



A9 Dualling Programme: Pass of Birnam to Tay Crossing

DMRB Stage 2 Scheme Assessment Report

Volume 2: Engineering Drawings

A9P02-JAC-ZZZ-Z_ZZZZZ_ZZ-RP-ZZ-0017 | C03

October 2023

Transport Scotland

TS/MTRIPS/SER/2013/03

A9 Dualling Programme: Pass of Birnam to Tay Crossing

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Jacobs U.K. Limited

95 Bothwell Street
Glasgow, Scotland G2 7HX
United Kingdom
T +44 (0)141 243 8000
F +44 (0)141 226 3109
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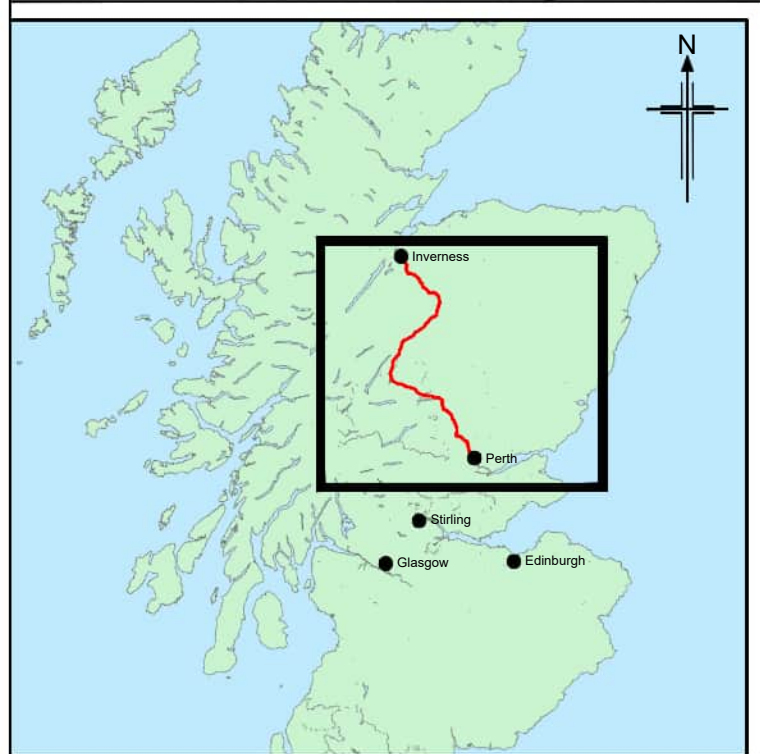
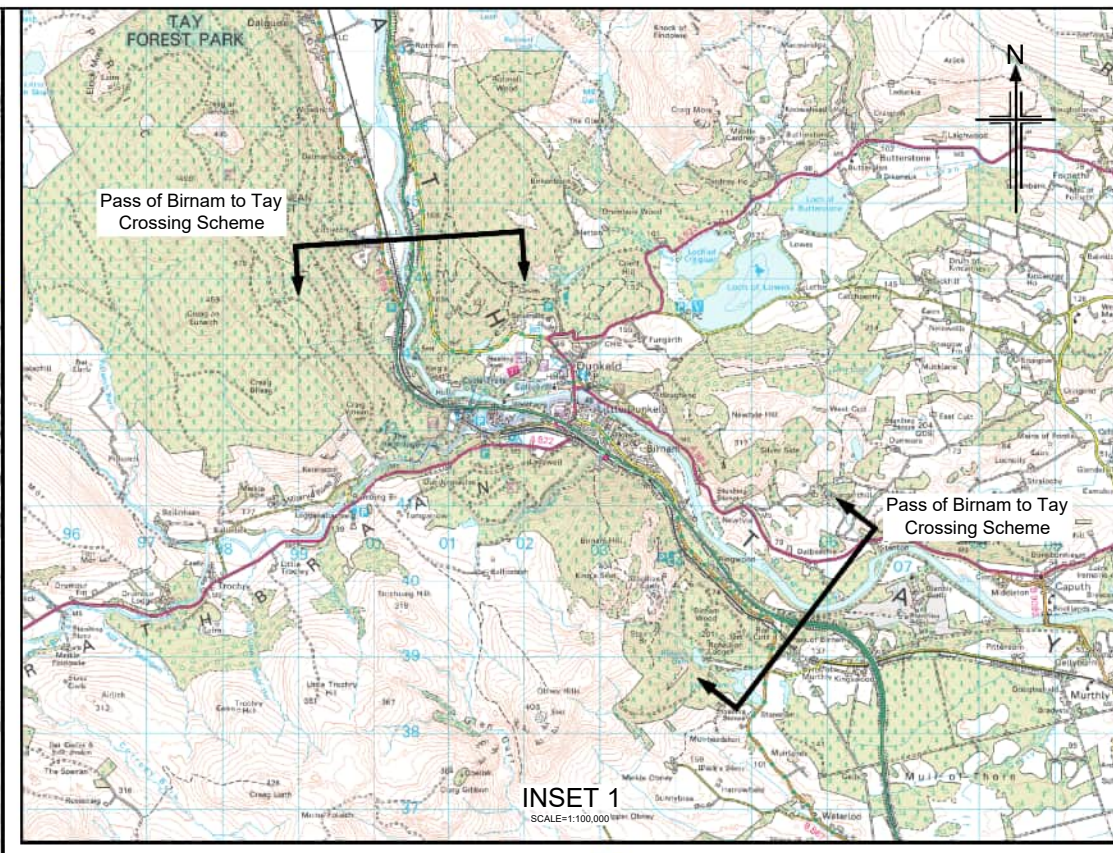
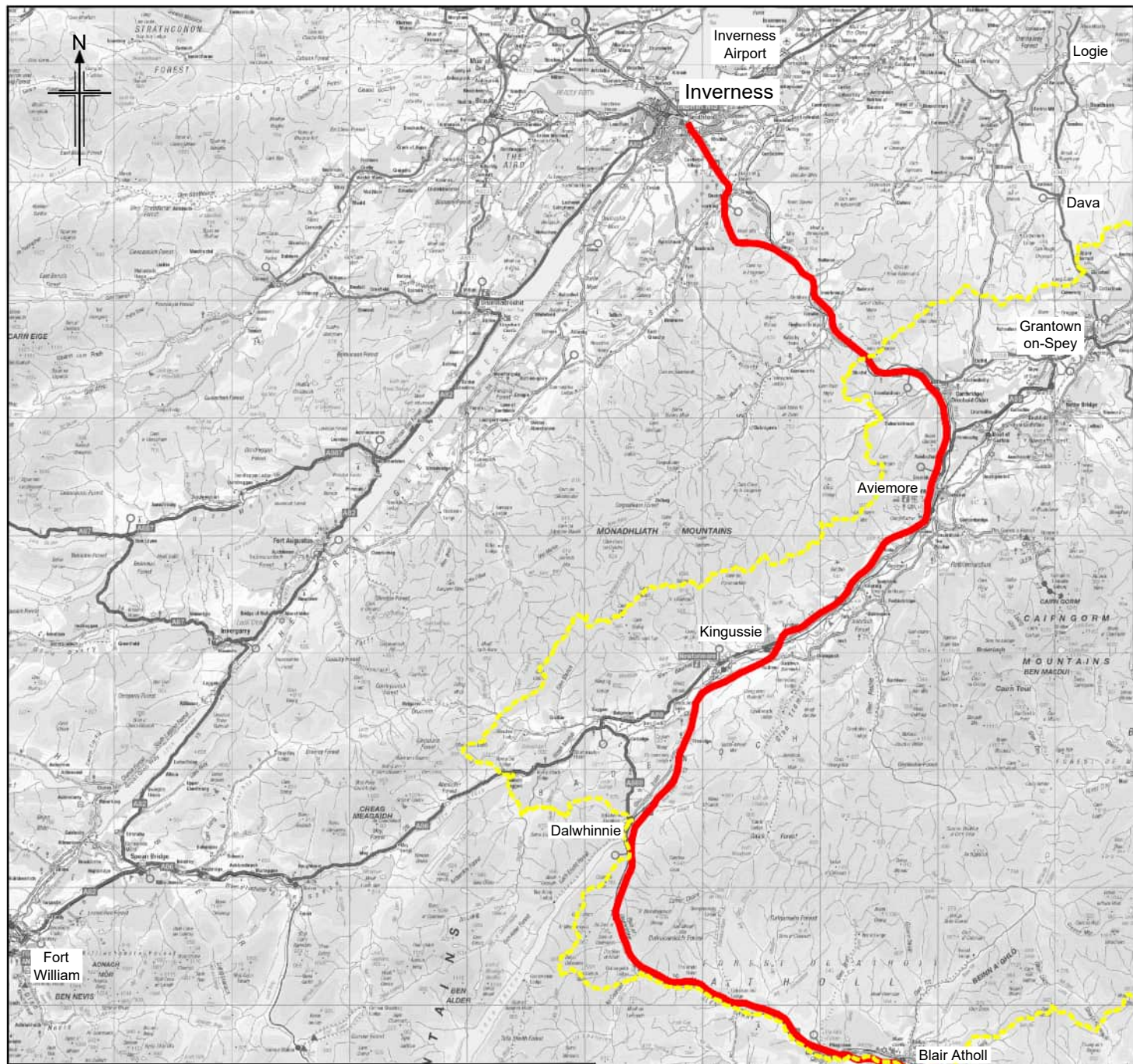
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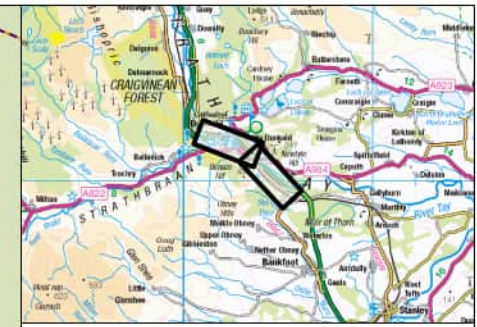
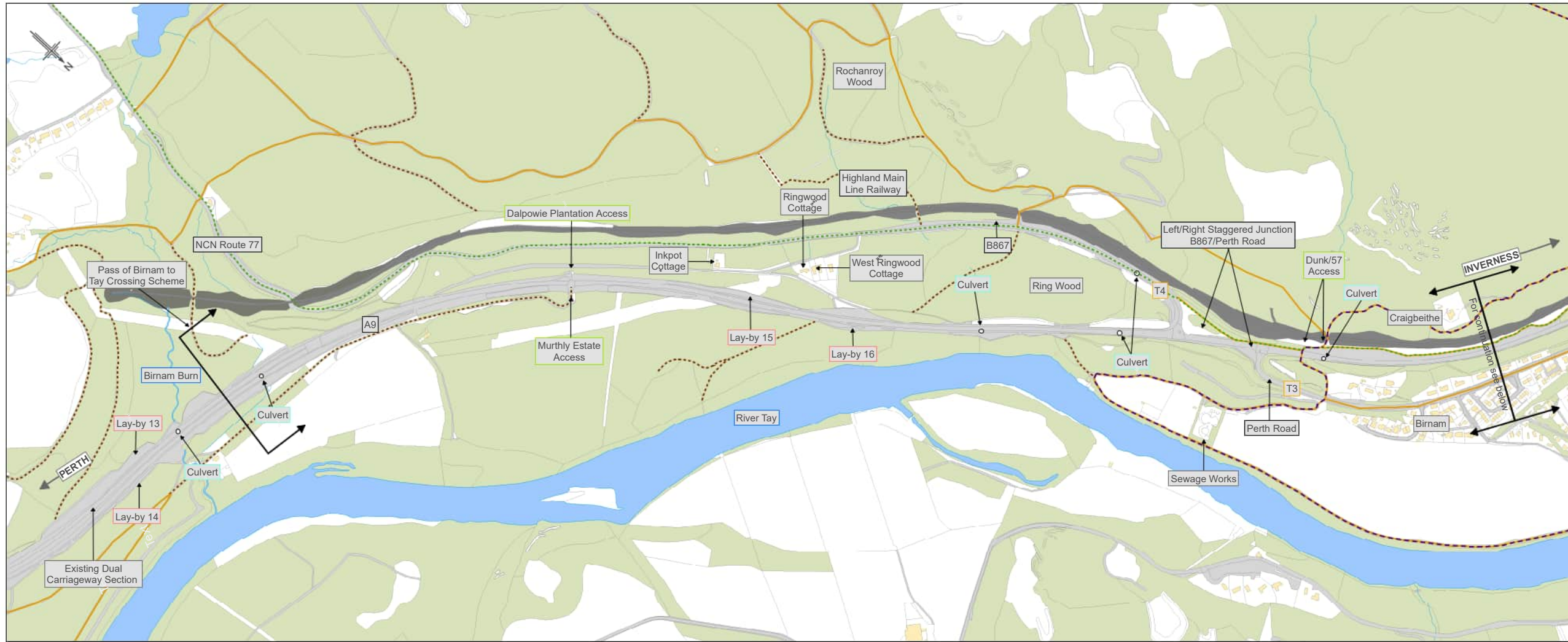
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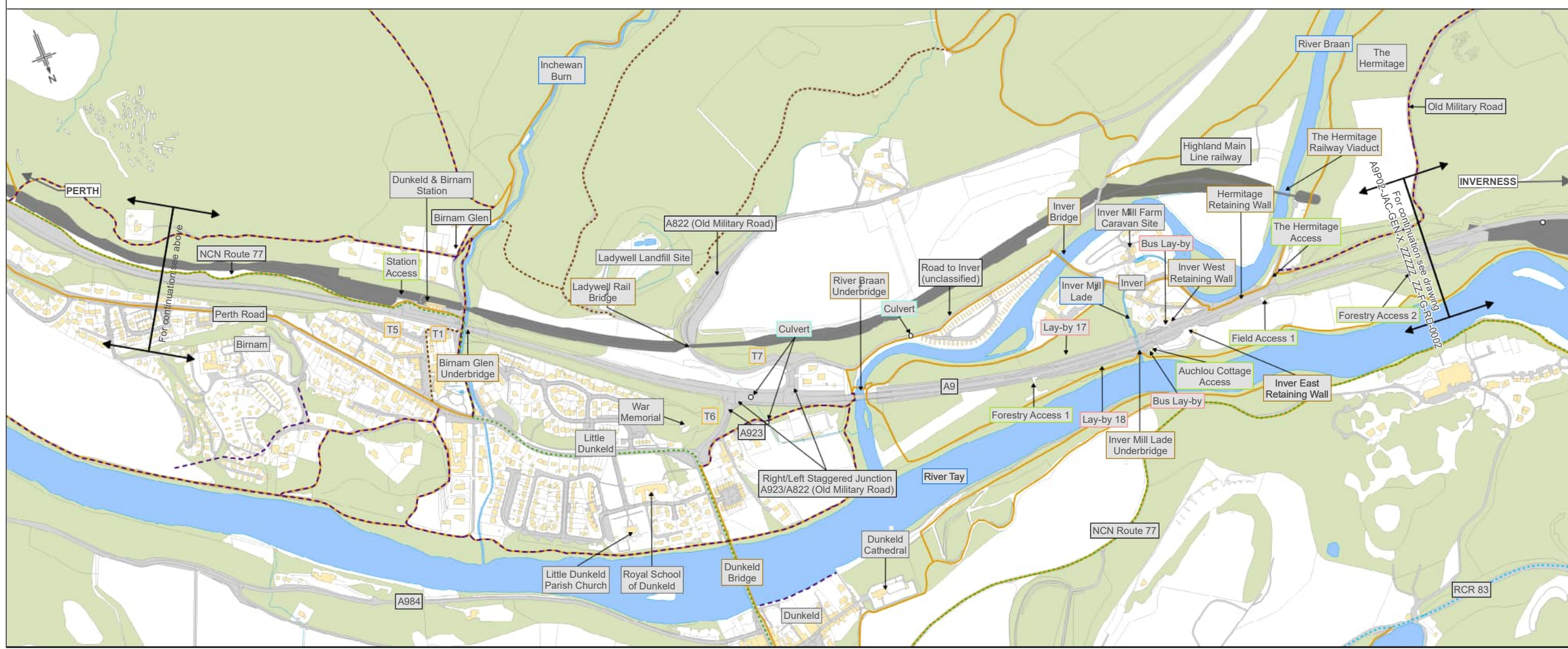


