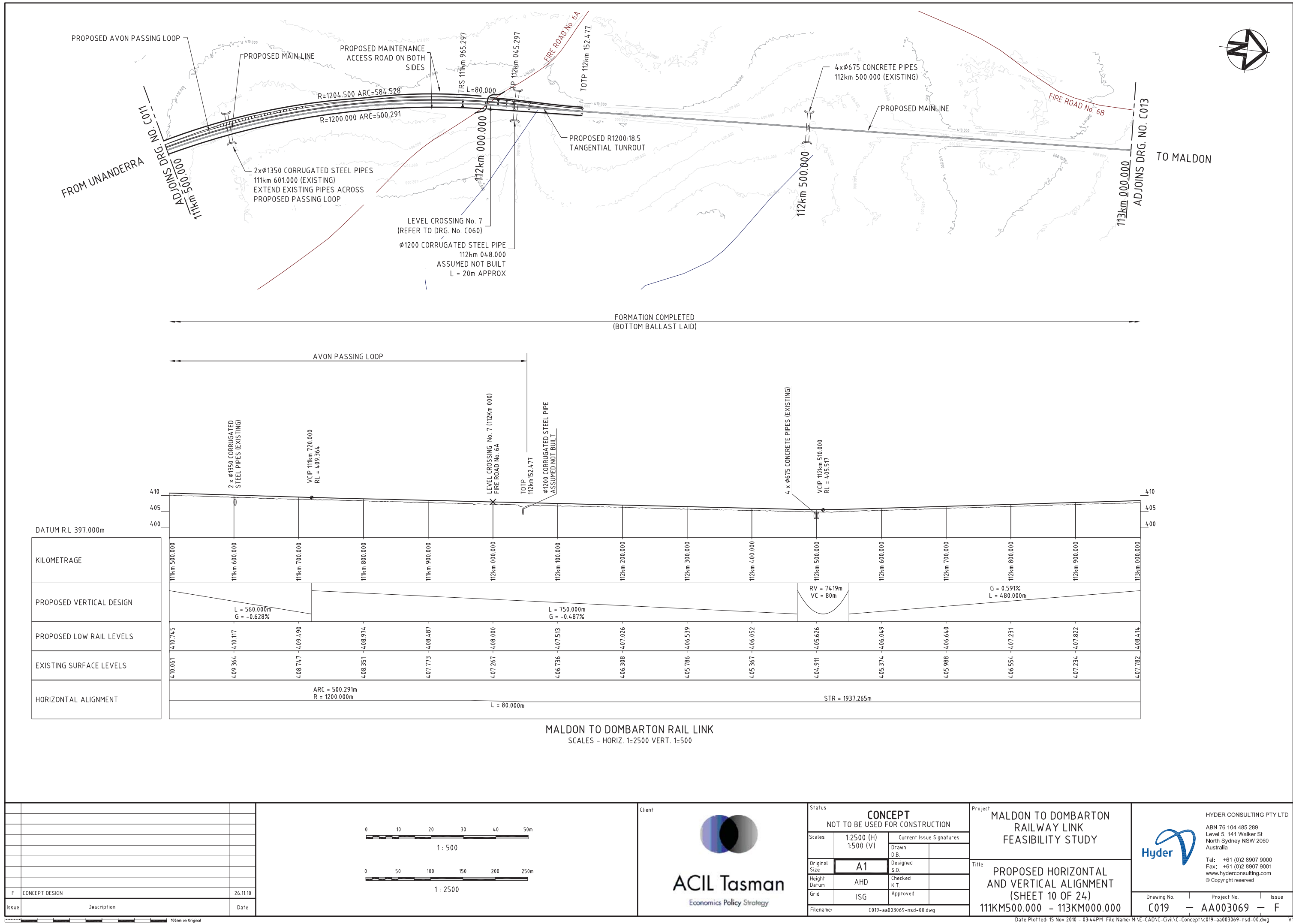
SCALES - HORIZ. 1=2500 VERT. 1=500

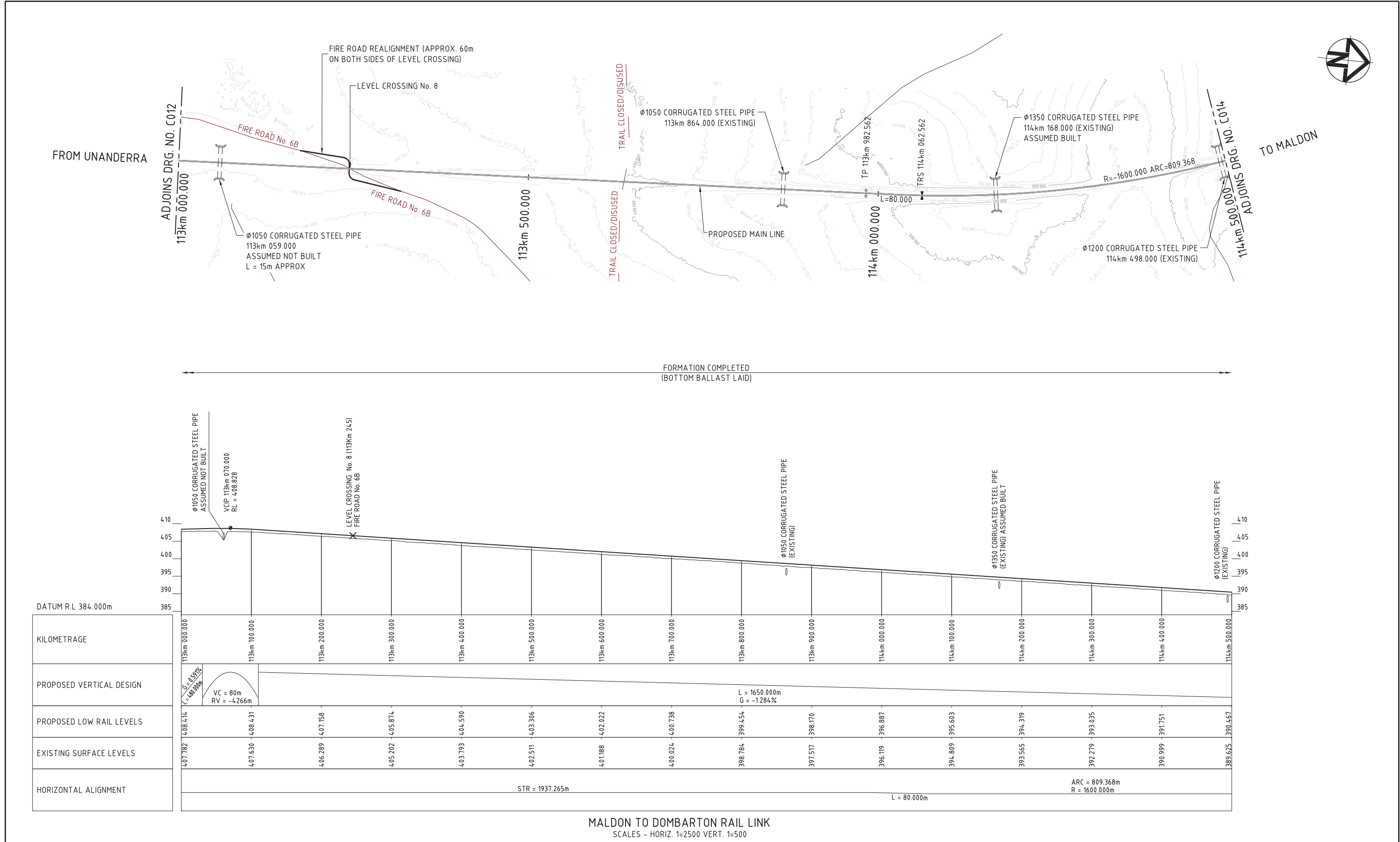


Project	MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY
Title	PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 9 OF 24) 110KM000.000 - 111KM500.000

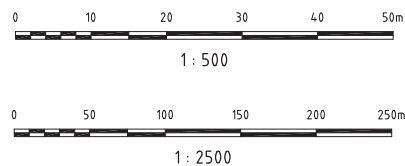
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F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



Client



**ACIL Tasman**

Economics Policy Strategy

Status		
CONCEPT		
NOT TO BE USED FOR CONSTRUCTION		
Scales	1:2500 (H)	Current Issue Signatures
	1:500 (V)	
Original Size	A1	Drawn D.B.
Height	AHD	Designed S.D.
Datum	ISG	Checked K.T.
Grid		Approved
Filename:	C020-aa003069-nsd-00.dwg	

Project

**MALDON TO DOMBARTON RAILWAY LINK**


**FEASIBILITY STUDY**

Title

**PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT**

**(SHEET 11 OF 24)**

**113KM000.000 - 114KM500.000**



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Australia

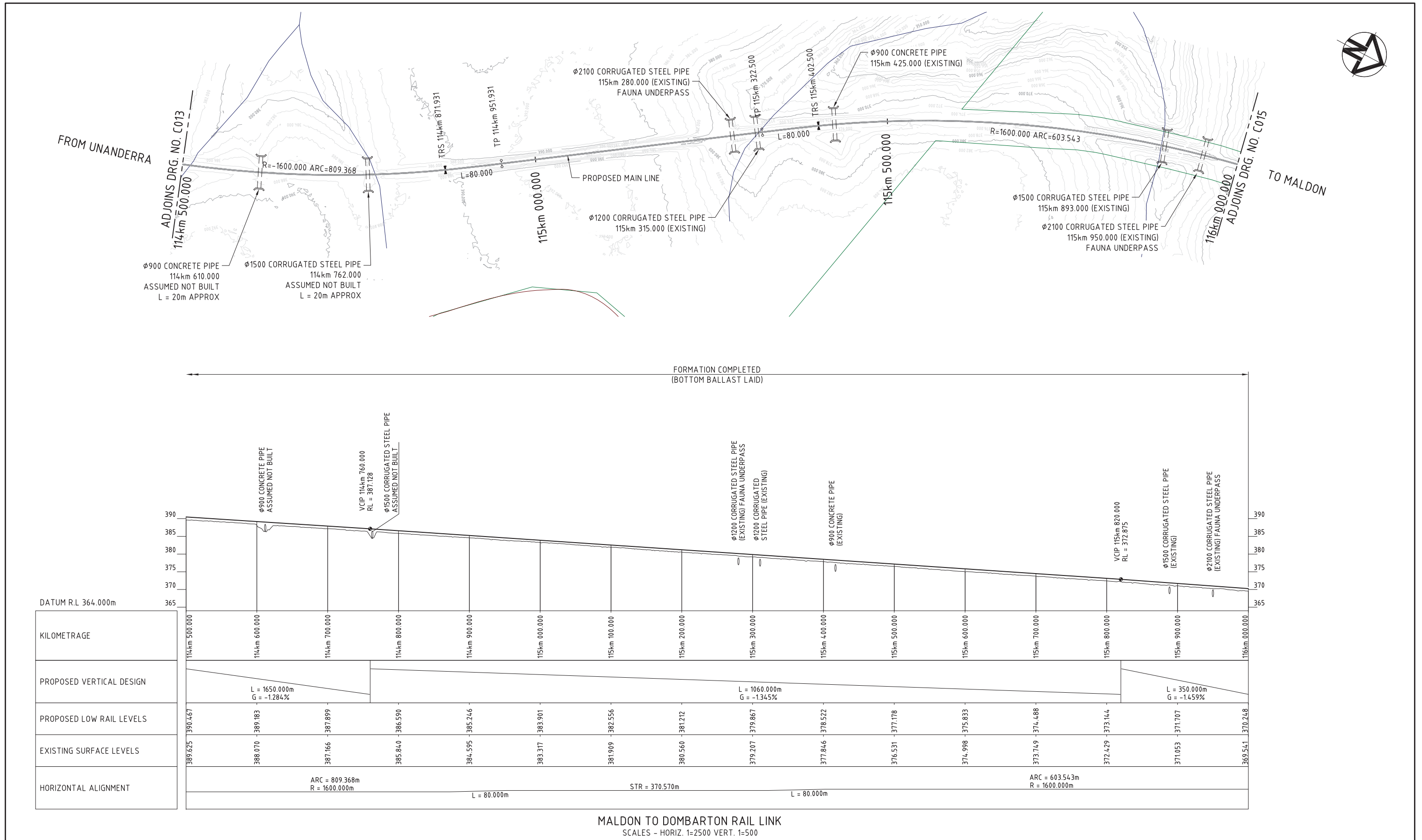
Tel: +61 (0)2 8907 9000

Fax: +61 (0)2 8907 9001

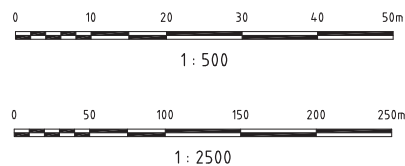
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Drawing No.	Project No.	Issue
C020	AA003069	F



F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



Client



**ACIL Tasman**

Economics Policy Strategy

Status			
CONCEPT			
NOT TO BE USED FOR CONSTRUCTION			
Scales	1:2500 (H) 1:500 (V)	Current Issue Signatures	
		Drawn	D.B.
Original Size	A1	Designed	S.D.
Height Datum	AHD	Checked	K.T.
Grid	ISG	Approved	
Filename: C021-aa003069-nsd-00.dwg			

Project

**MALDON TO DOMBARTON RAILWAY LINK**


**FEASIBILITY STUDY**

Title

**PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT**

**(SHEET 12 OF 24)**

**114KM500.000 - 116KM000.000**



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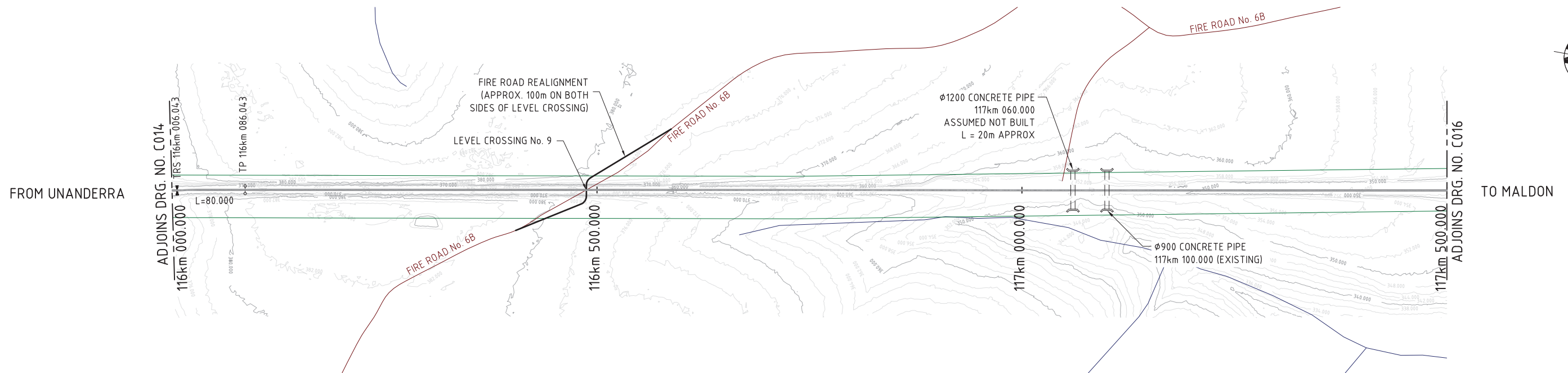
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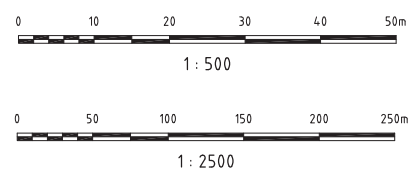
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Drawing No.	Project No.	Issue
C021	AA003069	F



MALDON TO DOMBARTON RAIL LINK

SCALES - HORIZ. 1=2500 VERT. 1=500



	Client
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	Status
--	--------

status

**CONCEPT**

NOT TO BE USED FOR CONSTRUCTION

Scales	1:2500 (H) 1:500 (V)
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Current Issue Signatures
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	1:500 (V)

Original Size	A1
Height	AHD

Datum	ATD
Grid	ISG

Filename: C022-aa003069-nsd-00.dwg

	Project
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ject

MALDON TO DOMBARTON  
RAILWAY LINK  
FEASIBILITY STUDY

	Title
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PROPOSED HORIZONTAL  
AND VERTICAL ALIGNMENT  
(SHEET 13 OF 24)  
116KM000.000 - 117KM500.000

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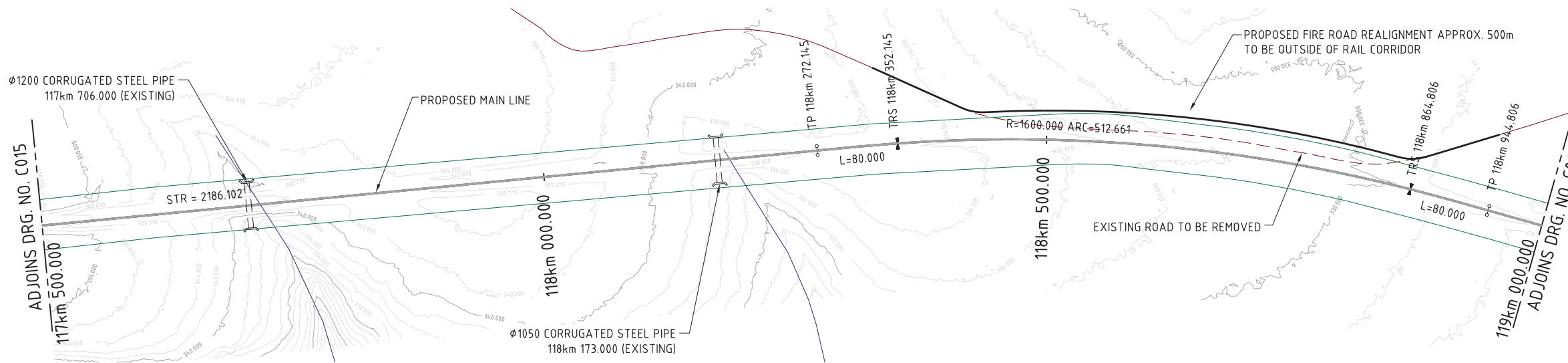
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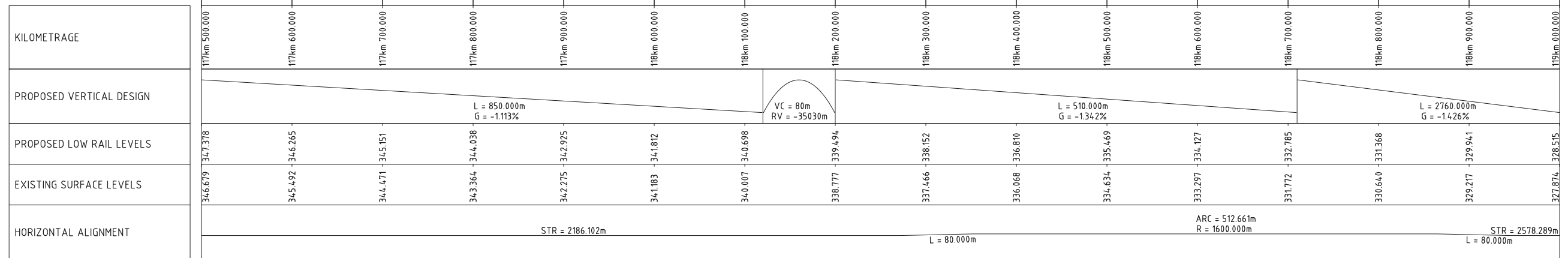
FROM UNANDERRA

TO MALDON



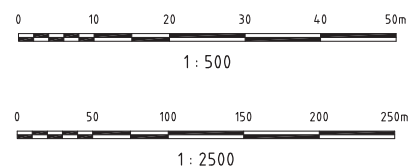
FORMATION COMPLETED  
(BOTTOM BALLAST LAID)

DATUM R.L 322.000m



MALDON TO DOMBARTON RAIL LINK  
SCALES - HORIZ. 1:2500 VERT. 1:500

F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



Client

ACIL Tasman  
Economics Policy Strategy

Status	CONCEPT NOT TO BE USED FOR CONSTRUCTION	
Scales	1:2500 (H) 1:500 (V)	Current Issue Signatures
Original Size	A1	Drawn D.B.
Height Datum	AHD	Designed S.D.
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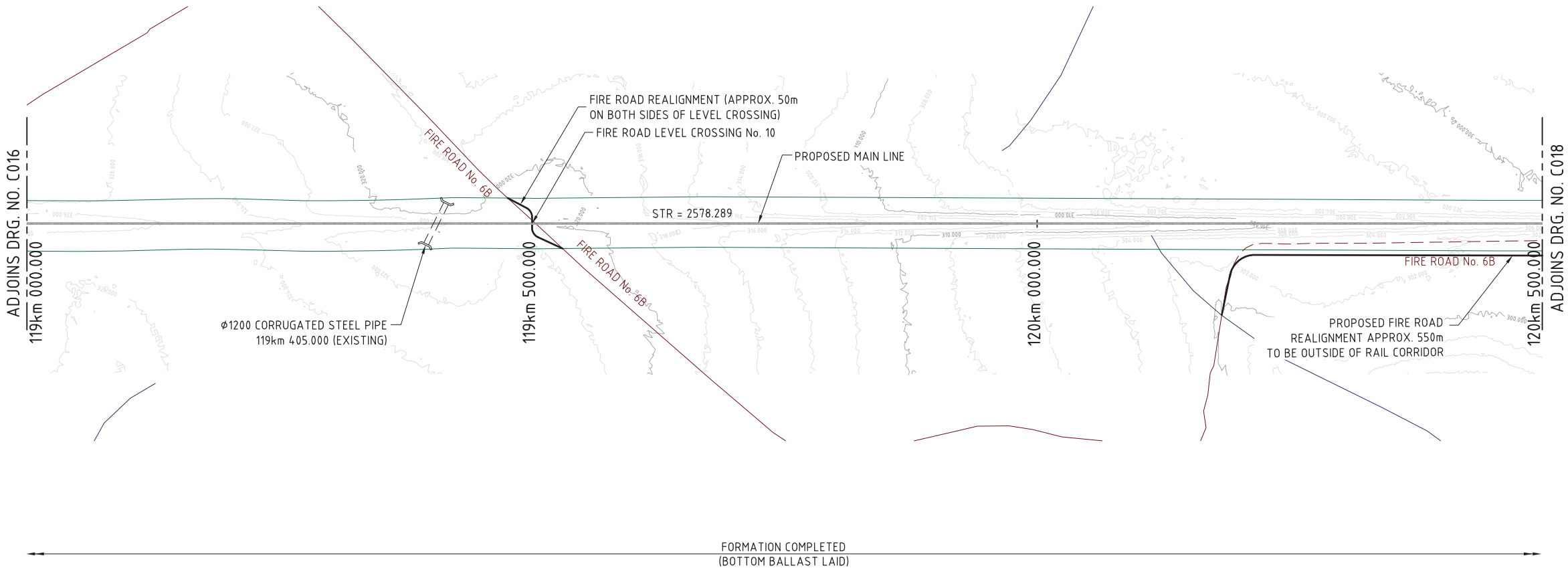
Project	MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY	
Title	PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 14 OF 24) 117KM500.000 - 119KM000.000	

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Drawing No.	Project No.	Issue
C023	AA003069	F

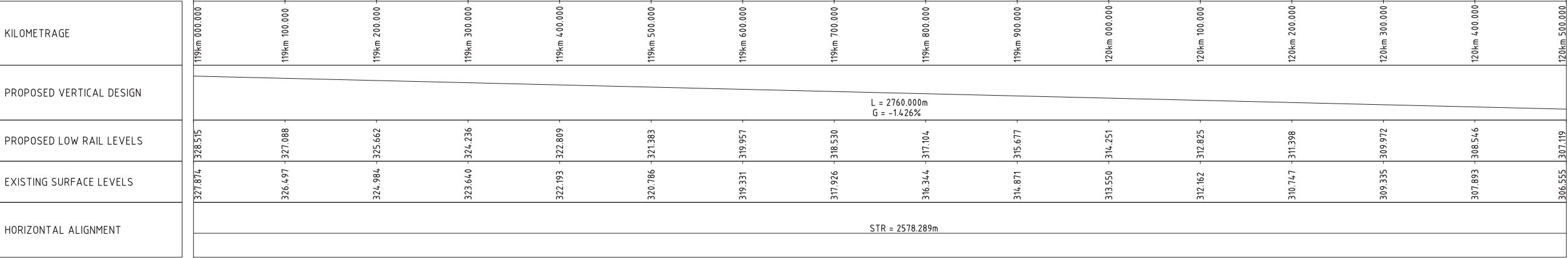


FROM UNANDERRA

TO MALDON

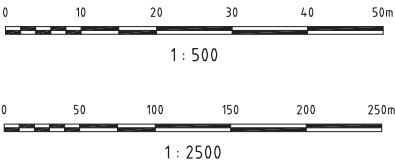


DATUM R.L 301.000m



MALDON TO DOMBARTON RAIL LINK

SCALES - HORIZ. 1:2500 VERT. 1:500



F	CONCEPT DESIGN	26.11.10
Issue	Description	Date

Client




**ACIL Tasman**  
Economics Policy Strategy

Status  
**CONCEPT**  
NOT TO BE USED FOR CONSTRUCTION

Scales	1:2500 (H) 1:500 (V)	Current Issue Signatures	
Original Size	A1	Drawn	D.B.
Height	AHD	Designed	S.D.
Datum	ISG	Checked	K.T.
Grid		Approved	
Filename:	C024-aa003069-nsd-00.dwg		

