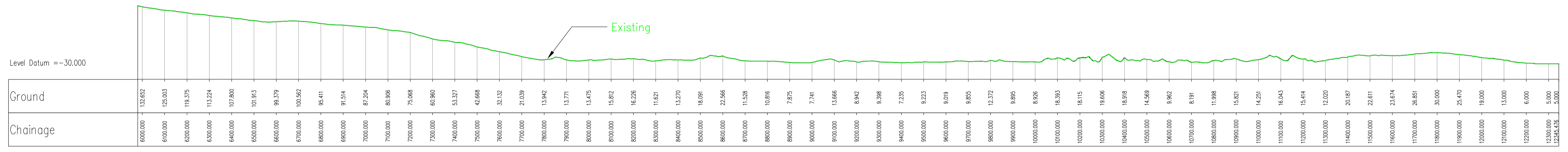


KEY PLAN

- KEY**
- Existing Railway
 - Existing "A" Roads
 - Existing Local Roads
 - Proposed Road Profile

PLAN
(SCALE 1:10,000)



PROFILE
(SCALE 1:10,000 H, 1:5000V)

FINAL ISSUE

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Revision Details	By	Check	Date	Suffix

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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX

Purpose of issue: **FINAL ISSUE**

Client: **The Highland Council**
Comhairle na Gàidhealtachd

Project Title: **STROME FERRY APPRAISAL STAGE 2**

Drawing Title: **OPTION - (04) DO NOTHING PLAN AND PROFILE SHEET 2 OF 2**

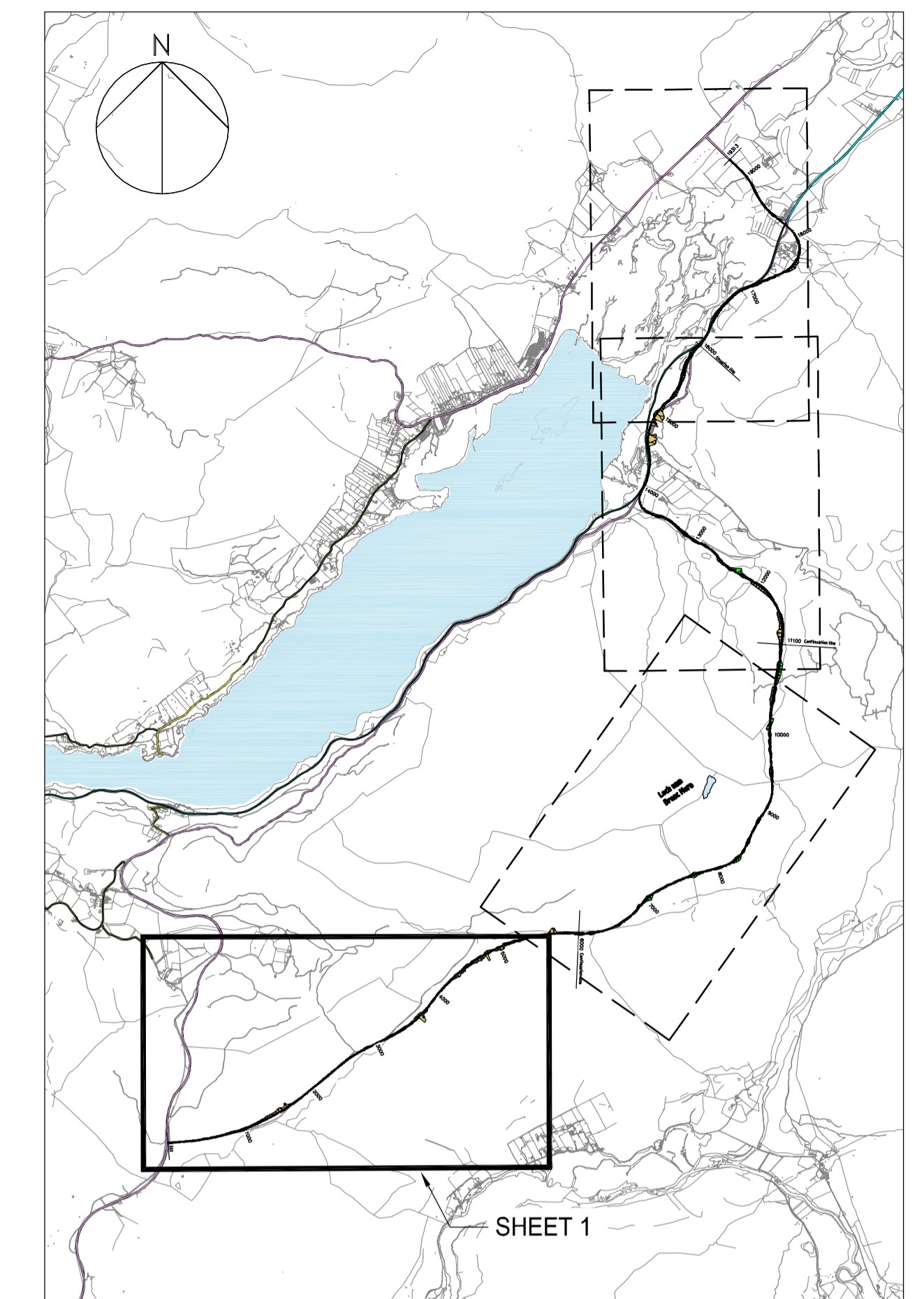
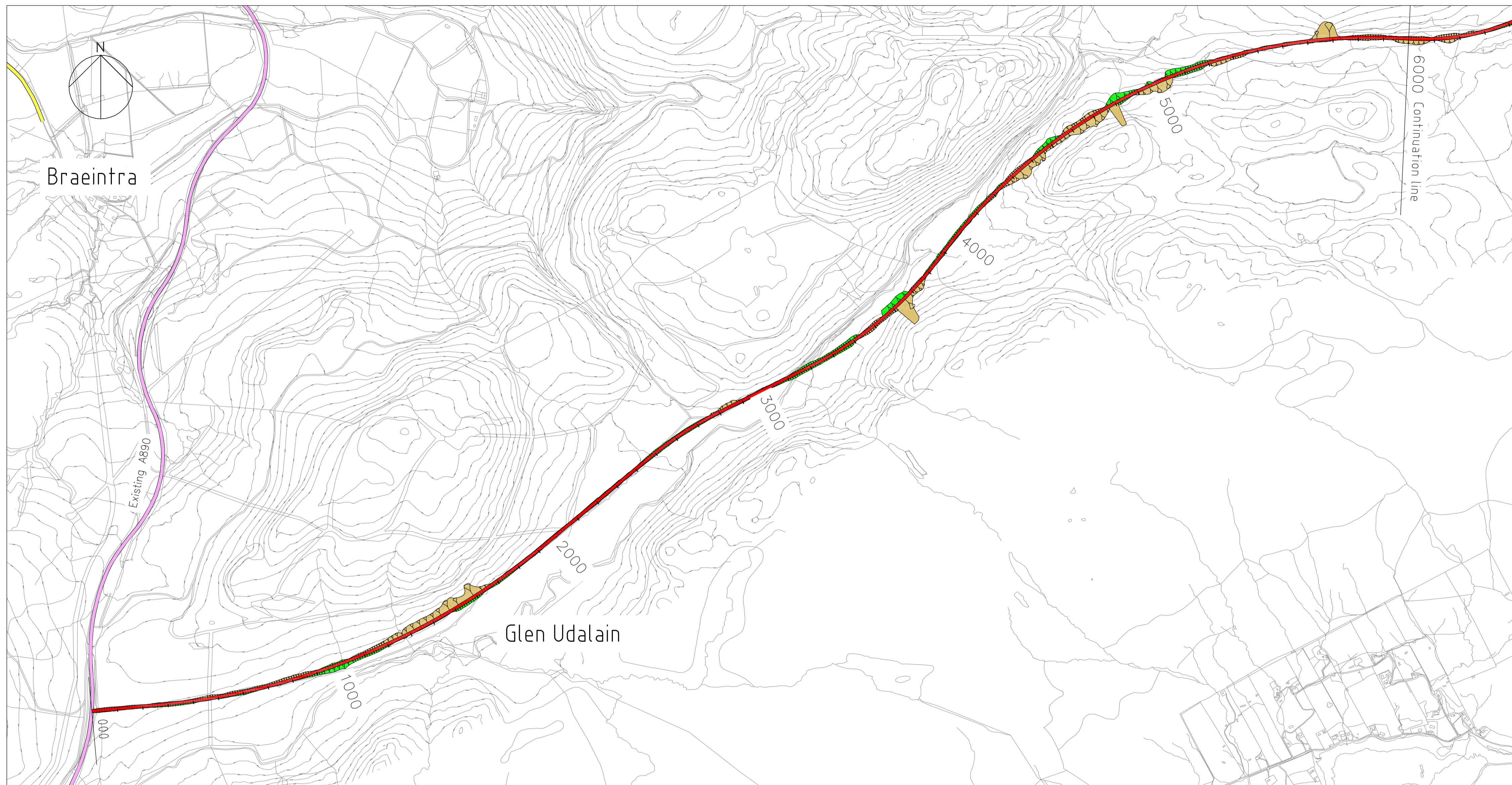
Drawn	Checked	Approved	Date
JH	JH	DT	MARCH 2013
URS Internal Project No. 47065084			
Scale @ A1 1:10,000H, 1:5,000V			
Zone / Mileage			

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Drawing Number: **47065084 - 2-5072**

Rev: **0**



- KEY**
- Existing Railway
 - Existing "A" Roads
 - Existing Local Roads
 - Proposed Road Profile
 - Earthworks Cut
 - Earthworks Fill

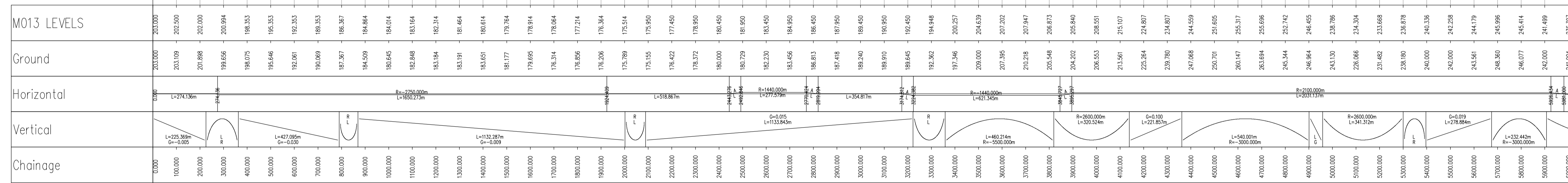
KEY PLAN

PLAN

SCALE 1:10,000

Proposed
Existing

Level Datum = -44.000



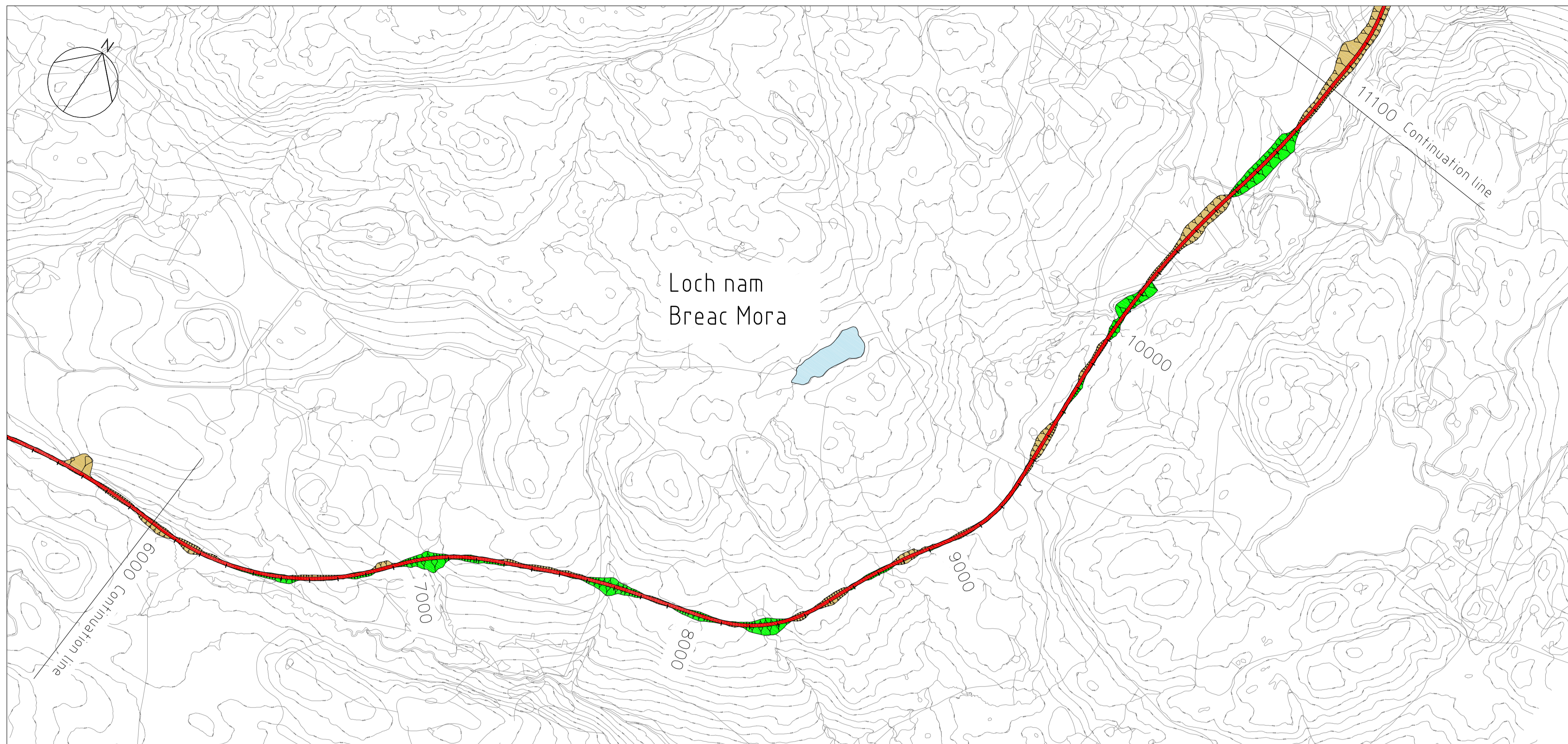
PROFILE

SCALE 1:10,000H, 1:5000V

FINAL ISSUE

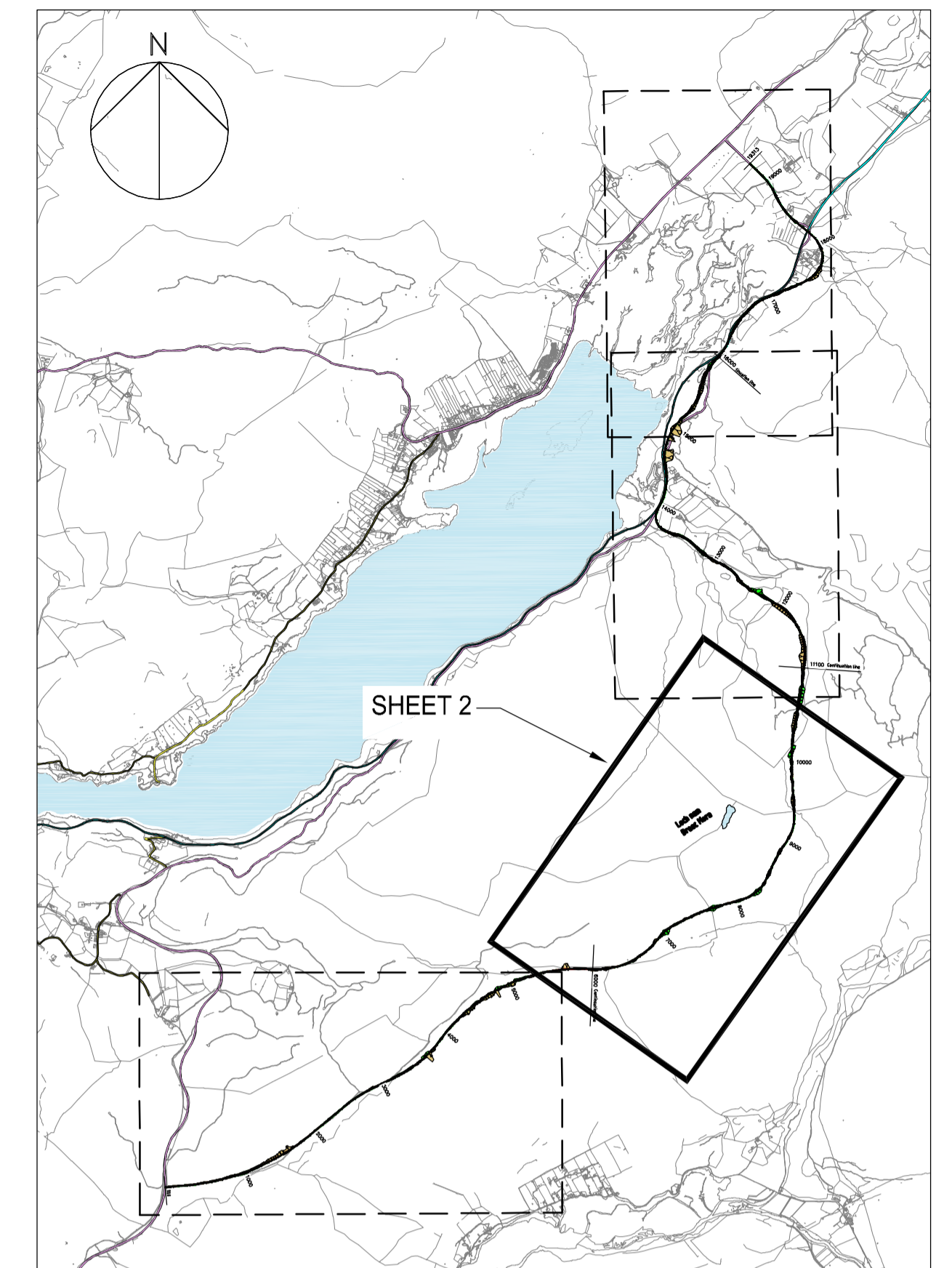
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Revision Details	By	Check	Date	Suffi	<p>Notes</p>			<p>Scale @ A1 1:10,000H, 1:5000V</p>	<p>Drawing Number 47065084 - 2-5121</p>	<p>Rev 0</p>



PLAN

SCALE 1:10,000

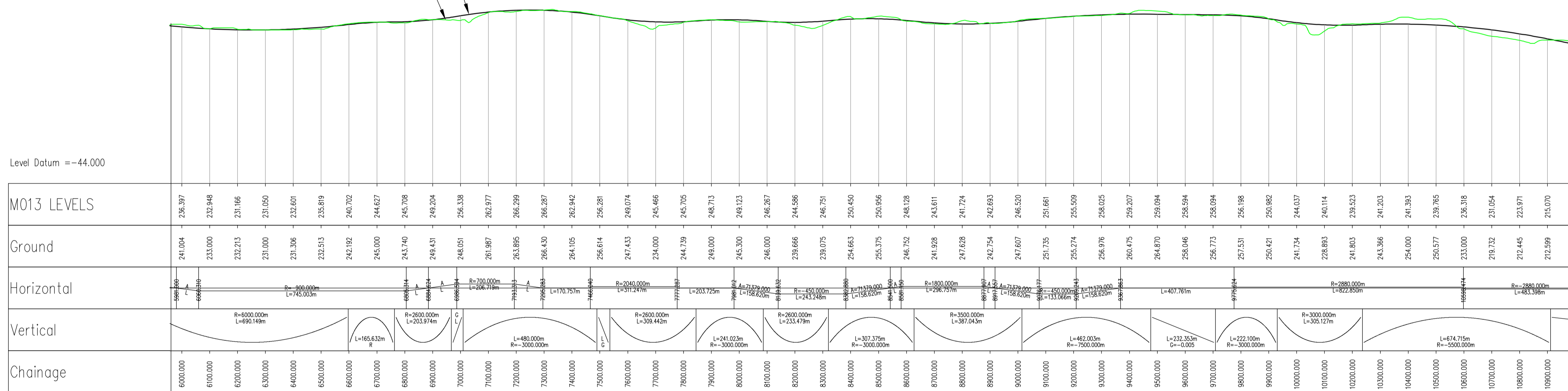


KEY PLAN

KEY

- Existing Railway
- Existing "A" Roads
- Existing Local Roads
- Proposed Road Profile
- Earthworks Cut
- Earthworks Fill