Drawing title
**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 LOCATION PLAN
 SHEET 1 OF 1**

Drawing status	A - APPROVED AS STAGE COMPLETE	
Scale	AS SHOWN@A3	DO NOT SCALE
Jacobs No.	B2140002	
Drawing number	A9P02-JAC-GEN-X_ZZZZ_XX-FG-RD-0001	Rev
		C01



- ### Legend
- Watercourse
 - Culvert
 - Lay-by
 - Access
 - Structure
 - Transport link
 - Traffic count data
 - Other feature
 - Rights of Way
 - National Cycle Network (NCN) Route
 - Regional Cycle Route (RCR)
 - Core Path
 - Local Path
 - Culvert



Rev.	Rev. Date	Purpose of revision	HCH	AJB	KS	AJG
C01	07/03/2022	Approved				

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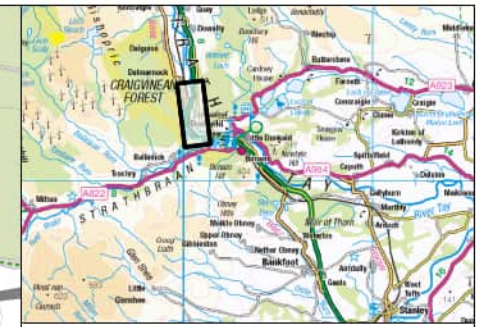