Project  
**MALDON TO DOMBARTON  
RAILWAY LINK  
FEASIBILITY STUDY**

Title  
**PROPOSED HORIZONTAL  
AND VERTICAL ALIGNMENT  
(SHEET 15 OF 24)  
119KM000.000 - 120KM500.000**

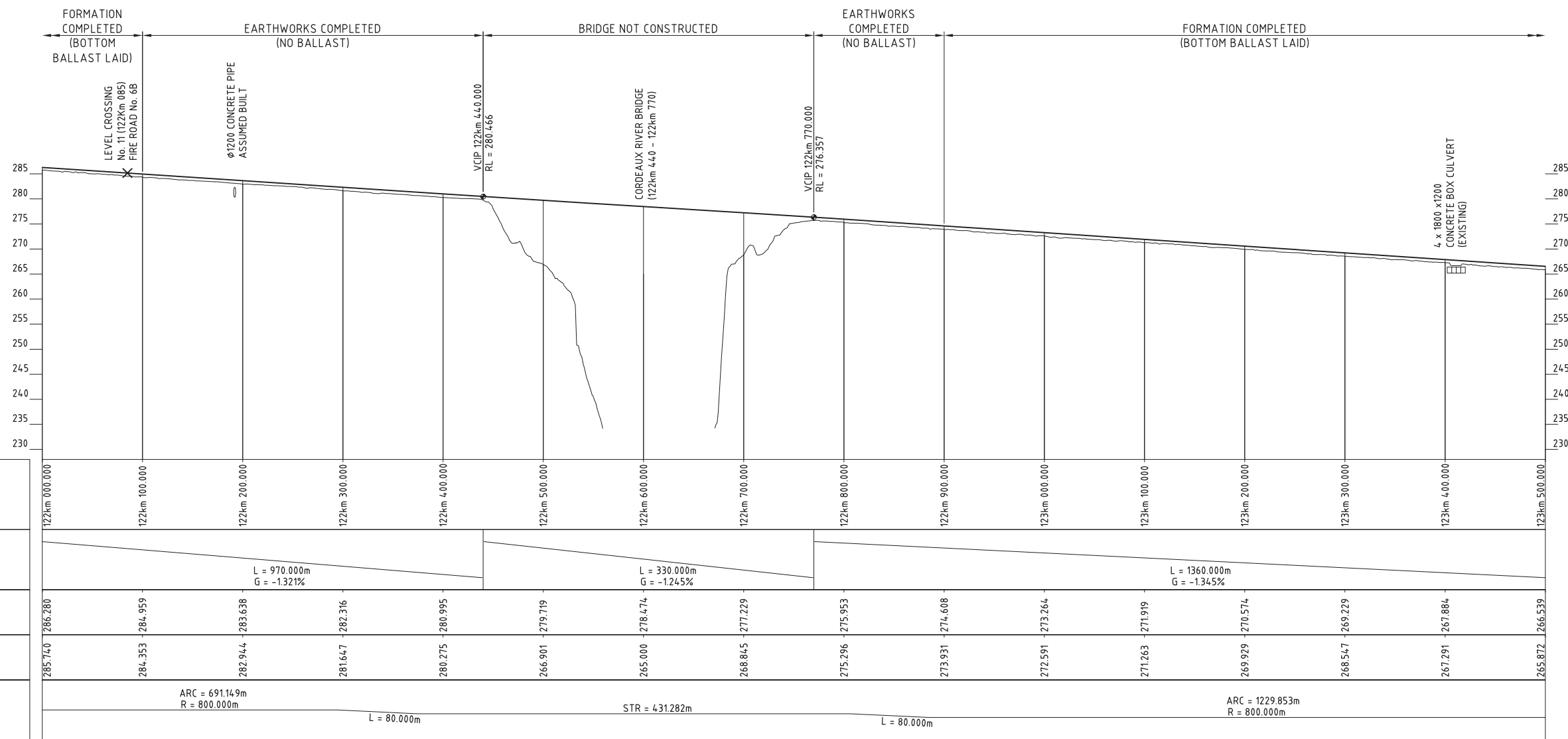
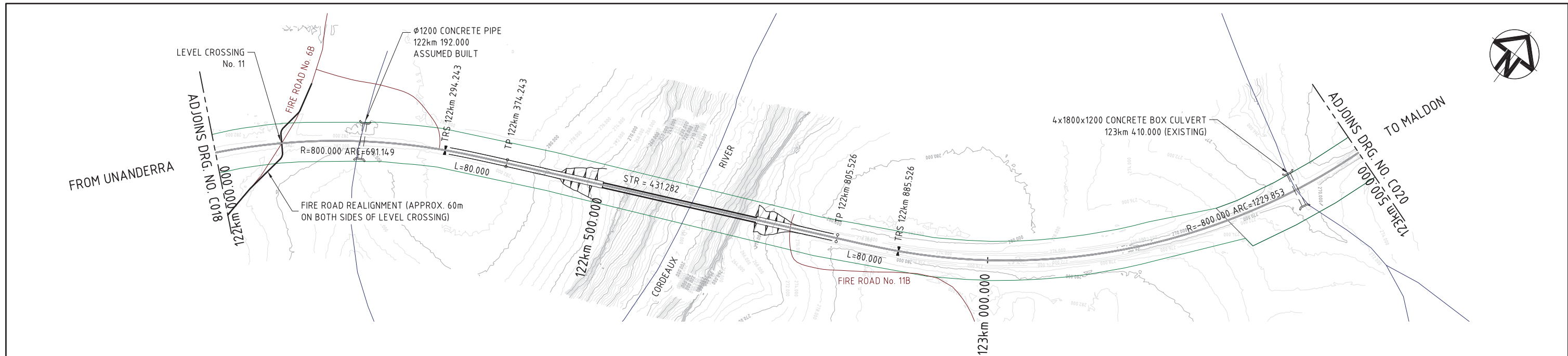


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Drawing No.	Project No.	Issue
C024	AA003069	F



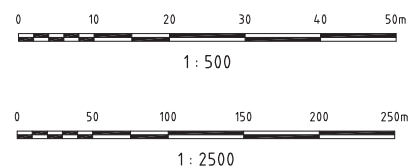




MALDON TO DOMBARTON RAIL LINK

SCALES - HORIZ. 1=2500 VERT. 1=500

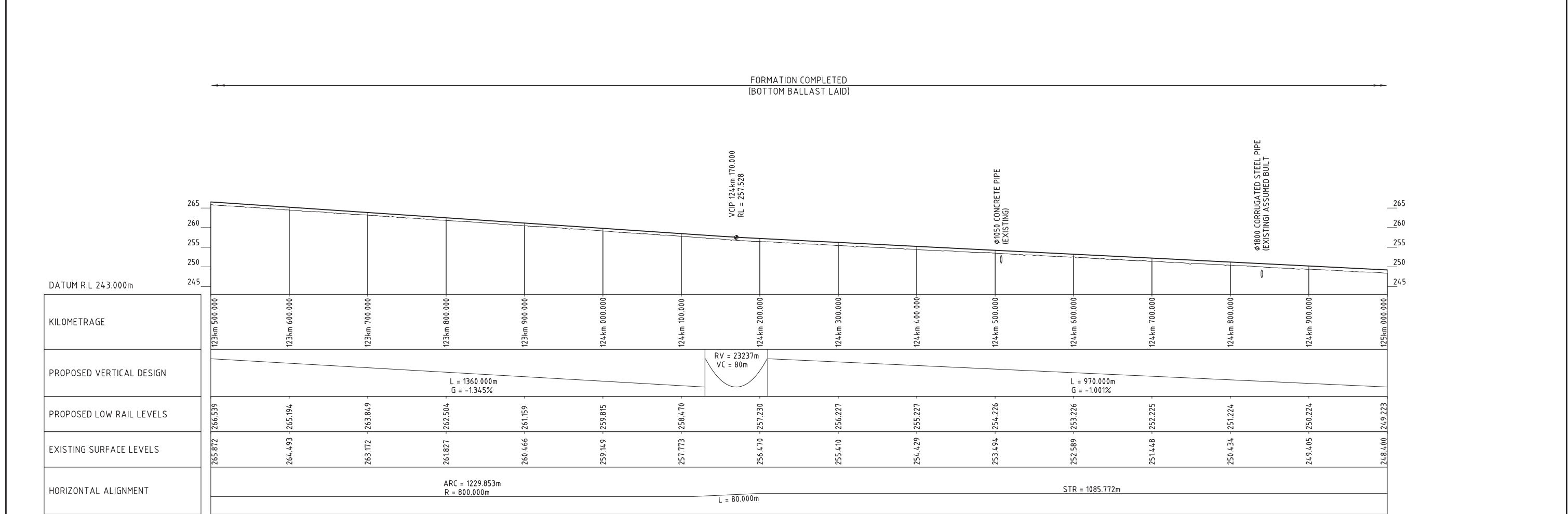
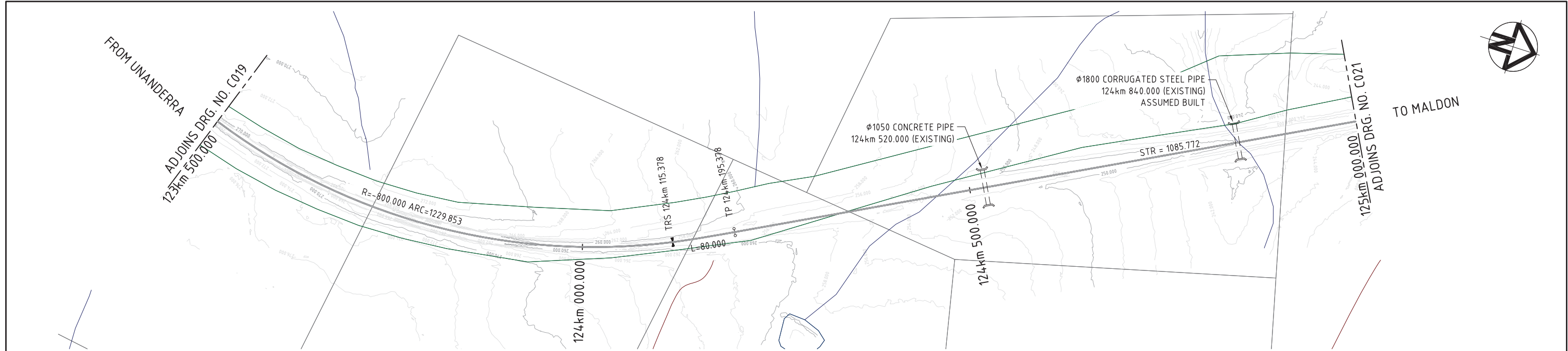
F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



Status	
CONCEPT NOT TO BE USED FOR CONSTRUCTION	
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Grid	ISG
Filename	C026-aa03069-nsd-00.dwg

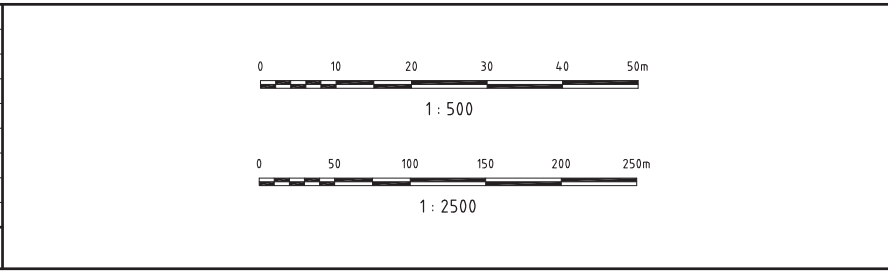
Project	MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY
Title	PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 17 OF 24) 122KM000.000 - 123KM500.000

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Drawing No.	Project No.	Issue
C026	AA003069	F



MALDON TO DOMBARTON RAIL LINK  
SCALES - HORIZ. 1=2500 VERT. 1=500

F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



Client

ACIL Tasman  
Economics Policy Strategy

Status	
CONCEPT NOT TO BE USED FOR CONSTRUCTION	
Scales	1:2500 (H) 1:500 (V)
Original Size	A1
Height Datum	AHD
Grid	ISG
Filename	C027-aa003069-nsd-00.dwg

Project

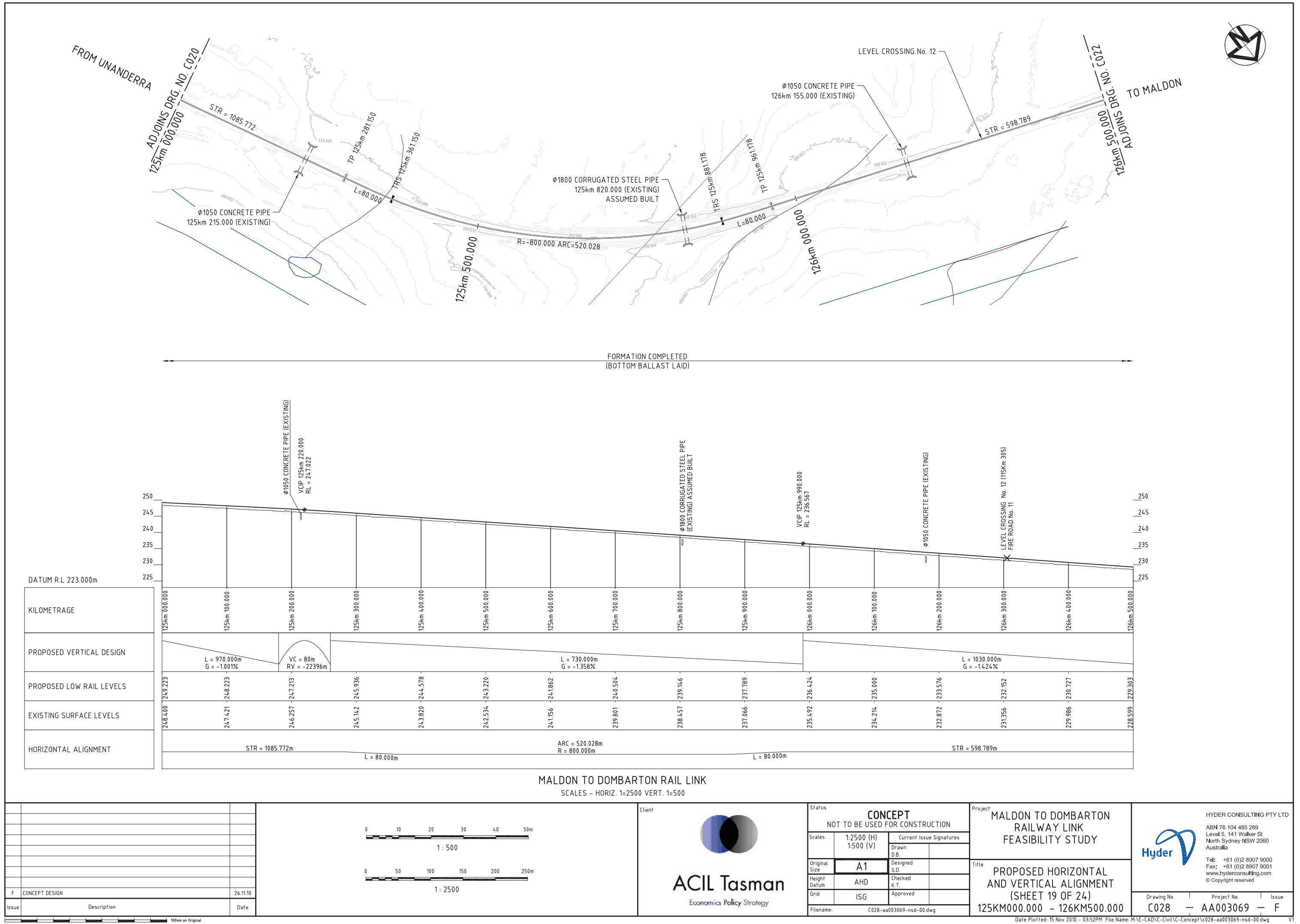
MALDON TO DOMBARTON  
RAILWAY LINK  
FEASIBILITY STUDY

Title

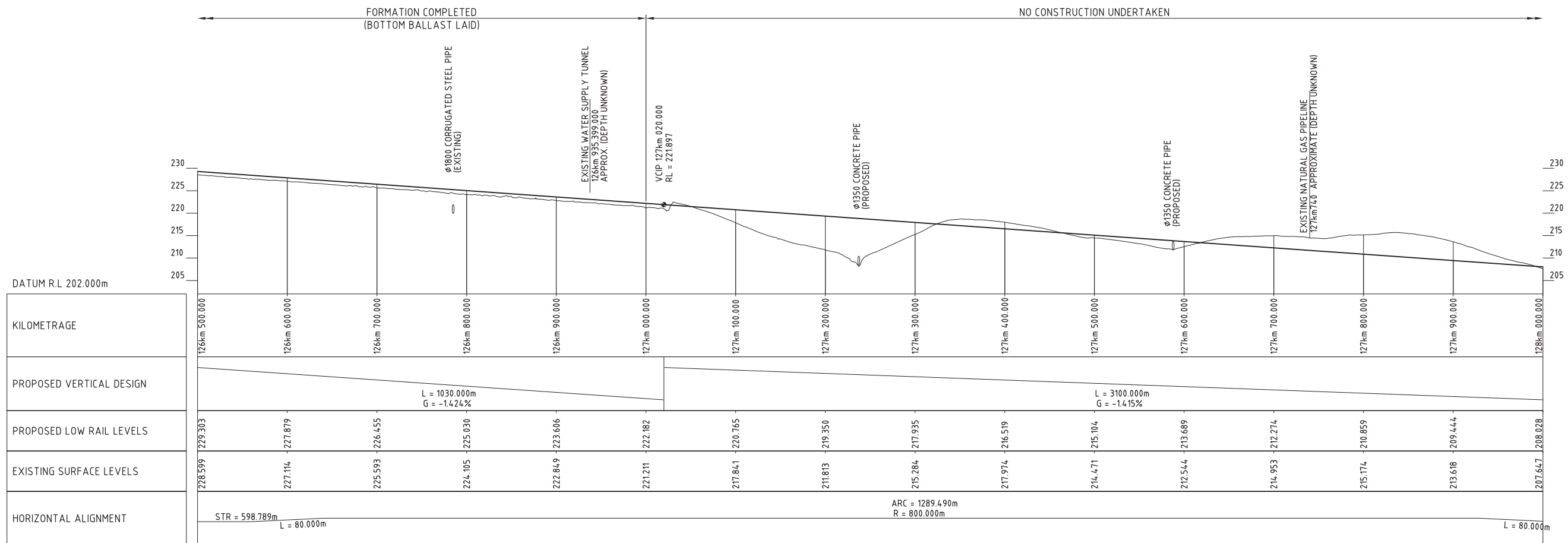
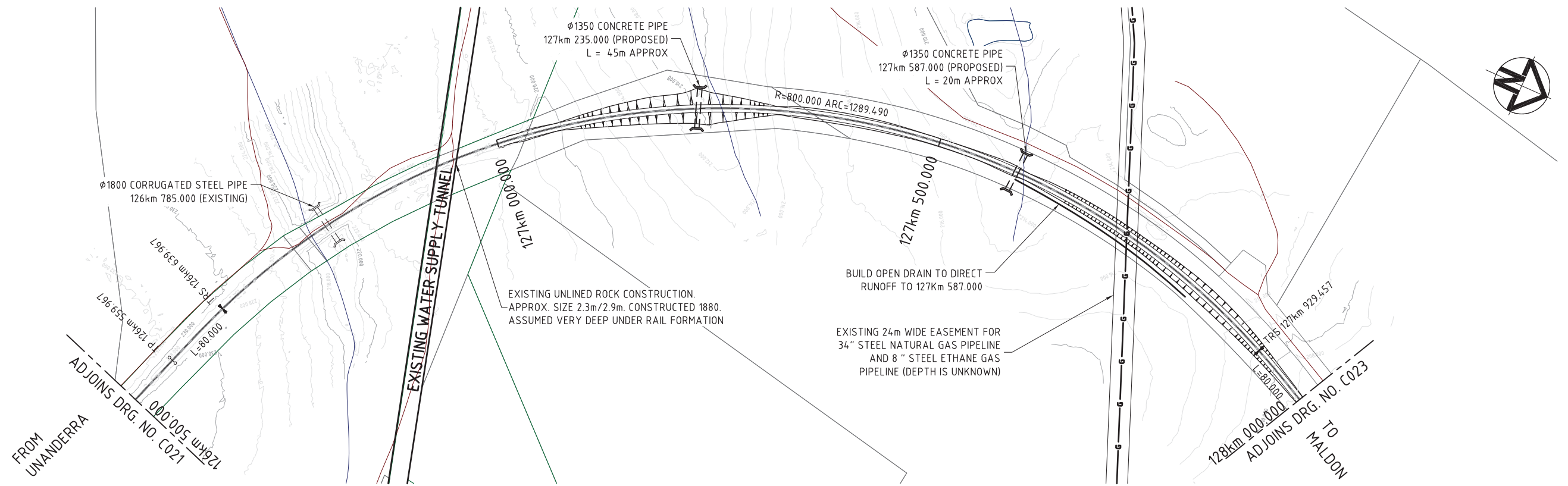
PROPOSED HORIZONTAL  
AND VERTICAL ALIGNMENT  
(SHEET 18 OF 24)  
123KM500.000 - 125KM000.000

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Drawing No.	Project No.	Issue
C027	AA003069	F



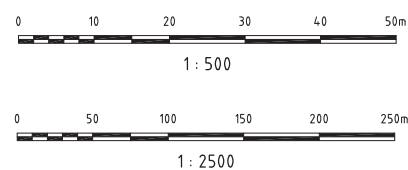




MALDON TO DOMBARTON RAIL LINK

SCALES - HORIZ. 1=2500 VERT. 1=500

F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



Client




**ACIL Tasman**  
Economics Policy Strategy

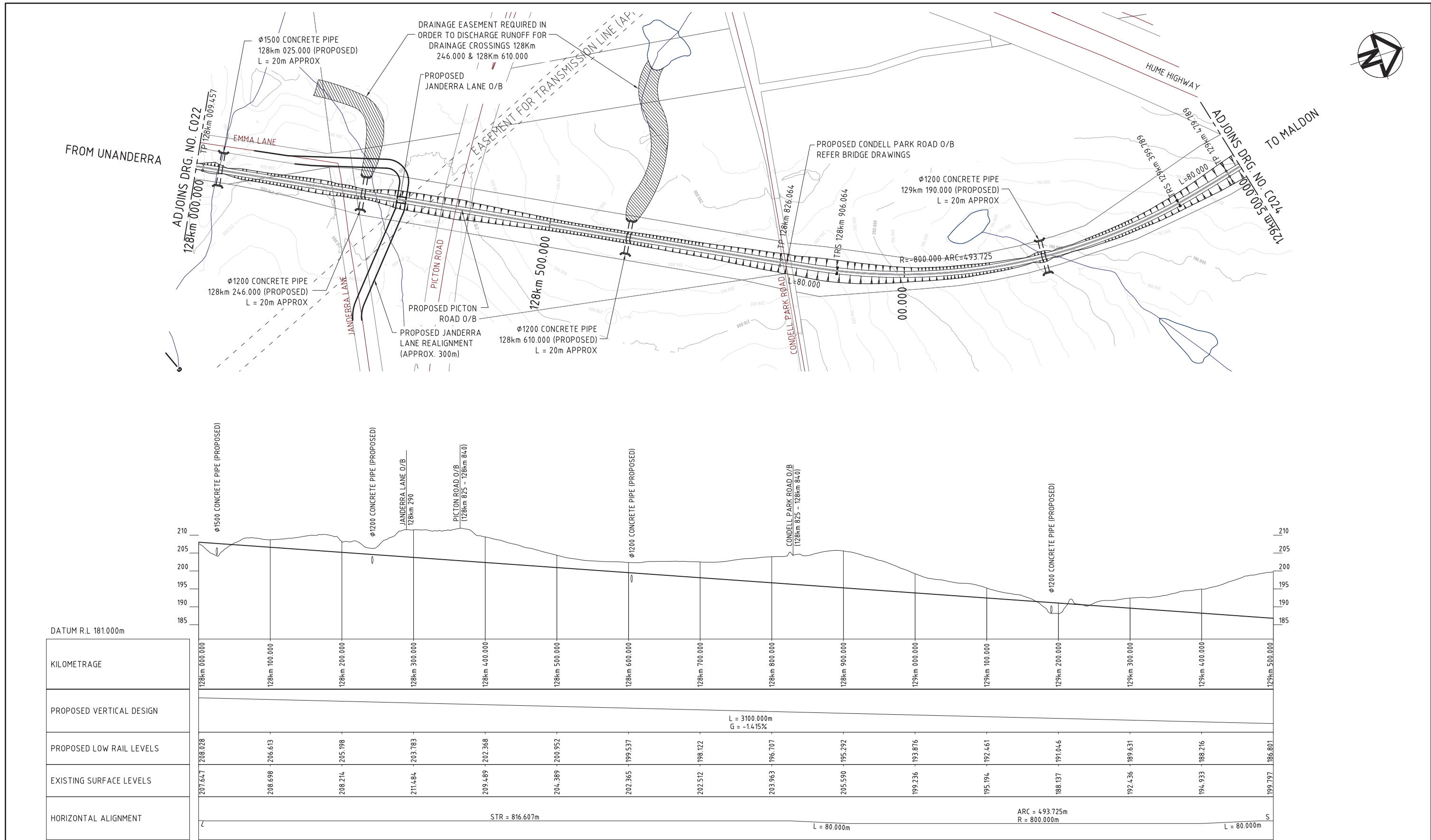
Status <b>CONCEPT</b> NOT TO BE USED FOR CONSTRUCTION		
Scales	1:2500 (H) 1:500 (V)	Current Issue Signatures
Original Size	A1	Drawn D.B.
Height Datum	AHD	Designed S.D.
Grid	ISG	Checked K.T.
Filename:	C029-aa003069-nsd-00.dwg	

Project	MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY	
Title	PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 20 OF 24) 126KM500.000 - 128KM000.000	

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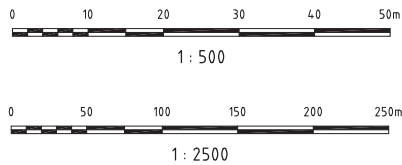


Drawing No.	Project No.	Issue
C029	AA003069	F



MALDON TO DOMBARTON RAIL LINK  
SCALES - HORIZ. 1:2500 VERT. 1:500

F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



Client

ACIL Tasman  
Economics Policy Strategy

Status <b>CONCEPT</b> NOT TO BE USED FOR CONSTRUCTION		
Scales	1:2500 (H) 1:500 (V)	Current Issue Signatures
		Drawn D.B.
Original Size	A1	Designed S.D.
Height Datum	AHD	Checked K.T.
Grid	ISG	Approved
Filename: C030-aa003069-nsd-00.dwg		

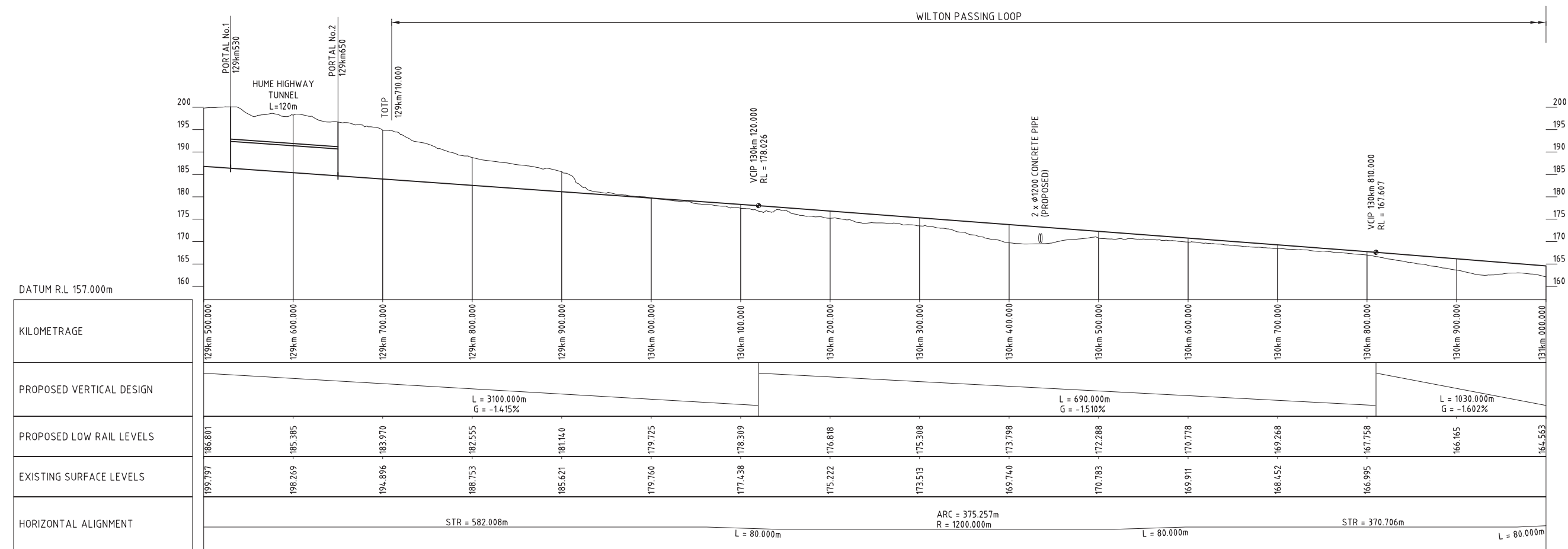
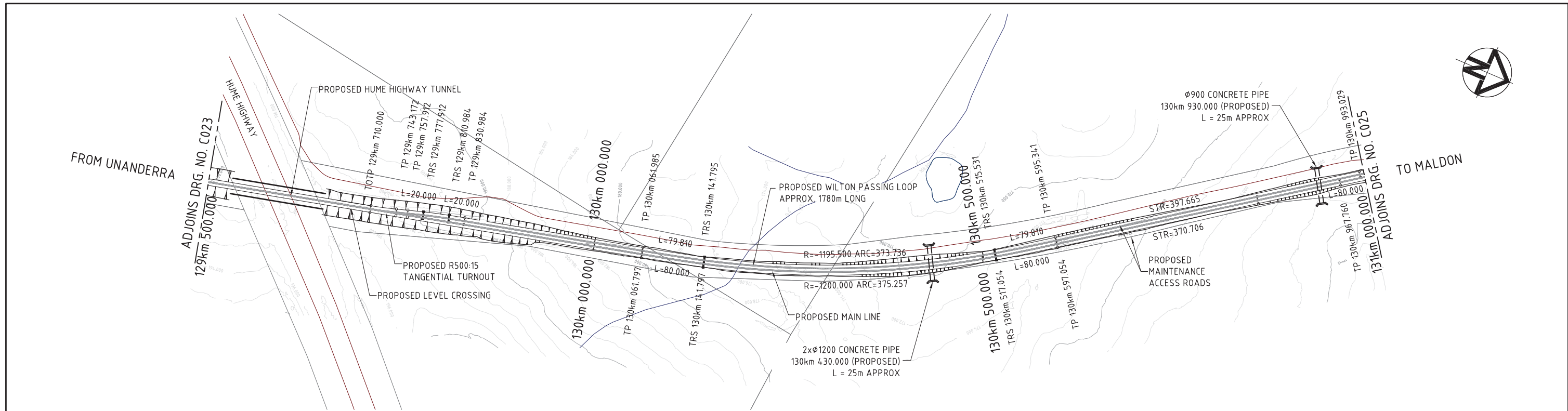
Project  
**MALDON TO DOMBARTON  
RAILWAY LINK  
FEASIBILITY STUDY**