Proposed
Existing



Level Datum = -44.000

M013 LEVELS	236.397	232.948	231.166	231.050	232.601	232.513	232.819	240.702	244.627	245.708	249.204	248.051	256.338	262.977	266.299	266.297	264.105	262.942	256.281	247.433	249.074	245.466	245.705	248.713	249.123	246.267	244.956	246.751	250.450	250.946	246.128	241.928	241.611	241.724	242.693	246.530	251.126	251.961	255.509	258.025	256.976	259.207	260.475	259.094	258.046	258.594	258.094	257.531	256.198	259.421	259.982	244.037	246.114	228.893	239.523	241.803	243.366	241.203	254.000	241.935	250.577	239.765	236.318	231.654	212.445	212.599	215.070	205.080
Ground	241.004	233.000	232.713	231.166	231.050	231.306	232.513	242.182	245.000	243.740	249.431	248.051	251.987	263.995	266.430	264.105	256.814	247.433	254.000	244.139	249.000	245.300	246.000	239.666	239.075	254.663	255.375	246.752	241.928	241.611	247.628	242.754	247.607	251.126	255.274	256.976	260.475	264.870	258.046	256.773	257.531	259.421	241.754	228.893	241.803	243.366	254.000	250.577	233.000	219.732	212.445	212.599	205.184															
Horizontal	[Horizontal curve data including radii and lengths]																																																																			
Vertical	[Vertical curve data including radii and lengths]																																																																			
Chainage	6000.000	6100.000	6200.000	6300.000	6400.000	6500.000	6600.000	6700.000	6800.000	6900.000	7000.000	7100.000	7200.000	7300.000	7400.000	7500.000	7600.000	7700.000	7800.000	7900.000	8000.000	8100.000	8200.000	8300.000	8400.000	8500.000	8600.000	8700.000	8800.000	8900.000	9000.000	9100.000	9200.000	9300.000	9400.000	9500.000	9600.000	9700.000	9800.000	9900.000	10000.000	10100.000	10200.000	10300.000	10400.000	10500.000	10600.000	10700.000	10800.000	10900.000	11000.000																	

PROFILE

SCALE 1:10,000H, 1:5000V

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Revision Details	By	Check	Date	Suffi

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CONSTRUCTION RISKS	MAINTENANCE / CLEANING	DEMOLITION RISKS

Purpose of Issue: **FINAL ISSUE**

Client: **The Highland Council**
Comhairle na Gàidhealtachd

Project Title: **STROME FERRY APPRAISAL STAGE 2**

Drawing Title: **BEST SOUTHERN (S4) OPTION PLAN AND PROFILE SHEET 2 OF 4**

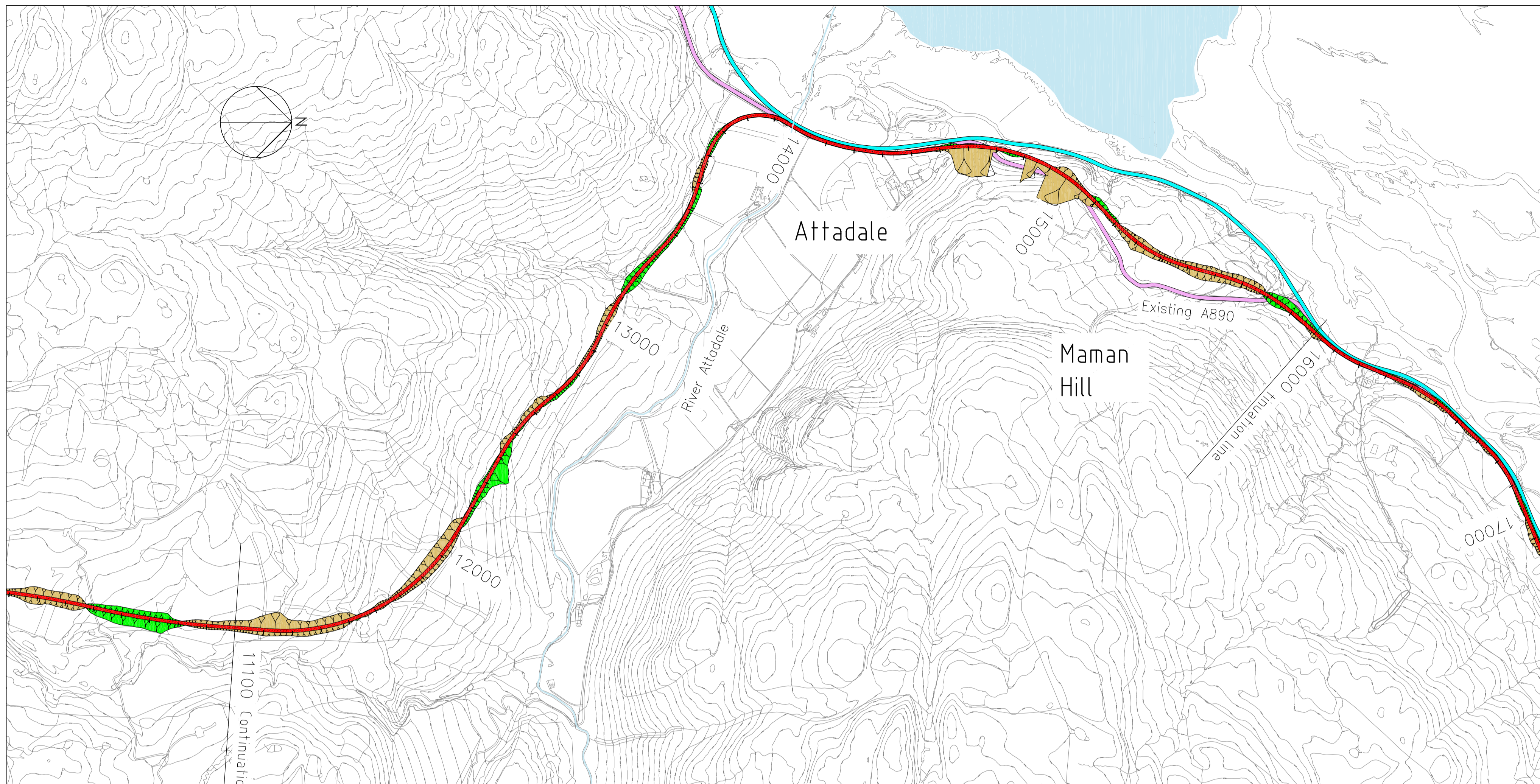
Drawn	Checked	Approved	Date
JL	JL	DT	MARCH 2014
URS Internal Project No. 47065084			
Scale @ A1: 1:10,000H, 1:5000V			

FINAL ISSUE

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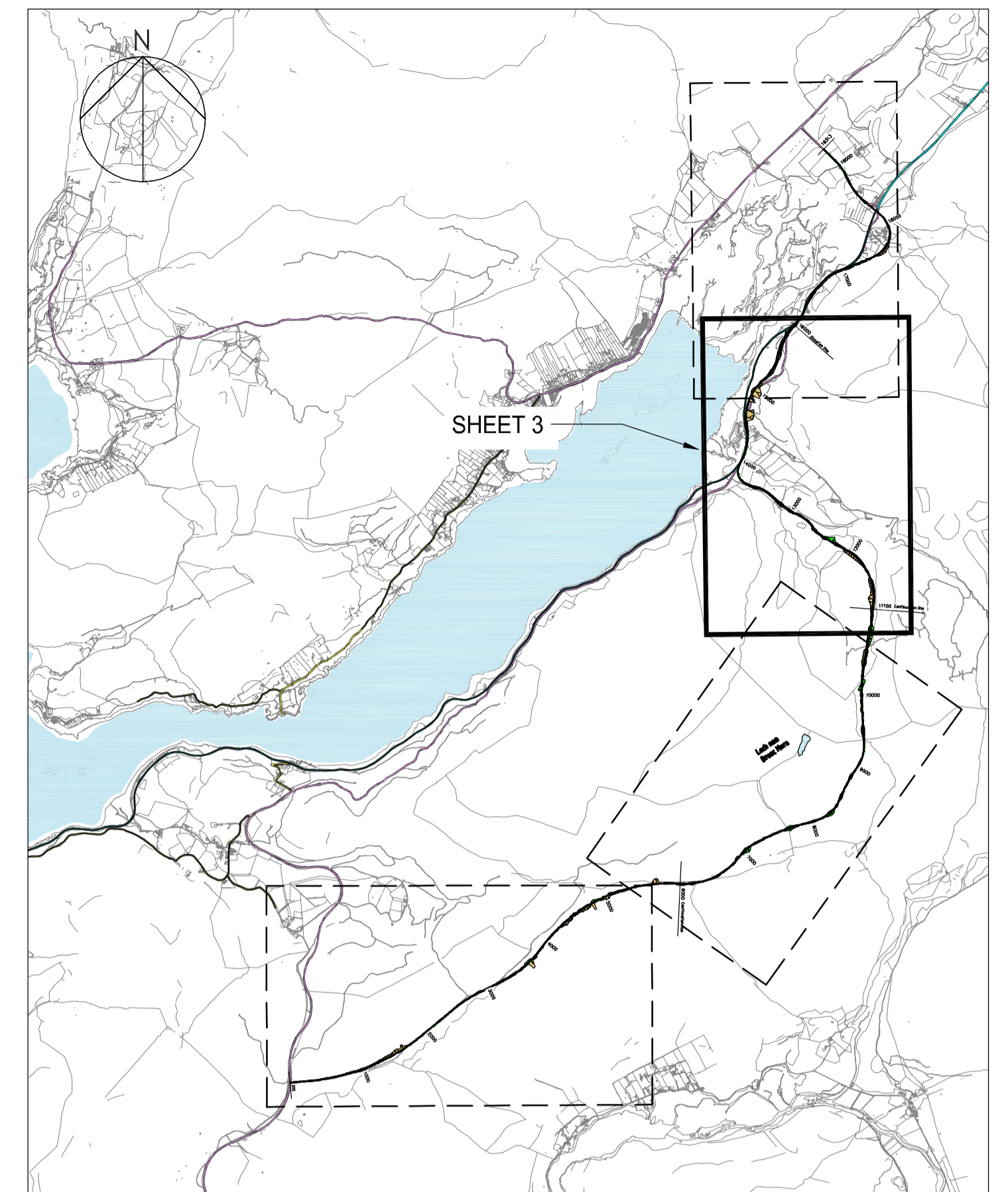
Drawing Number: **47065084 - 2-5122**

Rev: **0**



PLAN

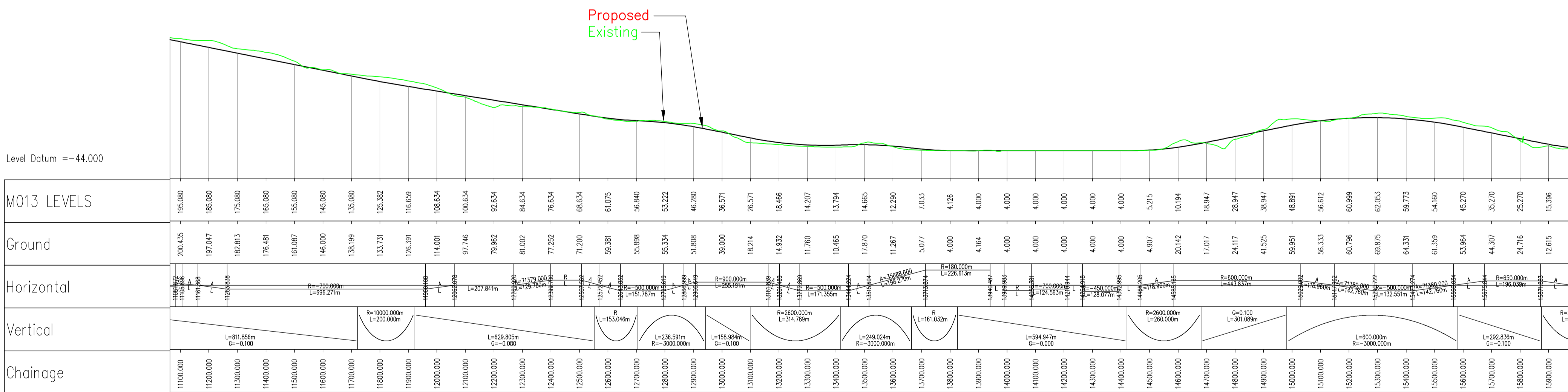
SCALE 1:10,000



KEY PLAN

KEY

- Existing Railway
- Existing "A" Roads
- Existing Local Roads
- Proposed Road Profile
- Earthworks Cut
- Earthworks Fill



PROFILE

SCALE 1:10,000H, 1:5000V

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 MAINTENANCE / CLEANING
 DEMOLITION RISKS
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Purpose of Issue: **FINAL ISSUE**

Client: **The Highland Council / Comhairle na Gàidhealtachd**

Project Title: **STROME FERRY APPRAISAL STAGE 2**

Drawing Title: **BEST SOUTHERN (S4) OPTION PLAN AND PROFILE SHEET 3 OF 4**

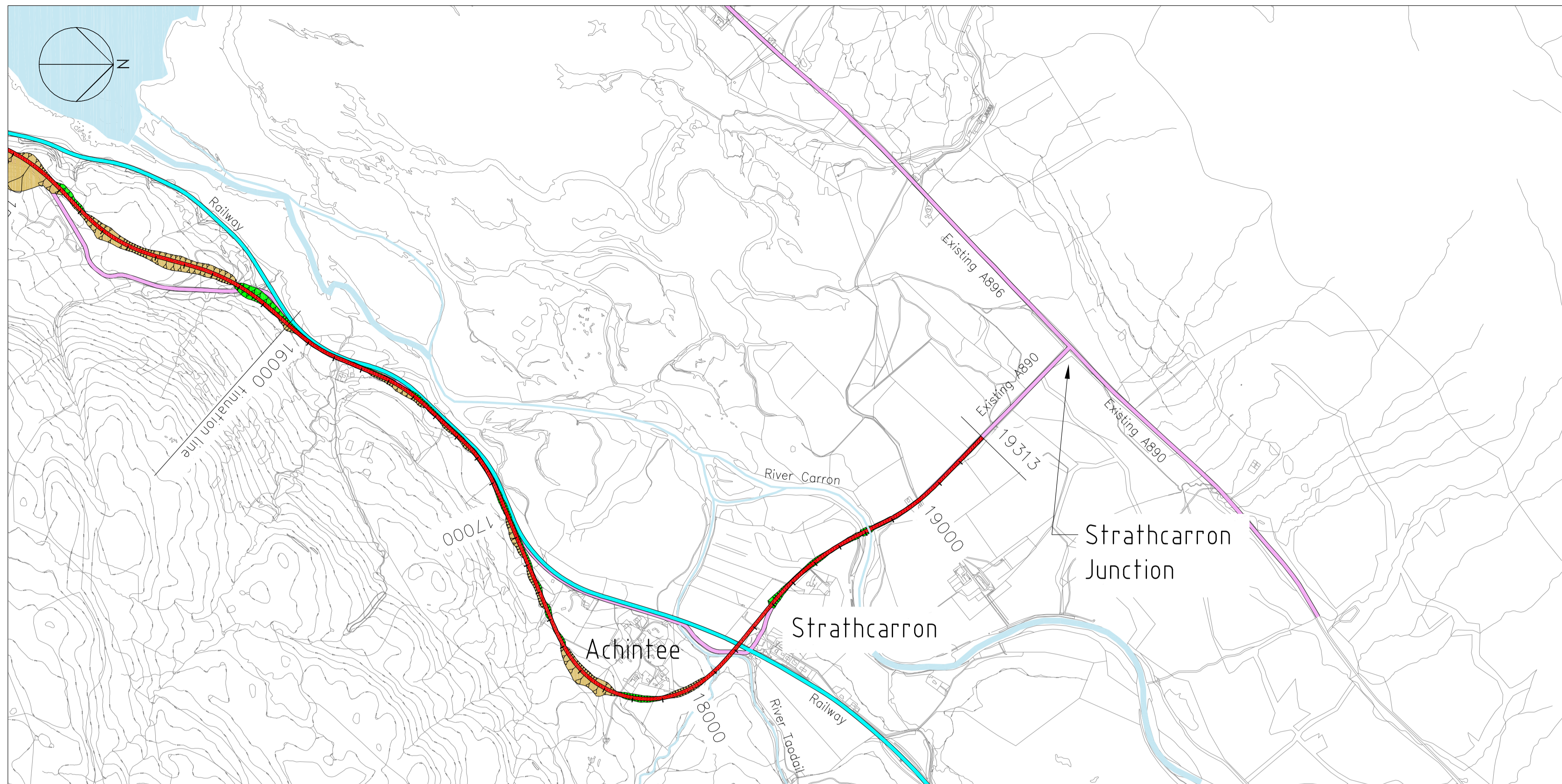
Drawn: JH	Checked: JI	Approved: DT	Date: MARCH 2014
URS Internal Project No. 47065084	Scale @ A1: 1:10,000H, 1:5000V	Zone / Mileage	

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Drawing Number: **47065084 - 2-5123**