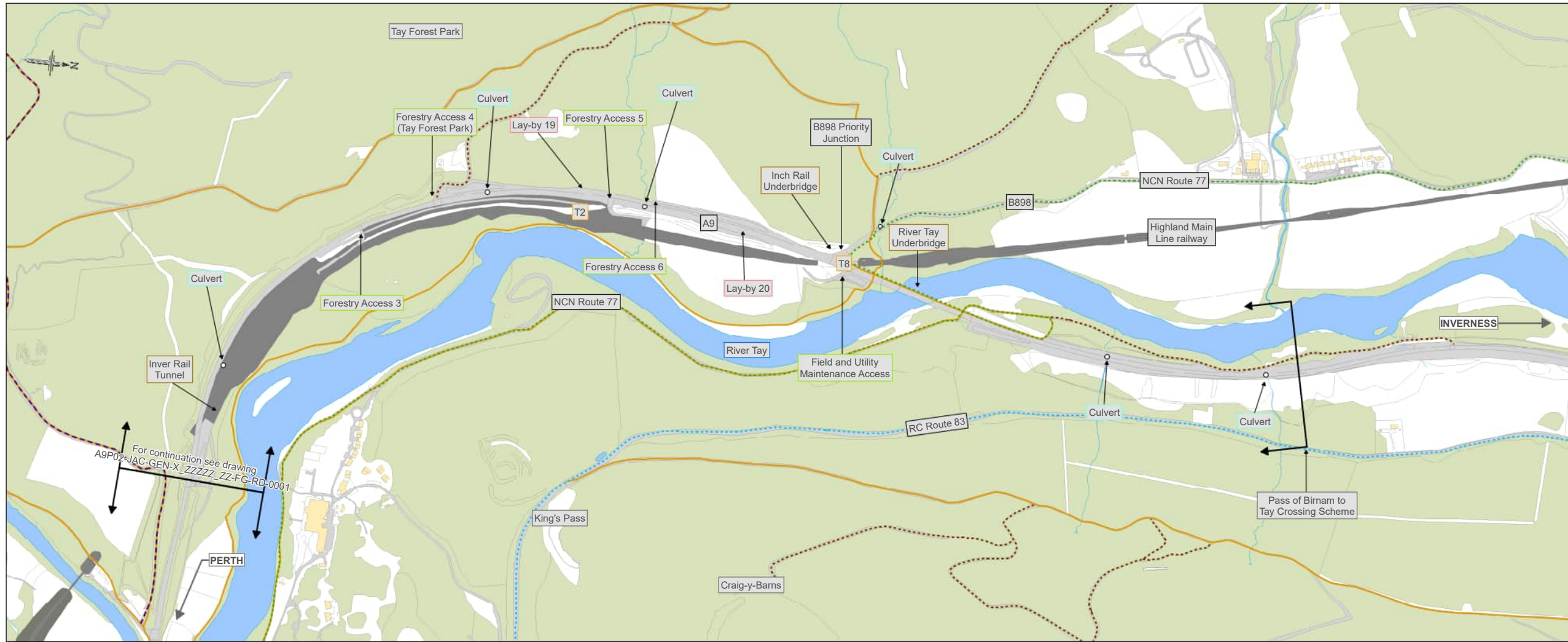
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- Legend**
- Watercourse
 - Culvert
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For continuation see drawing
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 EXISTING CONDITIONS
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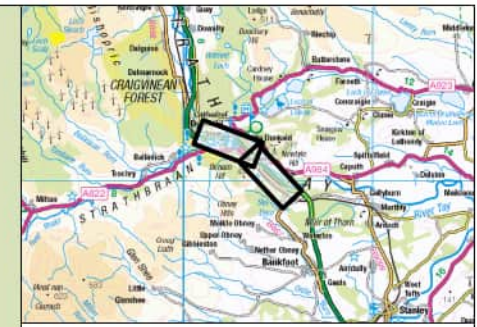
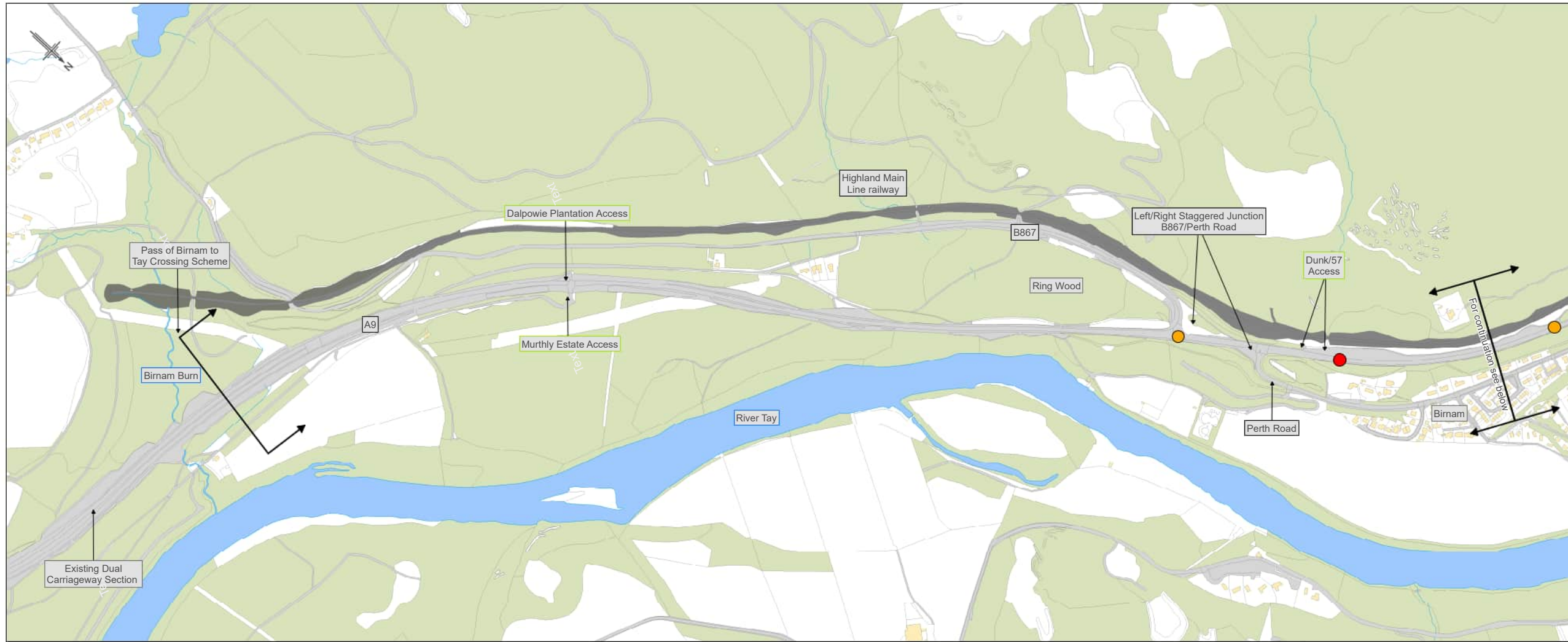
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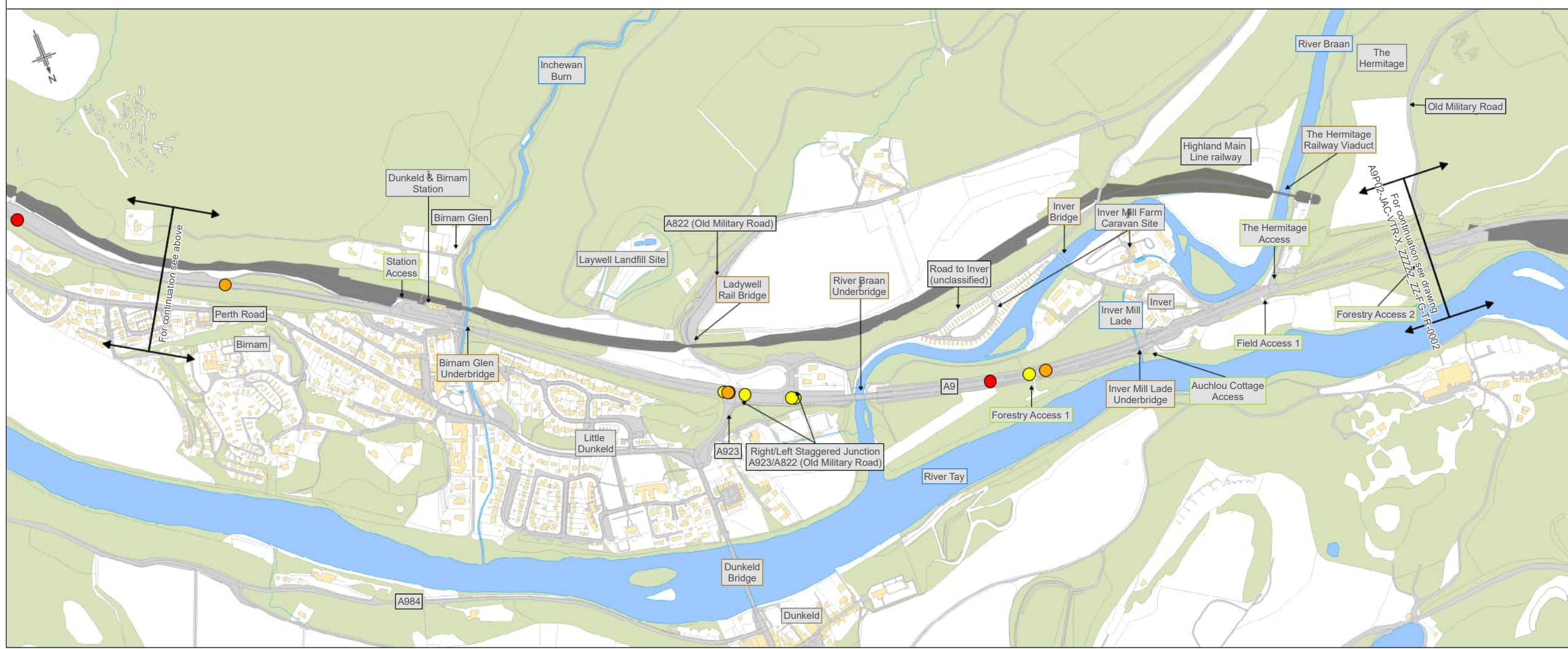
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- Legend**
- Watercourse
 - Structure
 - Transport link
 - Other feature
 - Access
 - Slight accident
 - Serious accident
 - Fatal accident