Title  
**PROPOSED HORIZONTAL  
AND VERTICAL ALIGNMENT  
(SHEET 21 OF 24)  
128KM000.000 - 129KM500.000**

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ABN 76 104 485 289  
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North Sydney NSW 2060  
Australia  
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Fax: +61 (0)2 8907 9001  
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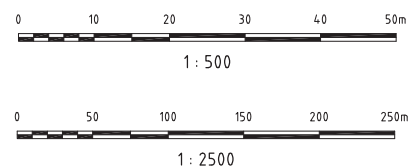
Drawing No.	Project No.	Issue
C030	AA003069	F





MALDON TO DOMBARTON RAIL LINK  
SCALES - HORIZ. 1=2500 VERT. 1=500

F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



Client




**ACIL Tasman**  
Economics Policy Strategy

<b>CONCEPT</b> NOT TO BE USED FOR CONSTRUCTION			
Scales	1:2500 (H) 1:500 (V)	Current Issue Signatures	
		Drawn	D.B.
Original Size	A1	Designed	S.D.
Height	AHD	Checked	K.T.
Datum	ISG	Approved	
Grid			
Filename:	C031-aa003069-nsd-00.dwg		

Project	MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY		
Title	PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 22 OF 24) 129KM500.000 - 131KM000.000		

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ABN 76 104 485 289  
Level 5, 141 Walker St  
North Sydney NSW 2060  
Australia  
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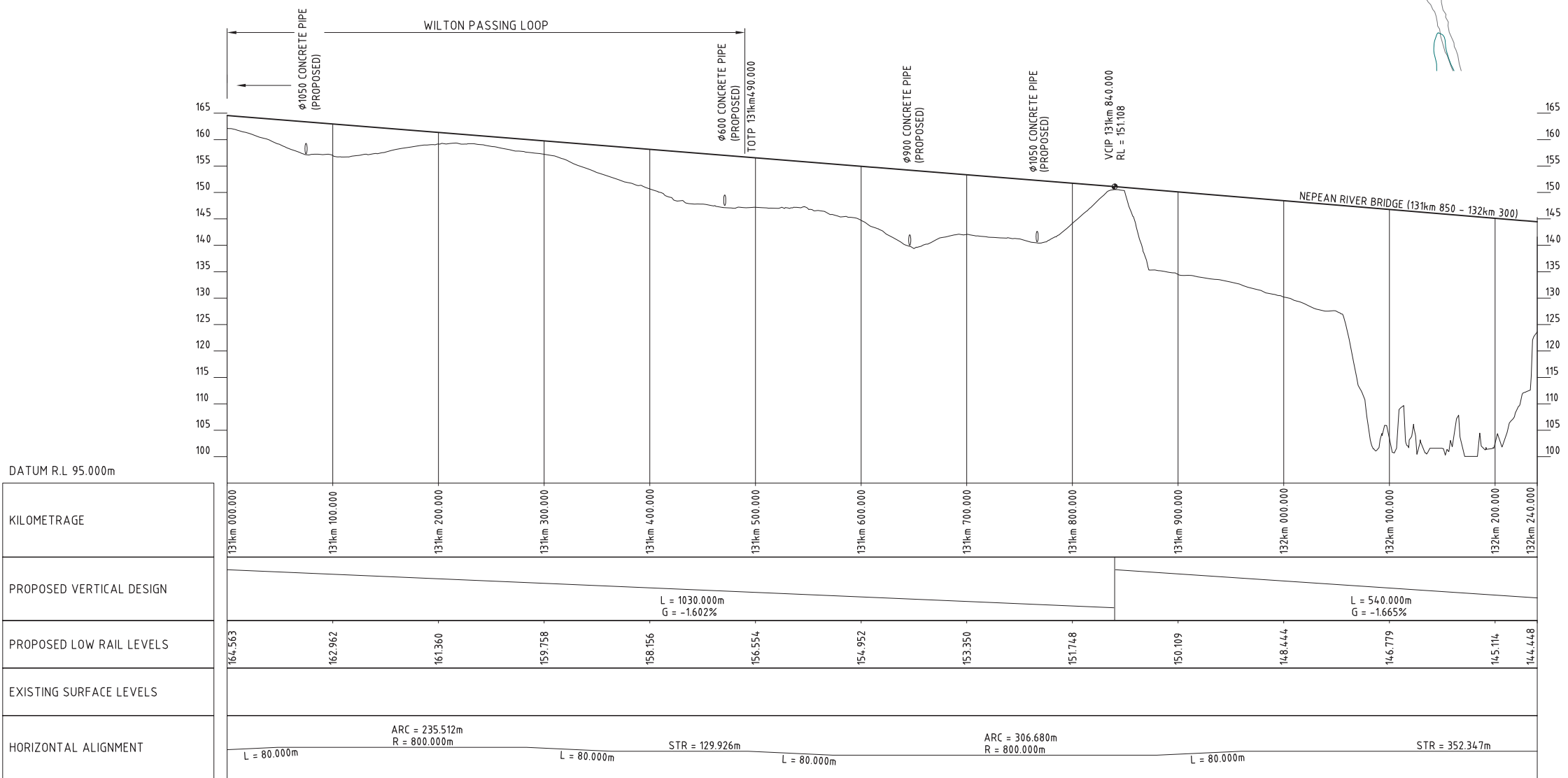
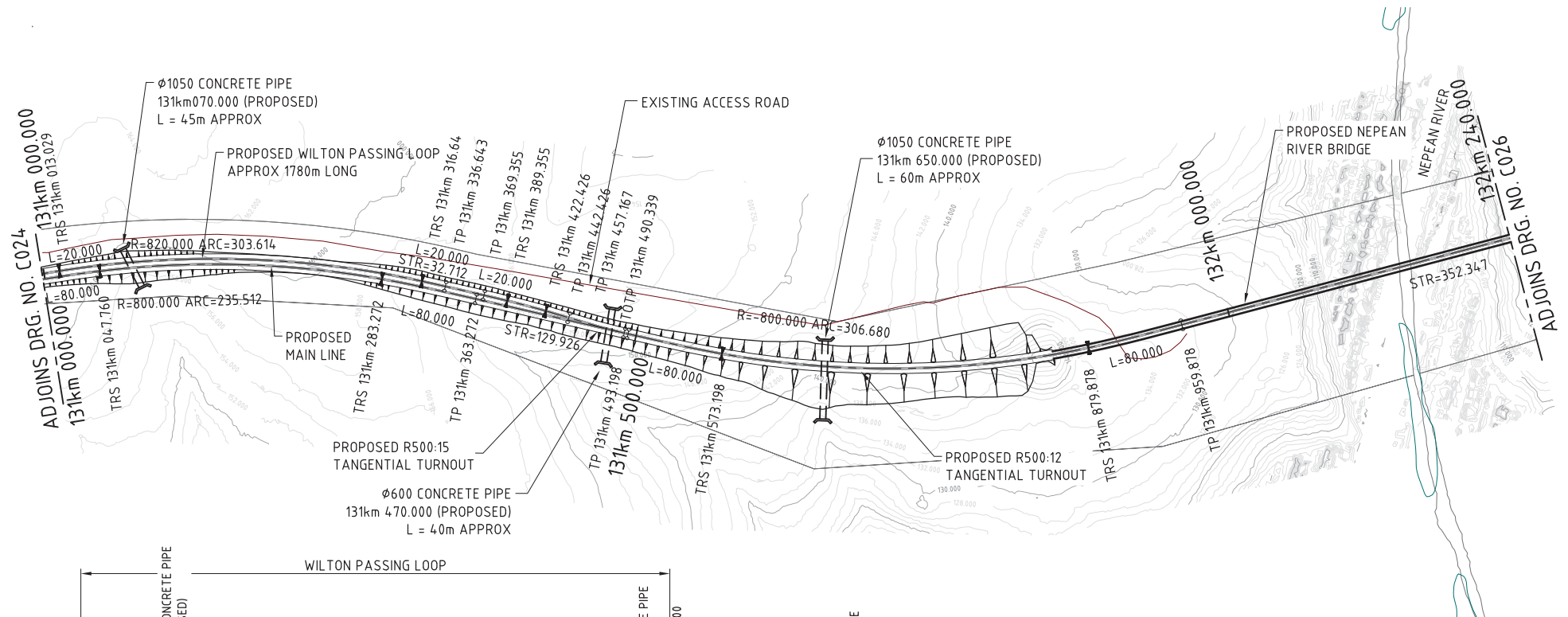


Drawing No.	Project No.	Issue
C031	AA003069	F



FROM UNANDERRA

TO MALDON

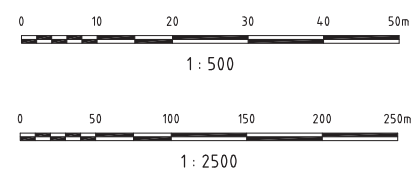


DATUM R.L. 95.000m

KILOMETRAGE	131km 000.000	131km 100.000	131km 200.000	131km 300.000	131km 400.000	131km 500.000	131km 600.000	131km 700.000	131km 800.000	131km 900.000	132km 000.000	132km 100.000	132km 200.000	132km 240.000
PROPOSED VERTICAL DESIGN														
PROPOSED LOW RAIL LEVELS	164.563	162.962	161.360	159.758	158.156	156.554	154.952	153.350	151.748	150.109	148.444	146.779	145.114	144.448
EXISTING SURFACE LEVELS														
HORIZONTAL ALIGNMENT														

MALDON TO DOMBARTON RAIL LINK  
SCALES - HORIZ. 1=2500 VERT. 1=500

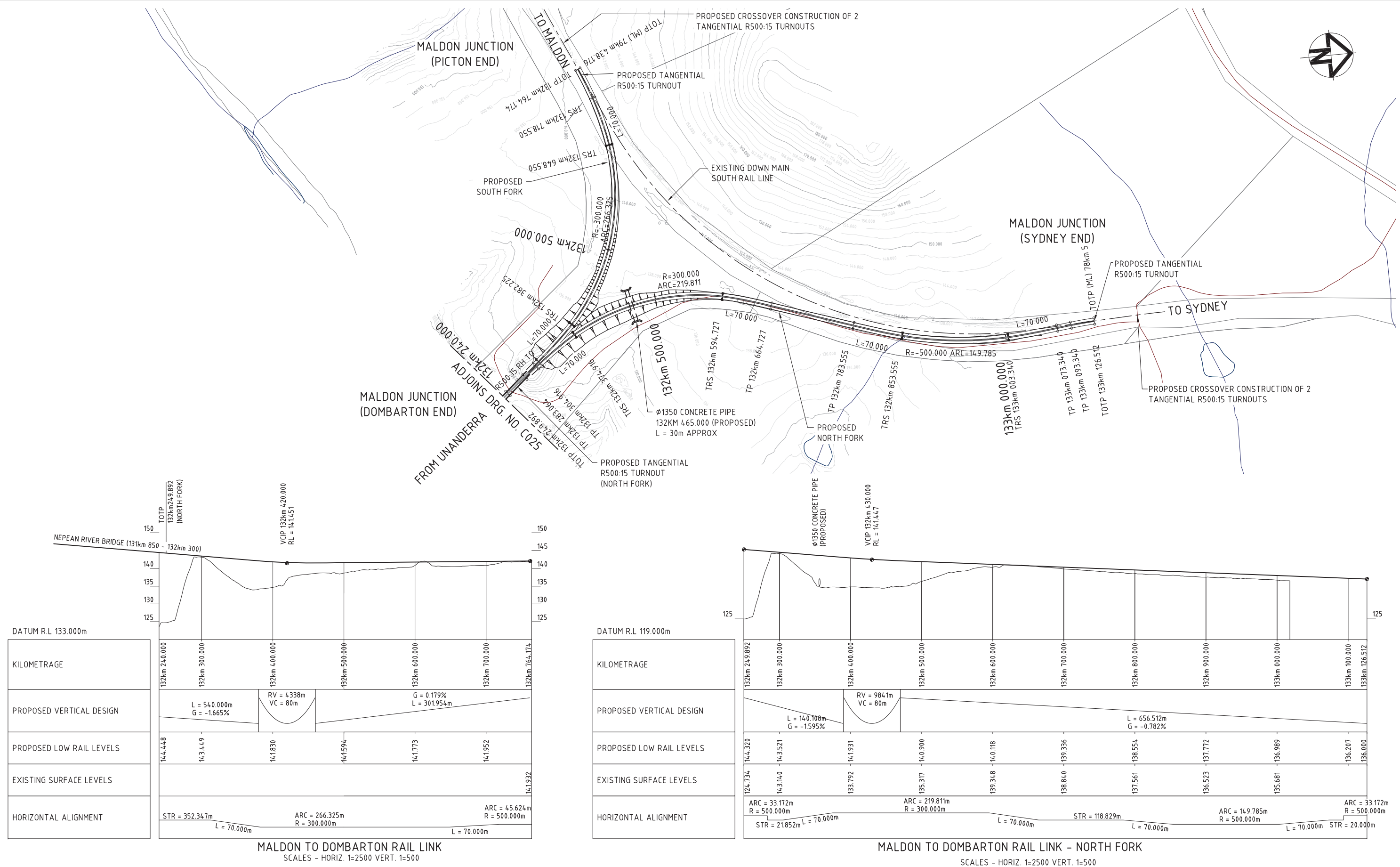
F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



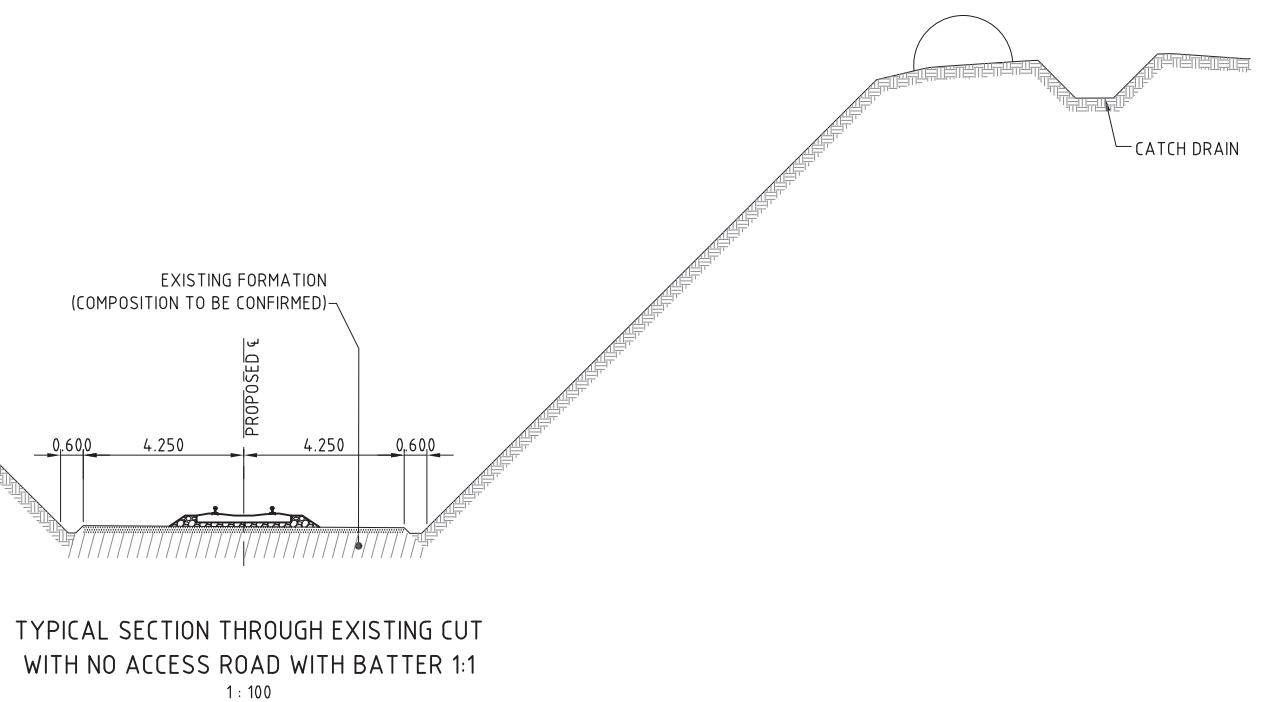
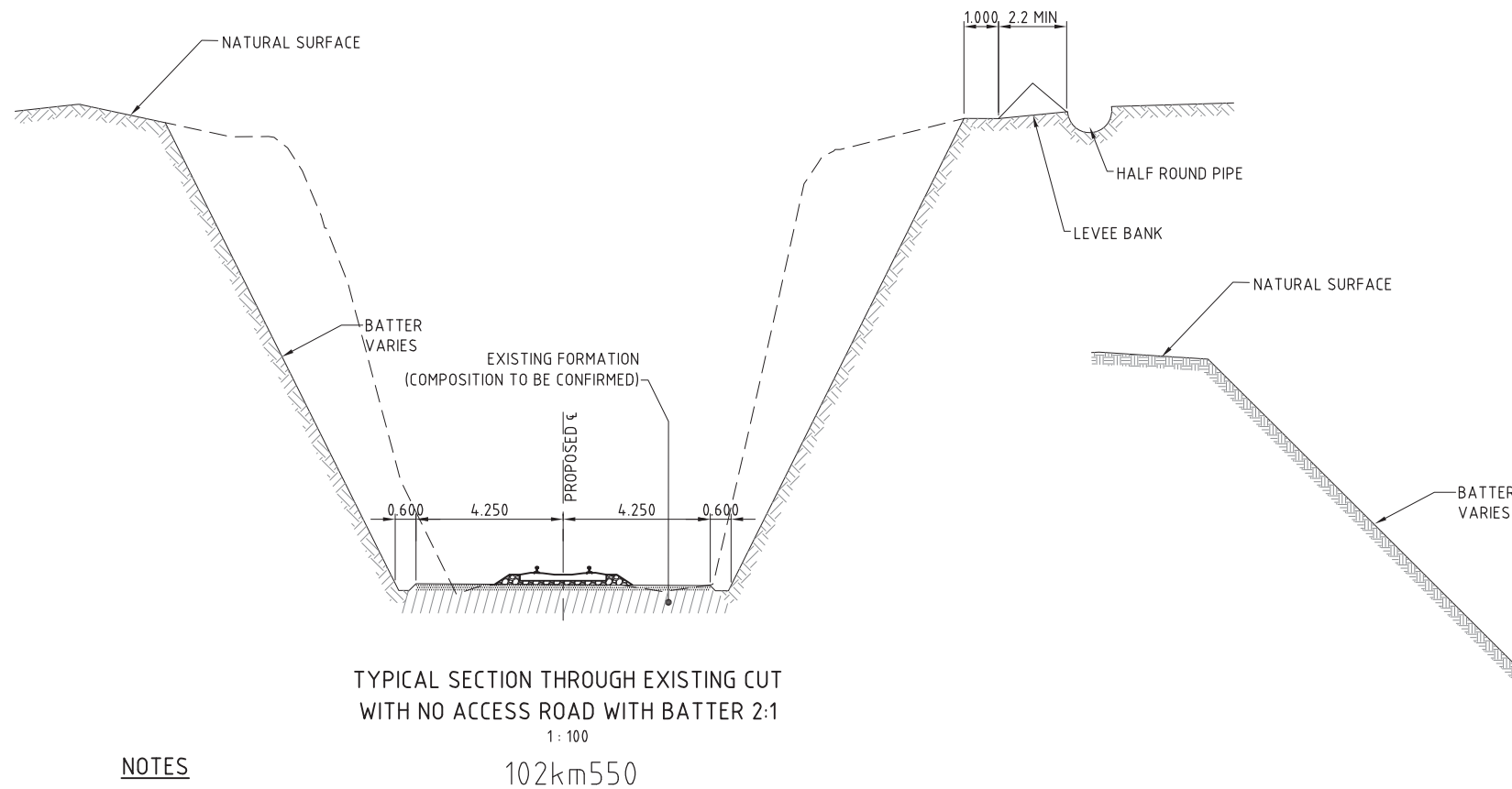
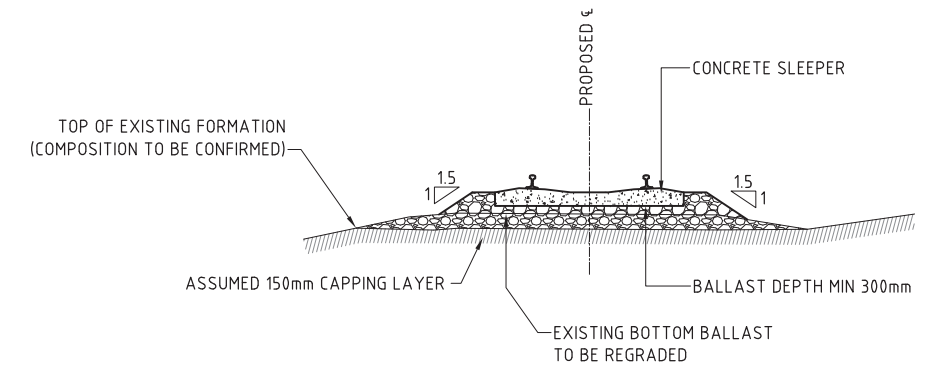
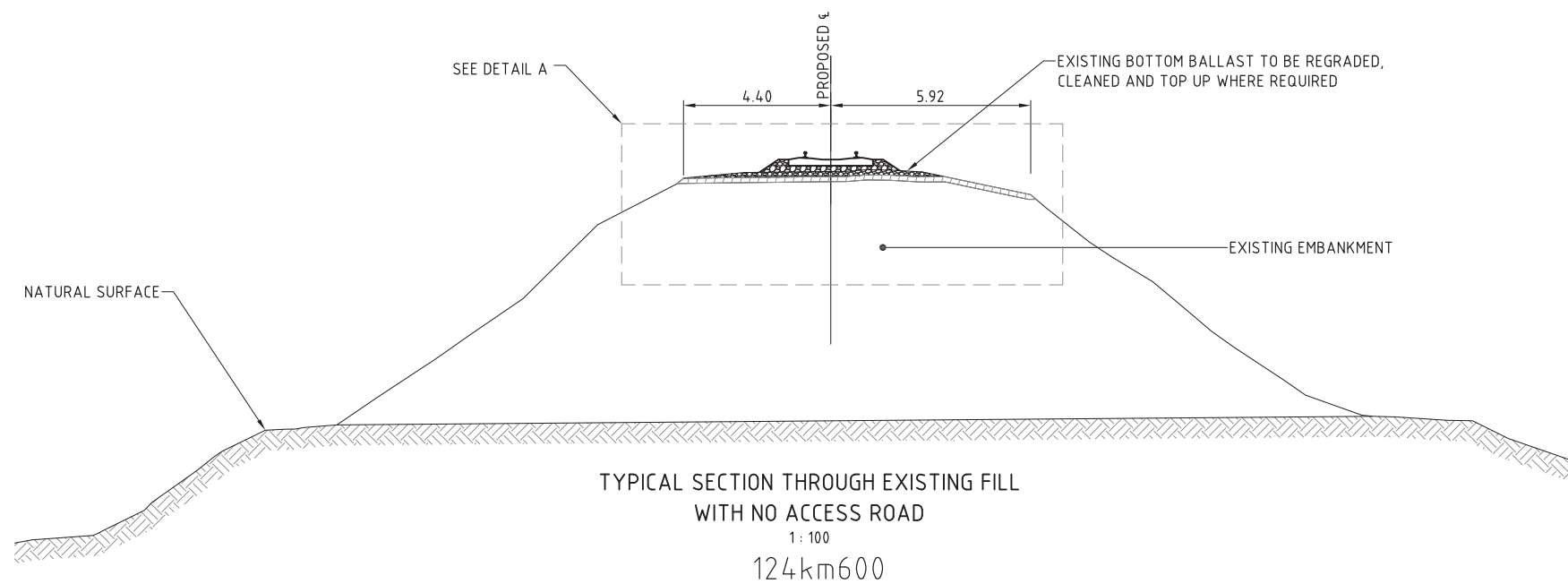
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Original Size	A1	Designed	S.D.
Height Datum	AHD	Checked	K.T.
Grid	ISG	Approved	
Filename: C032-aa003069-nsd-00.dwg			

Project <b>MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY</b>	
Title <b>PROPOSED HORIZONTAL AND VERTICAL ALIGNMENT (SHEET 23 OF 24)</b> 131KM000.000 - 132KM240.000	

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Drawing No.	Project No.	Issue
C032	AA003069	F

[illegible]

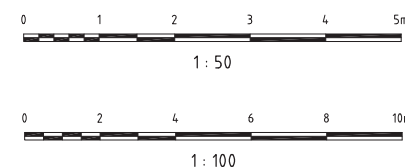




#### NOTES

- CROSS SECTIONS IN AREAS WITH PARTIALLY CONSTRUCTED EARTHWORKS, FORMATION AND BOTTOM BALLAST WITH NO MAINTENANCE ACCESS ROAD.