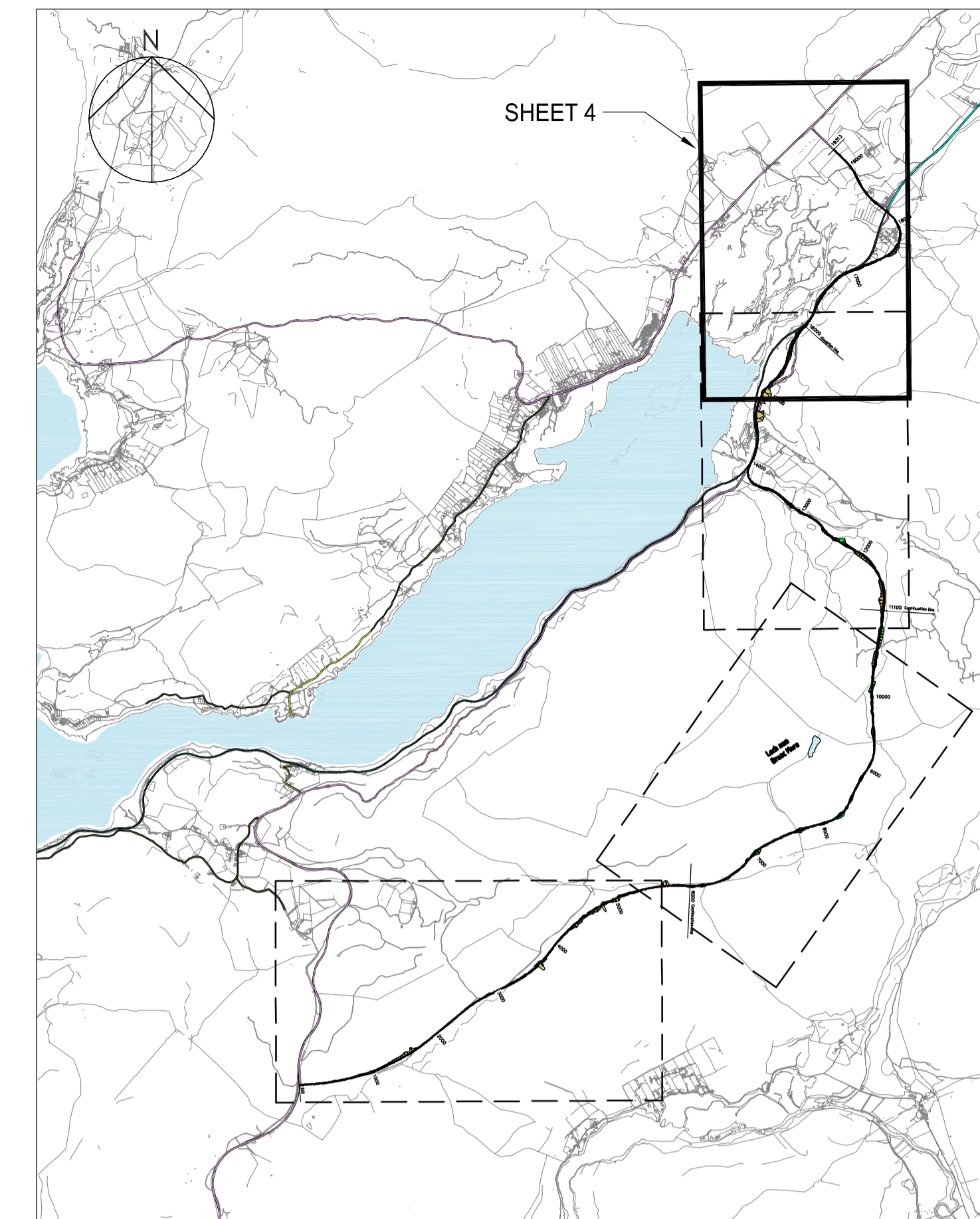
Rev: **0**

FINAL ISSUE



PLAN

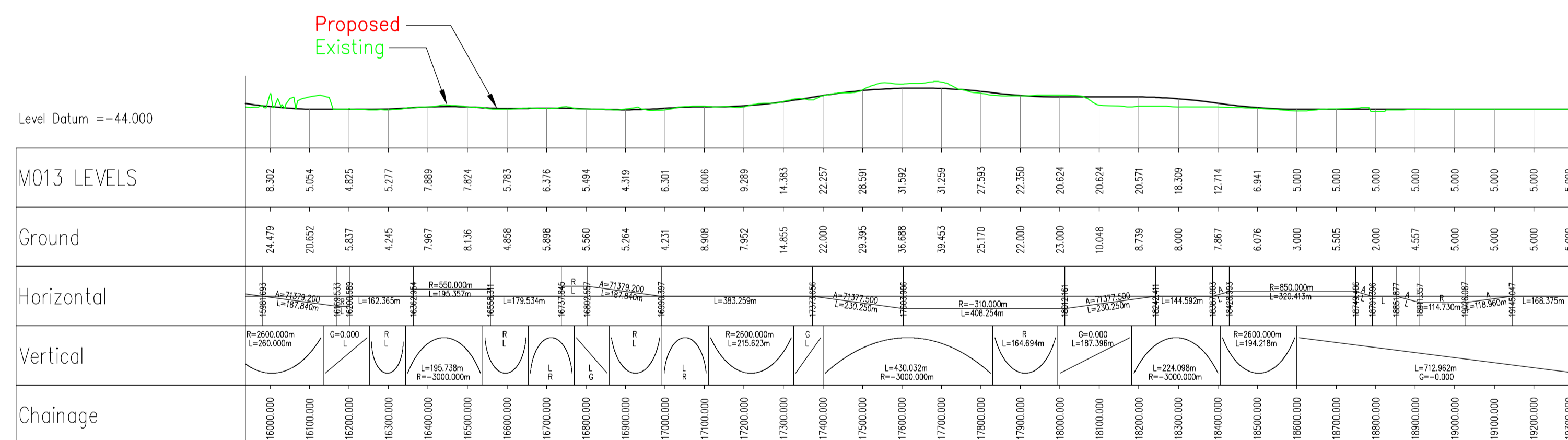
SCALE 1:10,000



KEY PLAN

KEY

- Existing Railway
- Existing "A" Roads
- Existing Local Roads
- Proposed Road Profile
- Earthworks Cut
- Earthworks Fill



PROFILE

SCALE 1:10,000H, 1:5000V

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Purpose of Issue: **FINAL ISSUE**

Client: **The Highland Council**
Comhairle na Gàidhealtachd

Project Title: **STROME FERRY APPRAISAL STAGE 2**

Drawing Title: **BEST SOUTHERN (S4) OPTION PLAN AND PROFILE SHEET 4 OF 4**

Drawn JH	Checked JL	Approved DT	Date MARCH 2014
URS Internal Project No. 47065084		Suitability	
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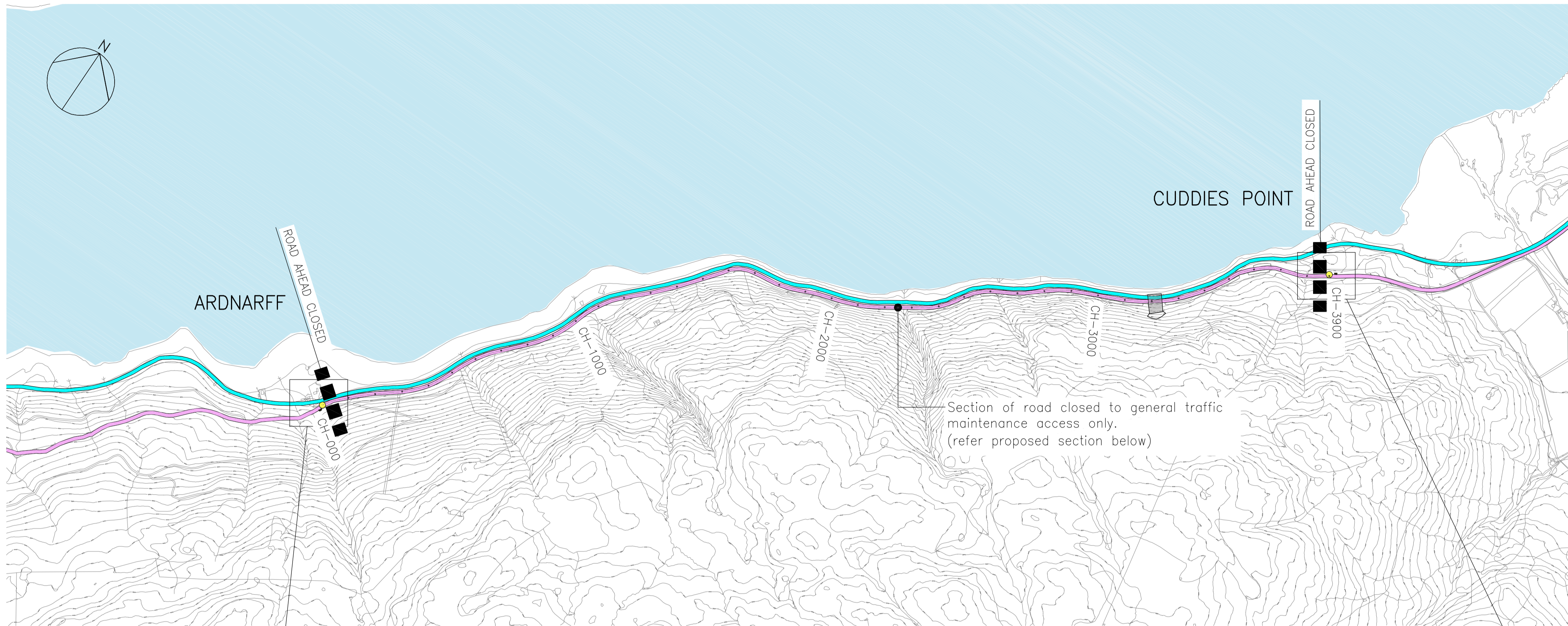
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URS