Notes:
1) Accident data noted is for the period 1st January 2015 to 31st December 2019.

Rev	Rev. Date	Purpose of revision	HCH	AJB	KS	AJG
C01	07/03/2022	Approved				
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PERSONAL INJURY ACCIDENTS
SHEET 1 OF 2**

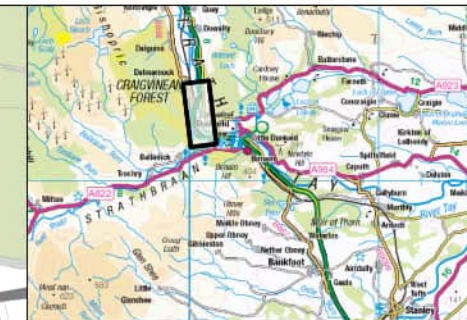
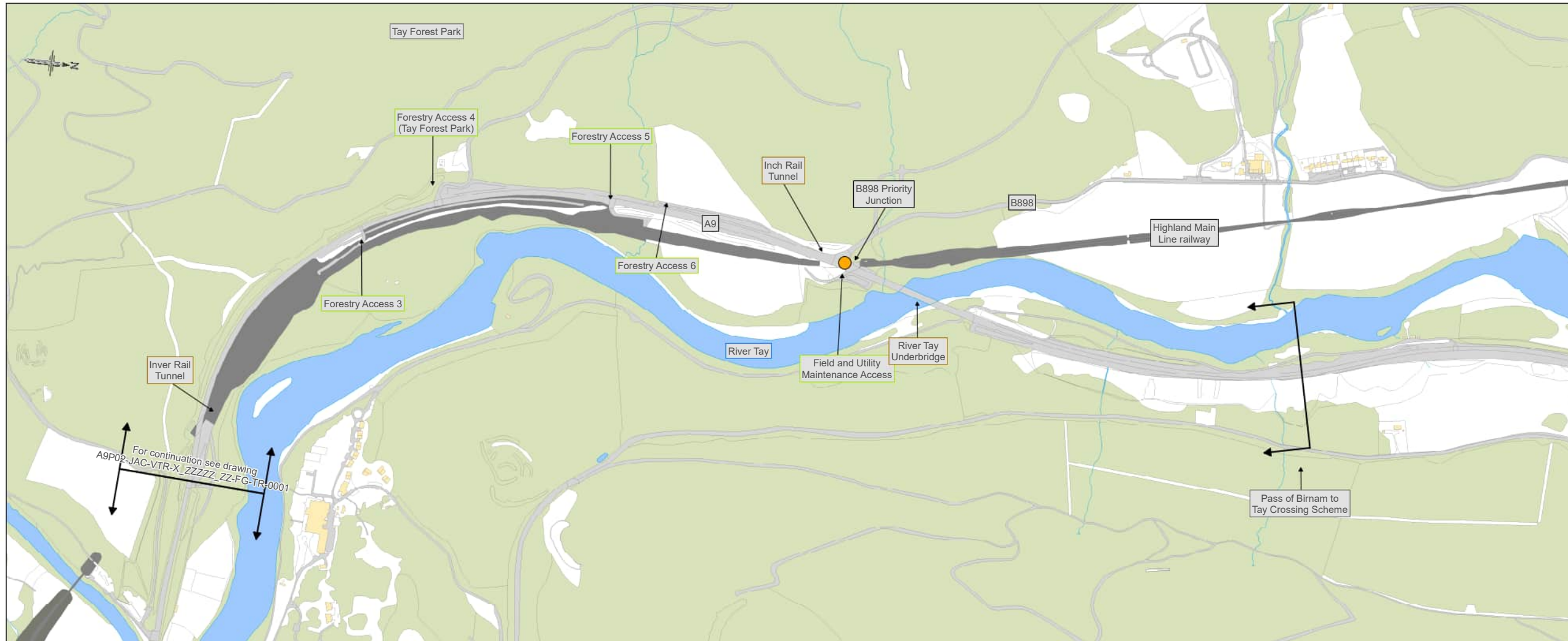
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Legend

- Watercourse
- Structure
- Transport link
- Other feature
- Access
- Slight accident
- Serious accident
- Fatal accident

For continuation see drawing
A9P02-JAC-VTR-X_ZZZZZ_ZZ-FG-TR-0001

Notes:
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PERSONAL INJURY ACCIDENTS
SHEET 2 OF 2**