F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



Status	<b>CONCEPT</b> NOT TO BE USED FOR CONSTRUCTION		
Scales	1:100 1:50	Current Issue Signatures	
Original Size	A1	Drawn D.B.	
Height Datum	AHD	Designed S.D.	
Grid	ISG	Checked K.T.	
Approved			
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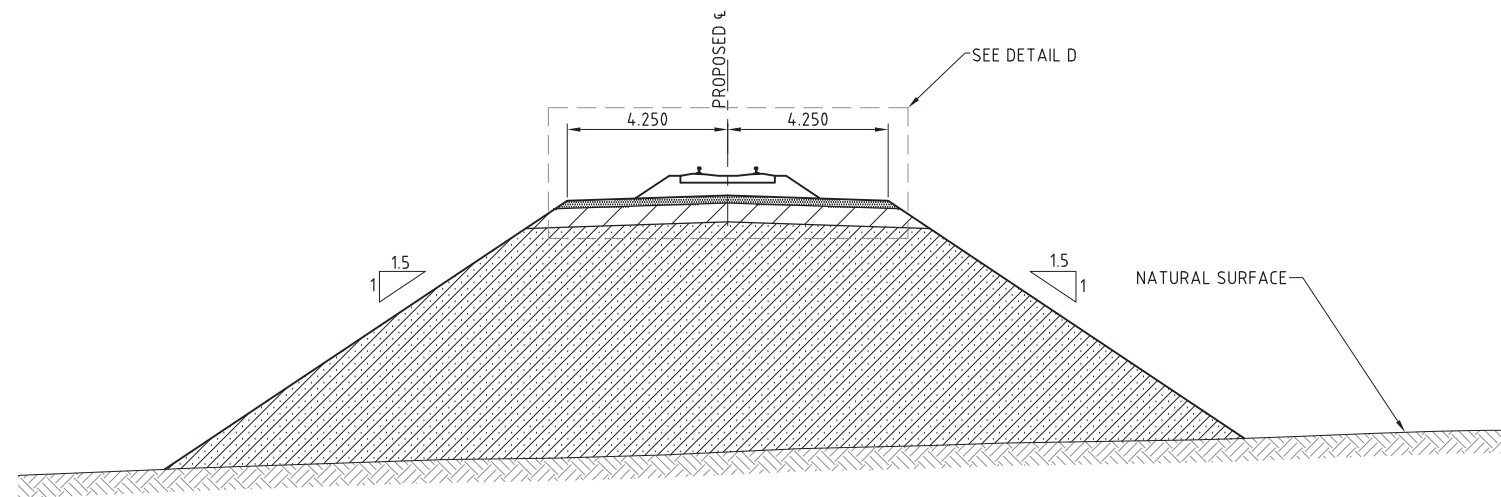
Project	MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY		
Title	TYPICAL CROSS SECTIONS (SHEET 1 OF 5)		



Drawing No.	Project No.	Issue
C051	AA003069	F

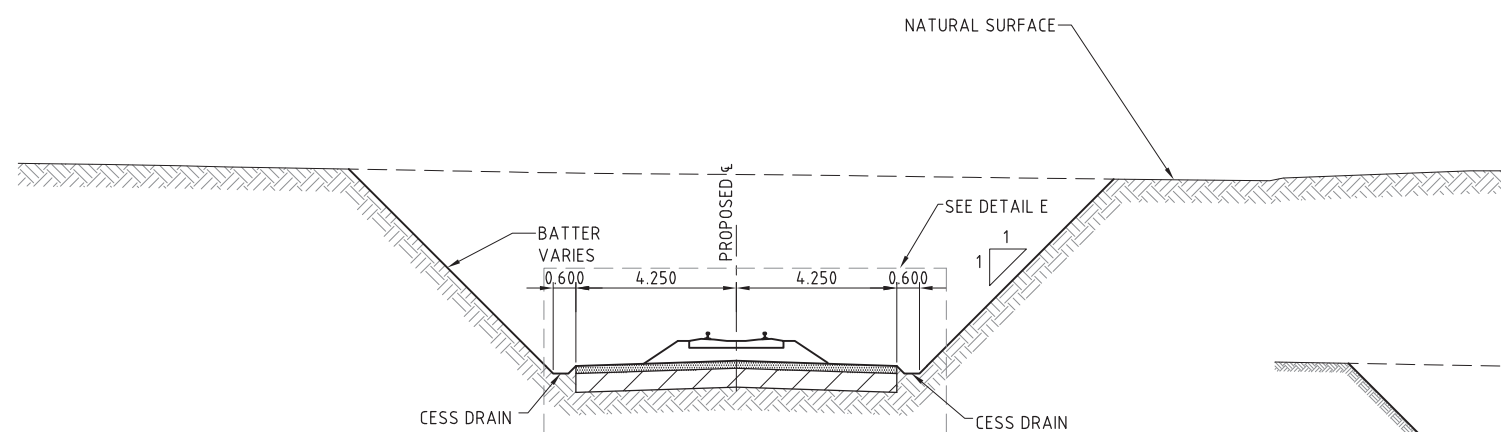






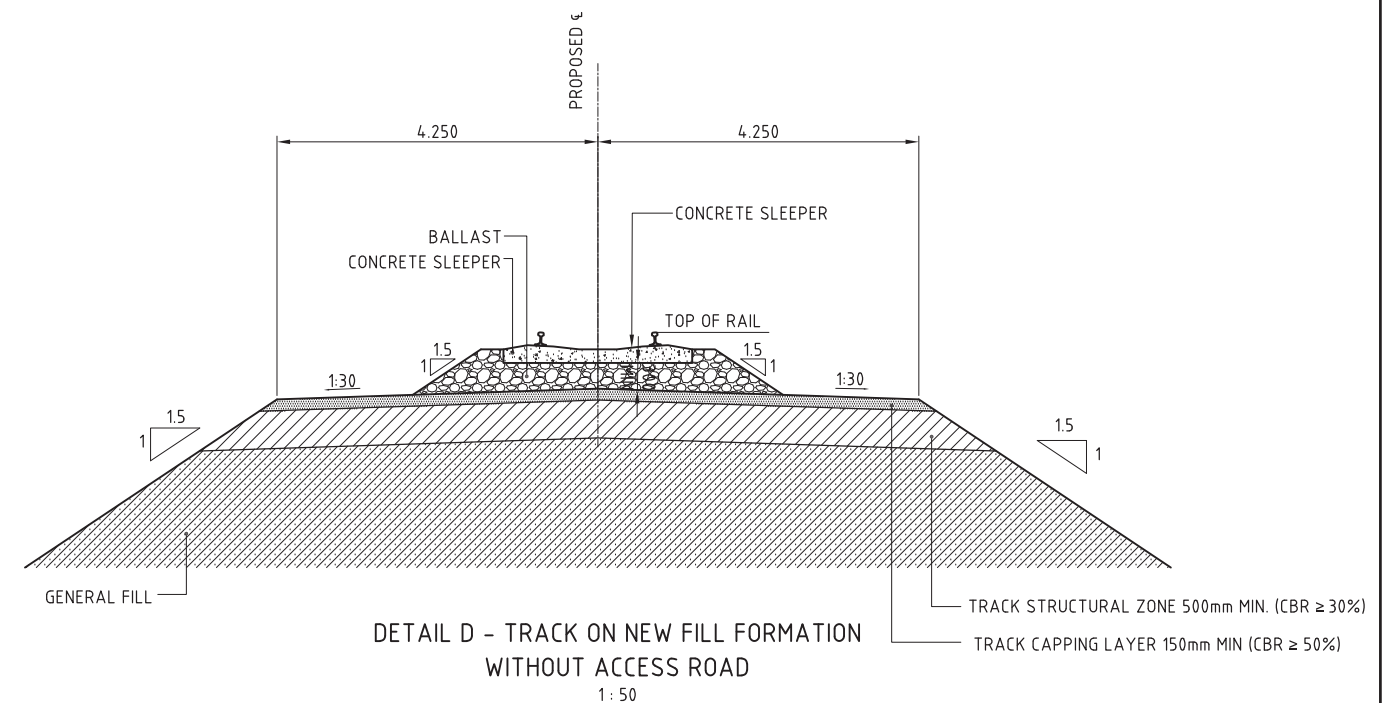
TYPICAL SECTION THROUGH PROPOSED FILL  
WITH NO ACCESS ROAD  
1 : 100

127km200

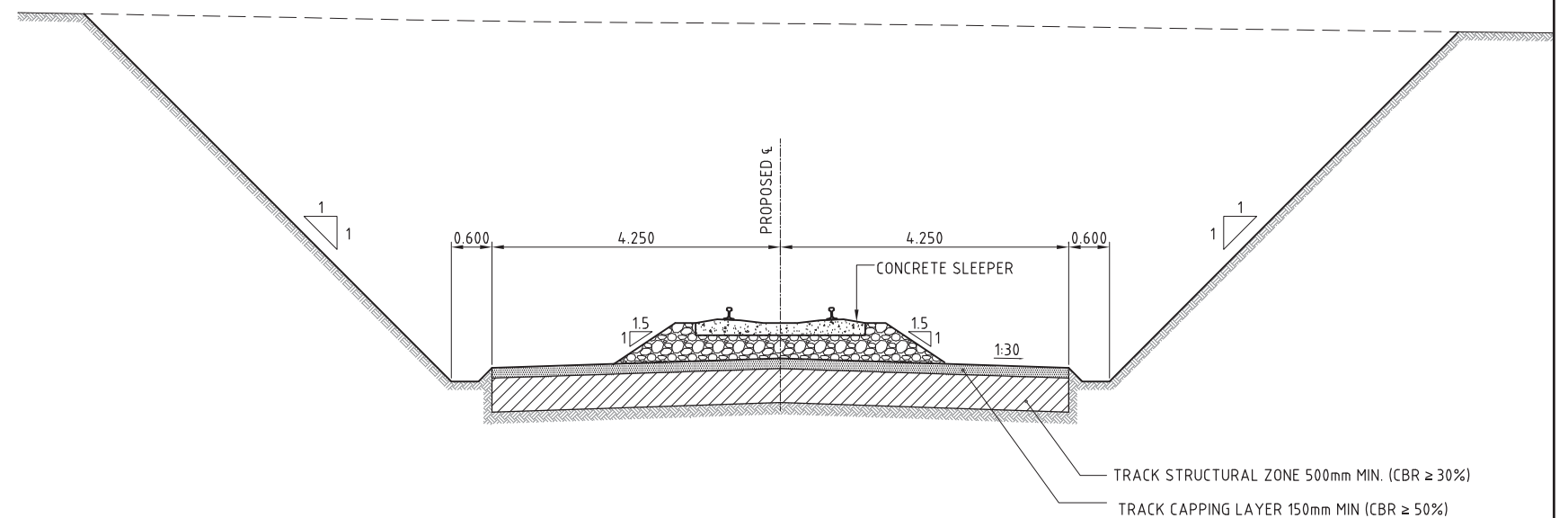


TYPICAL SECTION THROUGH PROPOSED CUT  
WITH NO ACCESS ROAD  
1 : 100

127km400



DETAIL D - TRACK ON NEW FILL FORMATION  
WITHOUT ACCESS ROAD  
1 : 50

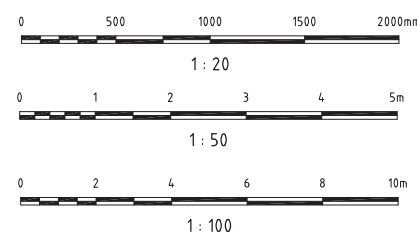


DETAIL E - TRACK ON NEW CUT FORMATION  
WITHOUT ACCESS ROAD  
1 : 20

## NOTES

- CROSS SECTIONS IN AREAS WHERE CONSTRUCTION HAS NOT BEEN COMMENCED WITH NO MAINTENANCE ACCESS ROAD.

F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



Client



Status

**CONCEPT**  
NOT TO BE USED FOR CONSTRUCTION

Scales	1:100 1:50	Current Issue Signatures
Original Size	A1	Drawn D.B.
Height Datum	AHD	Designed S.D.
Grid	ISG	Checked K.T.
Filename	C053-aa003069-nsd-00.dwg	Approved

Project

**MALDON TO DOMBARTON  
RAILWAY LINK  
FEASIBILITY STUDY**

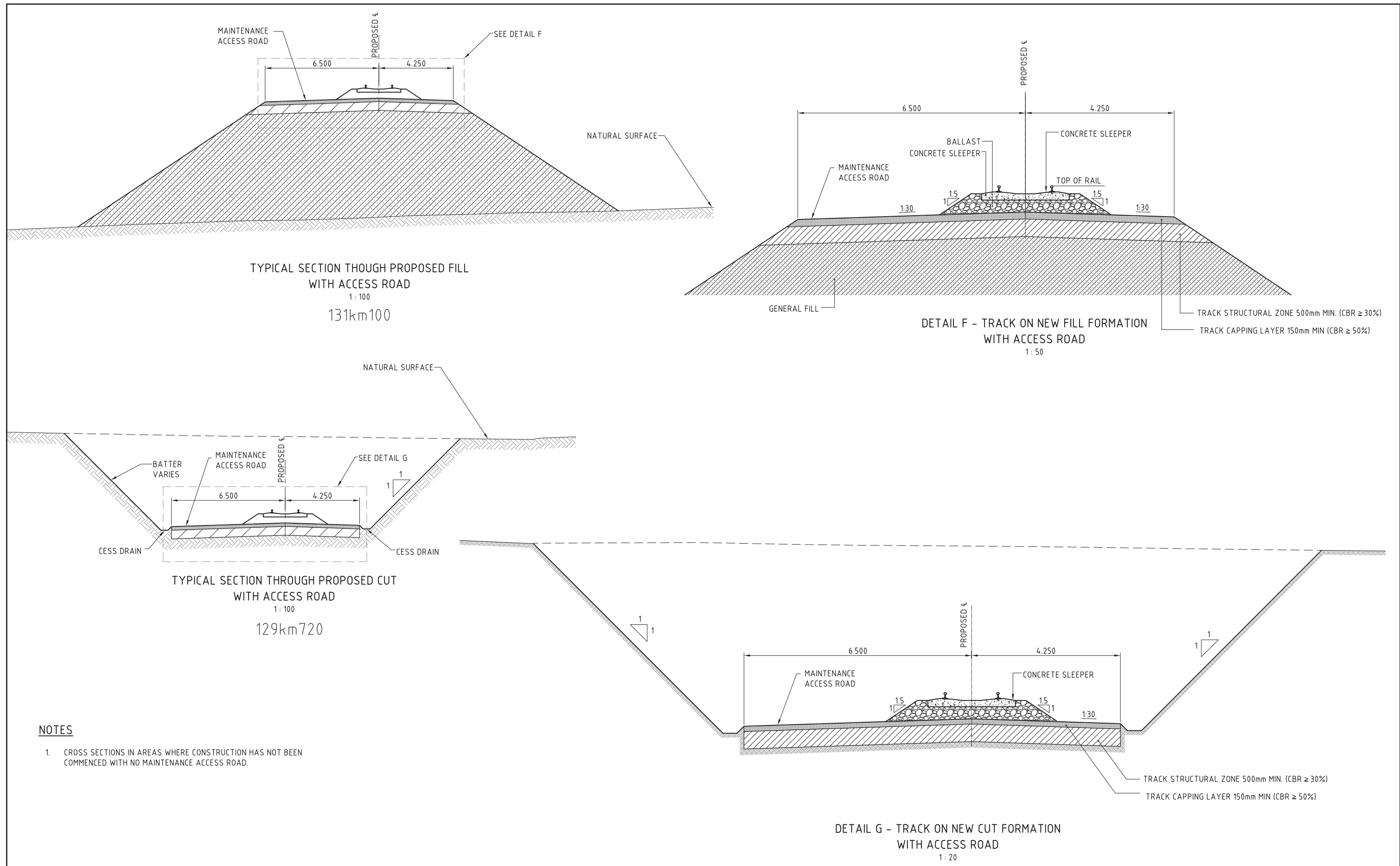
Title

**TYPICAL CROSS SECTIONS  
(SHEET 3 OF 5)**

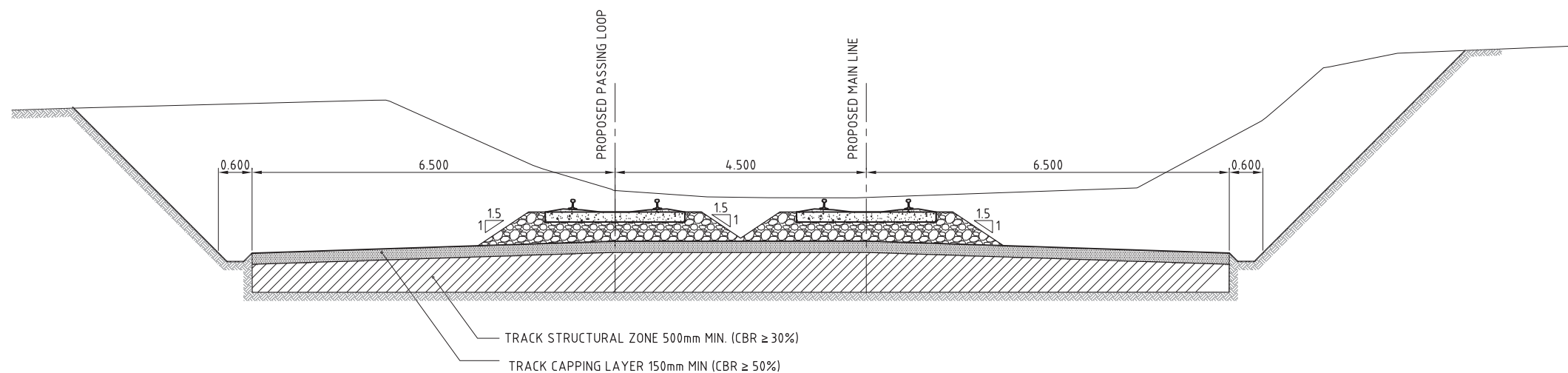
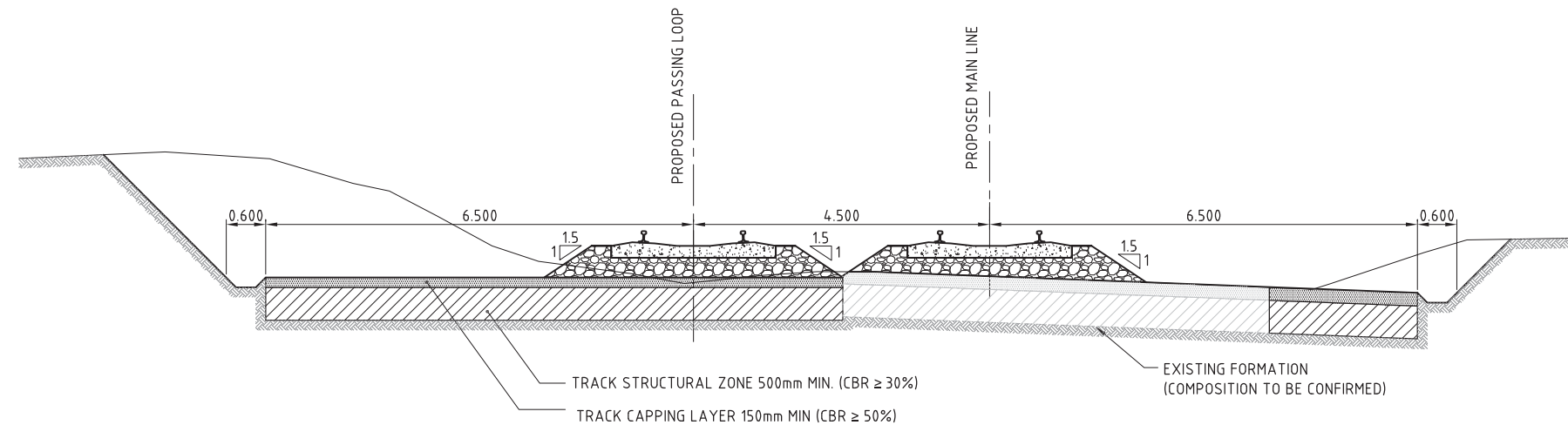
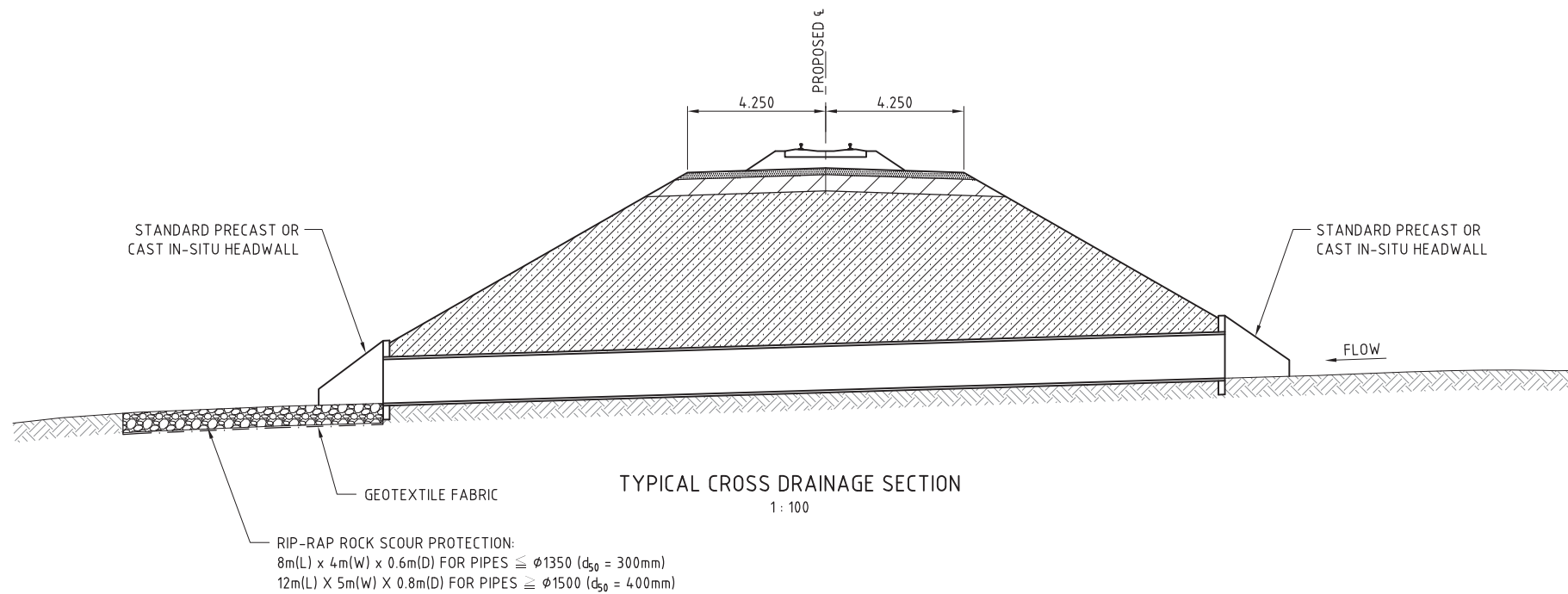


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Drawing No.	Project No.	Issue
C053	AA003069	F



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F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



Client



Status	<b>CONCEPT</b> NOT TO BE USED FOR CONSTRUCTION	
Scales	1:100 1:50	Current Issue Signatures
Original Size	A1	Drawn D.B.
Height Datum	AHD	Designed S.D.
Grid	ISG	Checked K.T.
Filename	C055-aa003069-nsd-00.dwg	
	Approved	

Project	MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY
Title	TYPICAL CROSS SECTIONS (SHEET 5 OF 5)

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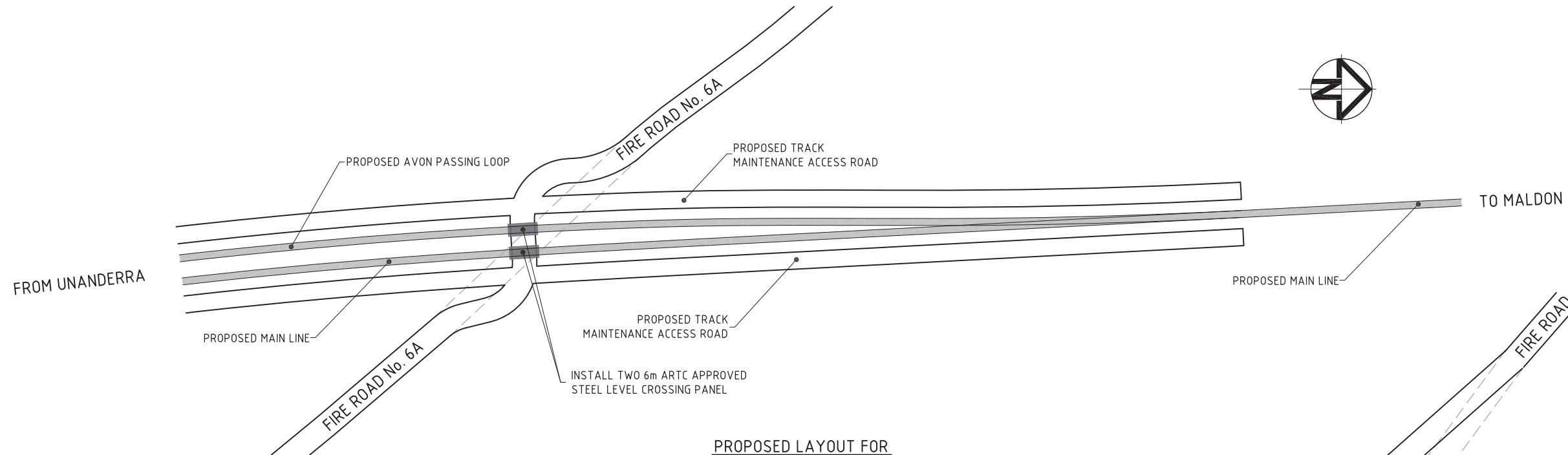
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North Sydney NSW 2060  
Australia

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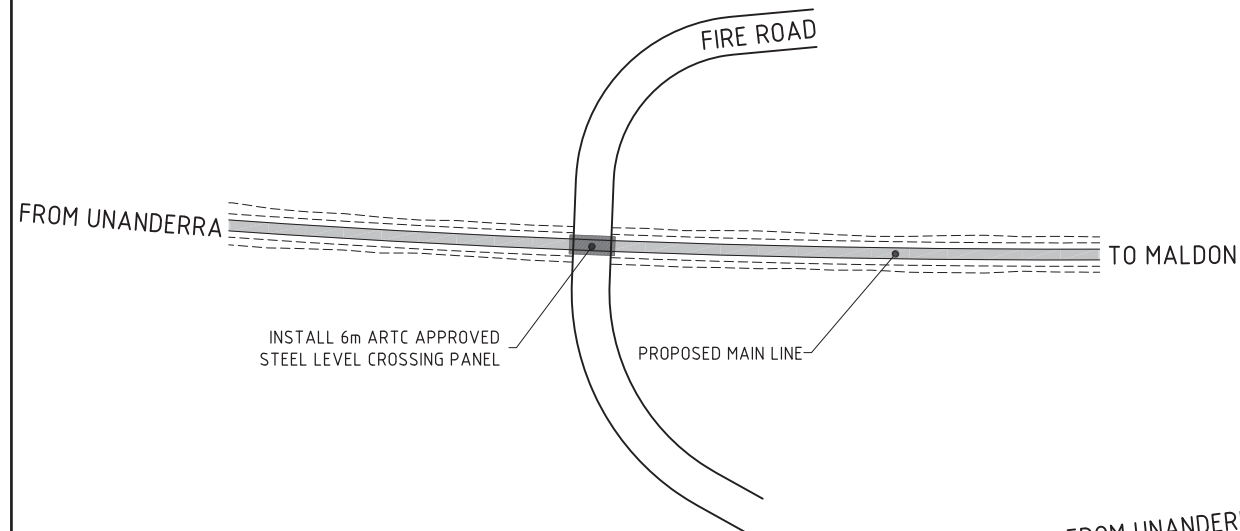
Hyder

Drawing No.	Project No.	Issue
C055	AA003069	F

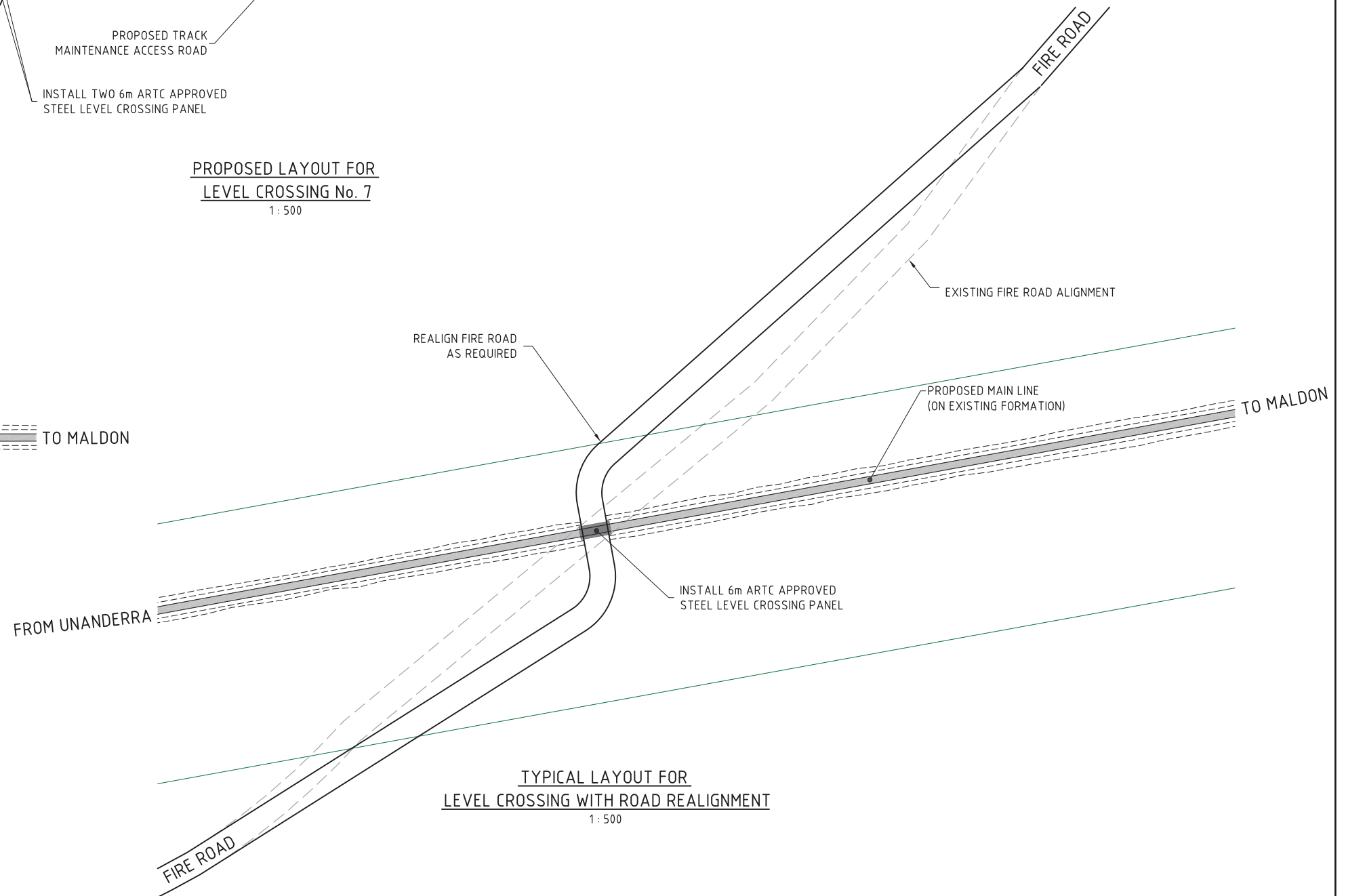




PROPOSED LAYOUT FOR  
LEVEL CROSSING No. 7  
1: 500



TYPICAL LAYOUT FOR  
LEVEL CROSSING WITHOUT ROAD REALIGNMENT  
1: 500

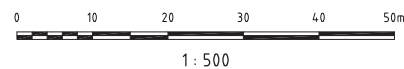


TYPICAL LAYOUT FOR  
LEVEL CROSSING WITH ROAD REALIGNMENT  
1: 500

#### NOTES

1. TYPICAL LAYOUT LEVEL CROSSING WITHOUT ROAD REALIGNMENT APPLIES FOR LEVEL CROSSINGS No.1, 3, 5 AND 12.
2. TYPICAL LAYOUT LEVEL CROSSING WITH ROAD REALIGNMENT APPLIES FOR LEVEL CROSSINGS No.2, 4, 6, 8, 9, 10 AND 11.