Drawing Number: **47065084 - 2-5124**

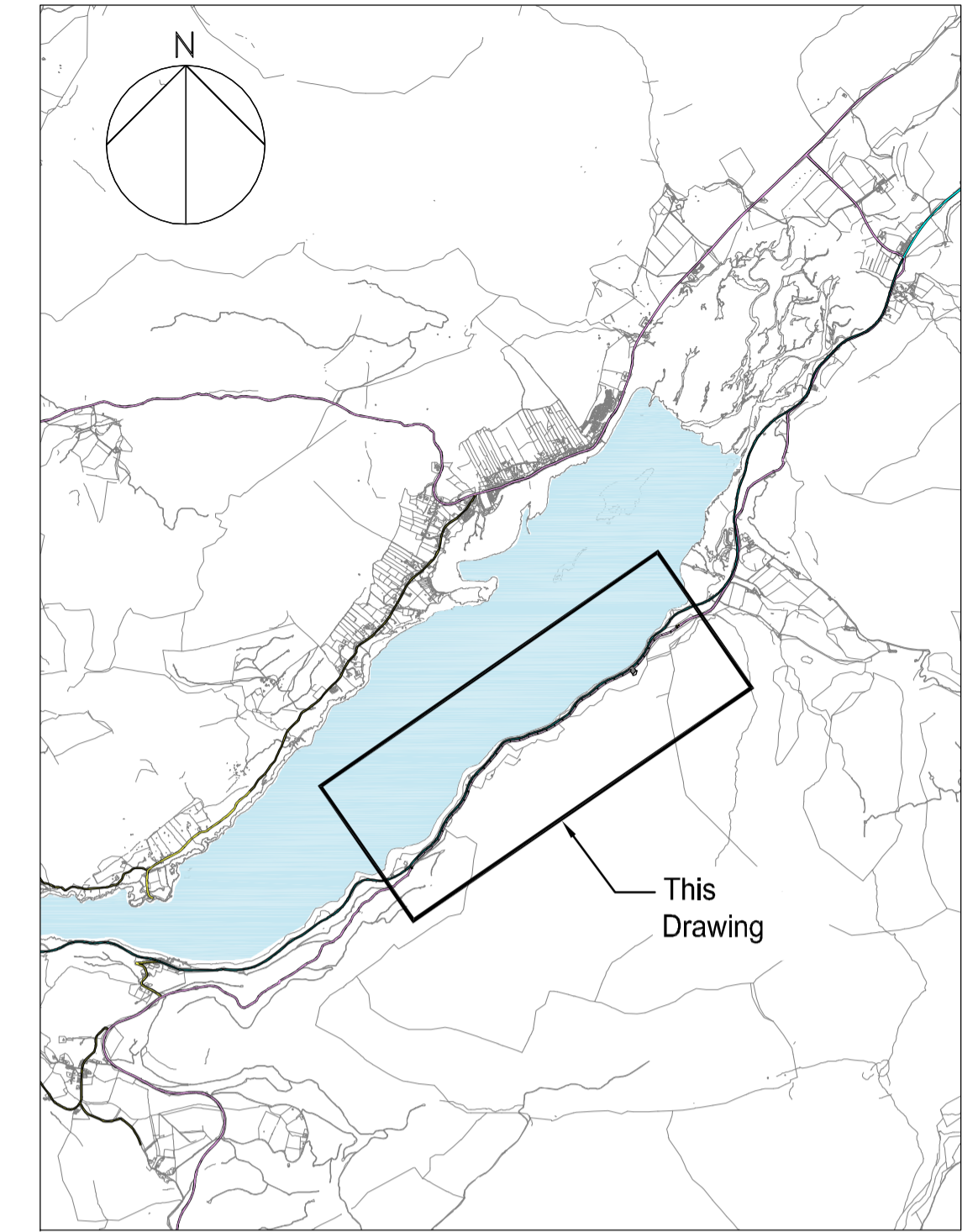
Rev: **0**

FINAL ISSUE



PLAN

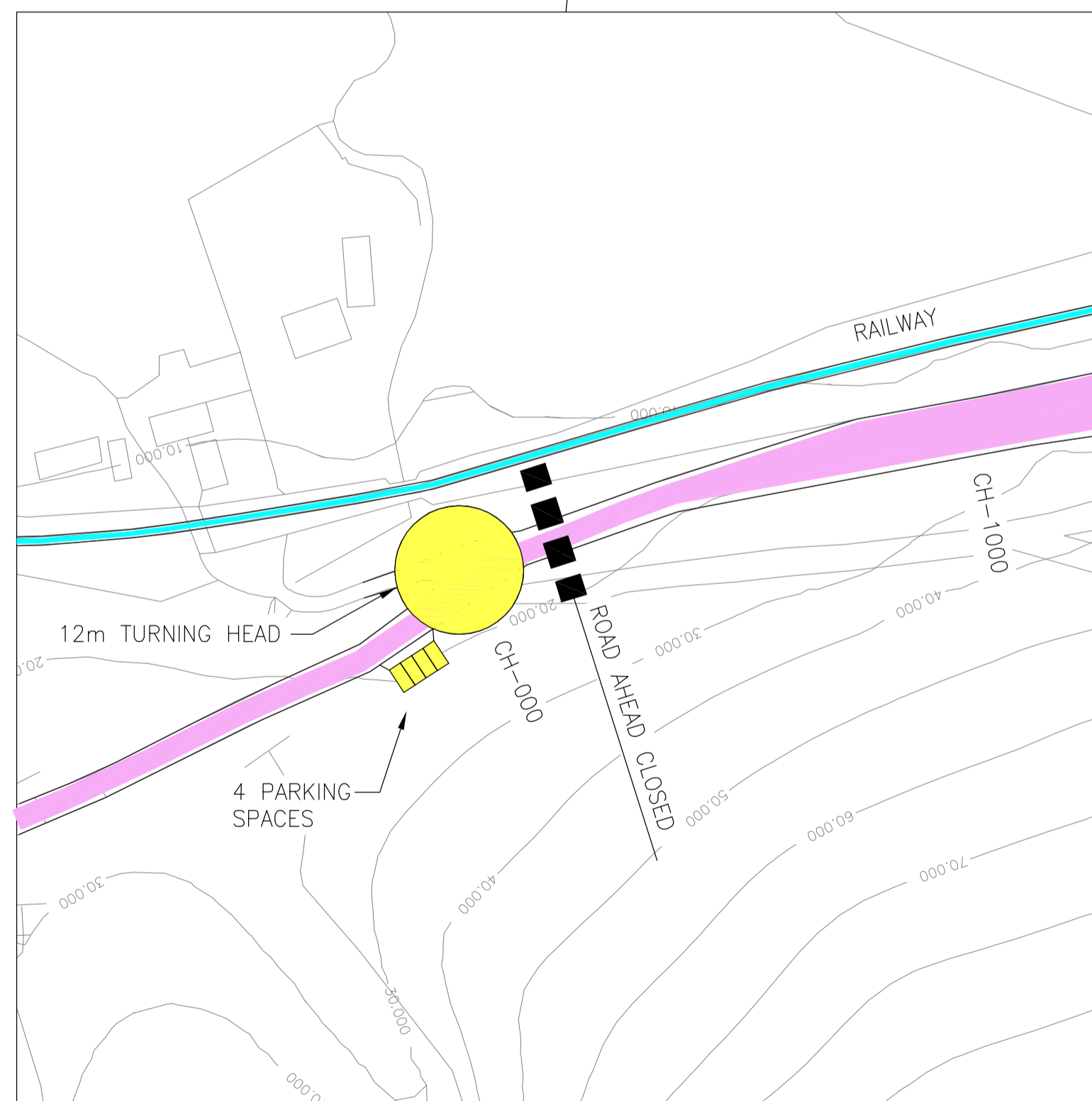
SCALE 1:10,000



KEY PLAN

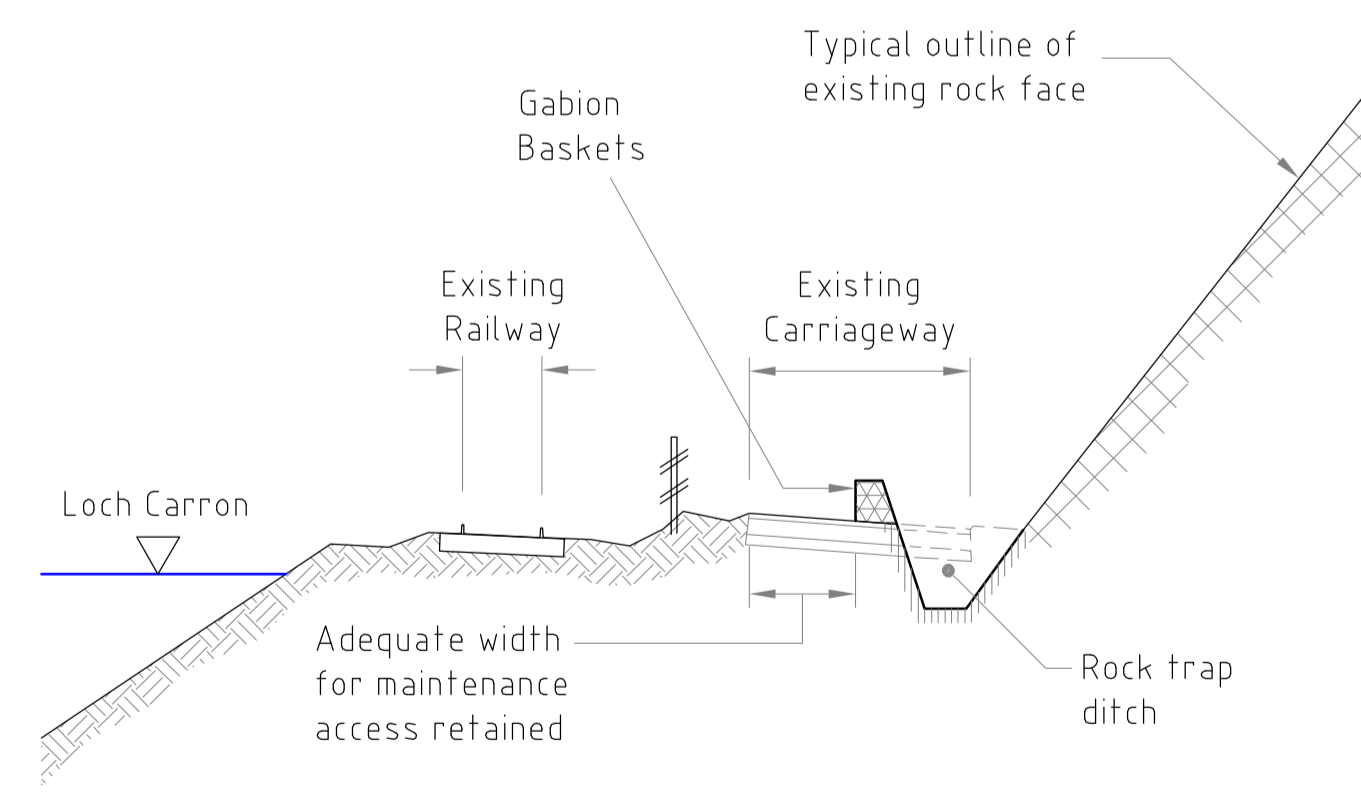
KEY

- Existing Railway
- Existing "A" Roads



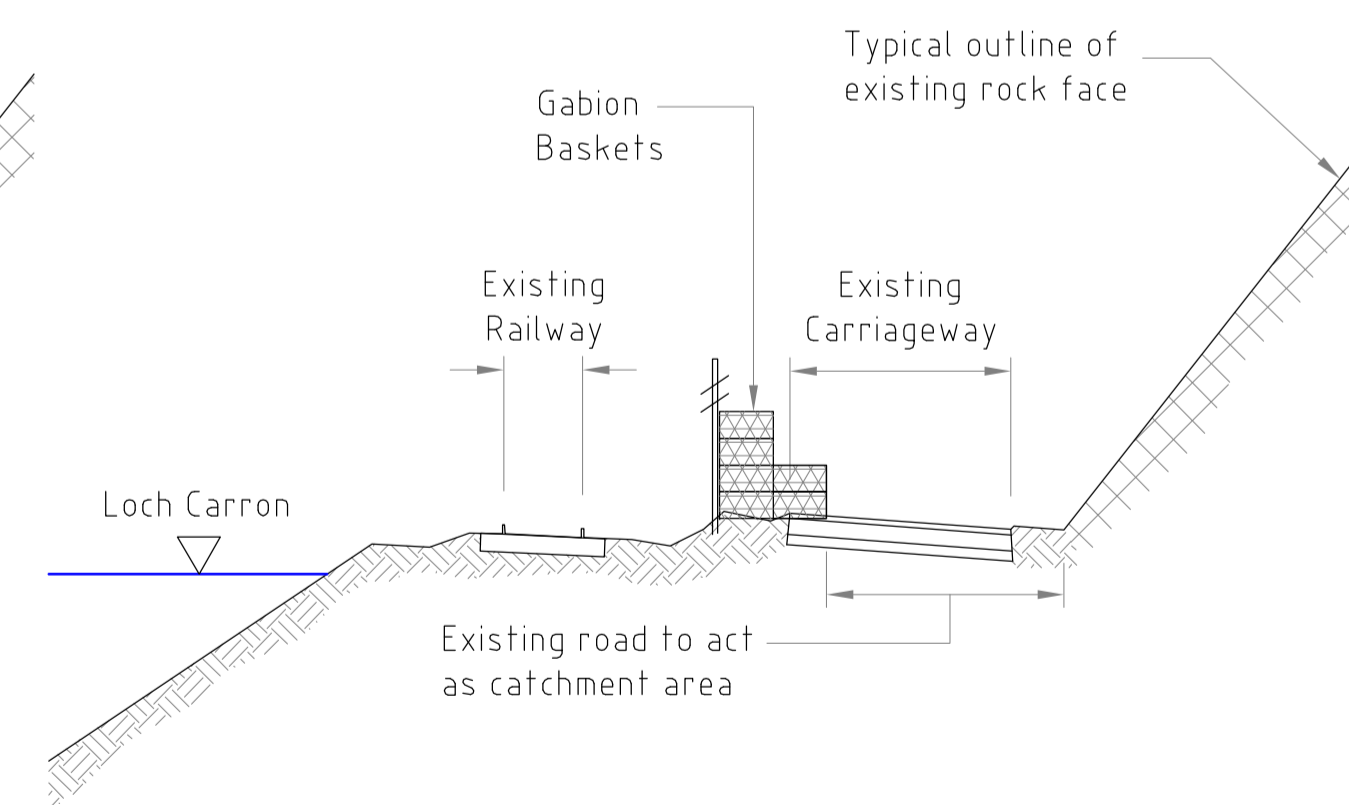
PLAN AT ARDNARFF

SCALE 1:1,000



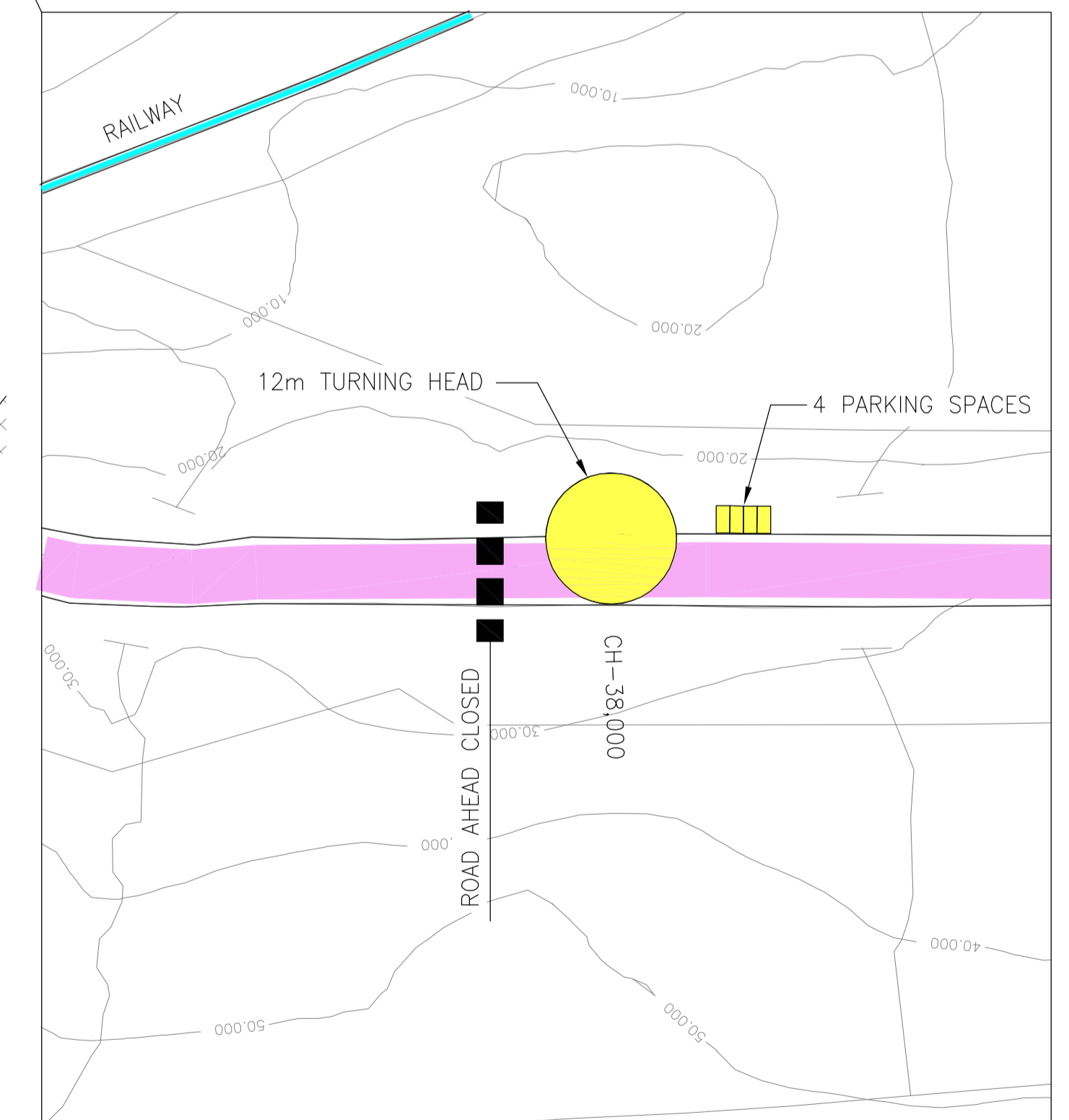
TYPICAL SECTION (OPTION 1)

NTS



TYPICAL SECTION (OPTION 2)

NTS



PLAN AT CUDDIES POINT

SCALE 1:1,000

FINAL ISSUE

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Revision Details	By	Check	Date	Suffix

CONSTRUCTION RISKS	MAINTENANCE /CLEANING RISK	DEMOLITION RISKS

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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX

Purpose of issue: **FINAL ISSUE**

Client: **The Highland Council**
Comhairle na Gàidhealtachd

Project Title: **STROME FERRY APPRAISAL STAGE 2**

Drawing Title: **Existing A890 Developed into Rock Fall Safety & Maintenance Corridor (For off-line routes)**

Drawn	Checked	Approved	Date
JH	JL	DT	MARCH 2014

URS Internal Project No. 47065084
Scale @ A1 1:10,000, 1:1000

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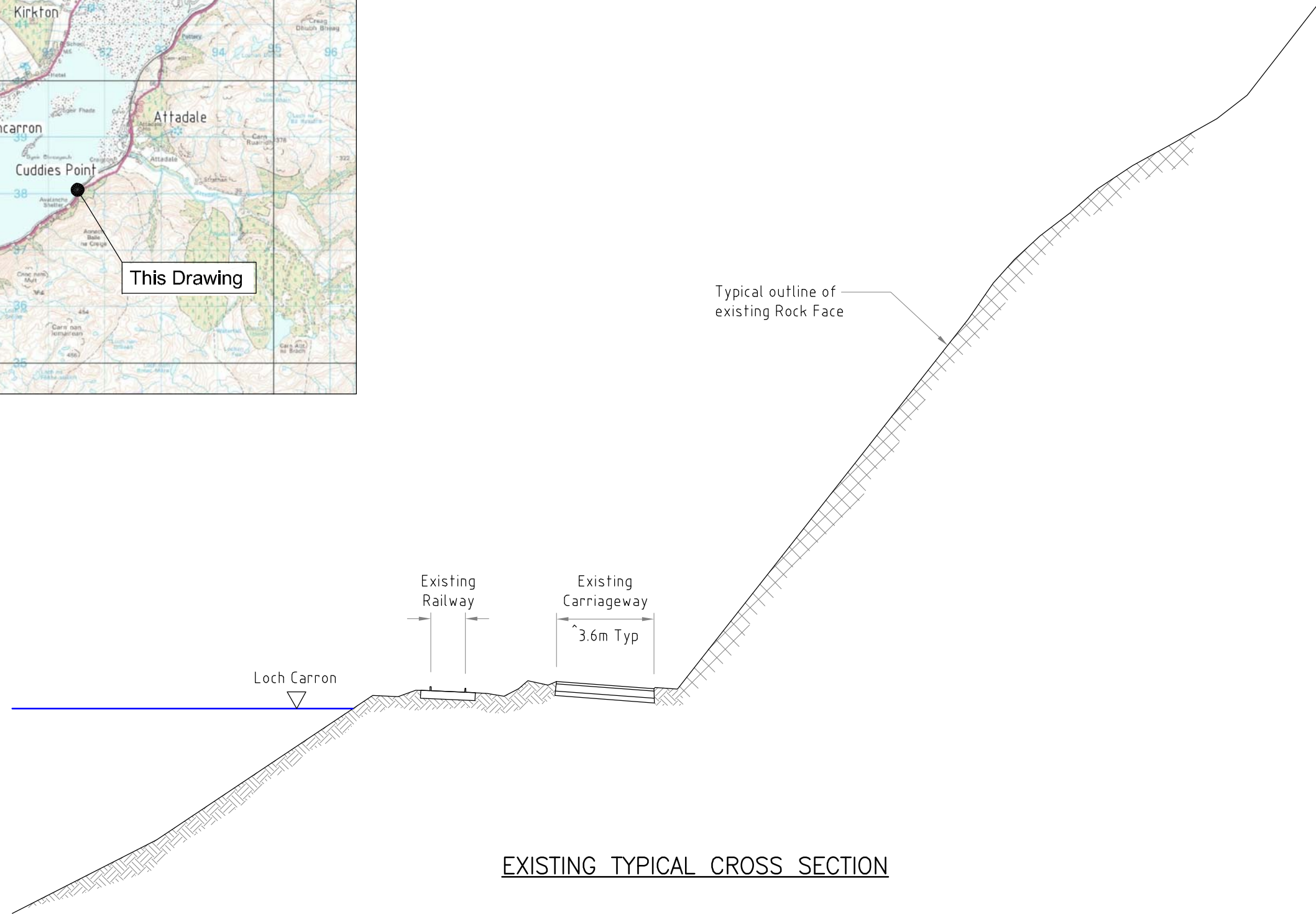
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Drawing Number: **47065084 - 2-5200**

Rev: **0**



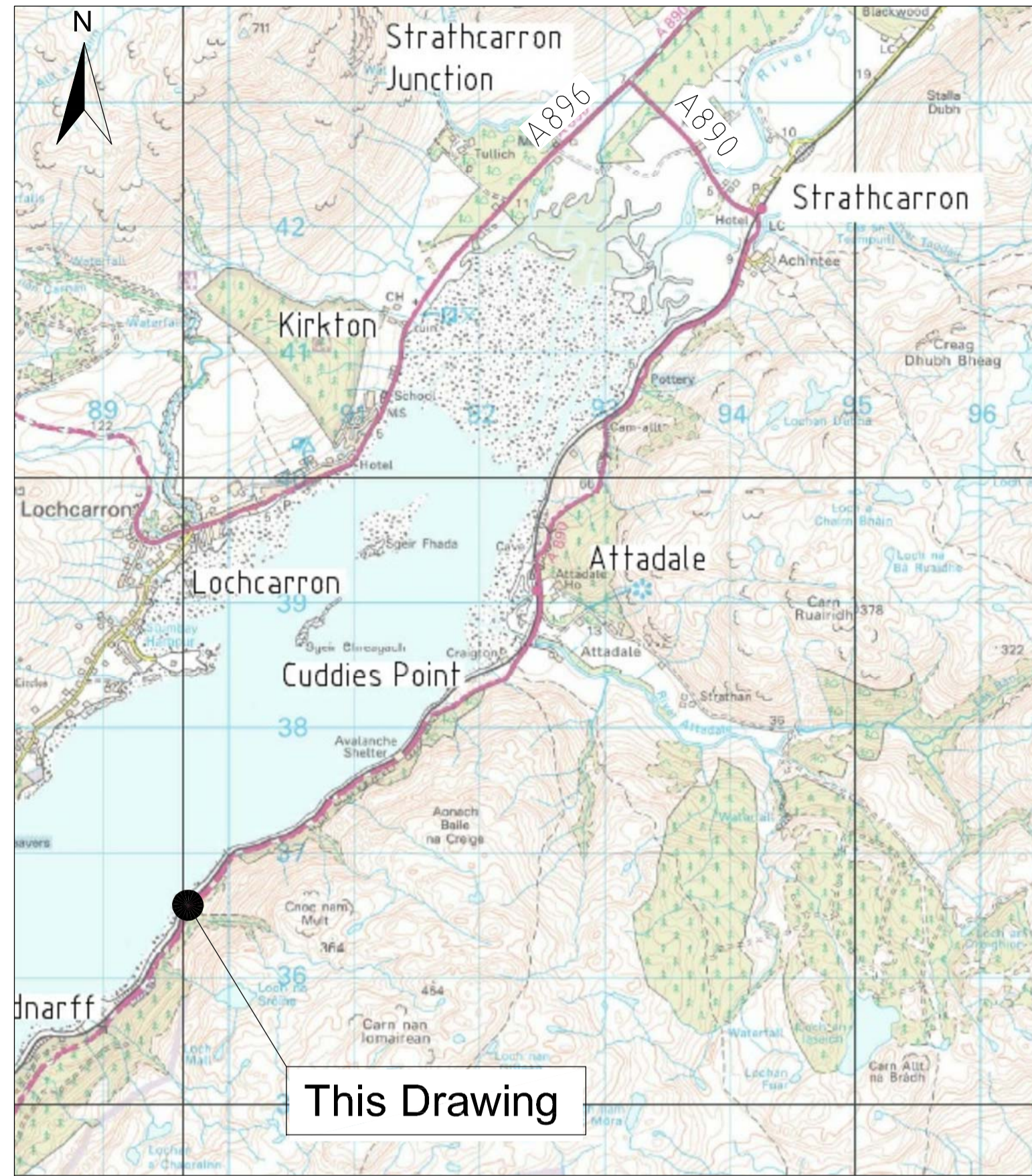
FINAL ISSUE



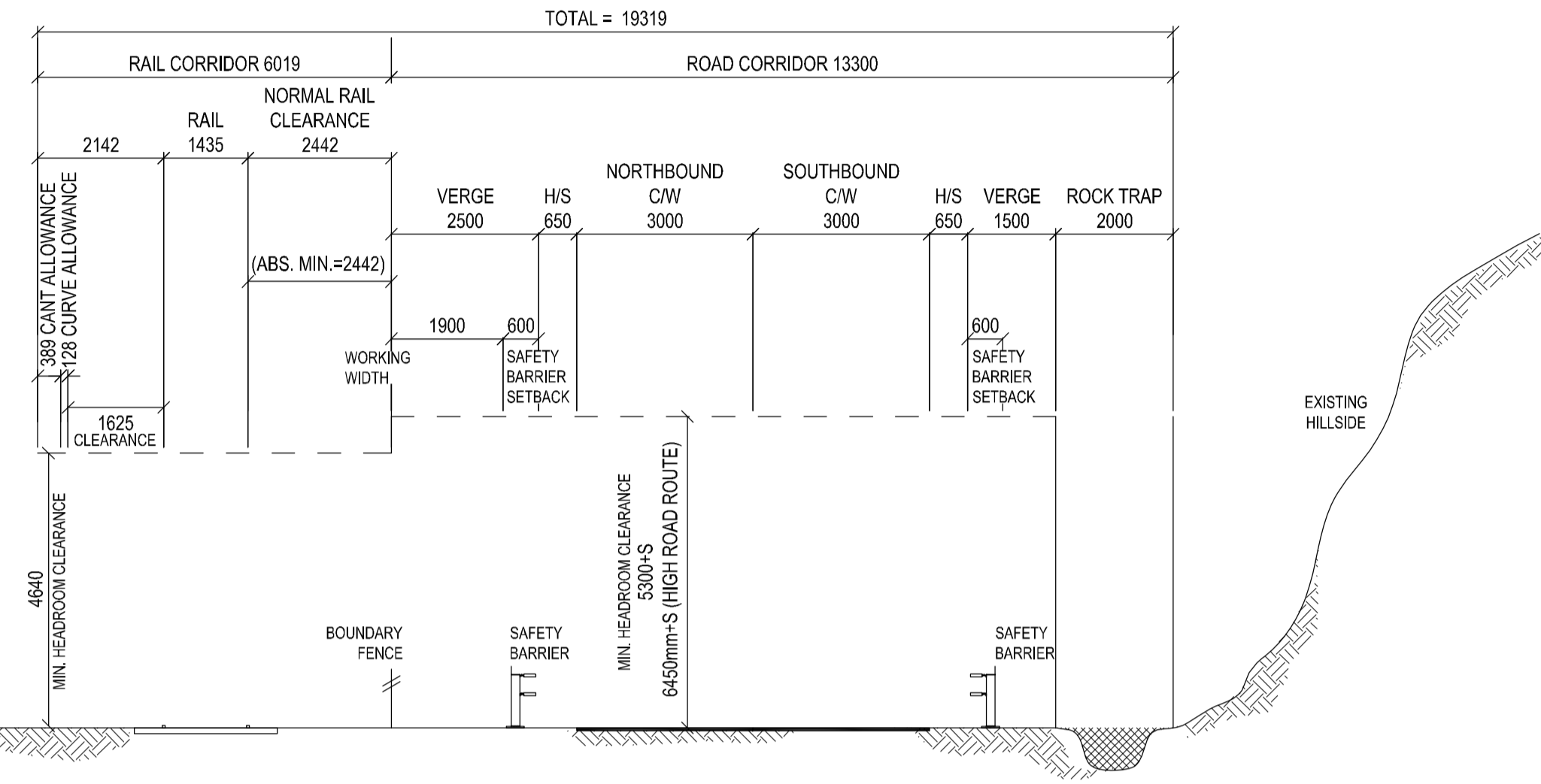
Title
Existing Cross Section West of
Avalanche Shelter

Drawing Number: 47065084 - 2-5201

Stromeferry Appraisal
Stage 2

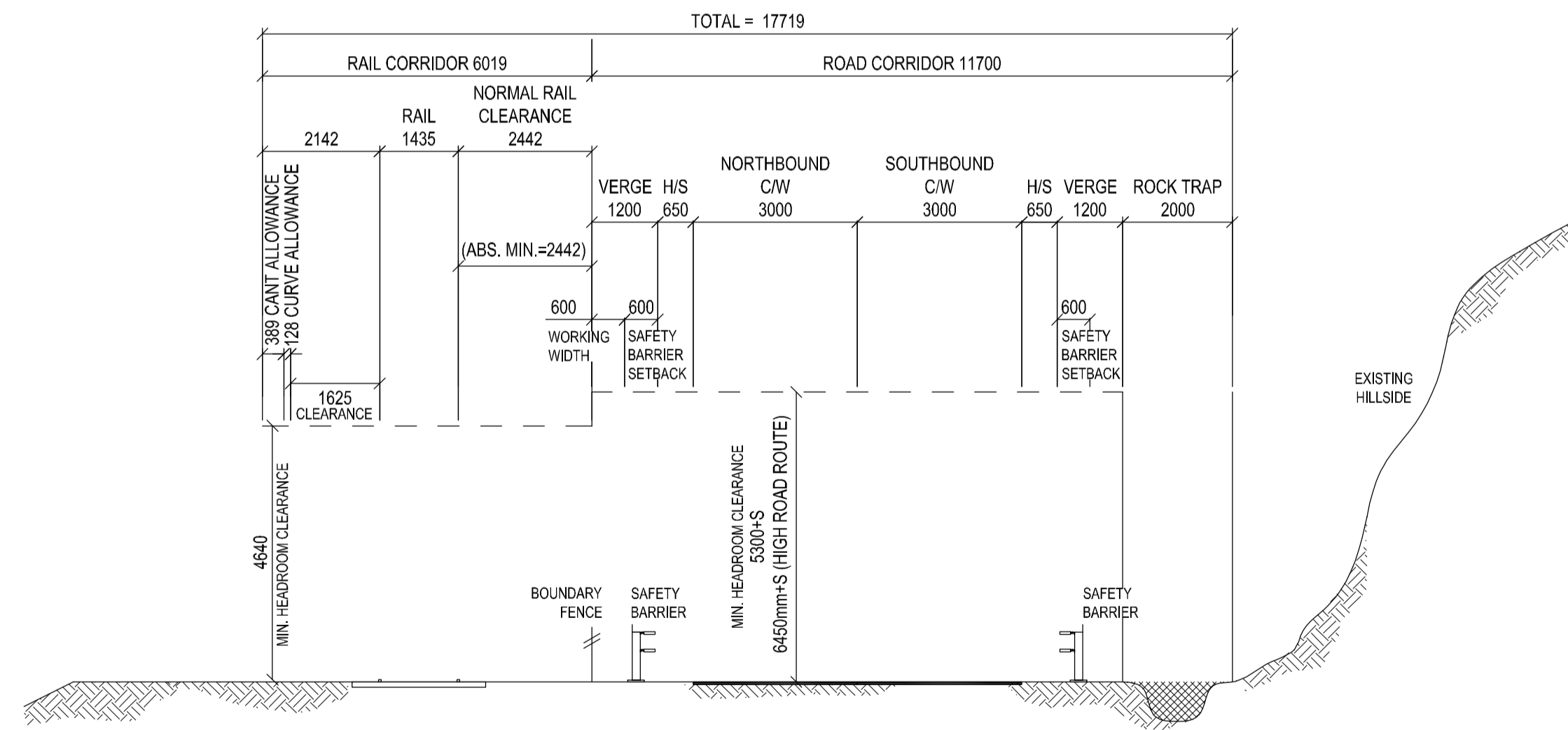


This Drawing



CROSS SECTION 2 - ABSOLUTE MINIMUM CROSS SECTION ONLINE
ARDNARFF / CNOC NAM MULT (RAILSIDE WALKWAY ONLY)

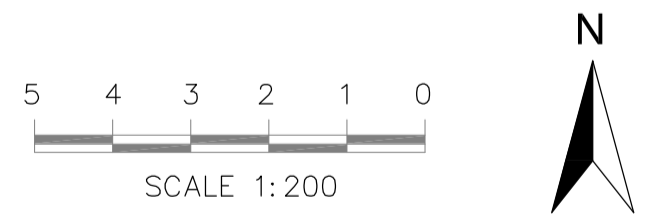
- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES.
 2. ASSUME N2 OR H4a SAFETY BARRIER, 600mm SETBACK W5 WORKING WIDTH 600mm.
 3. MIN. RAIL CLEARANCE = 1625mm.
 - 3.1. ADD 128mm FOR RAIL HORIZONTAL CURVE ALLOWANCE **
 - 3.2. ADD 389mm FOR RAIL CANT ALLOWANCE **
- ** BASED ON EXISTING RAIL GEOMETRY.