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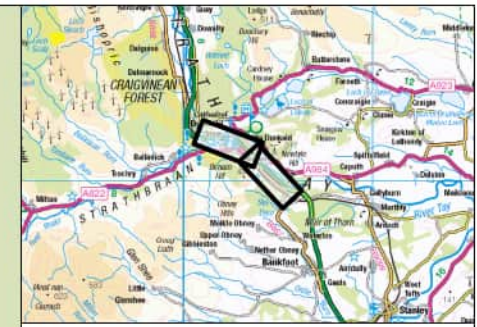
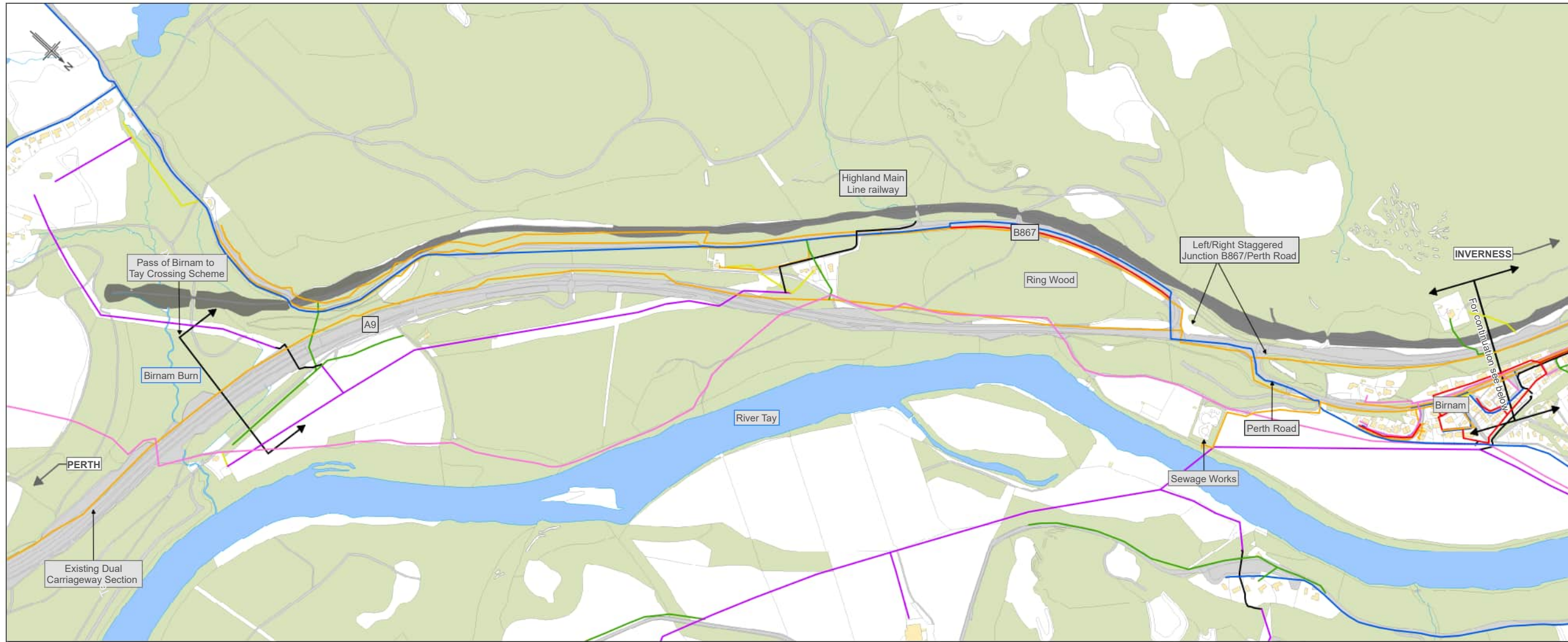
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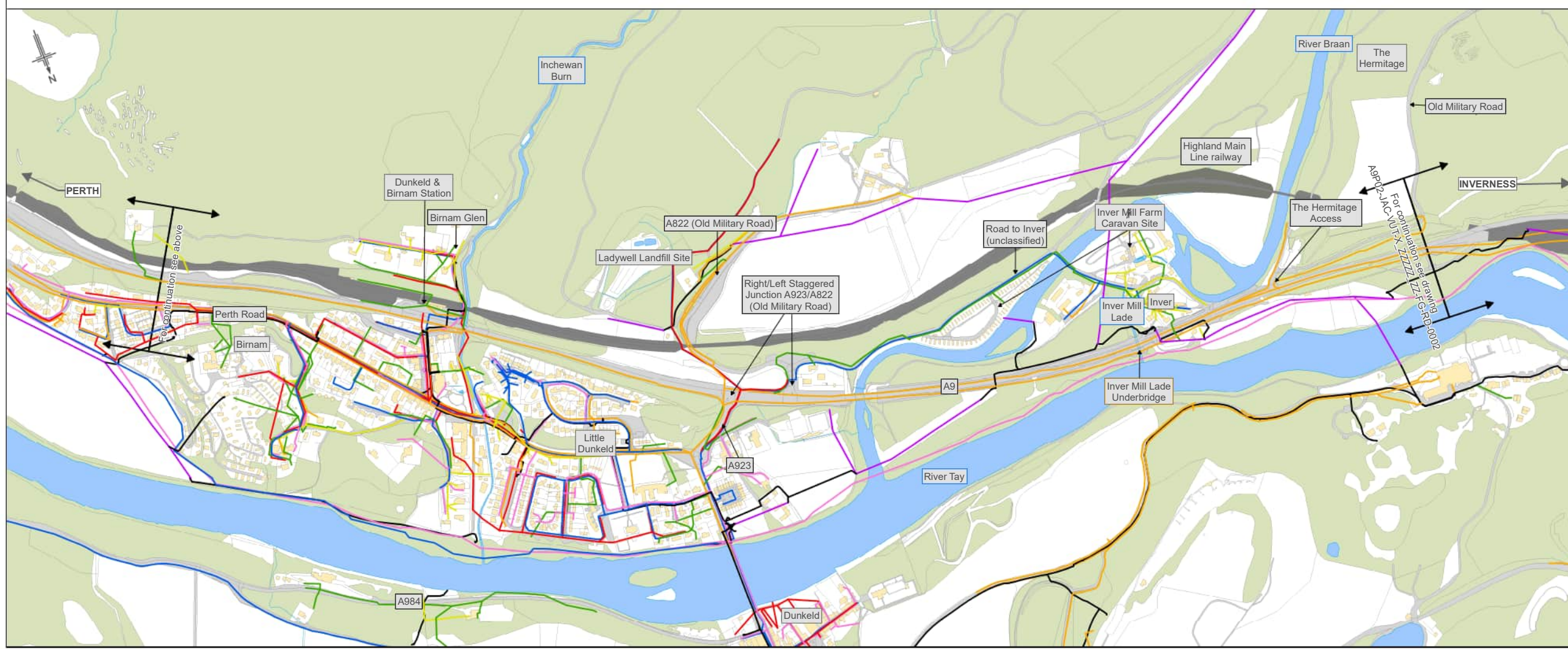
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- Legend**
- Watercourse
 - Structure
 - Transport link
 - Other feature
 - BT Overhead Cable
 - BT Underground Cable
 - Scottish Water Main
 - Scottish Water Combined Sewer
 - SSE Overhead High Voltage Cable
 - SSE Overhead Low Voltage Cable
 - SSE Underground High Voltage Cable
 - Gas Lines
 - Mobile Telecommunications Mast



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 EXISTING UTILITIES
 SHEET 1 OF 2**