F	CONCEPT DESIGN	26.11.10
Issue	Description	Date

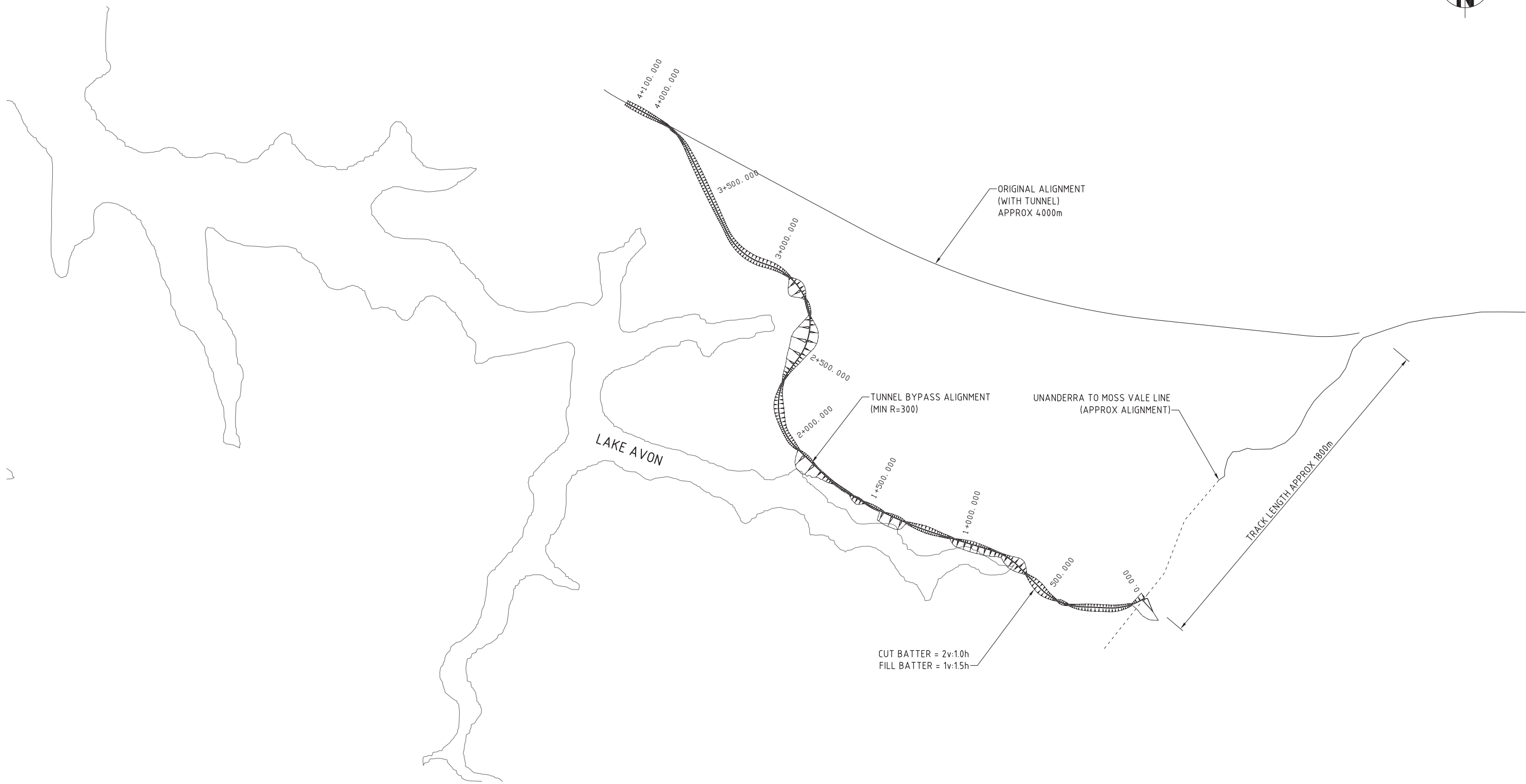


Status		
CONCEPT NOT TO BE USED FOR CONSTRUCTION		
Scales	1:500	Current Issue Signatures
		Drawn D.B.
Original Size	A1	Designed S.D.
Height Datum	AHD	Checked K.T.
Grid	ISG	Approved
Filename:	C060-aa003069-nsd-00.dwg	

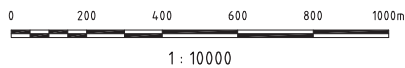
Project	MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY
Title	TYPICAL ARRANGEMENTS AT PROPOSED LEVEL CROSSINGS

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Drawing No.	Project No.	Issue
C060	AA003069	F



F	FEASIBILITY DESIGN	31-05-11
Issue	Description	Date



Client

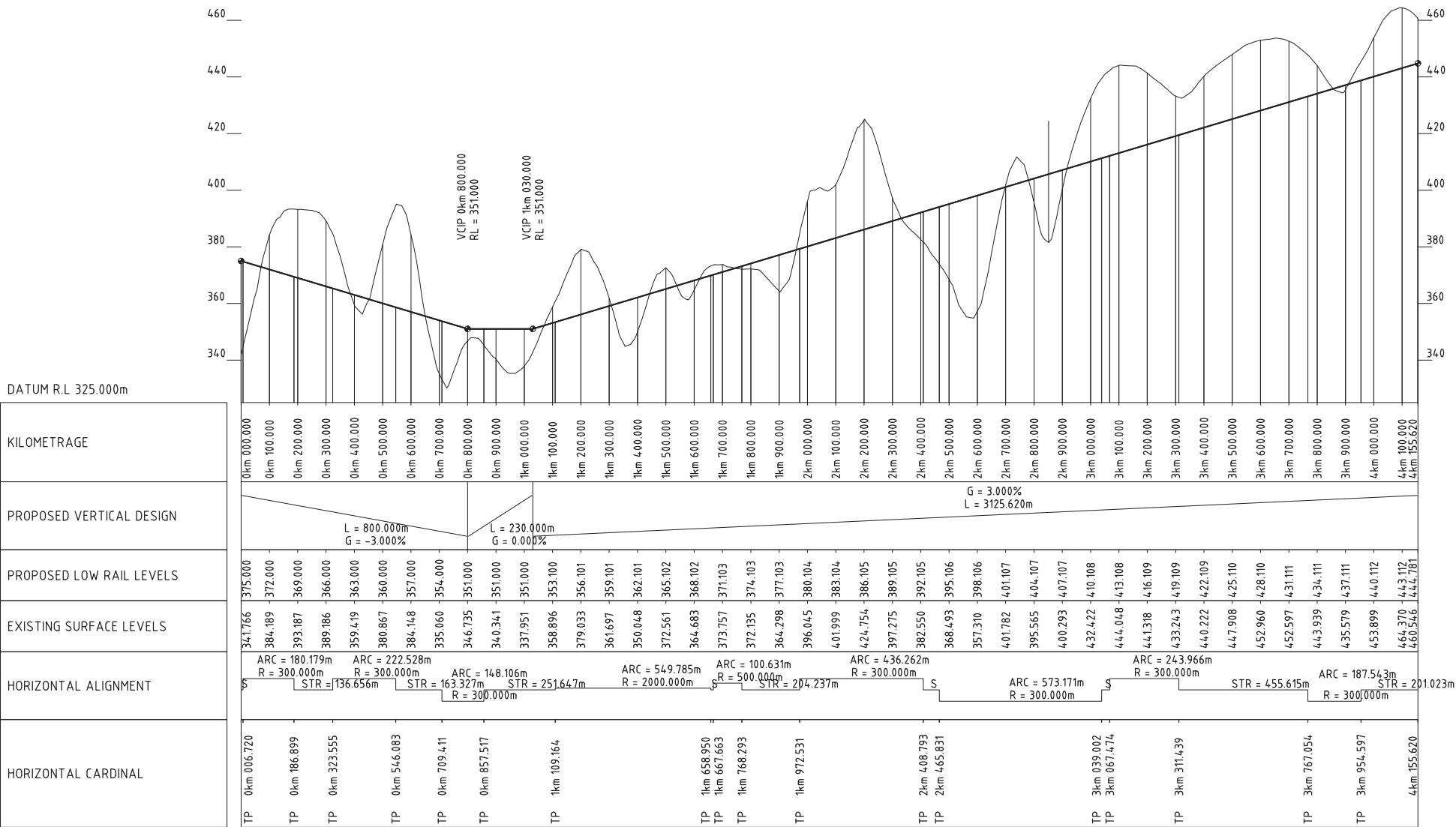
**ACIL Tasman**  
Economics Policy Strategy

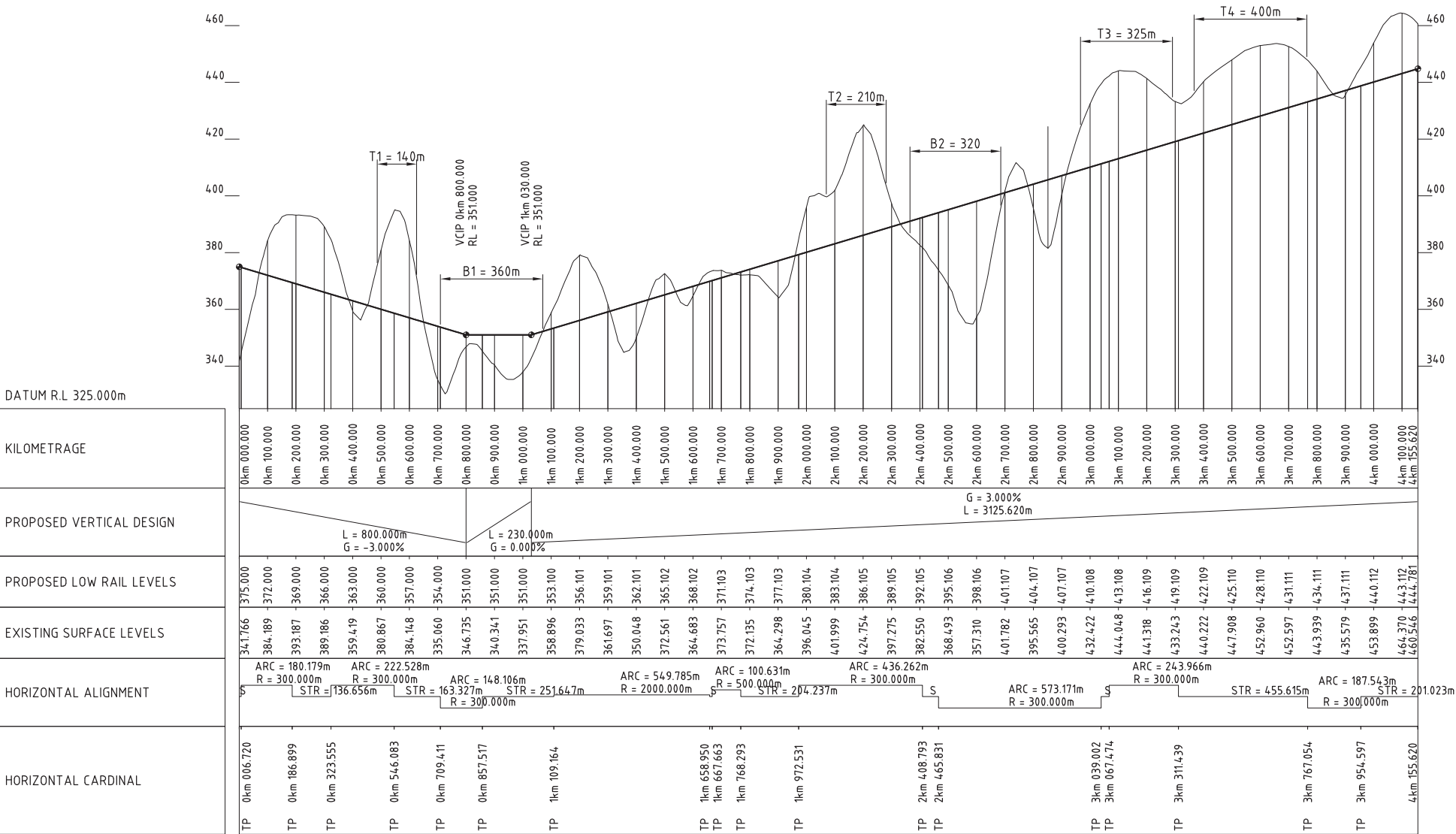
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Project <b>MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY</b>	
Title <b>AVON TUNNEL BYPASS OPTION PLAN</b>	

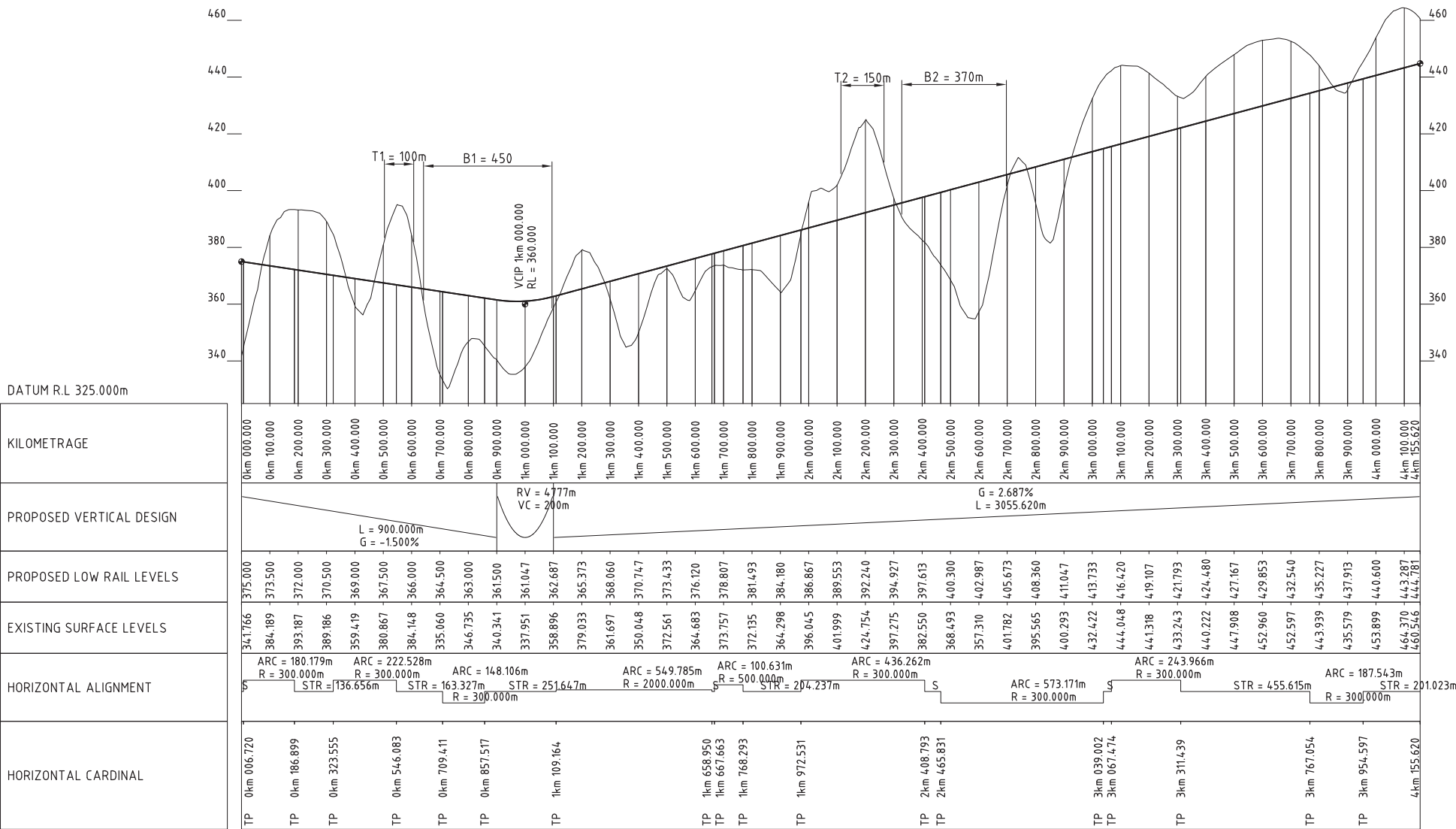
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Drawing No.	Project No.	Issue
<b>SK0044</b>	<b>AA003069</b>	<b>F</b>



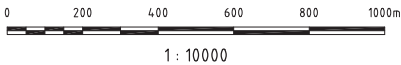






AVON TUNNEL BYPASS (R300)  
SCALES - HORIZ. 1=10000 VERT. 1=1000

F	FEASIBILITY DESIGN	31-05-11
Issue	Description	Date



Client

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Status <b>PRELIMINARY</b> NOT FOR CONSTRUCTION	
Scales 1 : 10000	Current Issue Signatures
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Original Size <b>A1</b>	Designed
Height Datum AHD	Checked
Grid	Approved
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Project  
**MALDON TO DOMBARTON  
RAILWAY LINK  
FEASIBILITY STUDY**

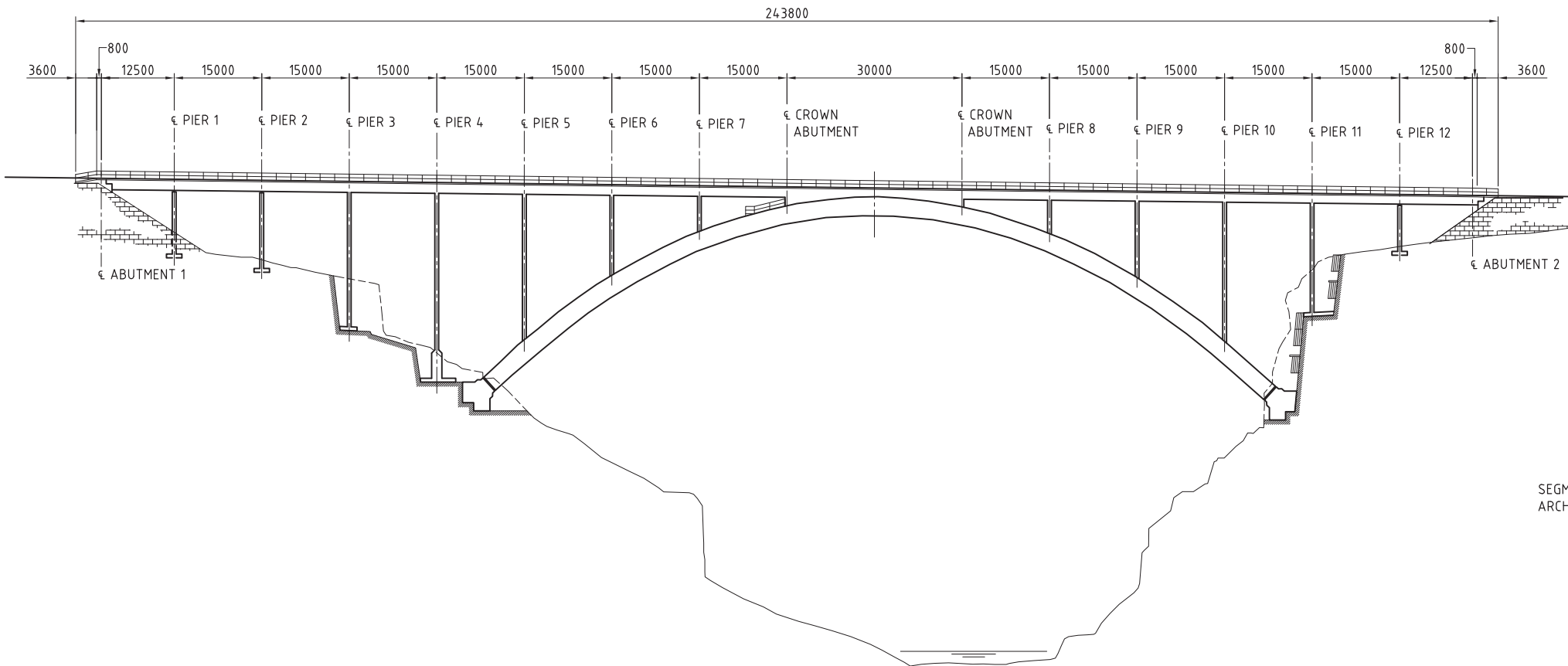
Title  
**AVON TUNNEL  
BYPASS OPTION  
LONG SECTION  
(OPTION 3)**

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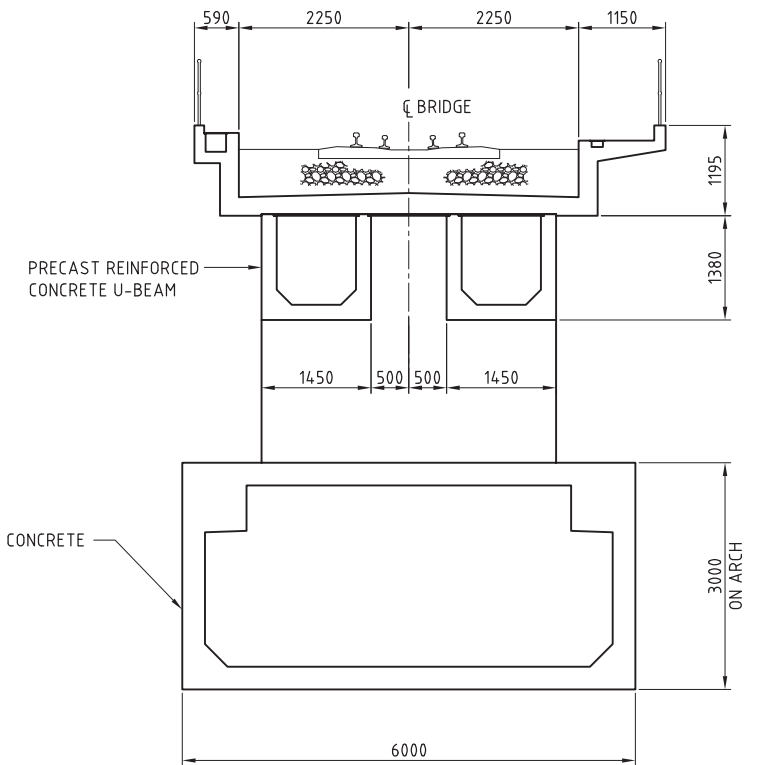
Drawing No. SK0046 — Project No. AA003069 — Issue F

FROM DOMBARTON

TO MALDON



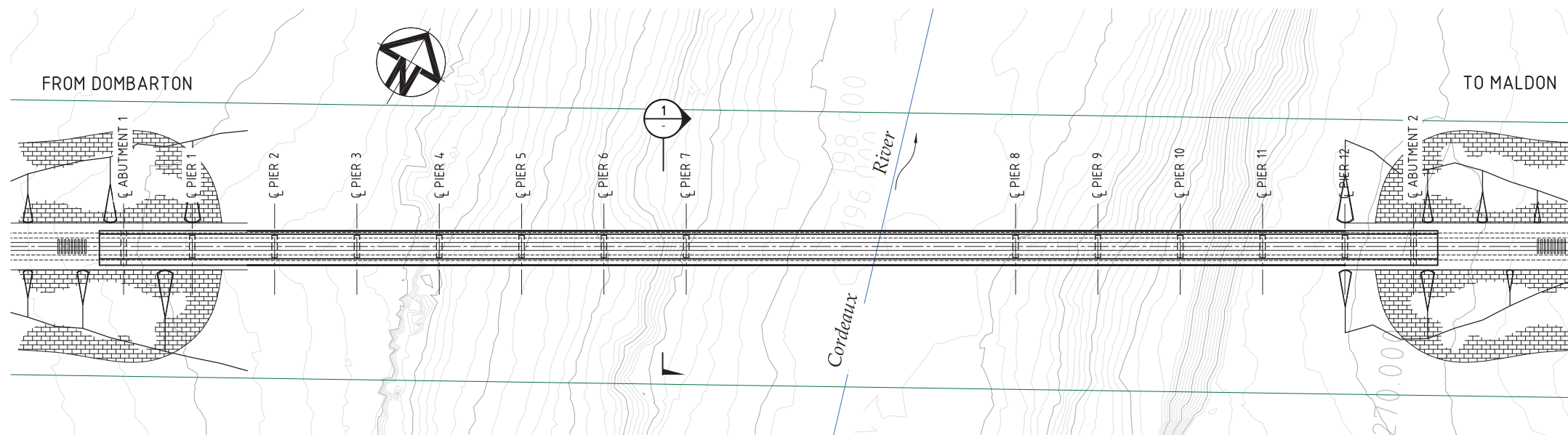
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SECTION  
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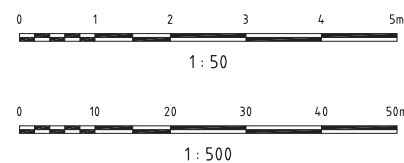
FROM DOMBARTON