CROSS SECTION 3 - ABSOLUTE MINIMUM CROSS SECTION ONLINE
ARDNARFF TO CONC NAM MULT (NO PEDESTRIAN WALKWAY)

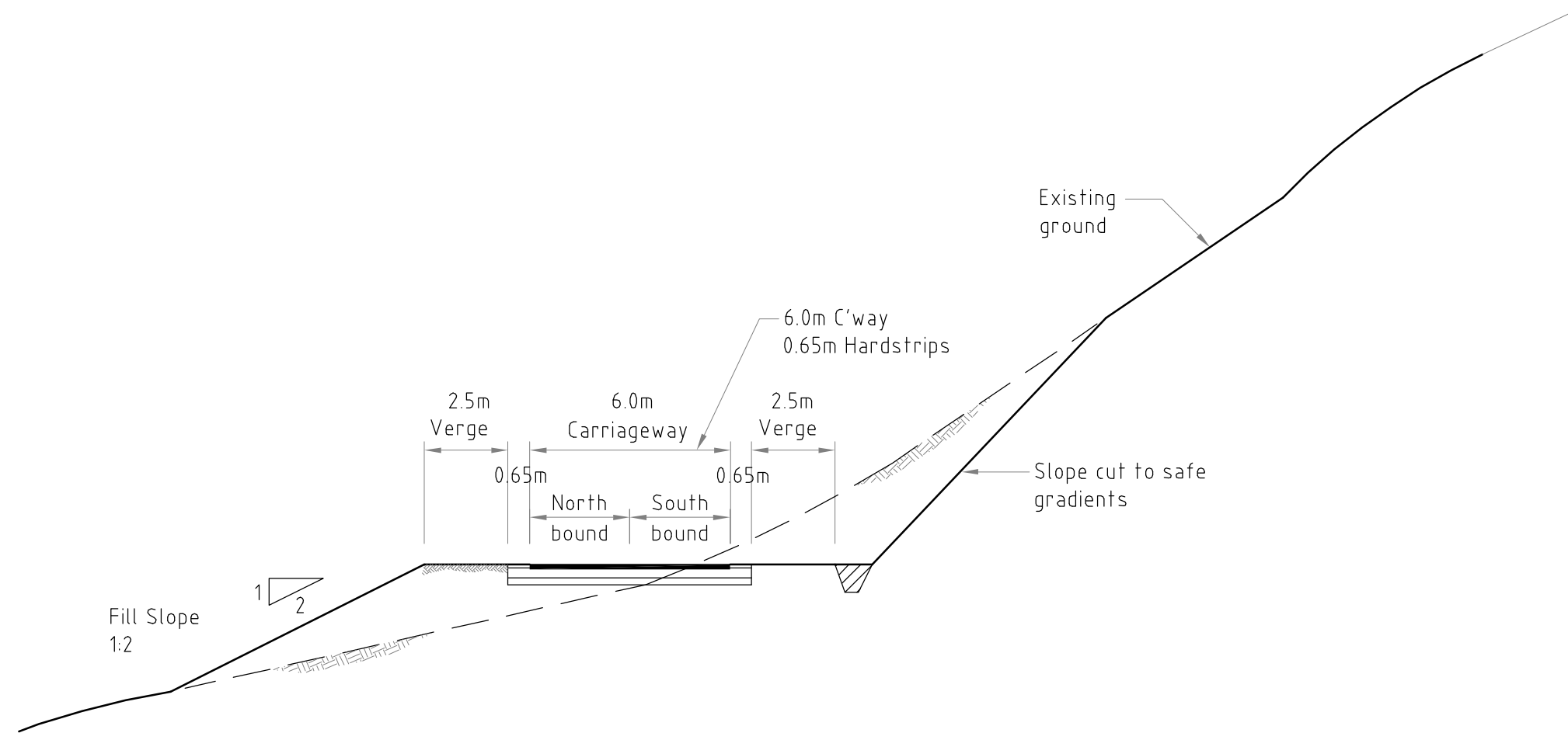
TYPICAL CROSS SECTION OF ON-LINE IMPROVEMENTS

FINAL ISSUE



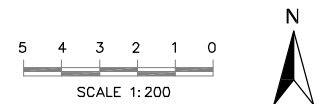
Title
Proposed Cross Section
Route Option O1
On-line Improvements
Drawing Number: 47065084 - 2-5202

Stromeferry Appraisal
Stage 2



TYPICAL CROSS SECTION (OFF-LINE ROUTES)

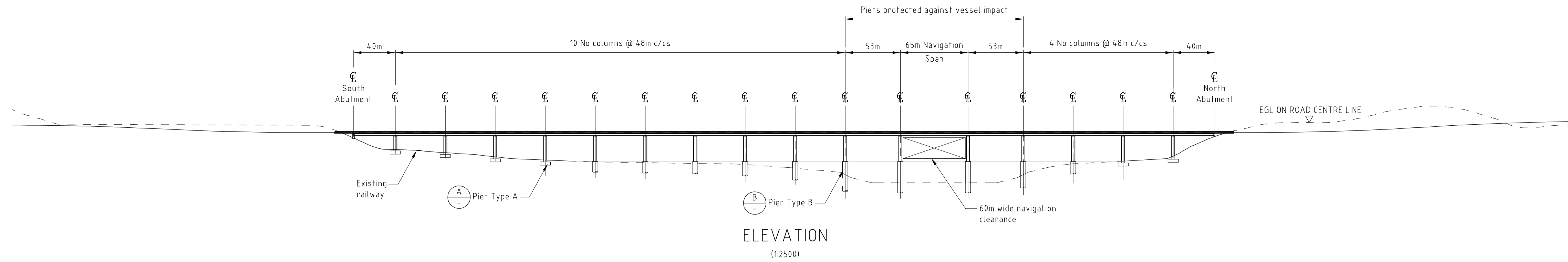
FINAL ISSUE



Title
Proposed Cross Section
Off-line Improvements

Drawing Number: 47065084 - 2-5203

**Stromeferry Appraisal
Stage 2**



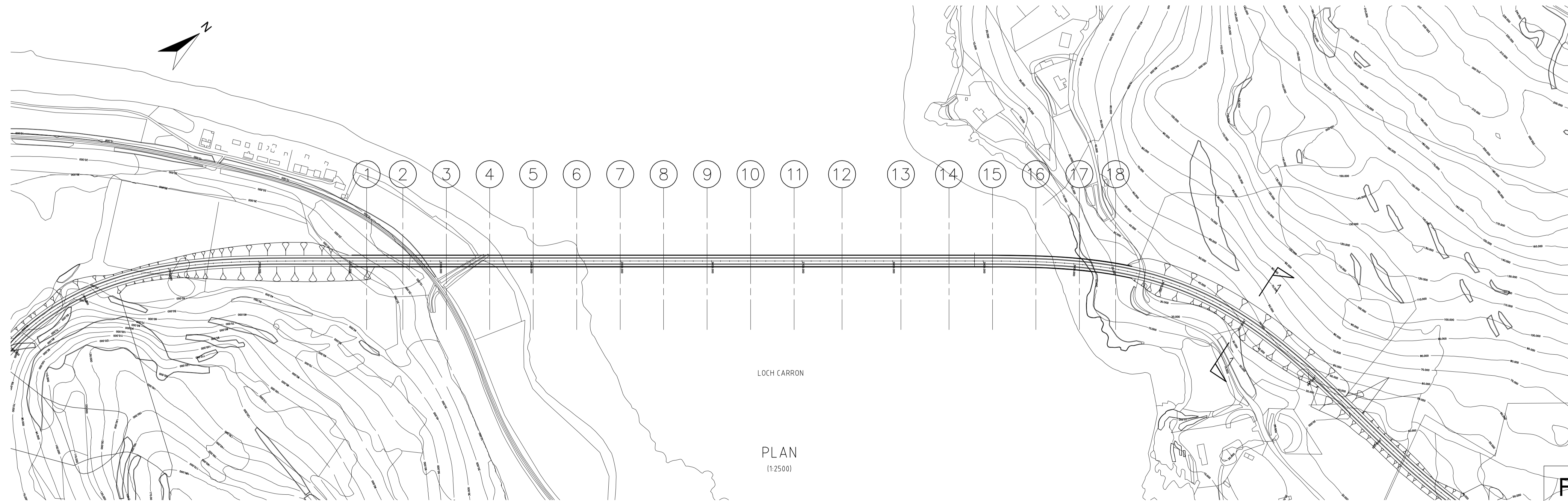
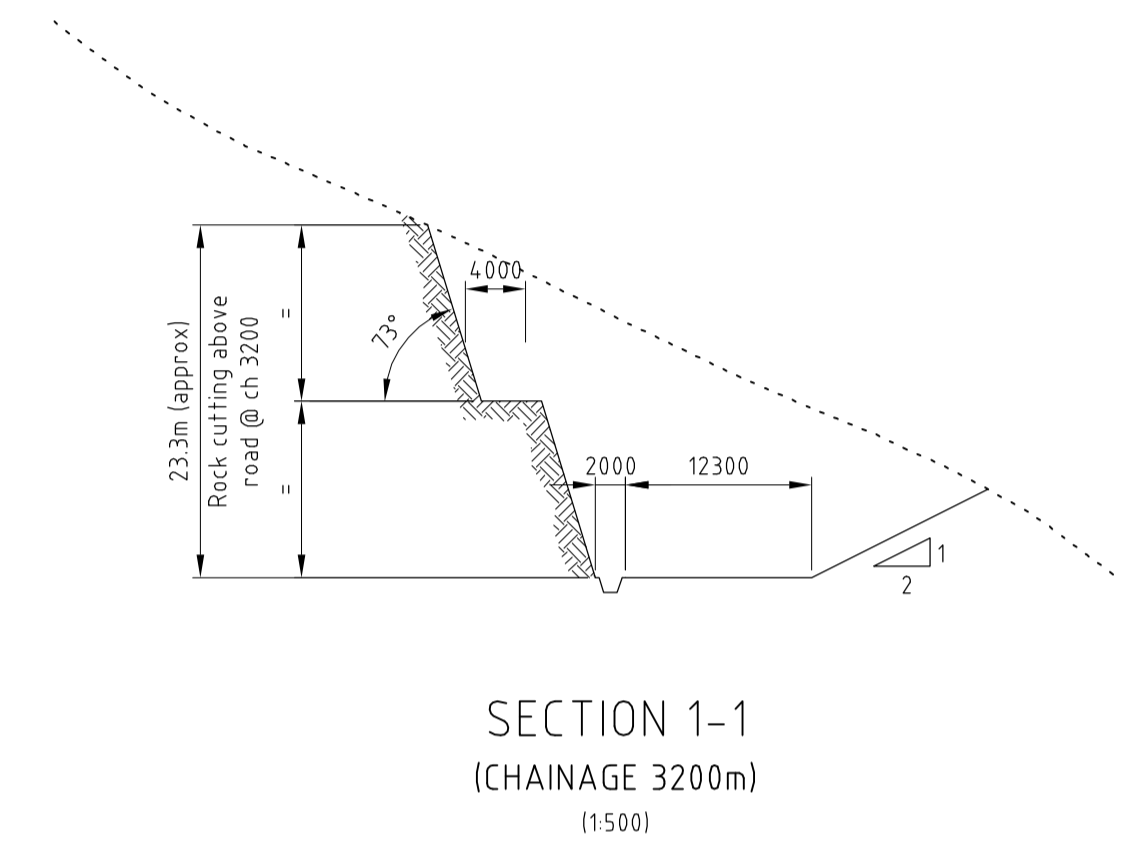
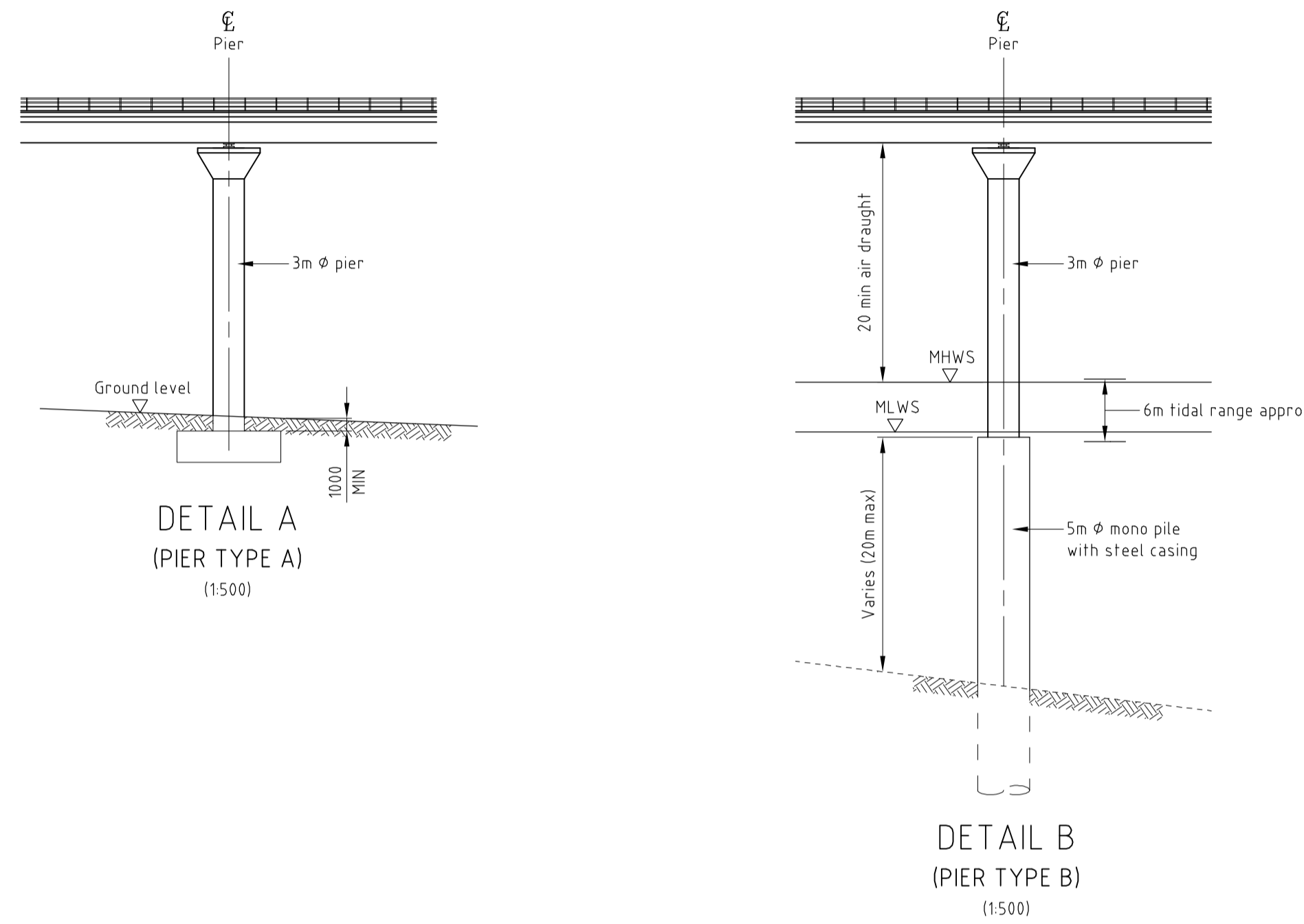
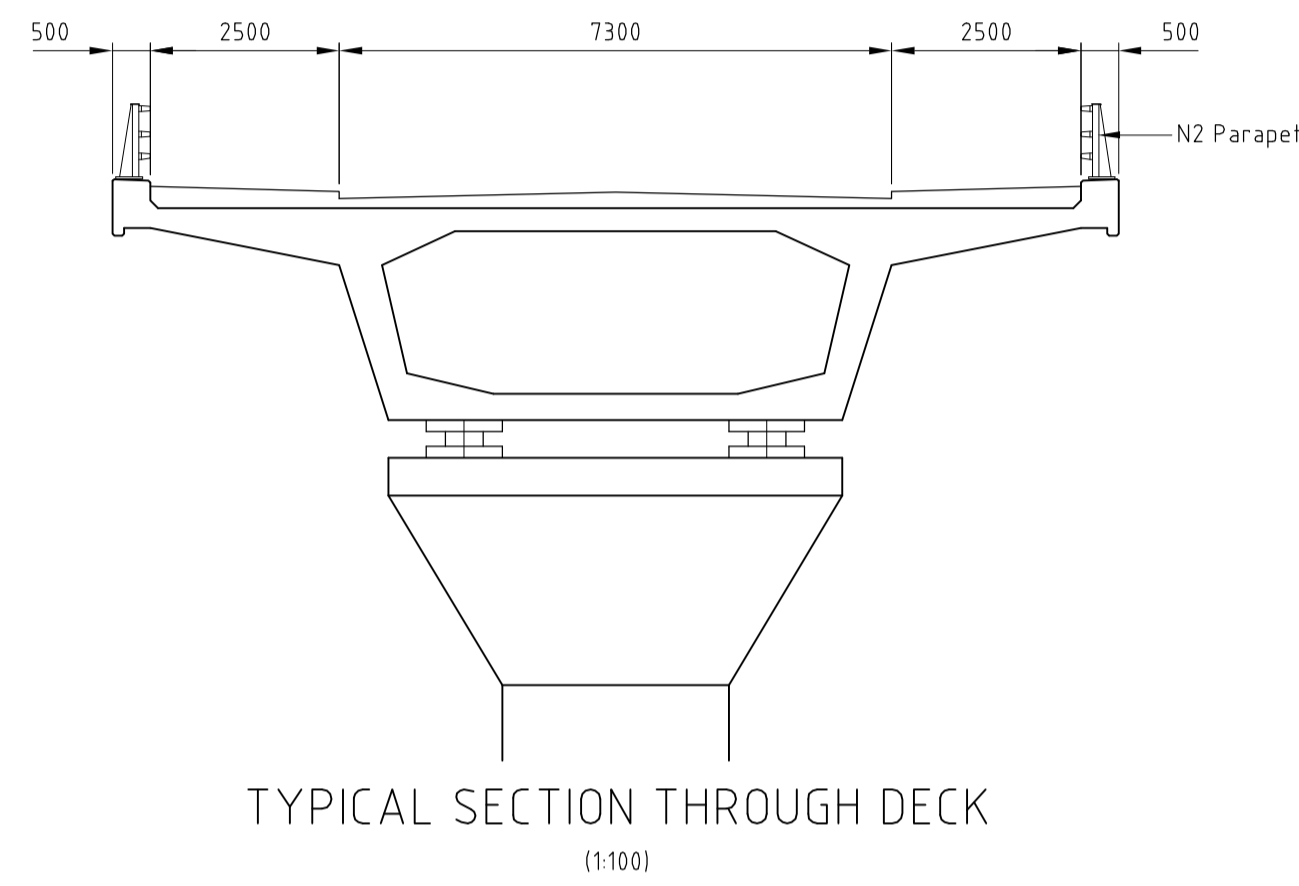
Key