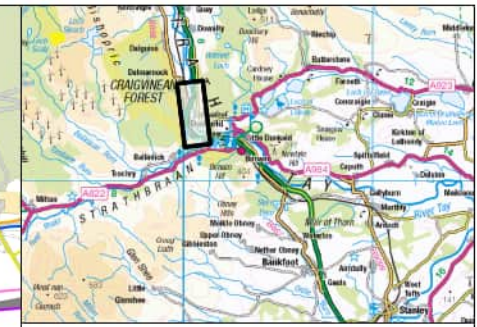
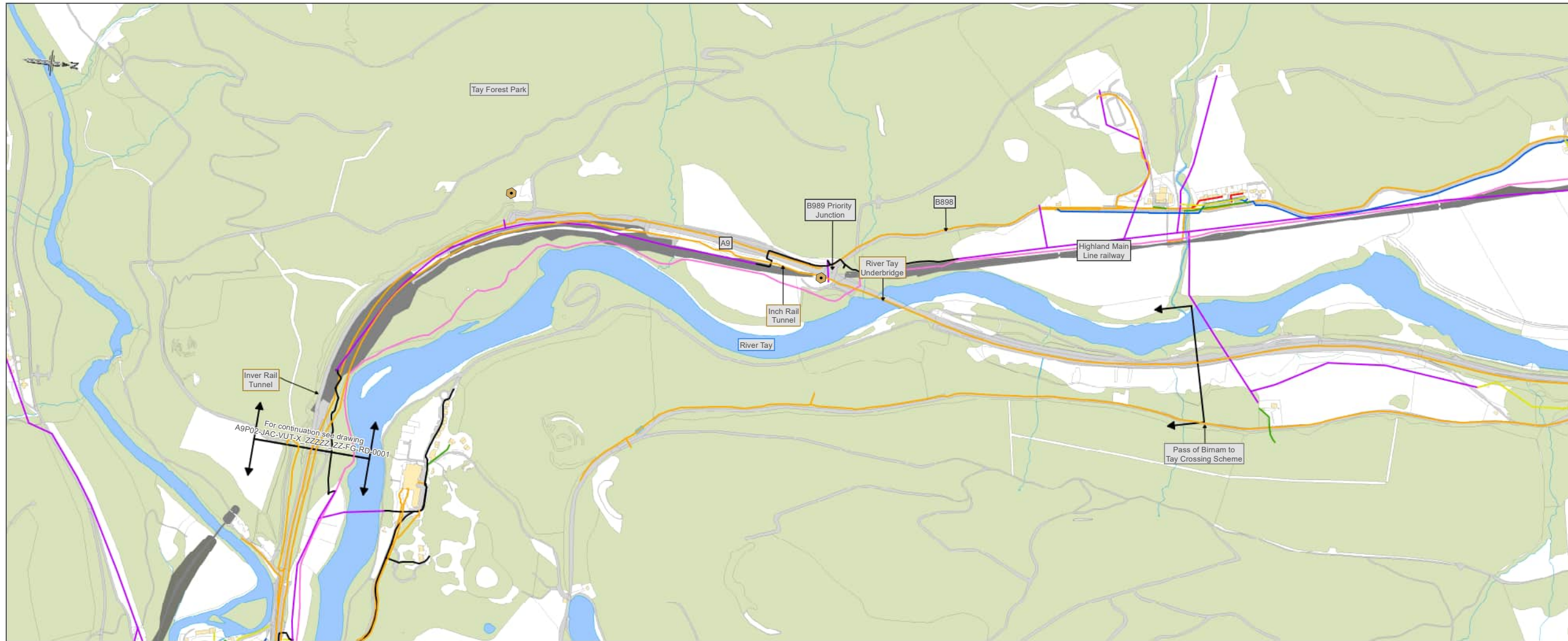
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- Legend**
- Watercourse
 - Structure
 - Transport link
 - Other feature
 - BT Overhead Cable
 - BT Underground Cable
 - Scottish Water Main
 - Scottish Water Combined Sewer
 - SSE Overhead High Voltage Cable
 - SSE Overhead Low Voltage Cable
 - SSE Underground High Voltage Cable
 - Gas Lines
 - Mobile Telecommunications Mast

Inver Rail Tunnel
 For continuation see drawing
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Pass of Birnam to
 Tay Crossing Scheme

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 EXISTING UTILITIES
 SHEET 2 OF 2**