TO MALDON



PLAN  
1: 500

F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



Client



Status

**CONCEPT**  
NOT TO BE USED FOR CONSTRUCTION

Scales	1:50 1:500	Current Issue Signatures
Original Size	A1	Drawn A.P.H.
Height Datum	AHD	Designed K.J.M.
Grid	ISG	Checked
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Project

**MALDON TO DOMBARTON  
RAILWAY LINK  
FEASIBILITY STUDY**

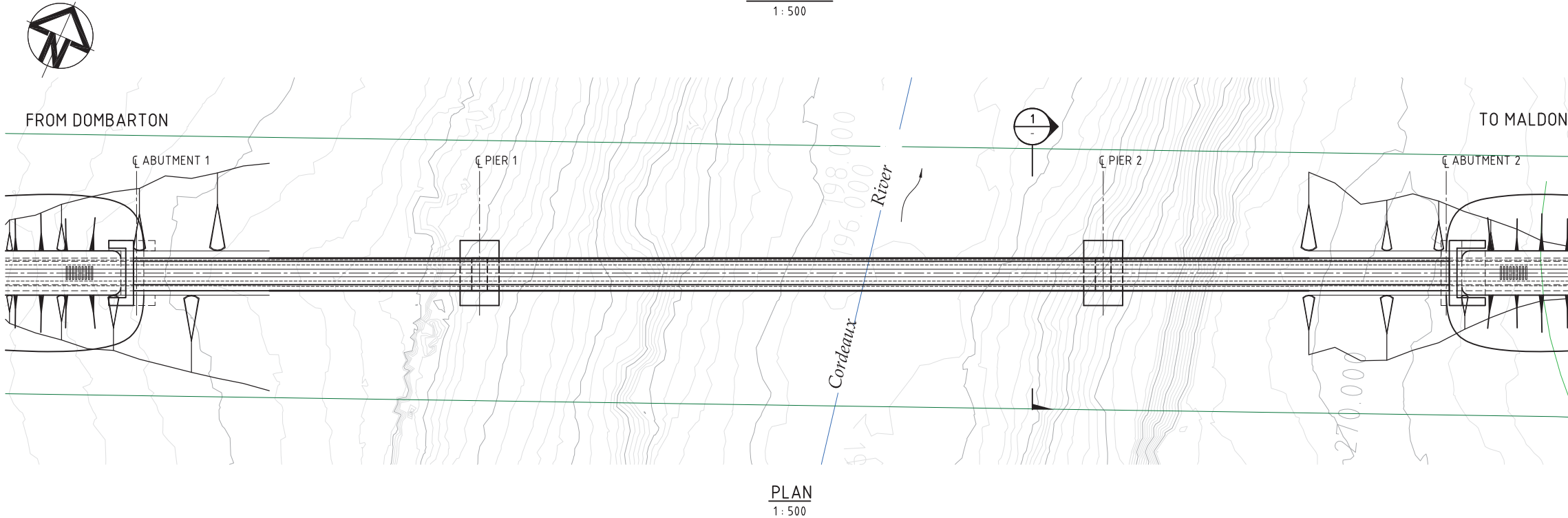
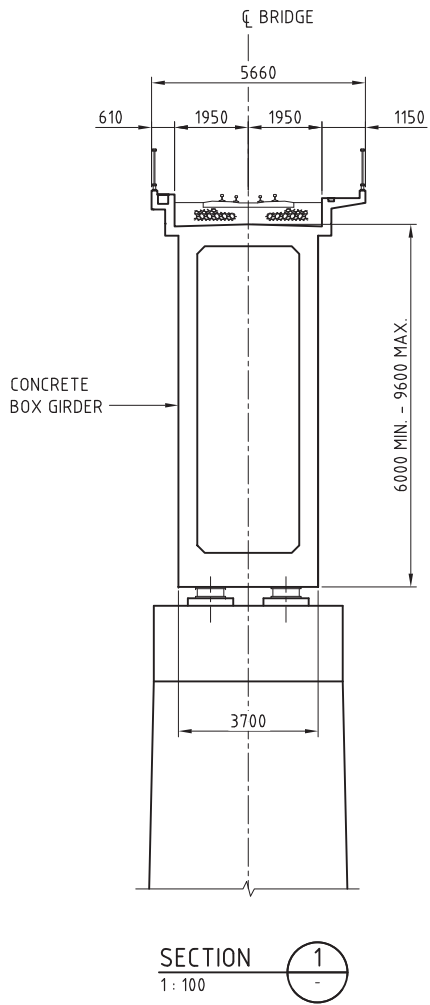
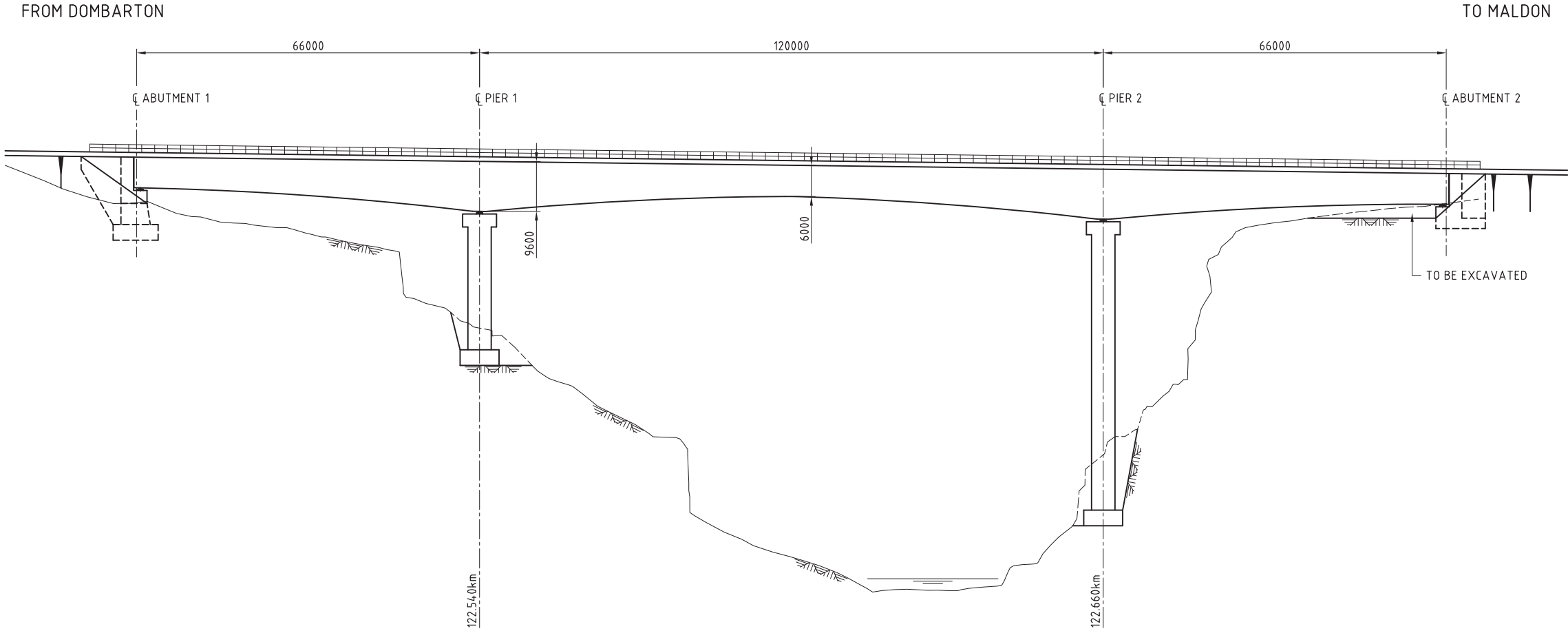
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**CORDEAUX RIVER UNDERBRIDGE  
OPTION 1**

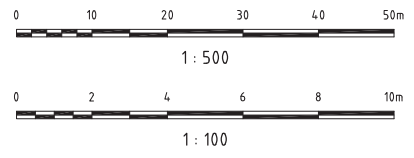


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C100 - AA003069 - F



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Issue	Description	Date



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Project

MALDON TO DOMBARTON  
RAILWAY LINK  
FEASIBILITY STUDY

Title

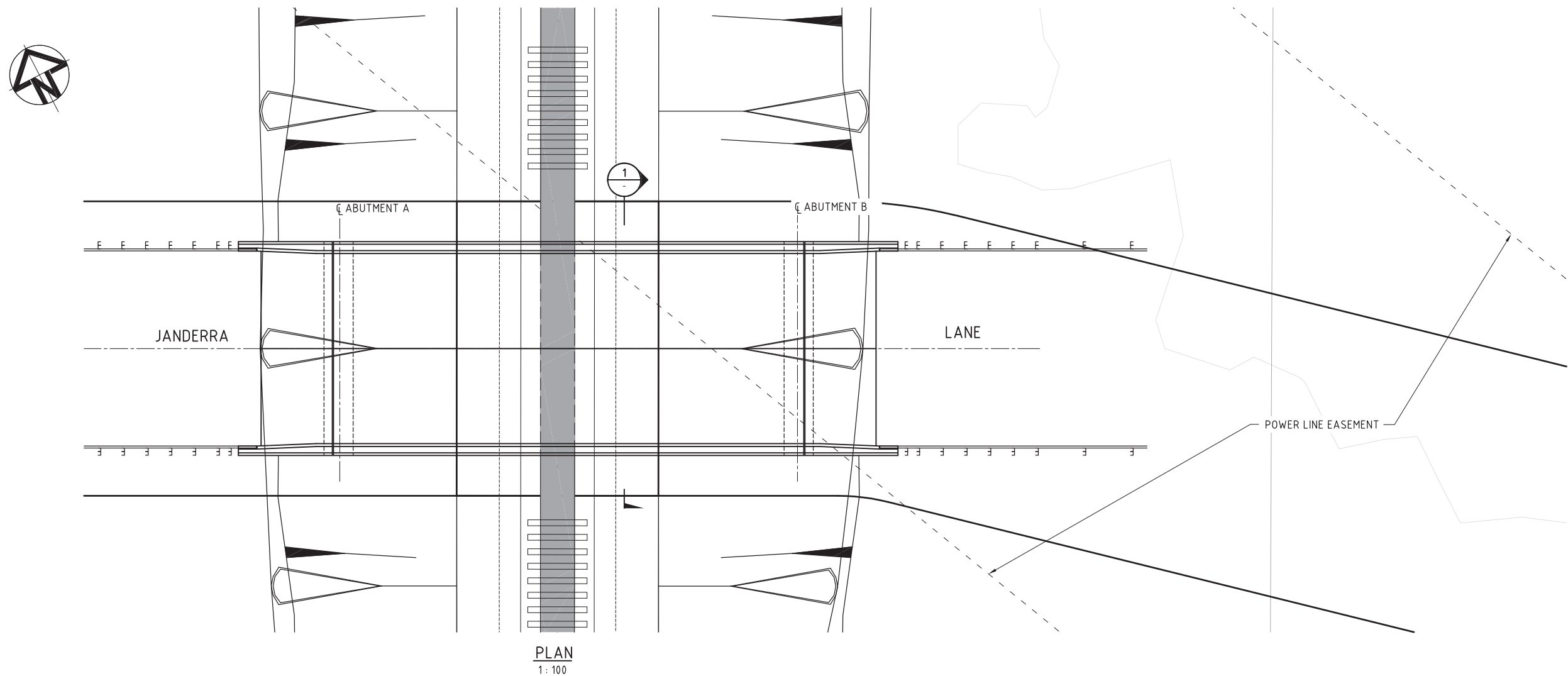
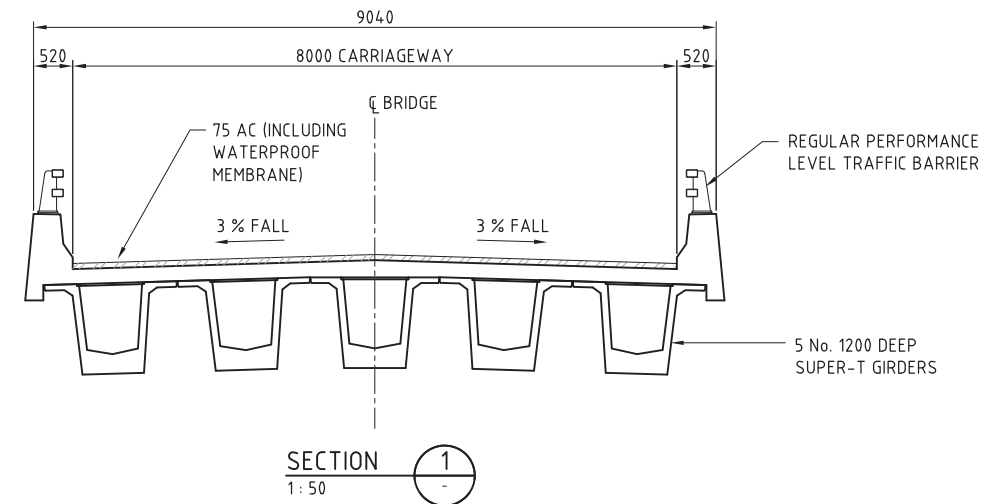
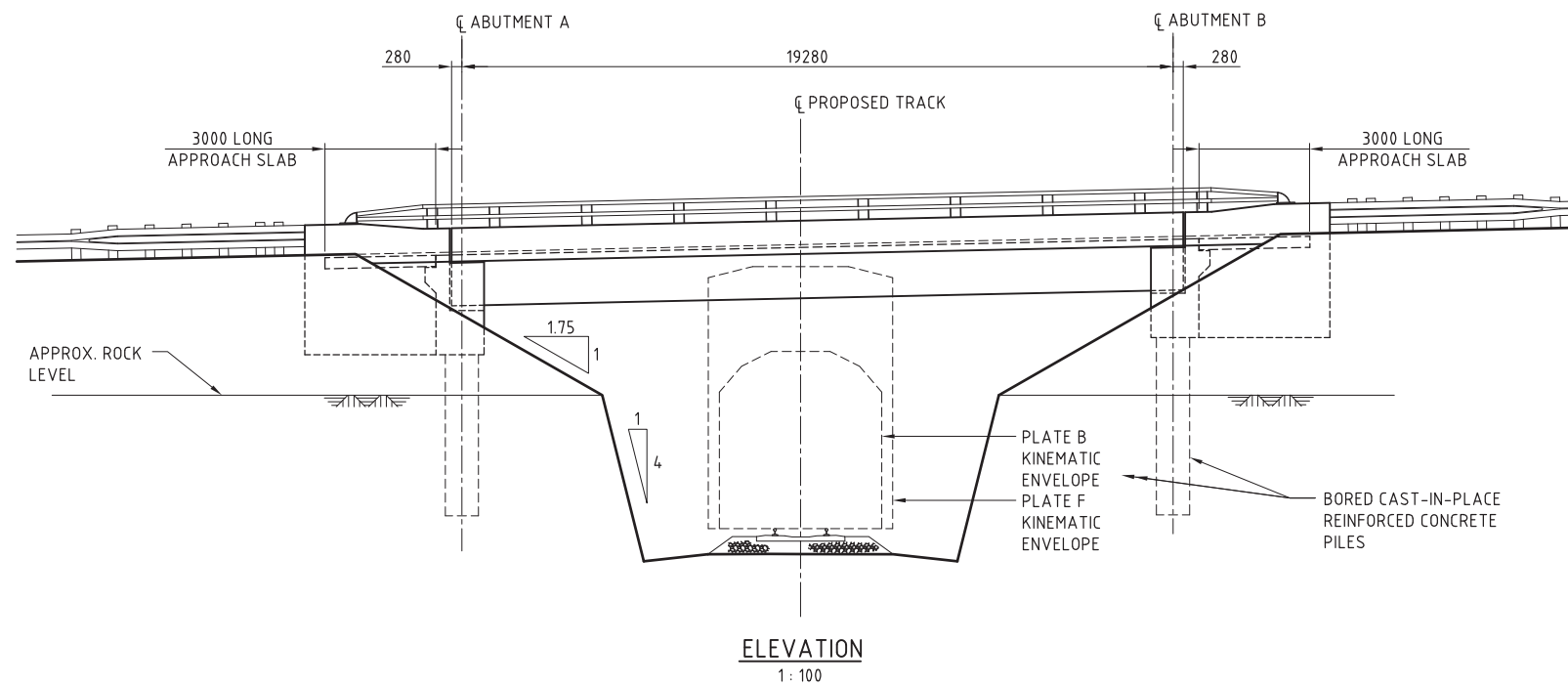
CORDEAUX RIVER UNDERBRIDGE  
OPTION 2

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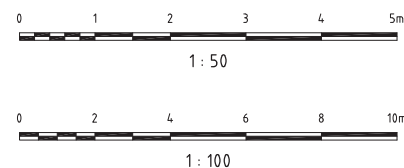
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C101	AA003069	F



F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



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Status <b>CONCEPT</b> NOT TO BE USED FOR CONSTRUCTION			
Scales	1:50 1:100	Current Issue Signatures	
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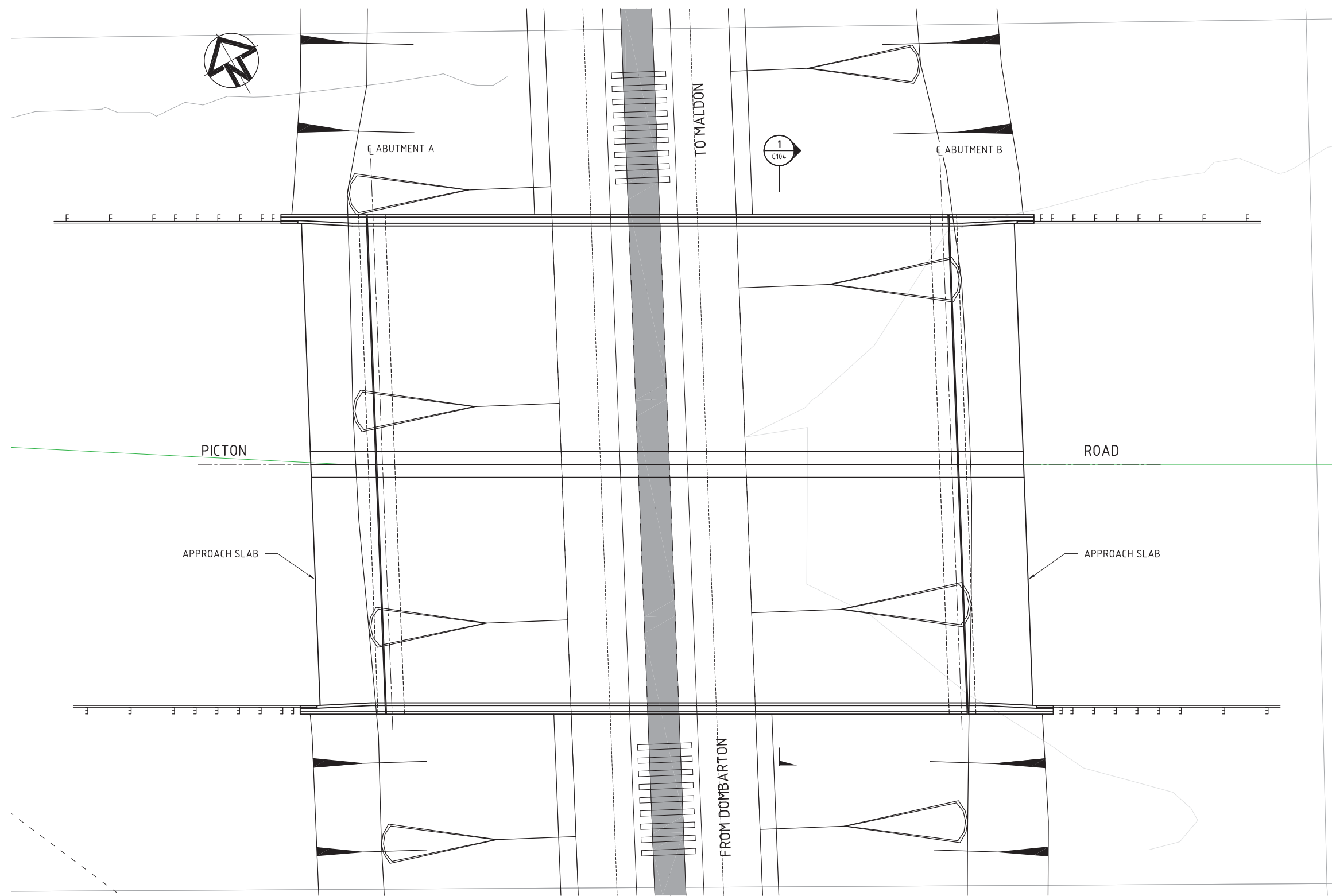
Project  
**MALDON TO DOMBARTON  
RAILWAY LINK  
FEASIBILITY STUDY**

Title  
**JANDERRA LANE  
OVERBRIDGE**

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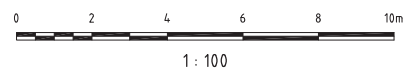
Drawing No.	Project No.	Issue
C102	AA003069	F





PLAN  
1 : 100

F	CONCEPT DESIGN	26.11.10
Issue	Description	Date




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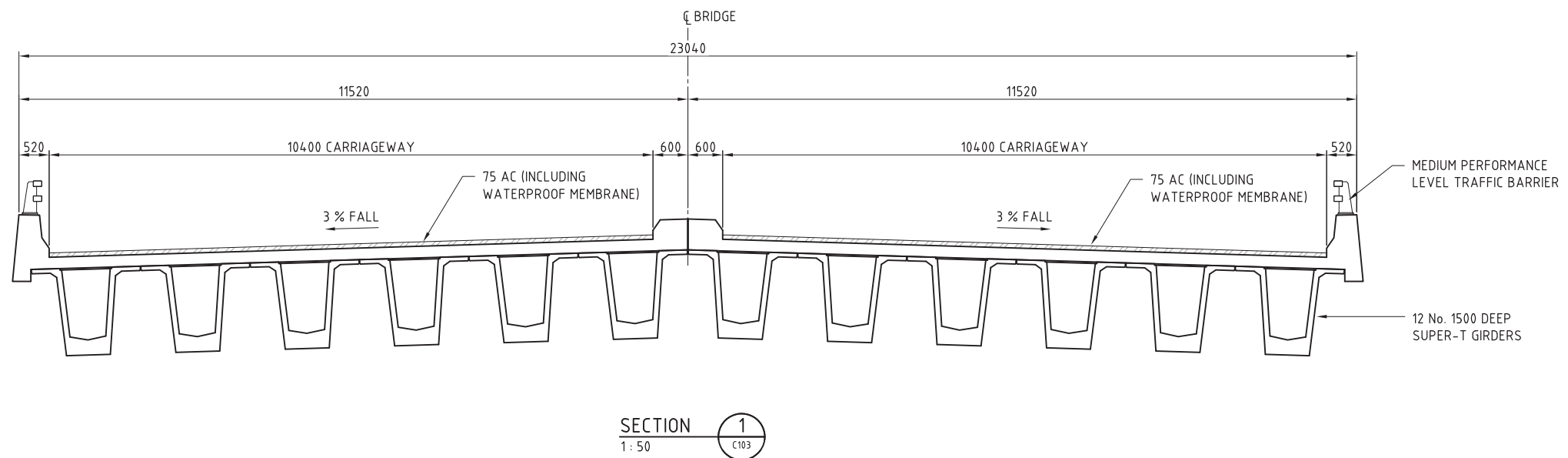
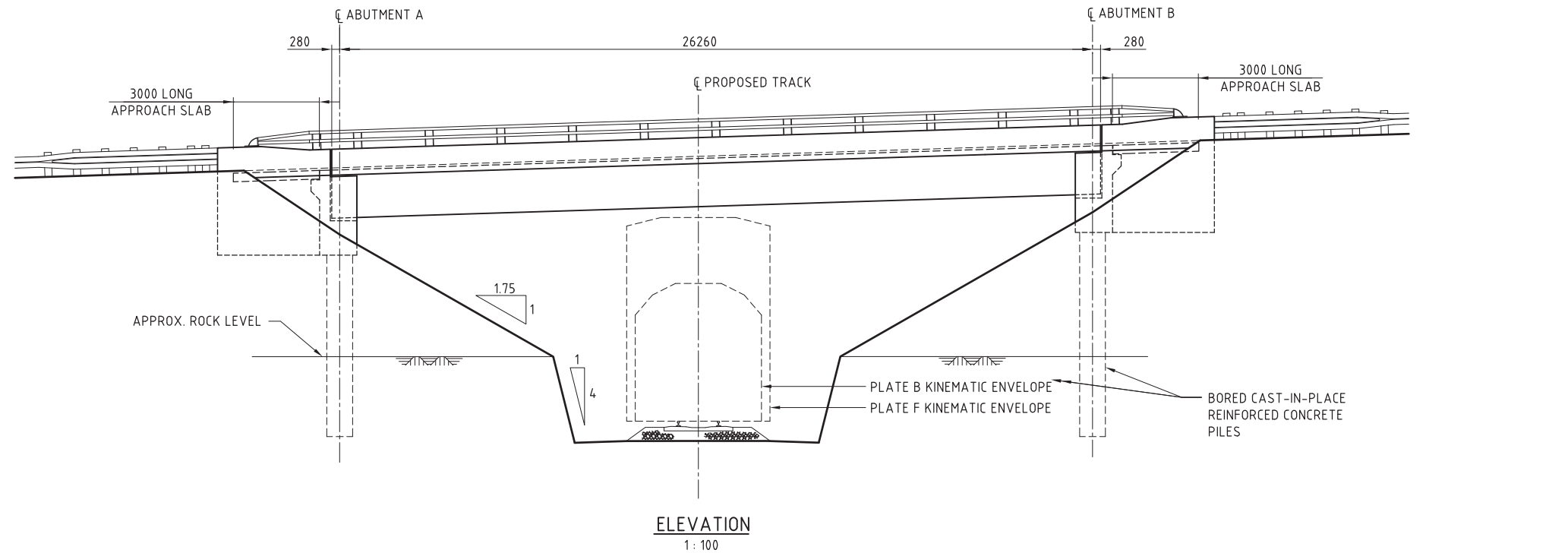
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Title	PICTON ROAD OVERBRIDGE (SHEET 1 OF 2)	

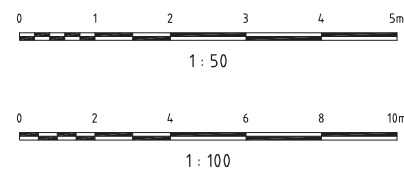


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<b>C103</b>	<b>AA003069</b>	<b>F</b>



F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



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Status	CONCEPT NOT TO BE USED FOR CONSTRUCTION		
Scales	1:50 1:100	Current Issue Signatures	
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Project