- All dimensions are in millimetres.
- All exposed arrises to have 25x25 chamfers unless noted otherwise.
- Details are referenced thus:
 - Detail reference
 - Drawing number - blank if shown on this drawing

Assumptions

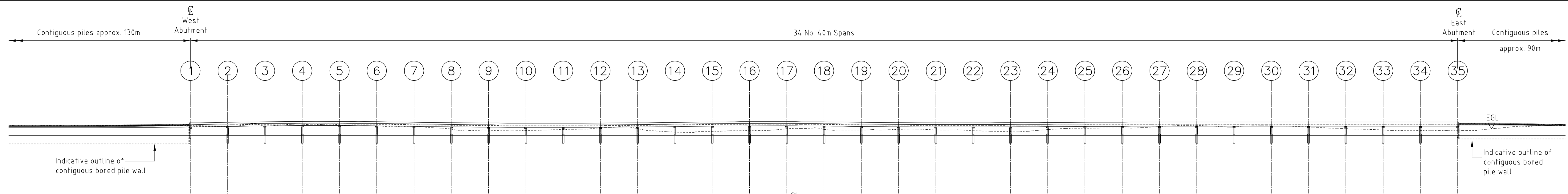
- Low level crossing
- Road @ 26m AOD (approx)
- Approximate spans typically 4.8m, navigation span protected against vessel impact
- Route to avoid deep rock excavation at North
- Clearance 20m approx
- Navigation span between piers 12-13

(TBC)



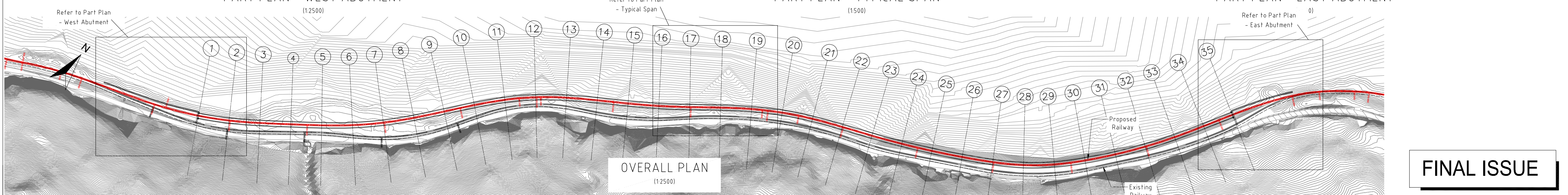
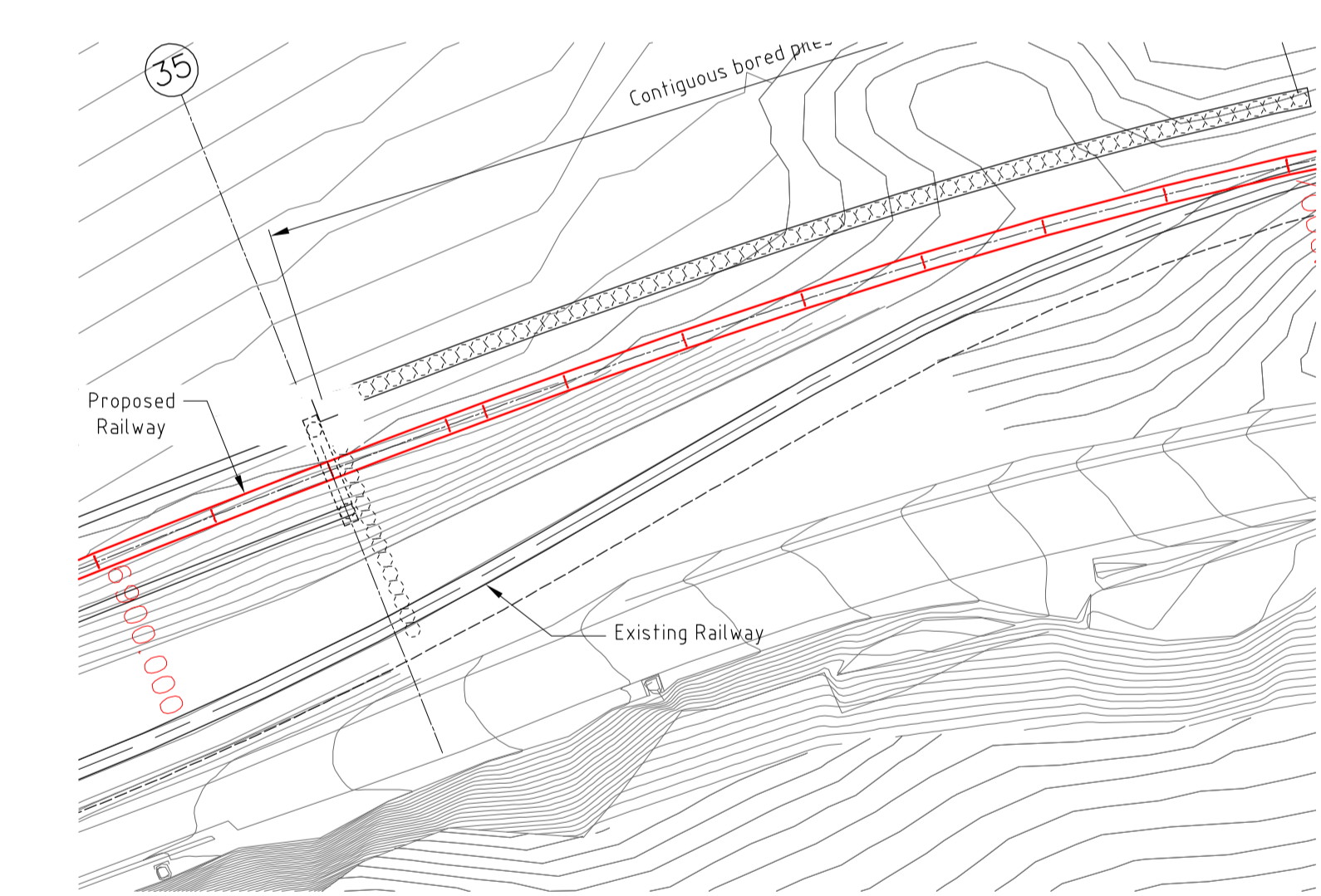
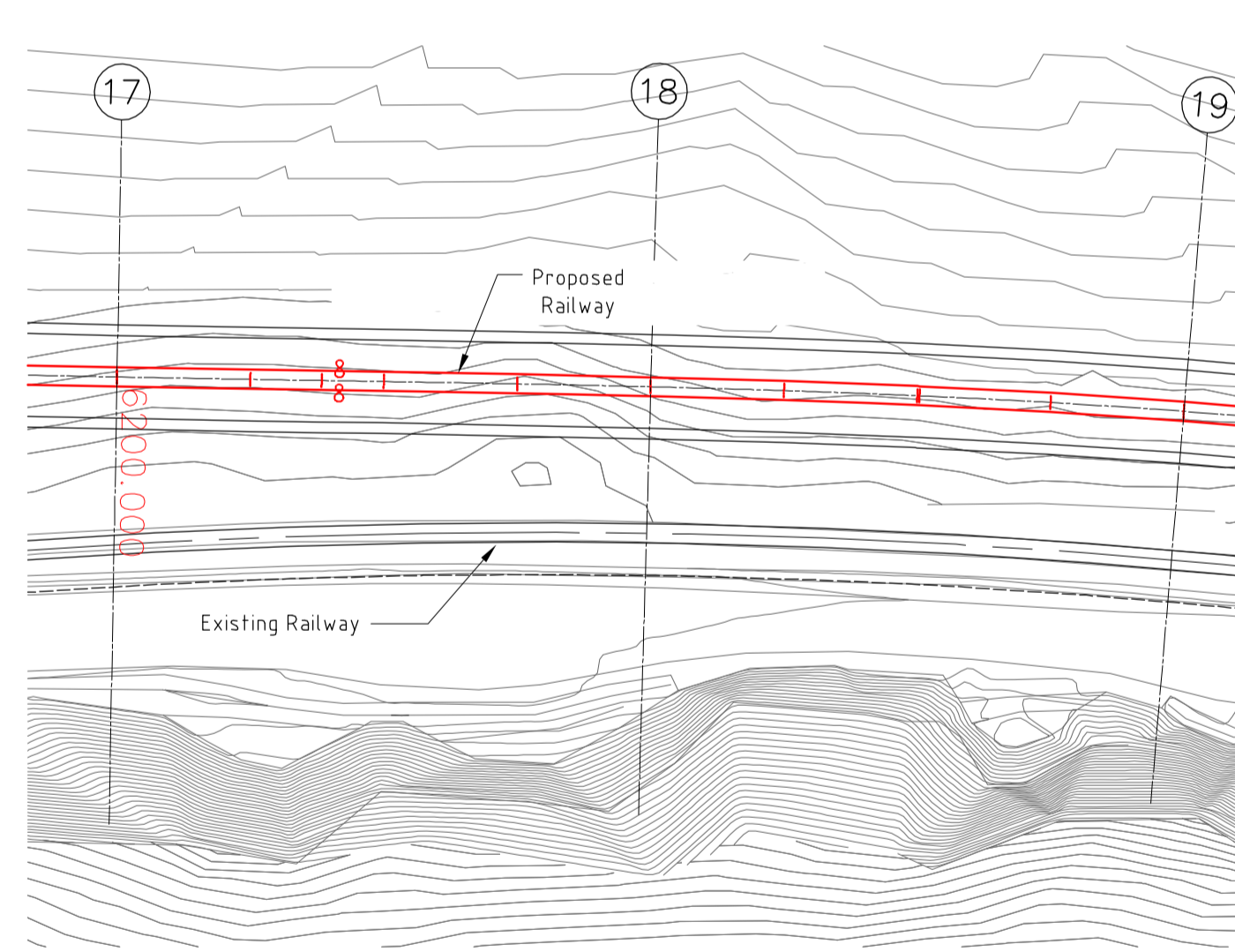
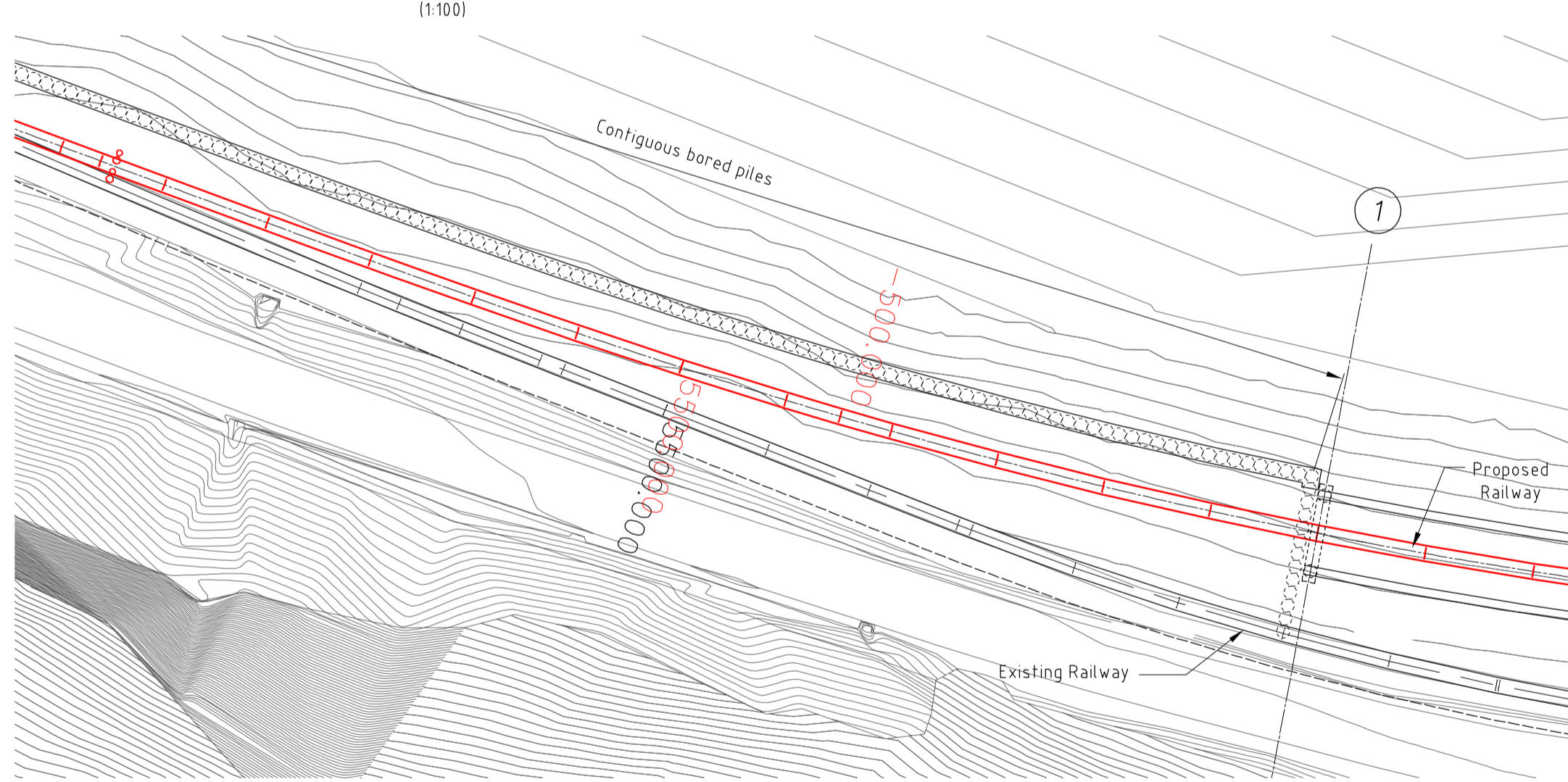
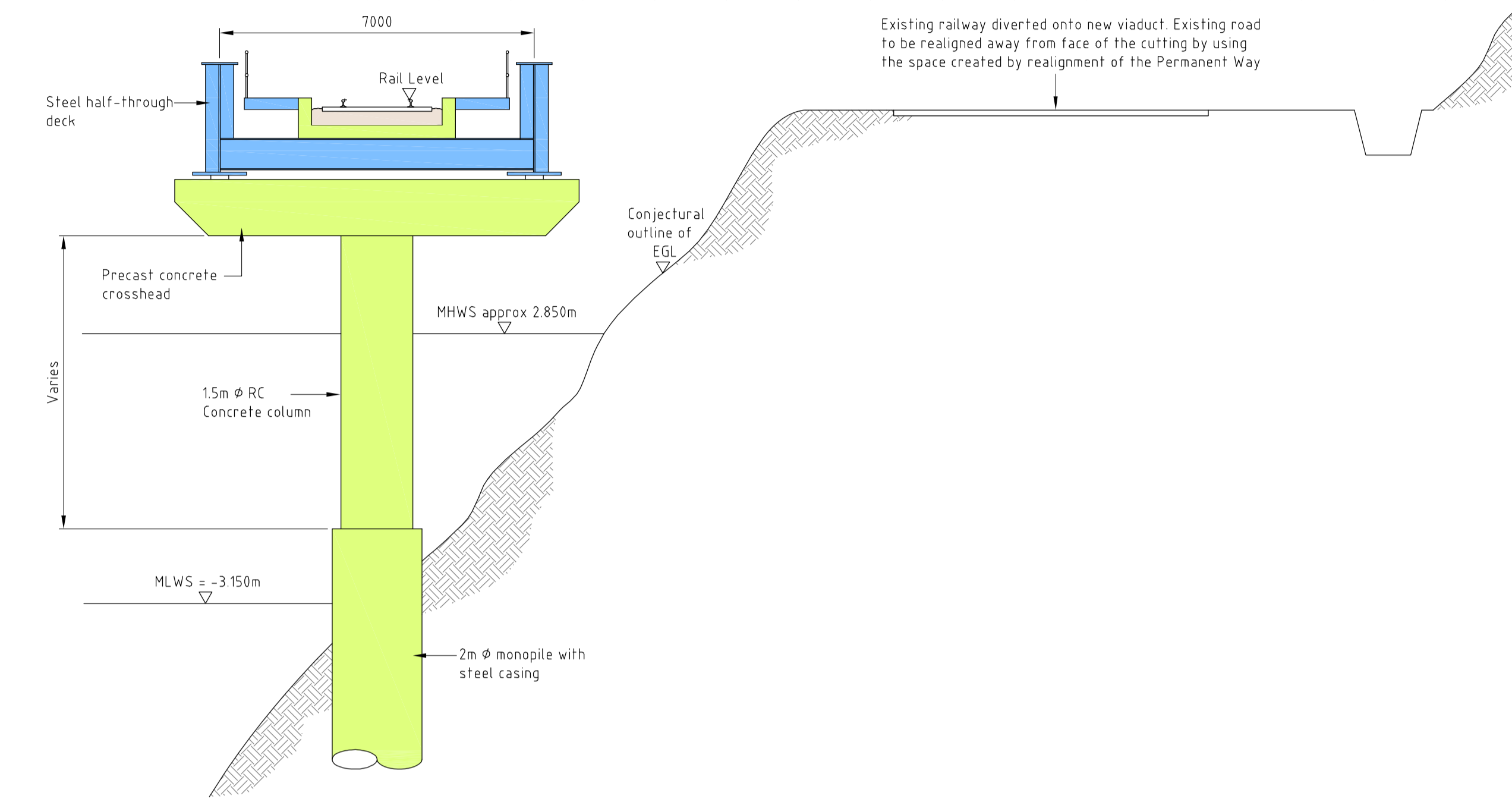
FINAL ISSUE

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			CONSTRUCTION RISKS	MAINTENANCE /CLEANING RISK	DEMOLITION RISKS																													
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Revision Details	By	Check	Date	Suffix																														



- Key**
- All dimensions are in millimetres.
 - All exposed arrises to have 25x25 chamfers unless noted otherwise.
 - Details are referenced thus:
 - Detail reference
 - Drawing number - blank if shown on this drawing.