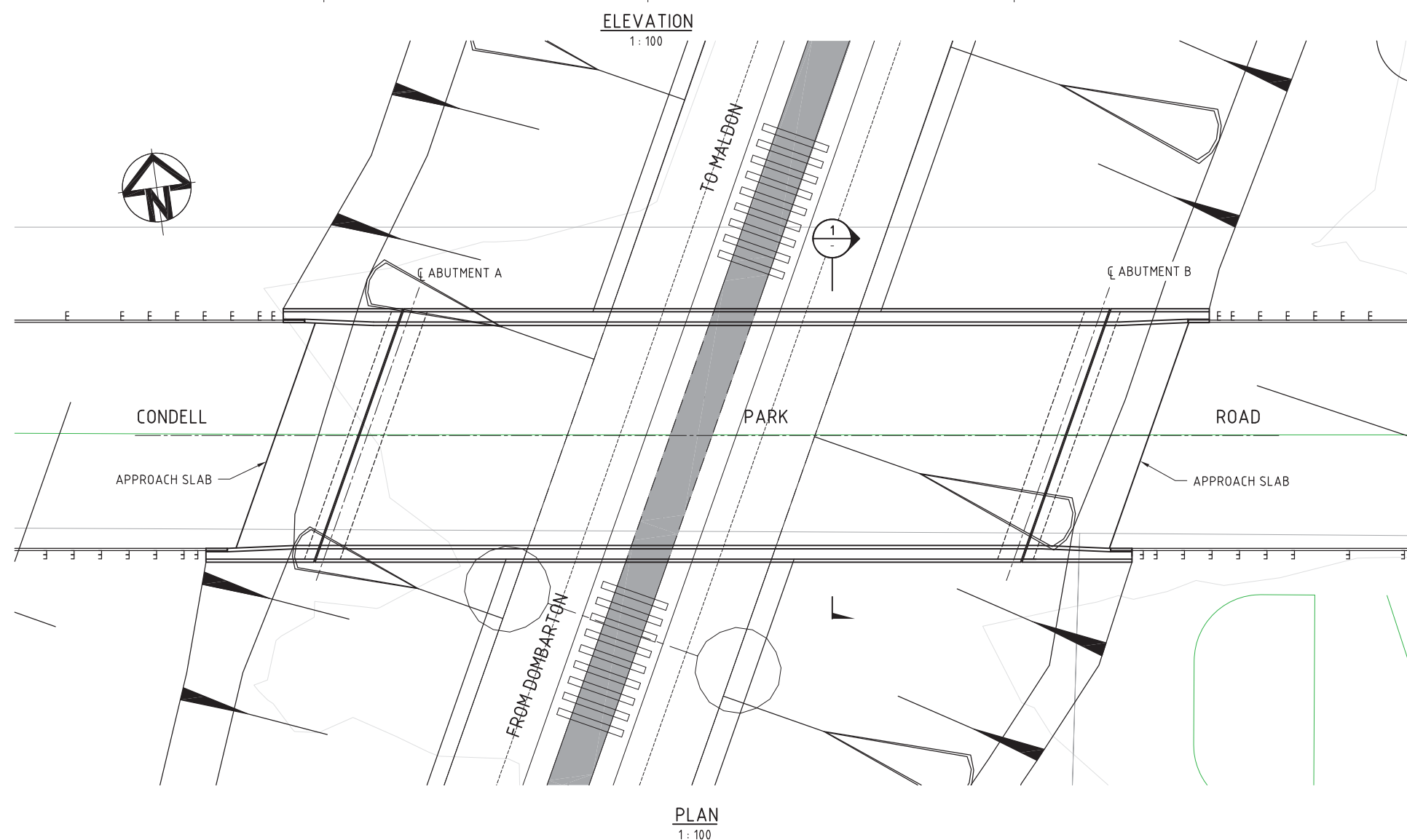
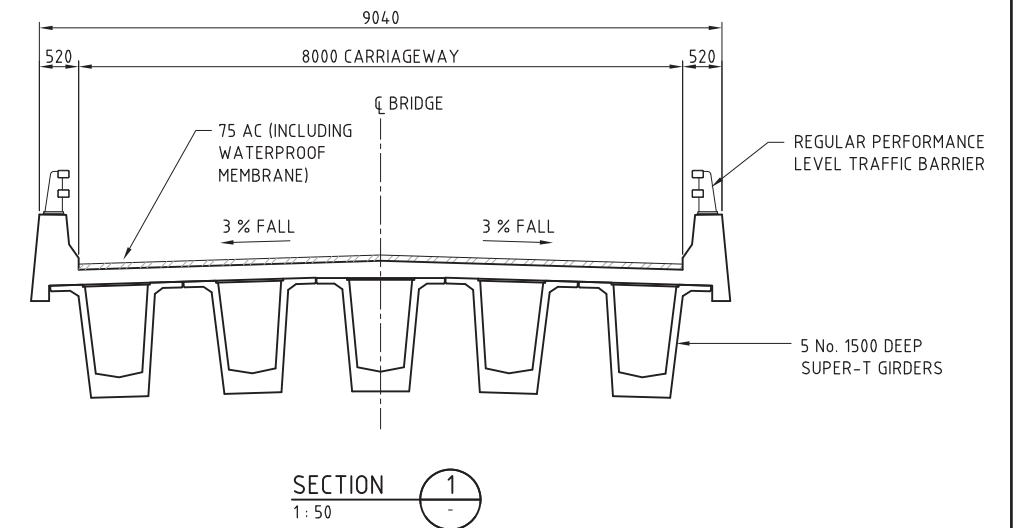
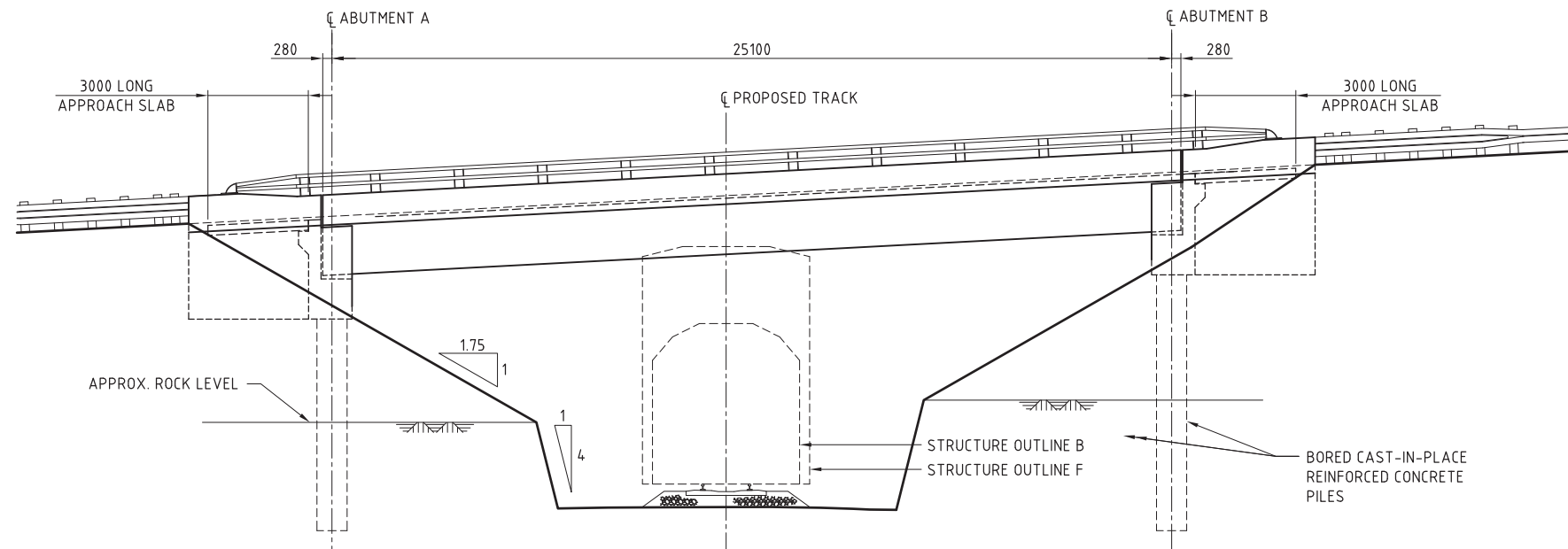
MALDON TO DOMBARTON  
RAILWAY LINK  
FEASIBILITY STUDY

Title

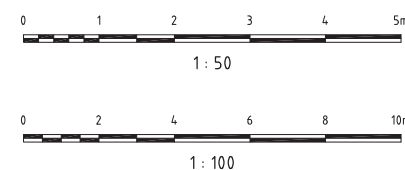
PICTON ROAD OVERBRIDGE  
(SHEET 2 OF 2)

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Drawing No.	Project No.	Issue
C104	AA003069	F



F	CONCEPT DESIGN	26.11.10
Issue	Description	Date

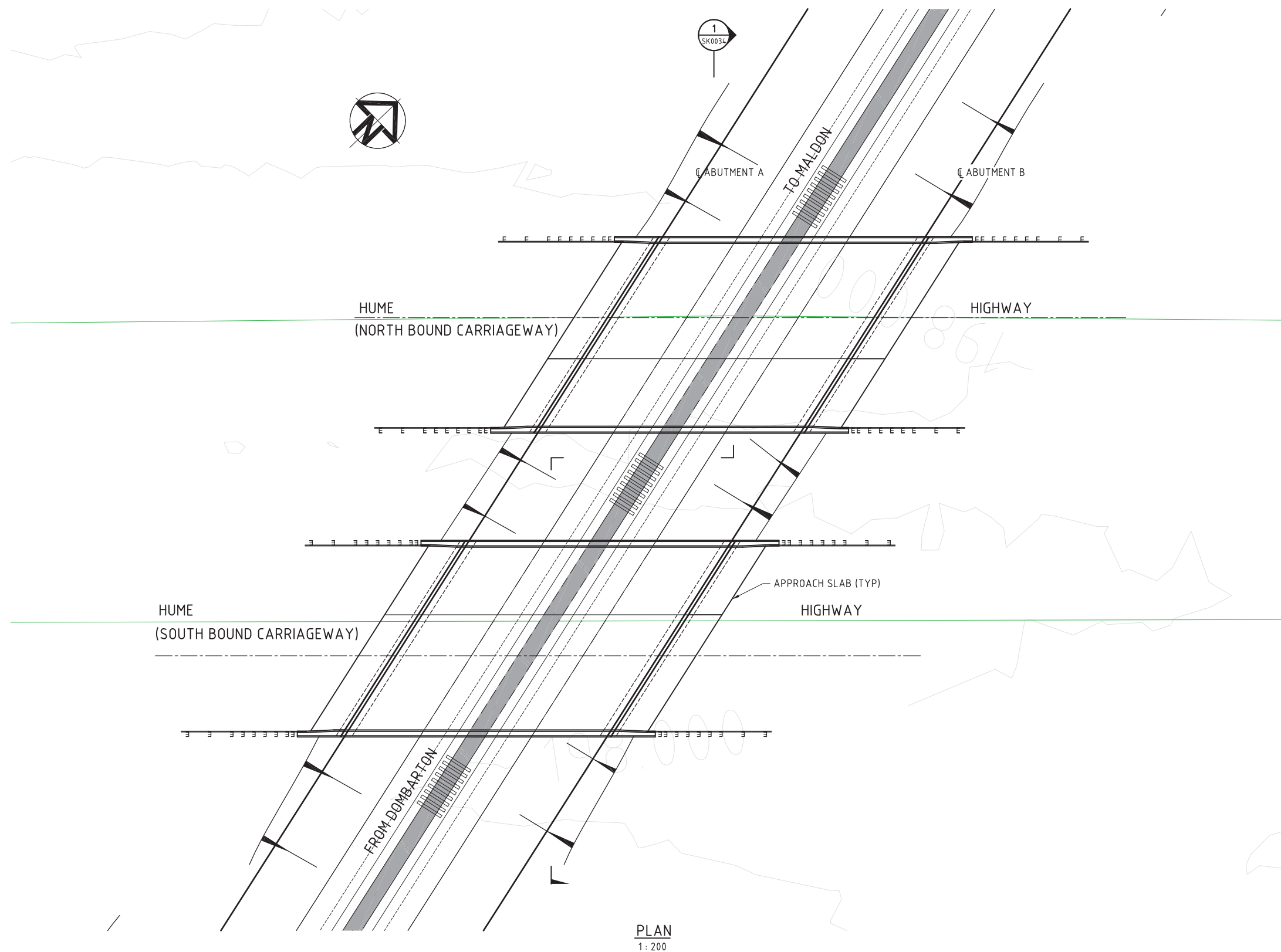


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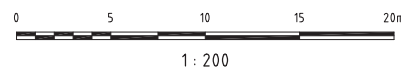
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Title	CONDELL PARK ROAD OVERBRIDGE	



Drawing No.	Project No.	Issue
C105	AA003069	F



F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



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<b>CONCEPT</b> NOT TO BE USED FOR CONSTRUCTION			
Scales	1:200	Current Issue Signatures	
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Height Datum	AHD	Designed K.J.M.	
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Approved			
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Project **MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY**

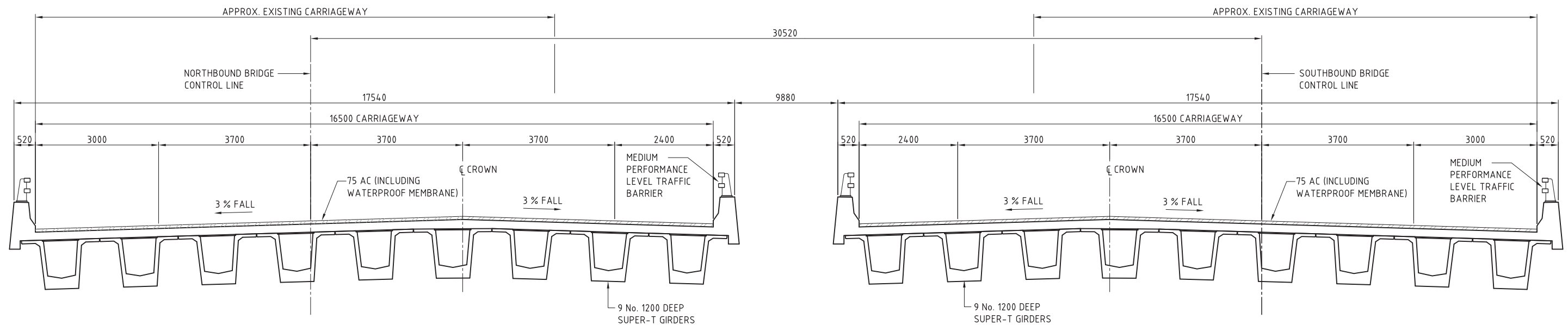
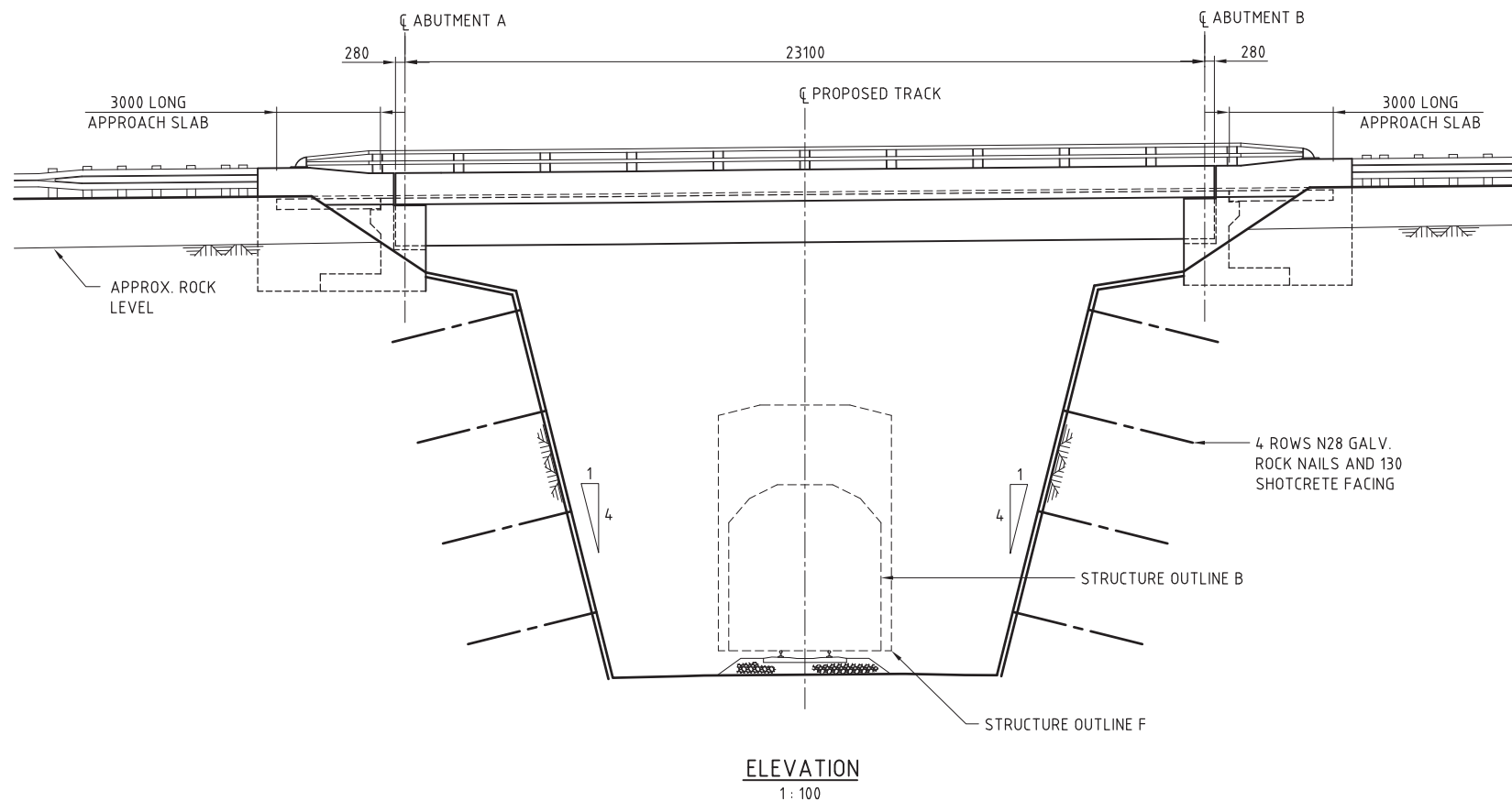
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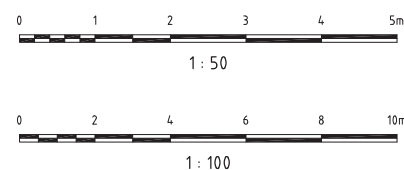
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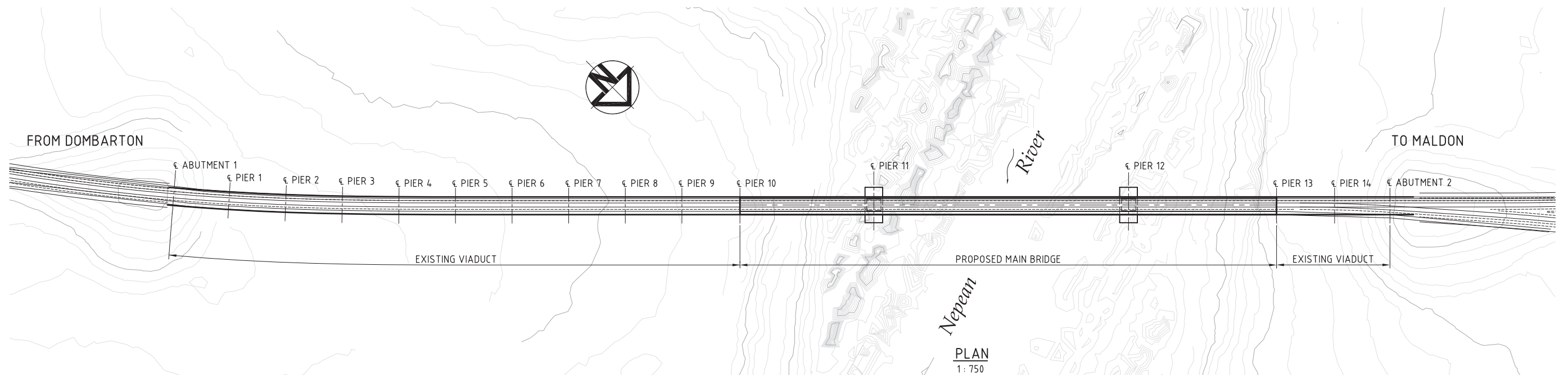
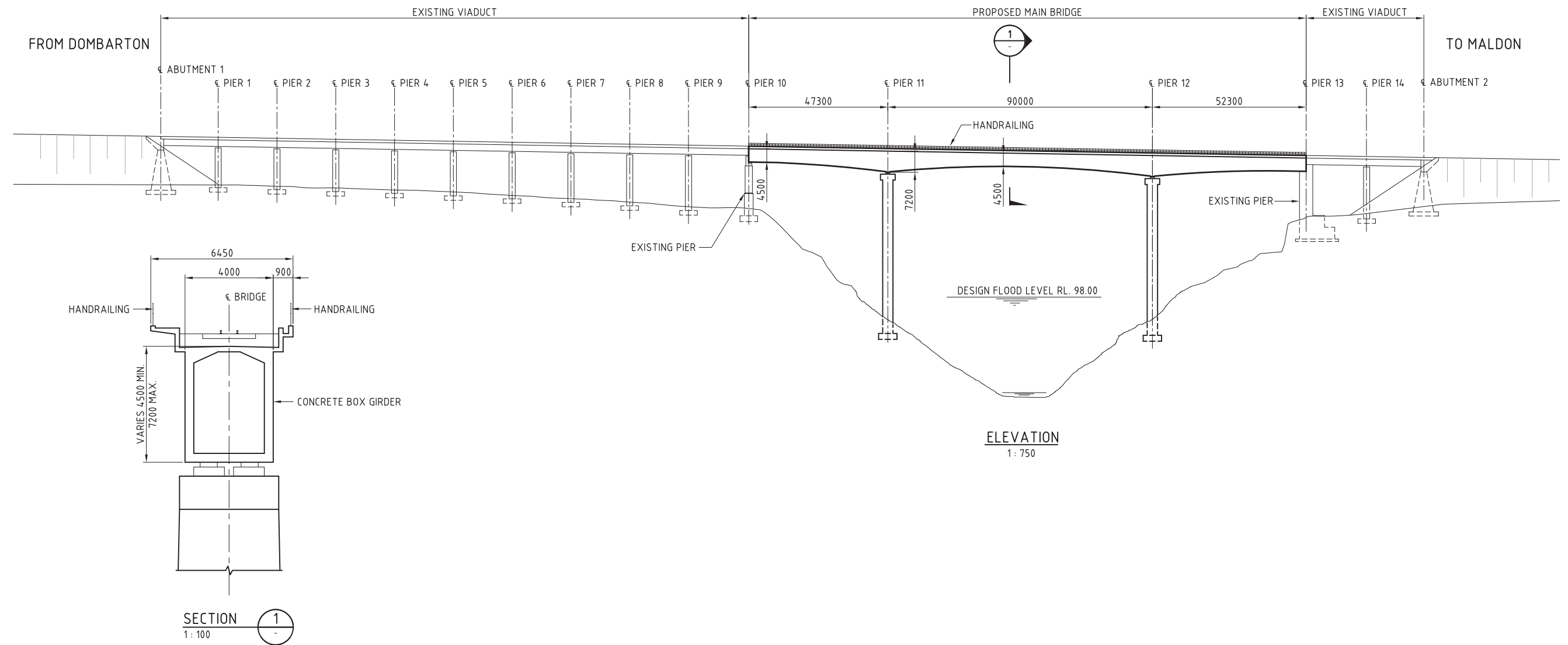
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Issue	Description	Date



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Grid	ISG	Checked
Approved		
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Project	MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY
Title	HUME HIGHWAY OVERBRIDGE (SHEET 2 OF 2)

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C107	AA003069	F



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Issue	Description	Date

Client



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Economics Policy Strategy


Status		<b>CONCEPT</b>	
NOT TO BE USED FOR CONSTRUCTION			
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Height	AHD	Designed	K.J.M.
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Grid		Approved	
Filename:	C108-aa003069-nsd-00.dwg		

Project

**MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY**

Title

**NEPEAN RIVER UNDERBRIDGE**



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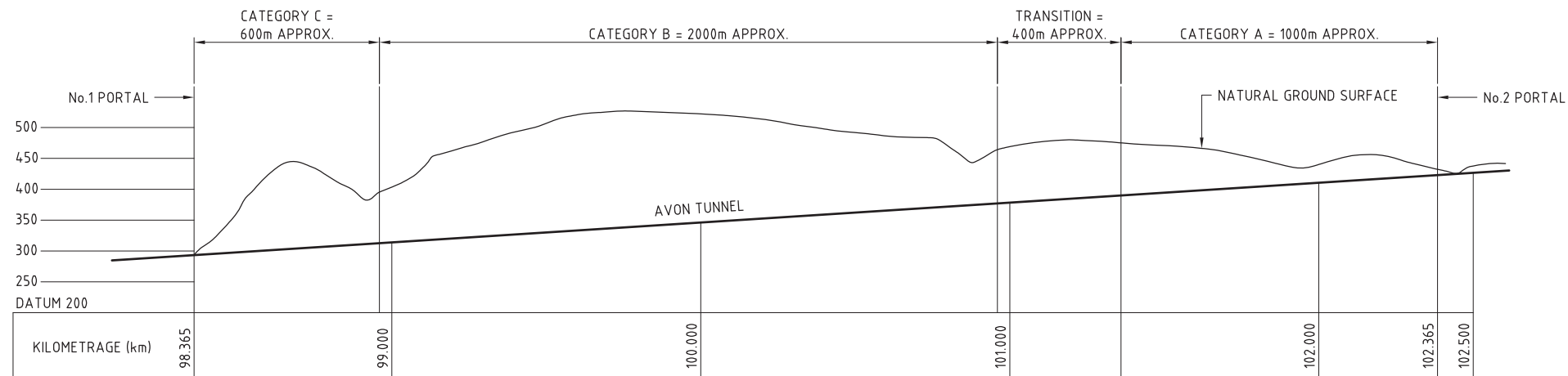
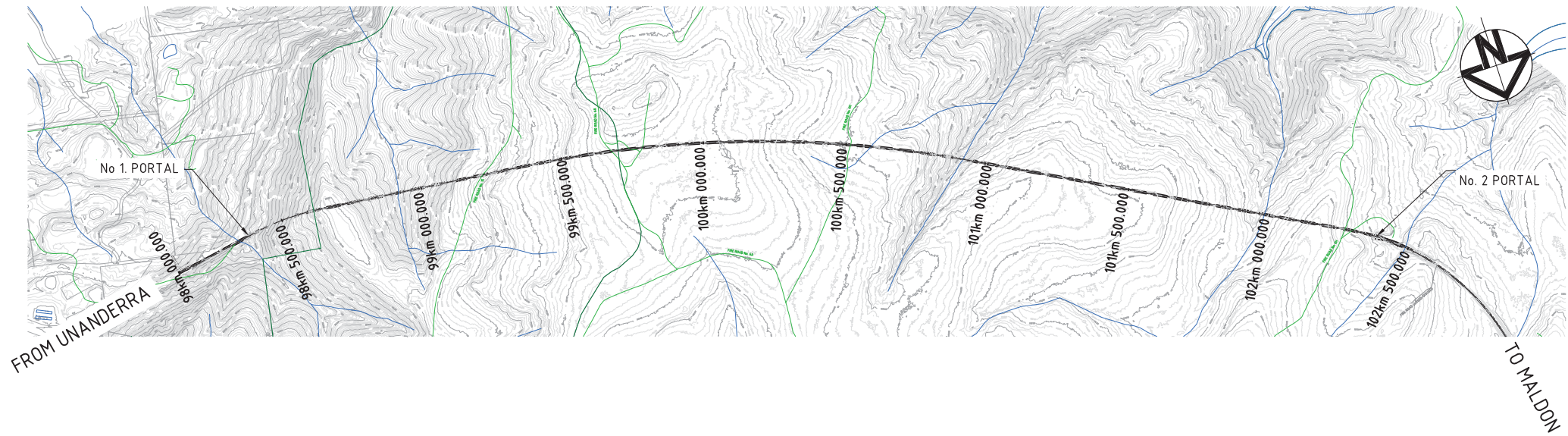
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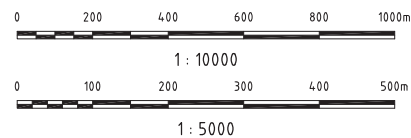
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Drawing No.	Project No.	Issue
C108	AA003069	F



LONGITUDINAL PROFILE  
1 : 10000 H, 1:5000 V

F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



Client



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Economics Policy Strategy

Status <b>CONCEPT</b> NOT TO BE USED FOR CONSTRUCTION			
Scales	1:10000 (H) 1:5000 (V)	Current Issue Signatures	
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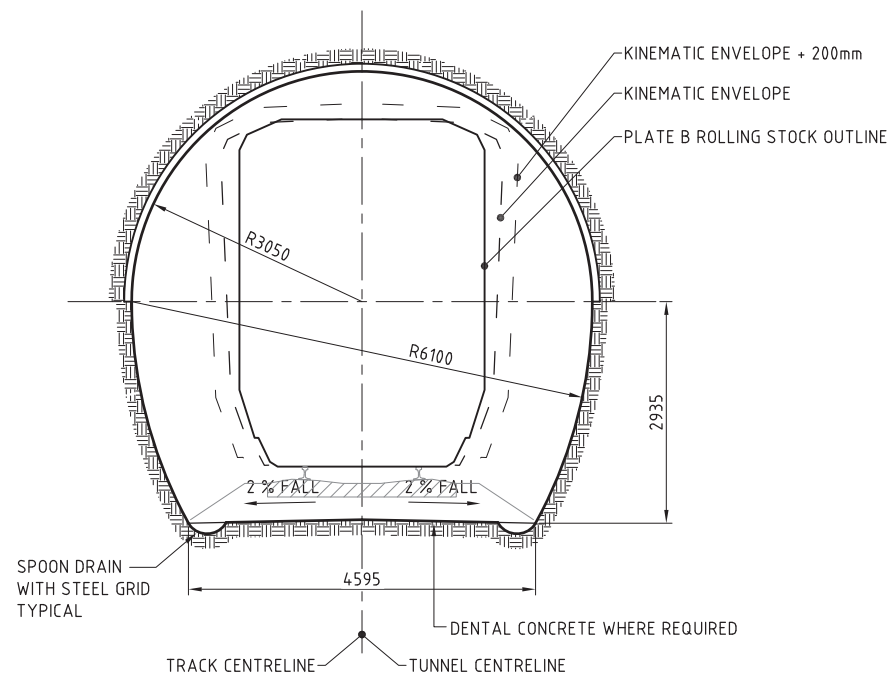
Project  
**MALDON TO DOMBARTON  
RAILWAY LINK  
FEASIBILITY STUDY**

Title  
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LONGITUDINAL PROFILE**

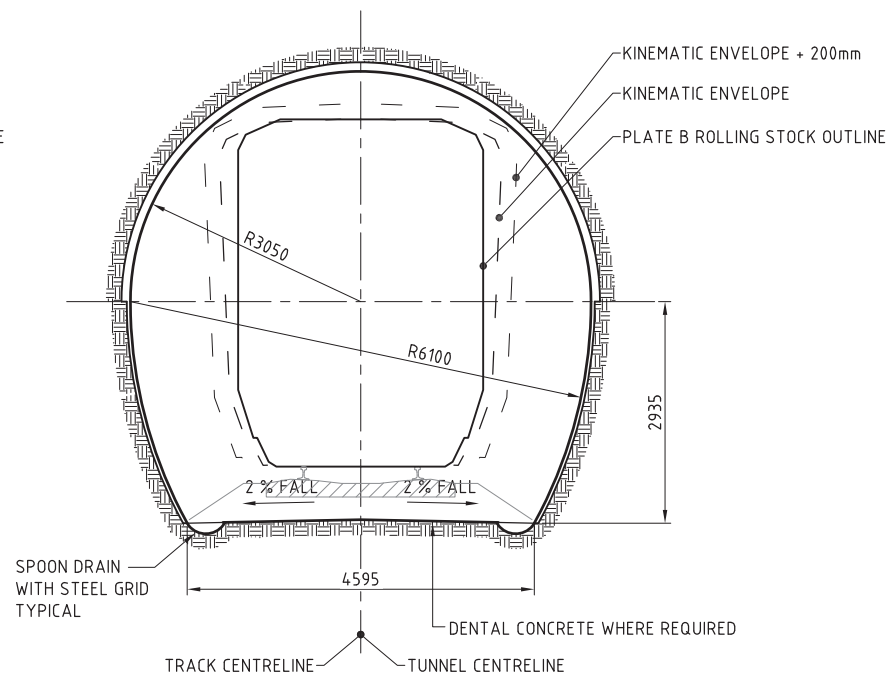


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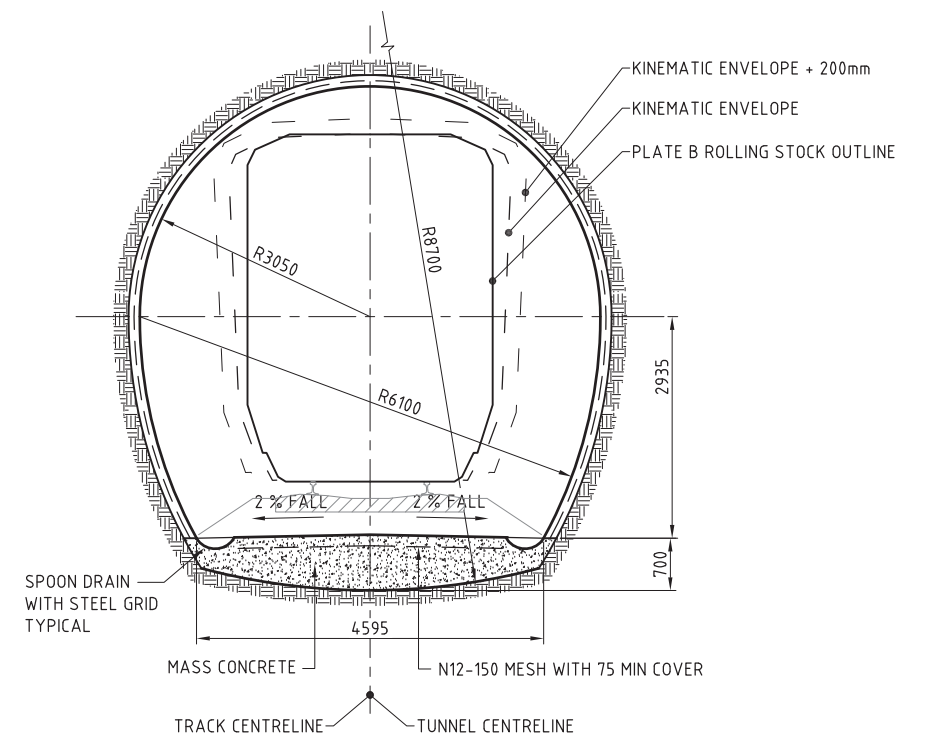
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CATEGORY A

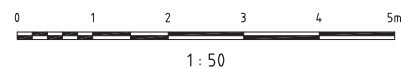


CATEGORY B



CATEGORY C

F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



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Status	<b>CONCEPT</b> NOT TO BE USED FOR CONSTRUCTION		
Scales	1:50	Current Issue Signatures	
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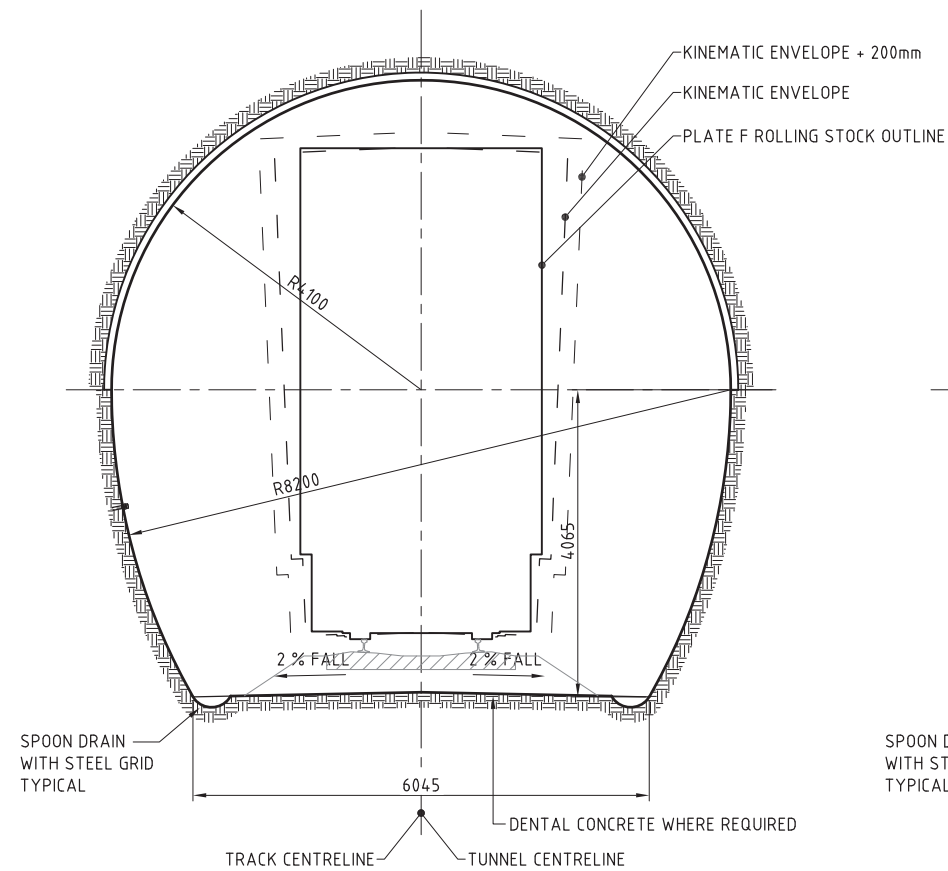
Project	MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY		
Title	TUNNEL SUPPORT TYPICAL DETAILS PLATE B ROLLING STOCK OUTLINE		

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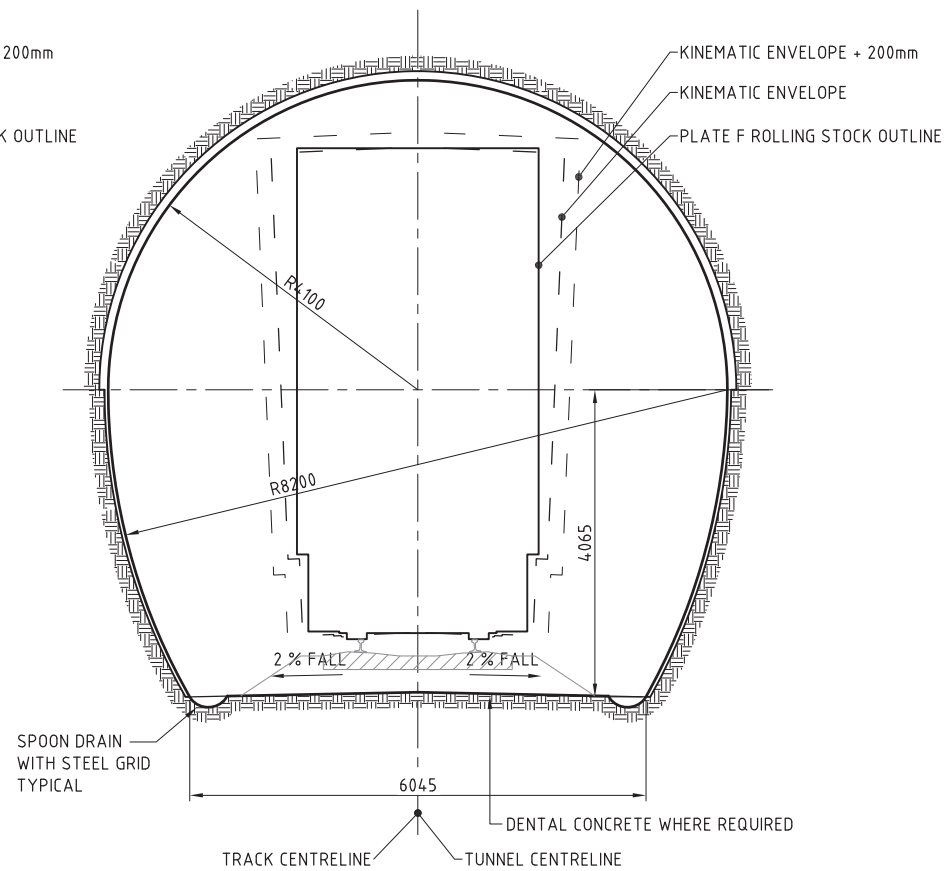
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Drawing No.	Project No.	Issue
C201	AA003069	F

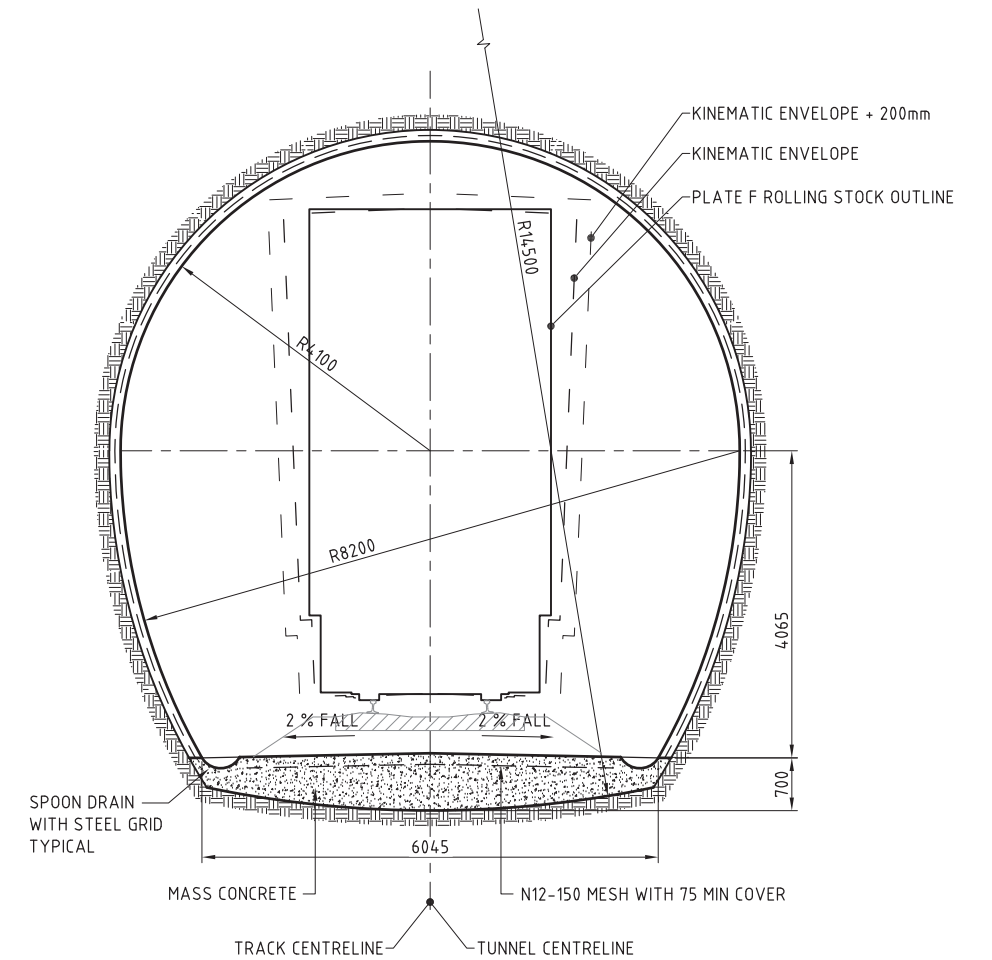




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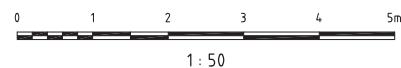


**CATEGORY B**



**CATEGORY C**

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Issue	Description	Date

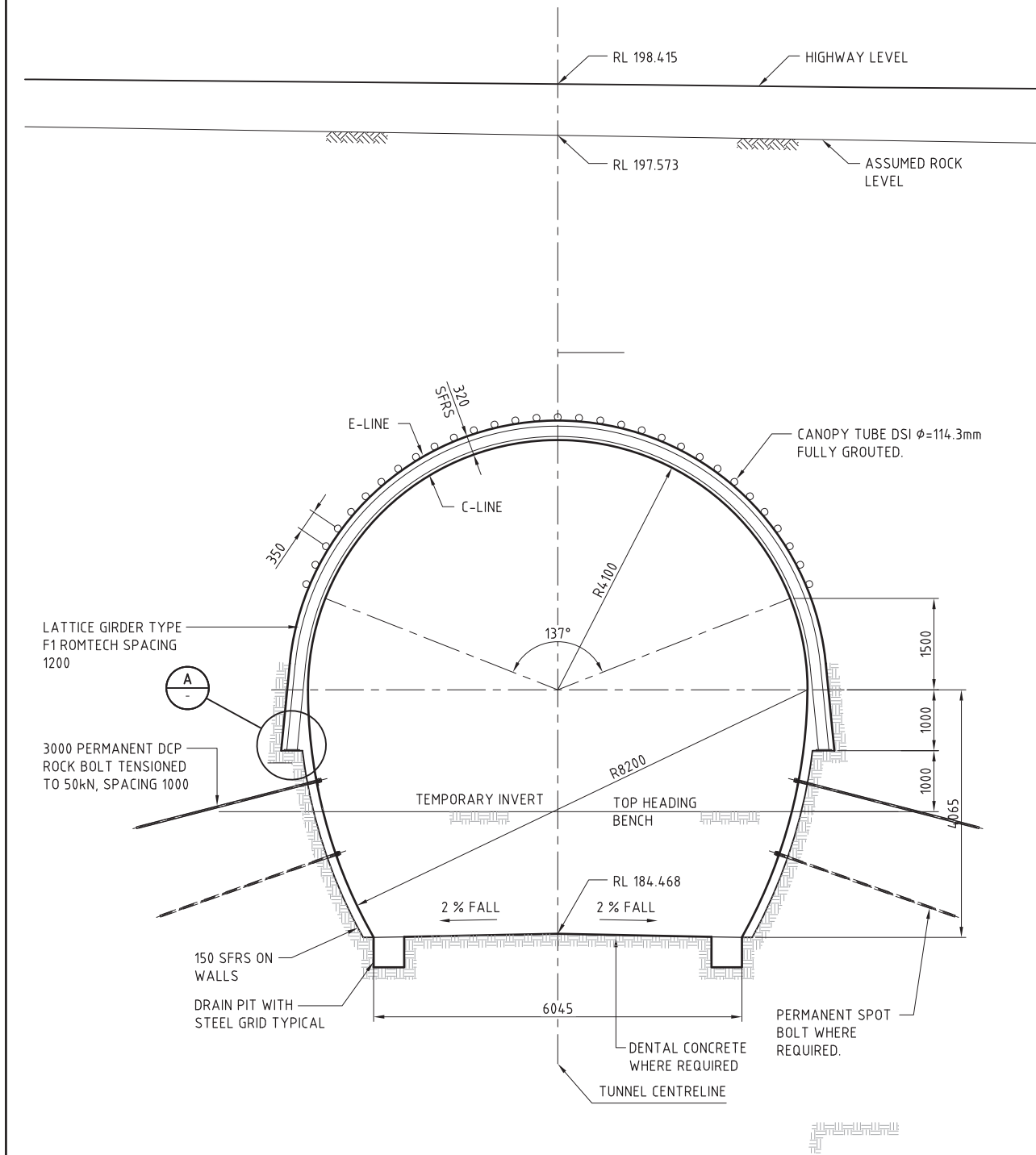


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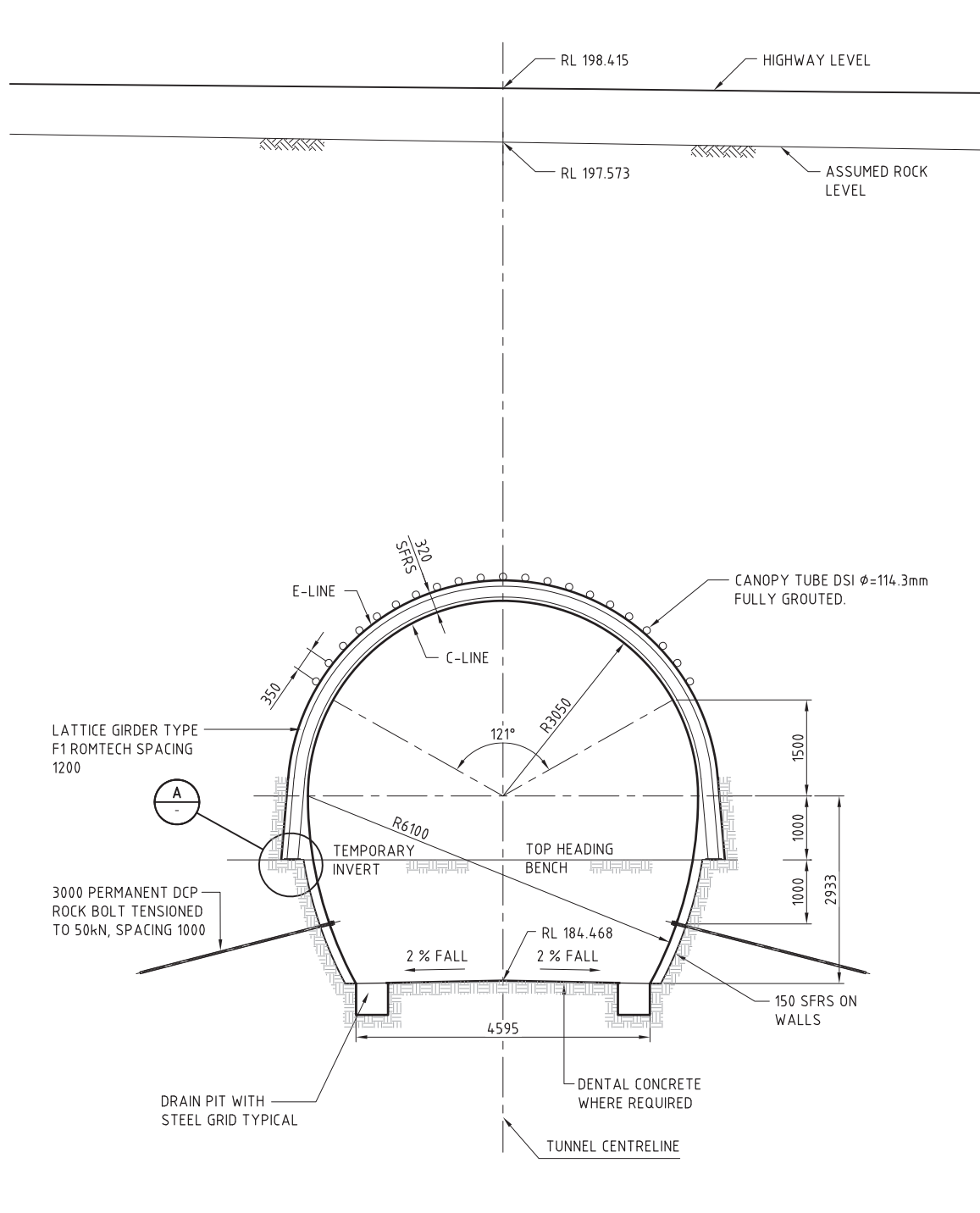
Project	MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY	
Title	TUNNEL SUPPORT TYPICAL DETAILS PLATE F ROLLING STOCK OUTLINE	

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Drawing No.	Project No.	Issue
C202	AA003069	F

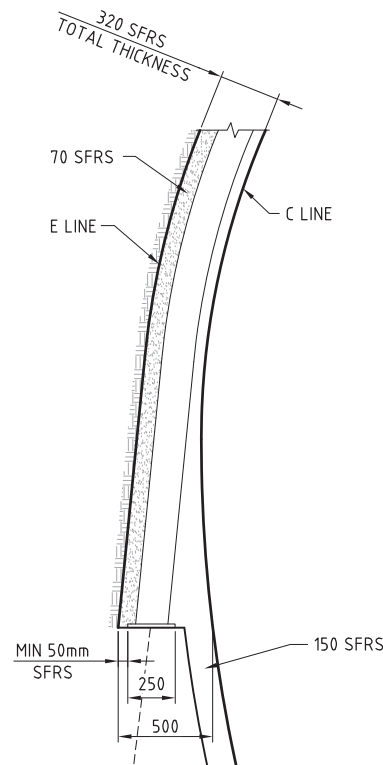




TYPE F ROLLING STOCK  
SCALE 1 : 50



TYPE B ROLLING STOCK  
SCALE 1 : 50

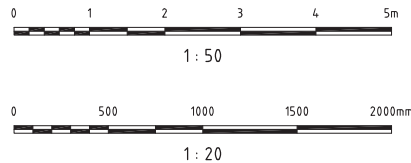


DETAIL A  
SCALE 1 : 20  
ELEPHANT FOOT DETAILS

## GENERAL NOTES

1. THE ROCK CONDITION HAS BEEN ASSUMED TO BE FEASIBLE FOR THE PROPOSED TUNNELING METHOD
2. SFRS DENOTES STEEL FIBRE REINFORCED SHOTCRETE.
3. FOR CONSTRUCTION DELAY MORE THEN 24hr FIBREGLASS DOWELS FD300 φ=28 1000×1000 ARE TO BE INSTALLED FOR THE TUNNEL FACE.
4. LATTICE GIRDER IS TO BE COVERED BY MIN 50m SFRS AT C-LINE.
5. PERSONNEL ARE NOT PERMITTED TO WORK UNDER UNSUPPORTED ROOF FOR ANY CONSTRUCTION ACTIVITY.
6. STEEL FIBRES: DRAMIX RC 65/35 BN DOSAGE 40kg/m<sup>3</sup>.
7. EXCAVATION LINE IS TO ALLOW FOR CONSTRUCTION TOLERANCES AND CONVERGENCY OF THE TUNNEL SECTION.
8. SUMP FOR WATER COLLECTION AND TREATMENT PRIOR TO DISPOSAL DURING CONSTRUCTION MAY BE REQUIRED. THIS WILL BE ADVISED ON SITE BY ENVIRONMENTAL ENGINEER.
9. CONSIDERATION FOR SUBGRADE PUMPING WILL BE REQUIRED BY THE DESIGNER WHERE PRESENCE OF WEAK SHALE BAND OR SIMILAR IN THE TUNNEL INVERT HAS BEEN NOTED IN THE GEOLOGICAL MAPPING.
10. WEEPHOLES AND STRIP DRAINS WILL BE INSTALLED AND CONNECTED TO DRAIN PIT WHERE REQUIRED.

F	CONCEPT DESIGN	26.11.10
Issue	Description	Date



Status	<b>CONCEPT</b> NOT TO BE USED FOR CONSTRUCTION	
Scales	1:50	Current Issue Signatures
	1:20	Drawn A.P.H.
Original Size	A1	Designed K.J.M.
Height Datum	AHD	Checked
Grid	ISG	Approved
Filename:	C204-aa003069-nsd-00.dwg	

Project	MALDON TO DOMBARTON RAILWAY LINK FEASIBILITY STUDY	
Title	PROPOSED HUME HIGHWAY UNDERPASS TUNNEL OPTIONS FOR PLATE B & F ROLLING STOCK	

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Drawing No.	Project No.	Issue
C204	AA003069	F