- Assumptions**
- All construction is by barge moored in the loch
 - Piles can be installed into loose rock embankment
 - Piles can be socketed into bed rock
 - Possession of line available for completion of tie ins
- (TBC)



FINAL ISSUE

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Revision Details	By	Check	Date	Suffix

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Purpose of Issue: **FINAL ISSUE**

Client: **The Highland Council**
Comhairle na Gàidhealtachd

Project Title: **STROME FERRY APPRAISAL STAGE 2**

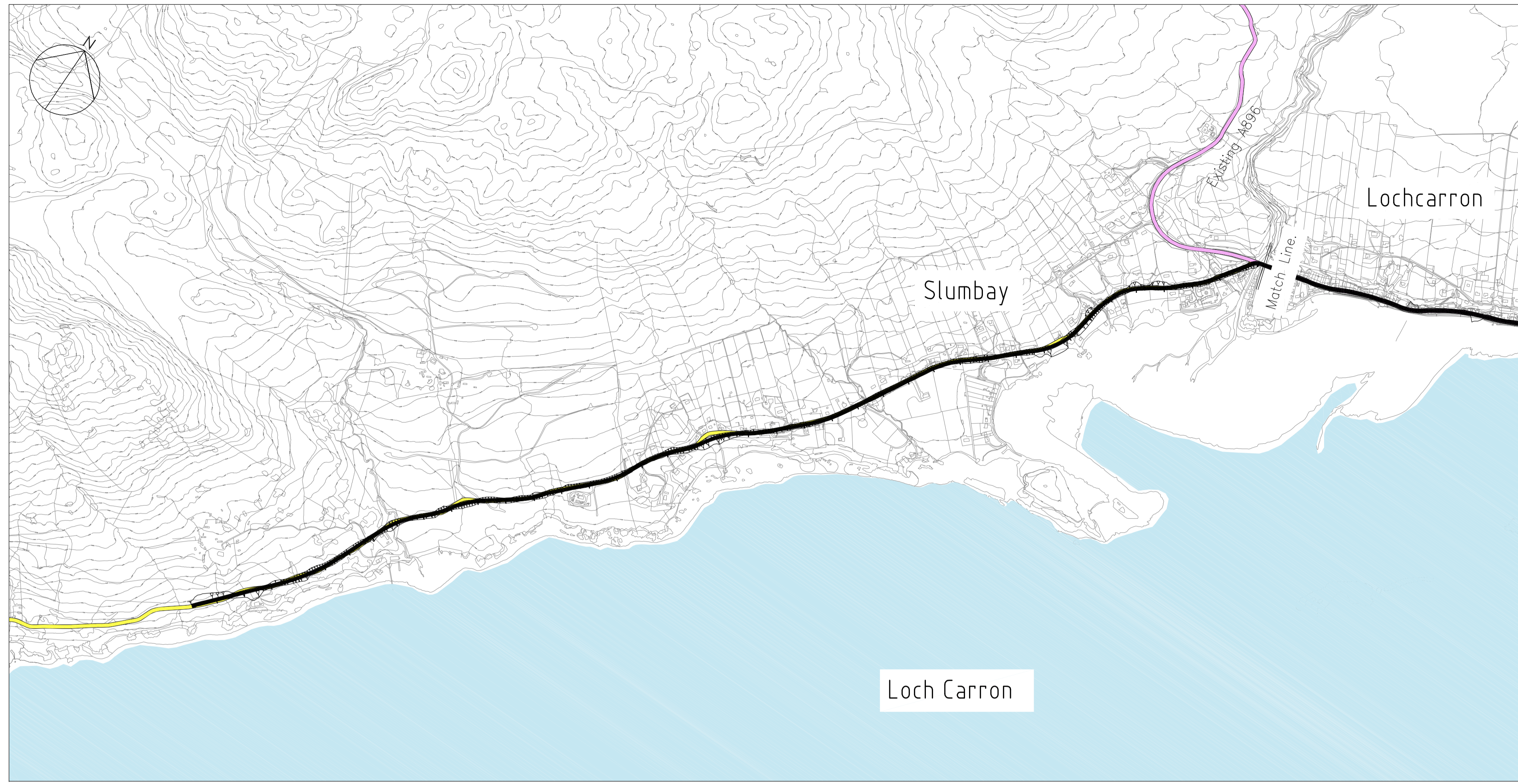
Drawing Title: **Online Railway Viaduct General Arrangement Option (02)**

Drawn: JH	Checked: JH	Approved: DT	Date: MARCH 2014
URS Internal Project No. 47065084			
Scale @ A1: 1:10,000, 1:1000			
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Drawing Number: **47065084 - 2-5205**

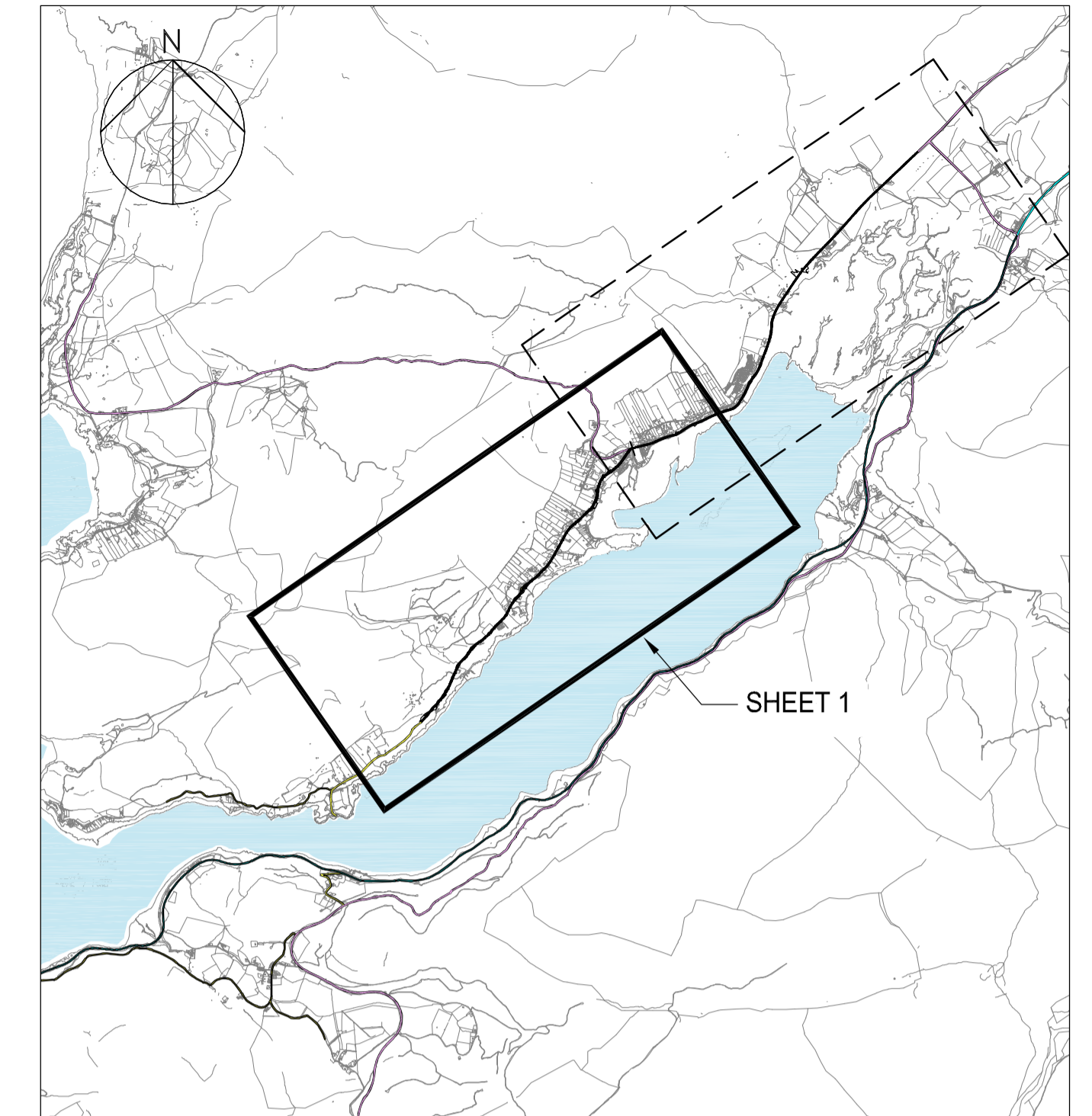
Rev: **0**



Loch Carron

PLAN

SCALE 1:10,000



KEY PLAN

KEY

- Existing Railway
- Existing "A" Roads
- Existing Local Roads
- Proposed Road Profile



PROFILE

SCALE 1:10,000H, 1:5000V

FINAL ISSUE

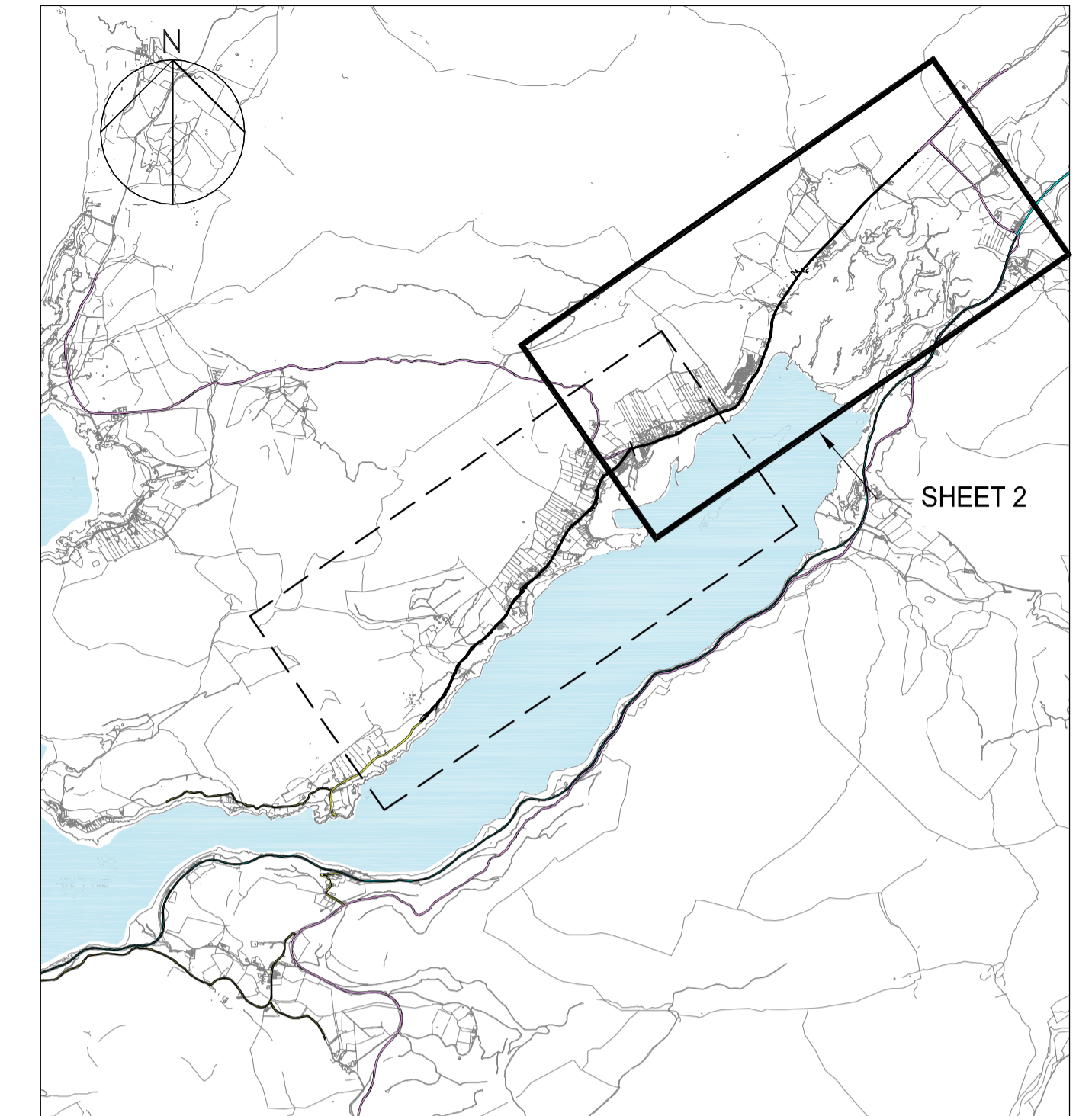
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PLAN

SCALE 1:10,000



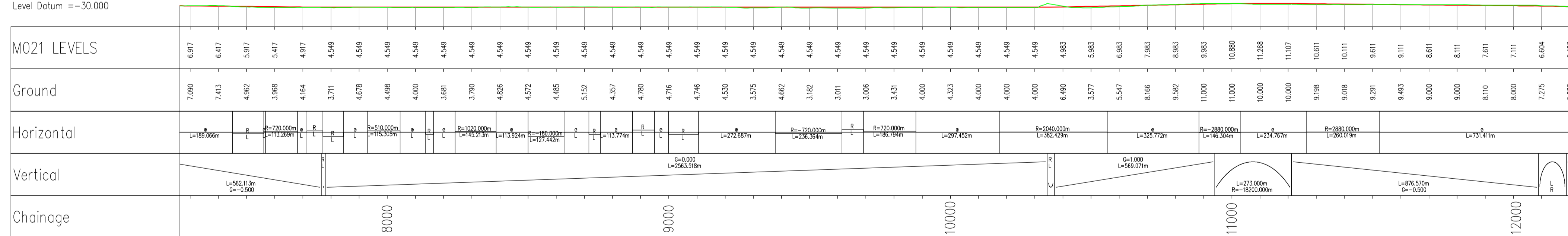
SHEET 2

KEY PLAN

KEY

- Existing Railway
- Existing "A" Roads
- Existing Local Roads
- Proposed Road Profile

Level Datum = -30.000



PROFILE

SCALE 1:10,000H, 1:5,000V

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FINAL ISSUE

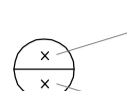

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												<p>URS Internal Project No.</p> <p>47065084</p>	<p>Scale @ A1</p> <p>1:10,000H, 1:5,000V</p>	<p>Zone / Mileage</p>	<p>This document has been prepared in accordance with the scope of URS' appointment with its client and is subject to the terms of that appointment. URS accepts no liability for any use of this document other than by its client and only for the purposes for which it was prepared and provided. Only written dimensions shall be used.</p> <p>© URS Infrastructure & Environment Limited</p>				

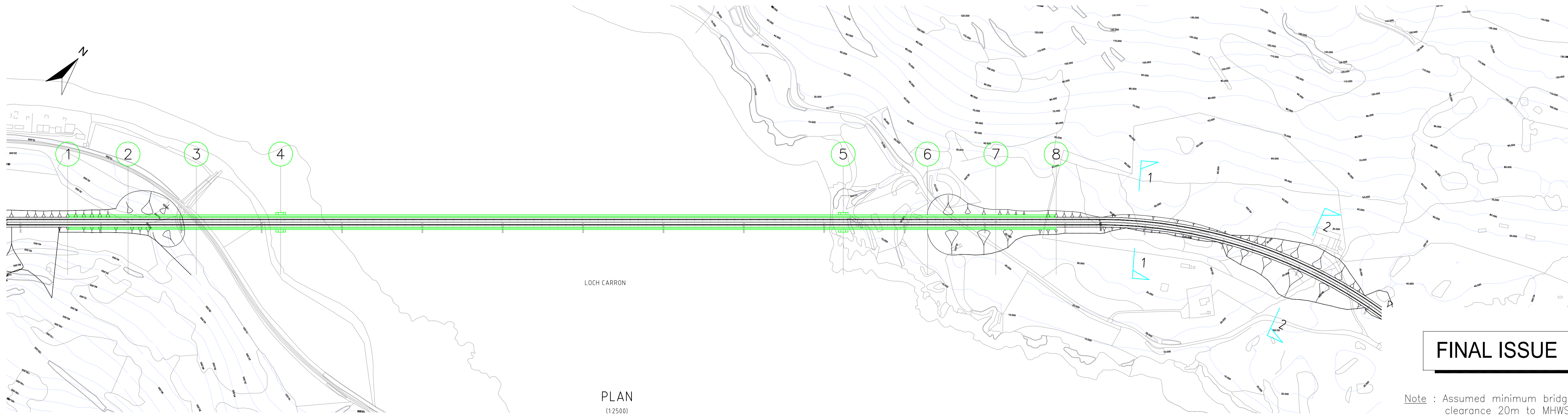
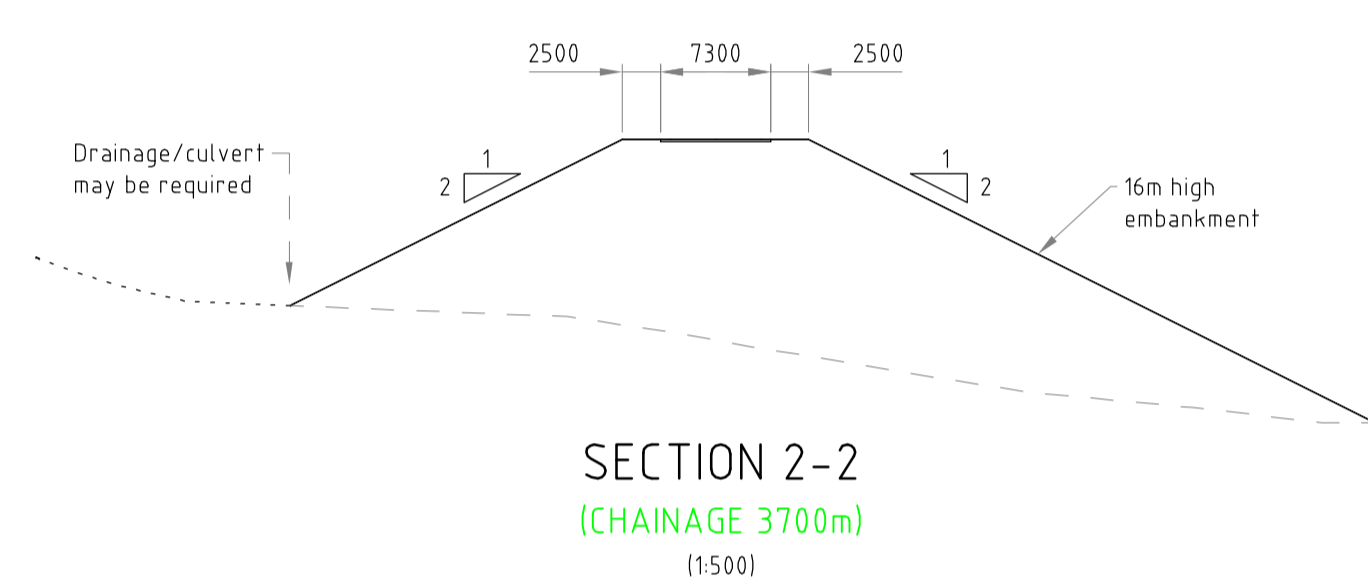
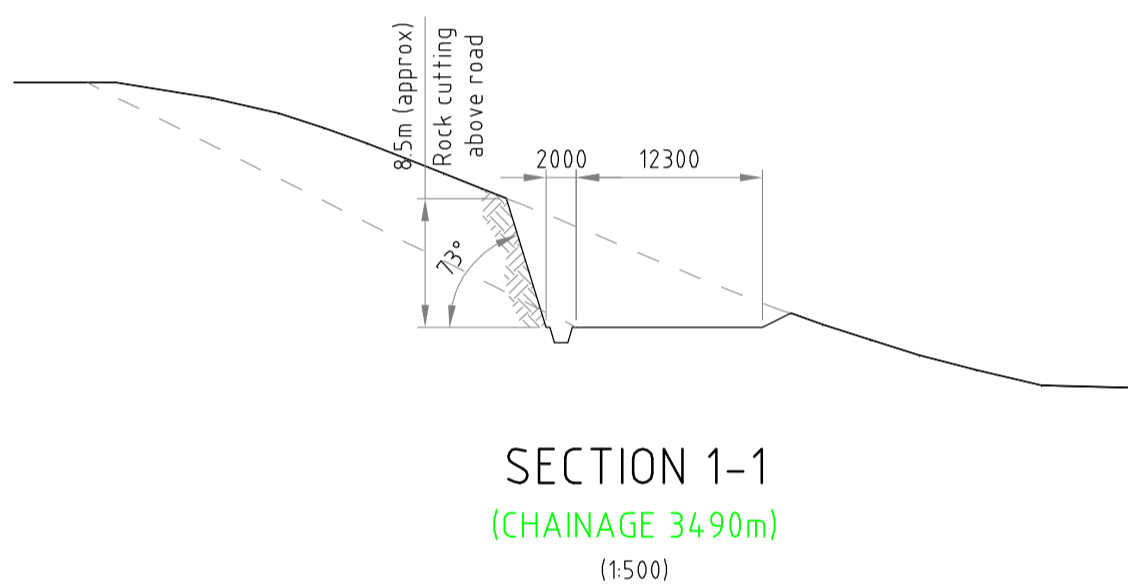
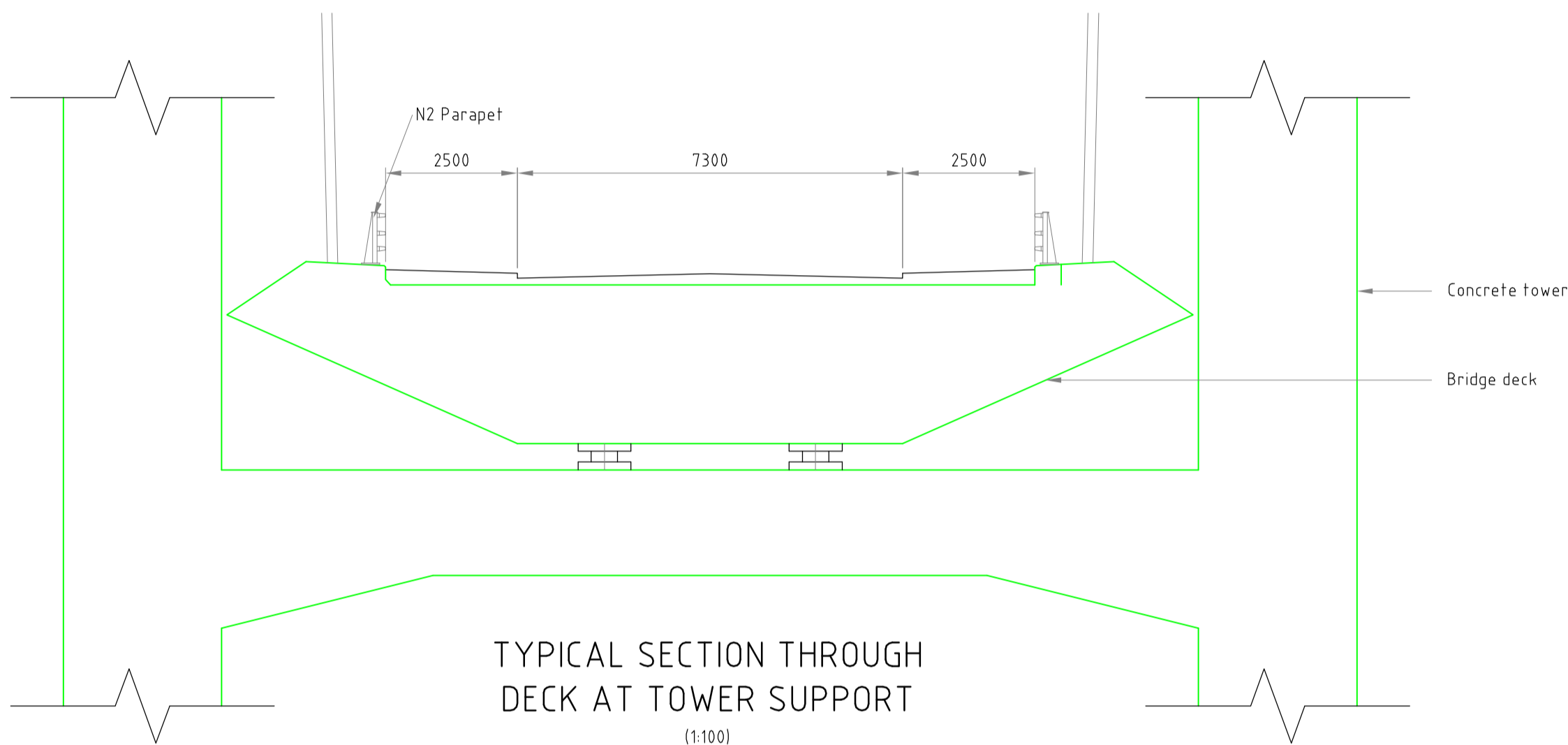
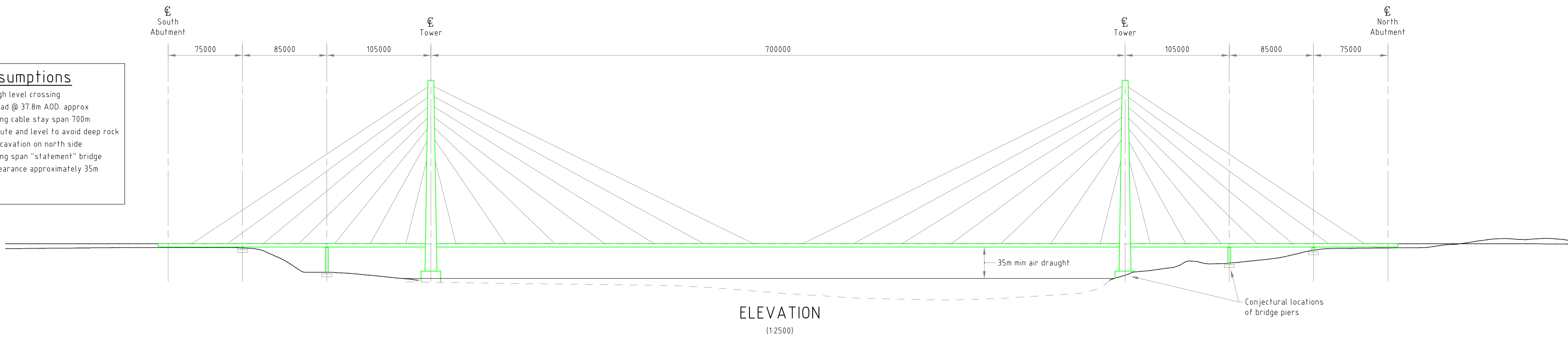
Assumptions

- High level crossing
- Road @ 37.8m AOD, approx
- Long cable stay span 700m
- Route and level to avoid deep rock excavation on north side
- Long span "statement" bridge
- Clearance approximately 35m

(TBC)

Key

1. All dimensions are in millimetres.
2. All exposed arrises to have 25x25 chamfers unless noted otherwise.
3. Details are referenced thus :
 Detail reference
 Drawing number
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FINAL ISSUE

Note : Assumed minimum bridge clearance 20m to MHWS

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Purpose of Issue
FINAL ISSUE

Client
The Highland Council
Comhairle na Gàidhealtachd

Project Title
STROME FERRY APPRAISAL STAGE 2

Drawing Title
Strome Narrows Crossing High Level Bridge Option

Drawn JH	Checked JL	Approved DT	Date MARCH 2014
URS Internal Project No. 47065084		Subsidiary	
Scale @ A1 1:25,000, 1:1000, 1:500		Zone / Mileage	

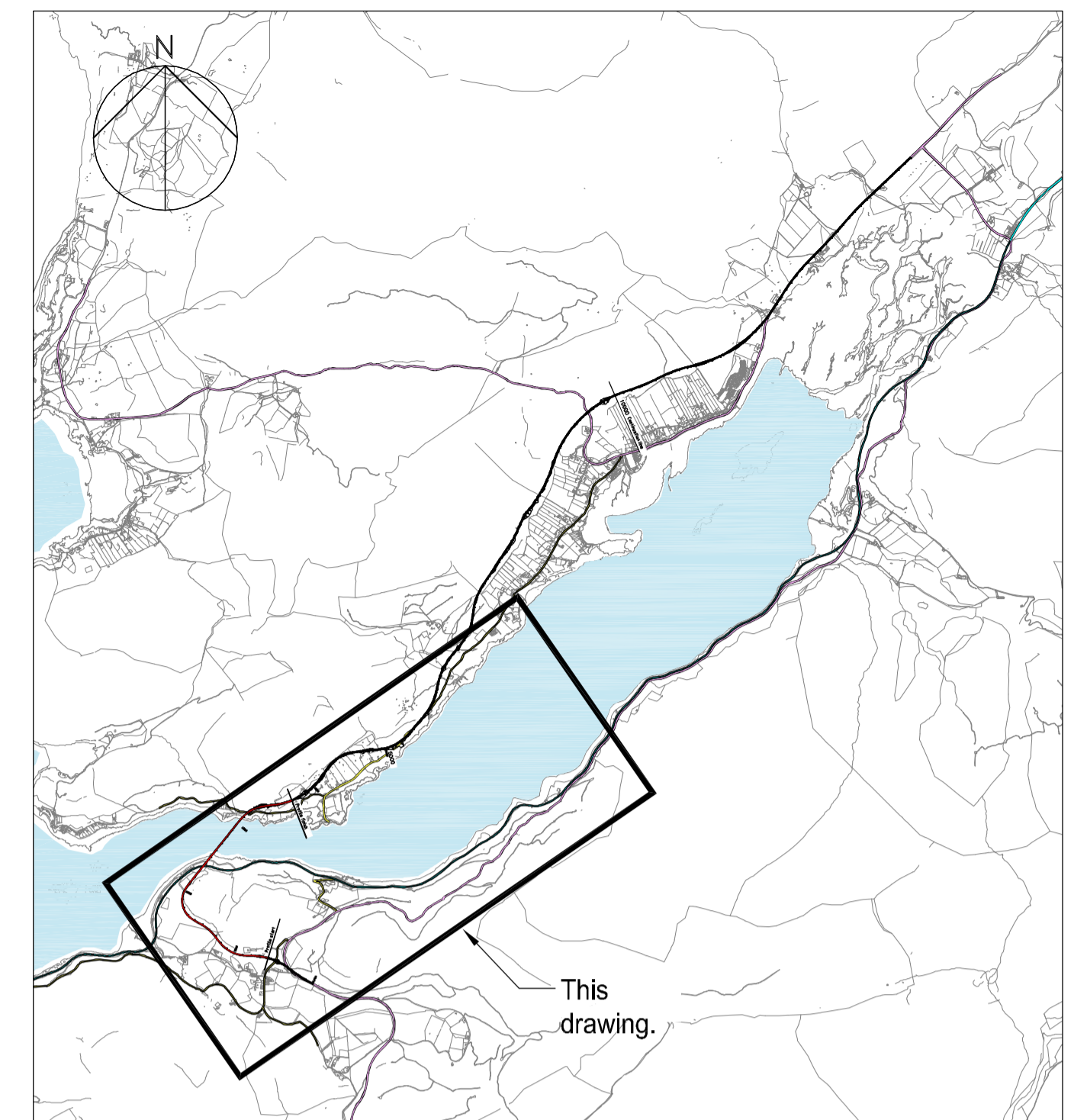
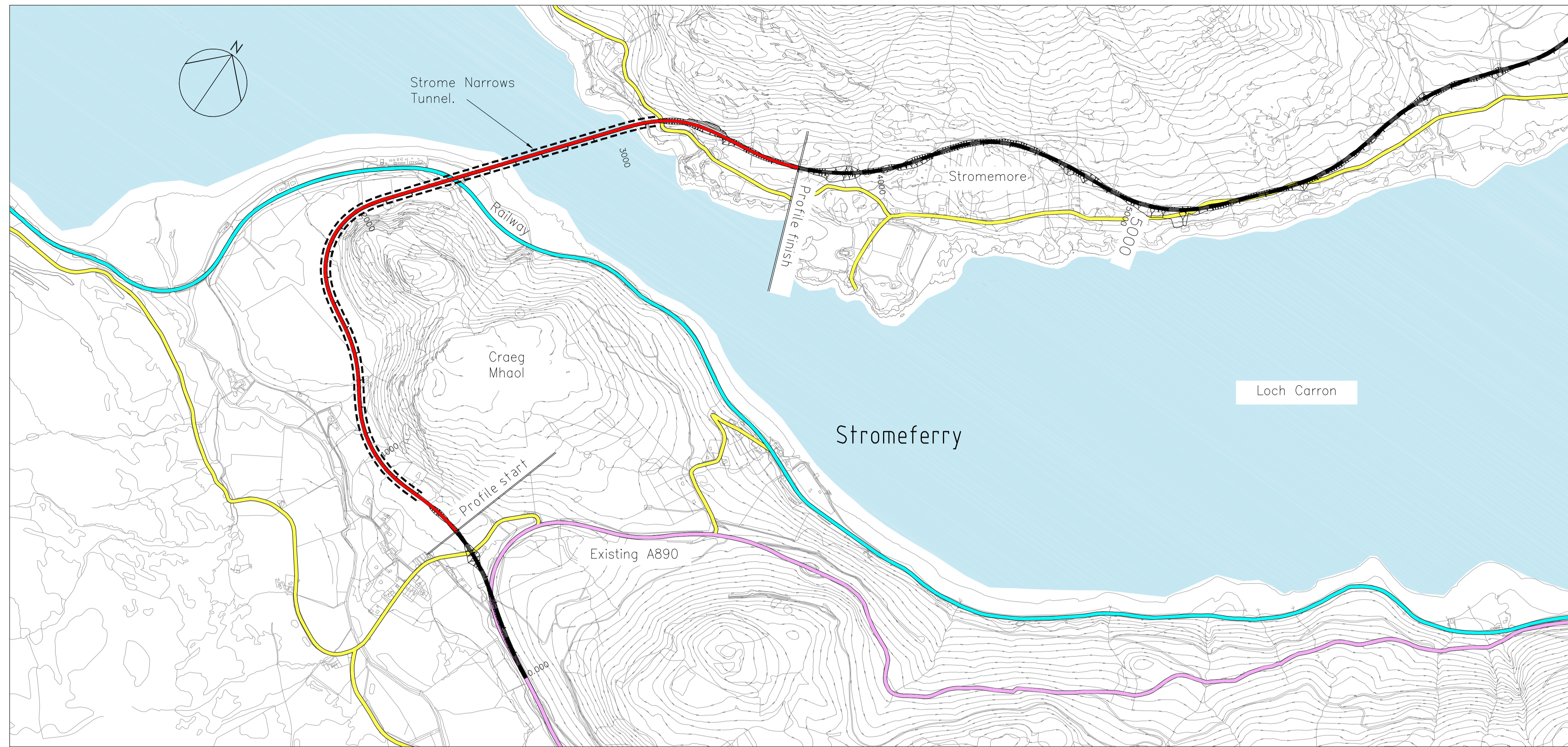
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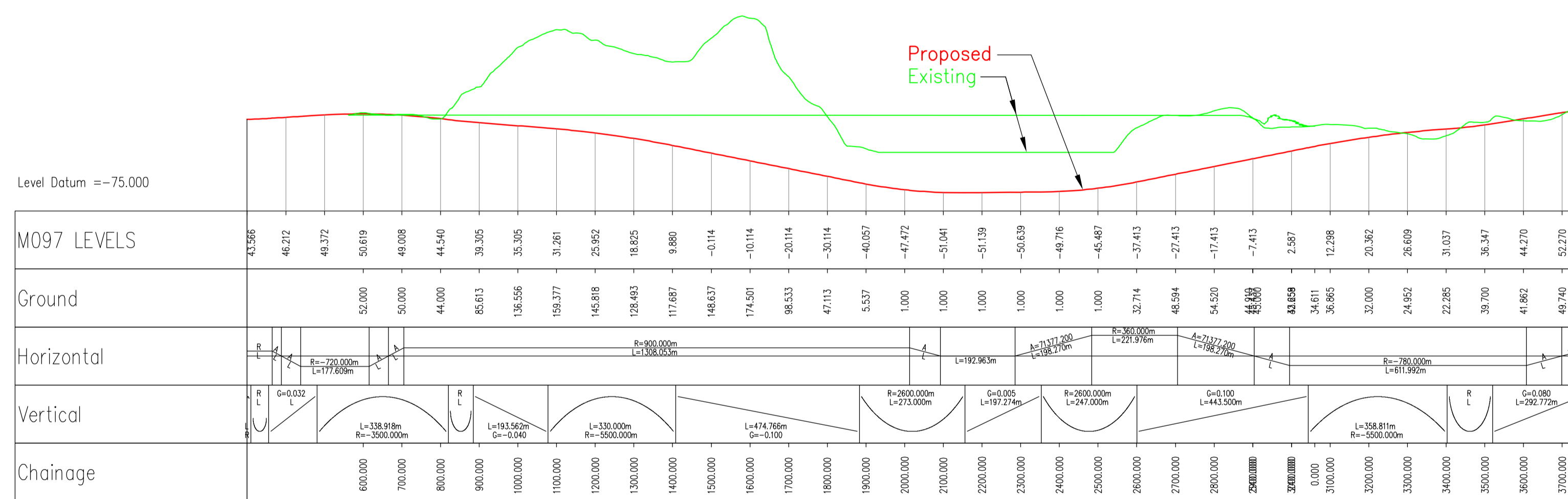


KEY PLAN

- KEY
- Existing Railway
 - Existing "A" Roads
 - Existing Local Roads
 - Proposed Road Profile this drawing
 - - - Proposed Road Profile

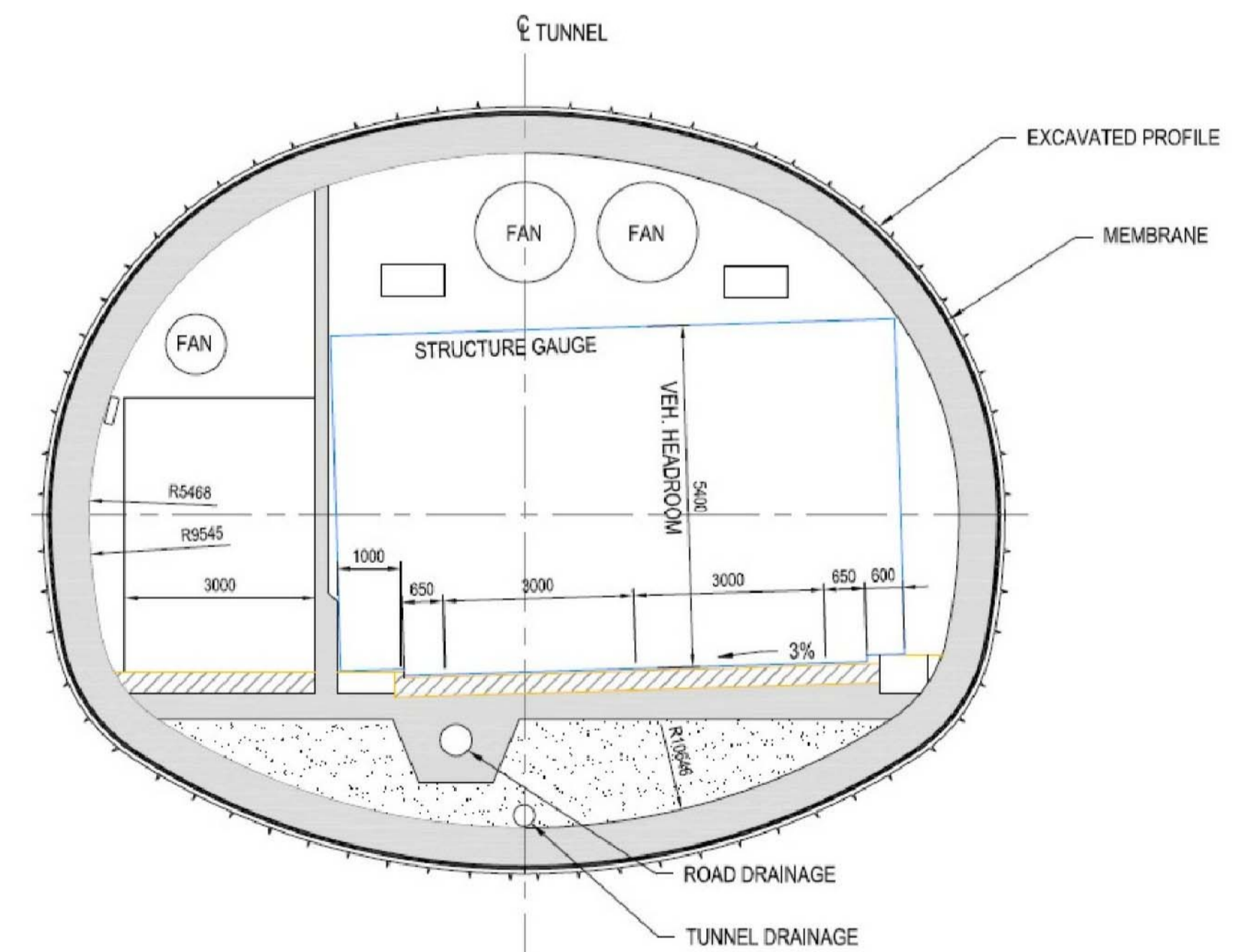
PLAN

SCALE 1:10,000



PROFILE

SCALE 1:10,000H, 1:5000V



TUNNEL PROFILE (IN-DRAINED LINING)

SCALE NTS

FINAL ISSUE

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Purpose of issue

FINAL ISSUE

Client

The Highland Council
Comhairle na Gàidhealtachd

Project Title

STROME FERRY
STAGE 2

Drawing Title

PROPOSED TUNNEL PROFILE
AT STOME NARROWS

Drawn	Checked	Approved	Date
JH	JL	DT	MARCH 2014
URS Internal Project No. 47065084			
Scale @ A1 1:10,000H, 1:5,000V			
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