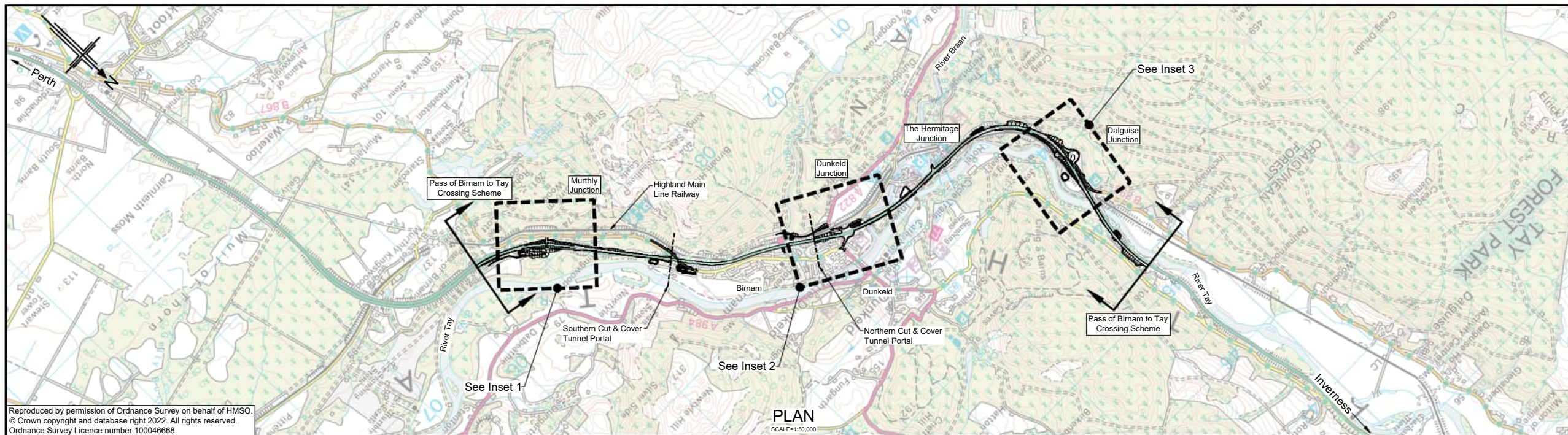
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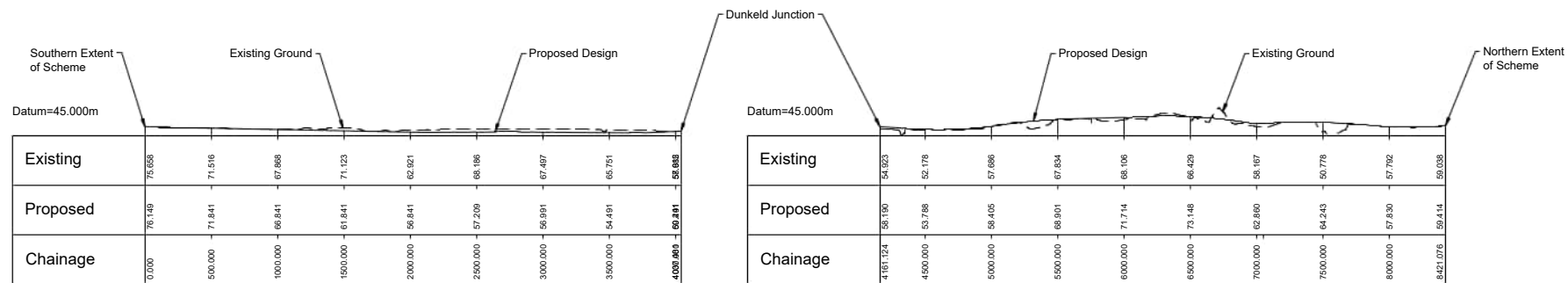
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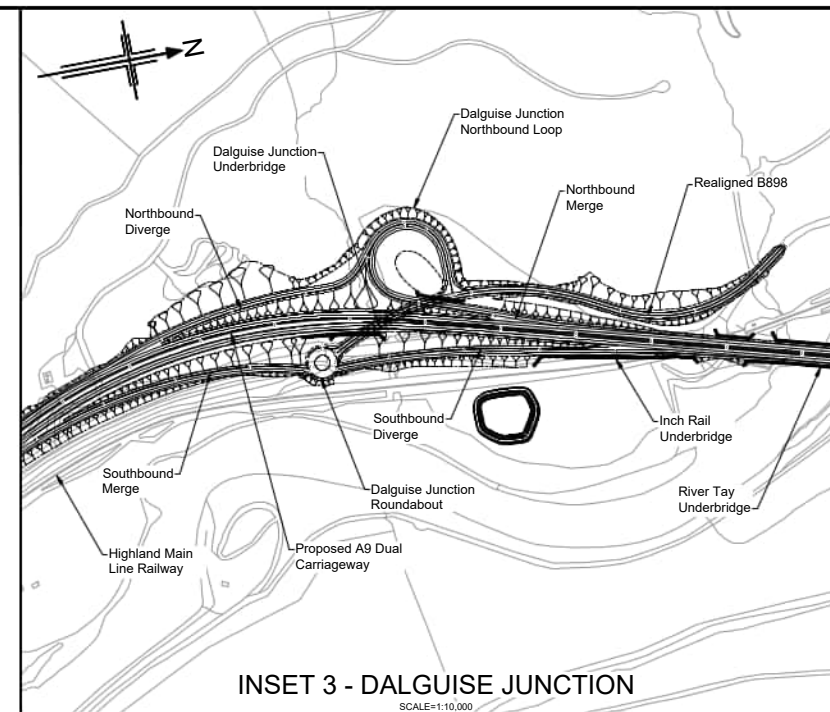
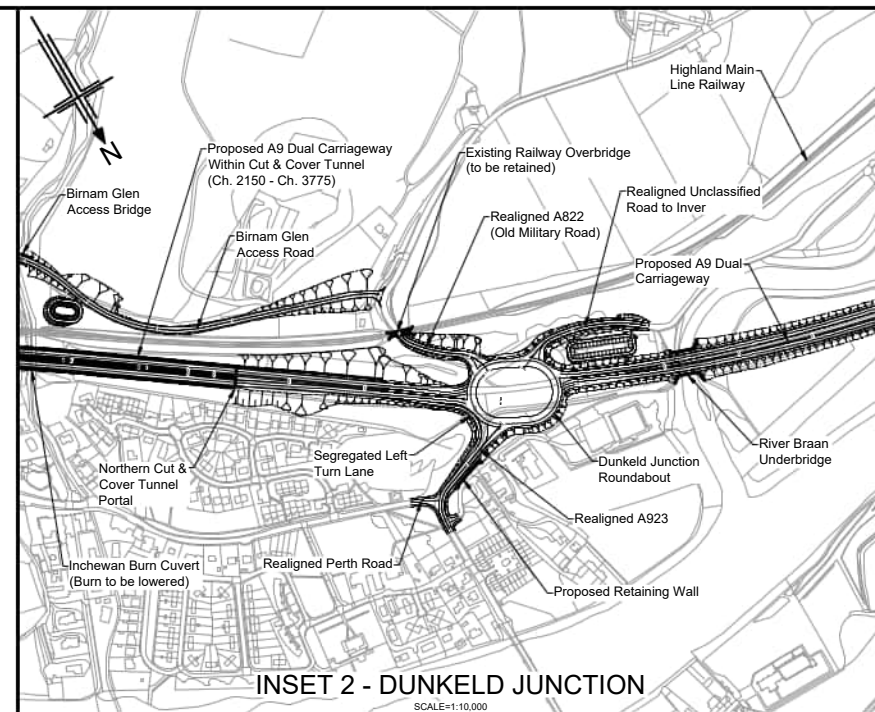
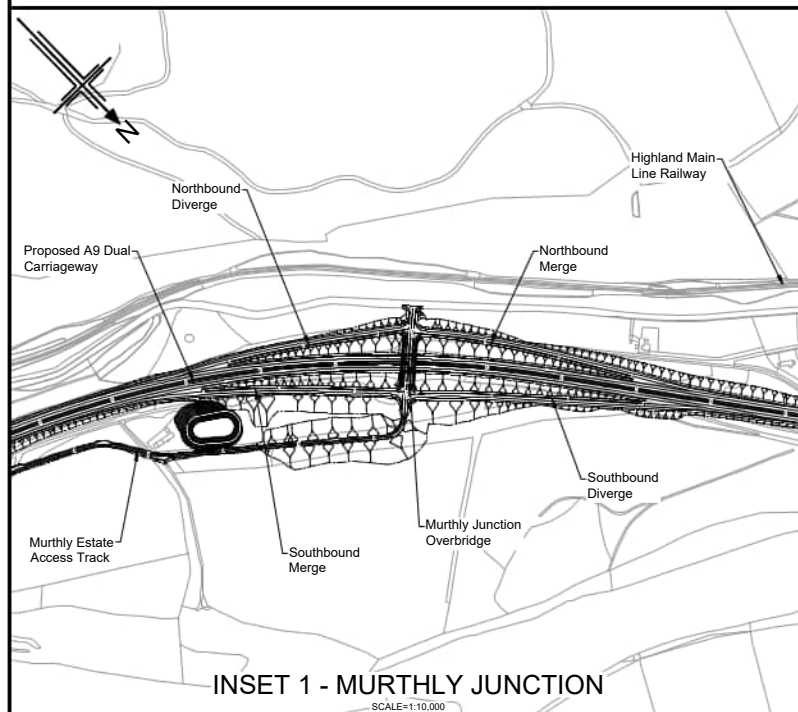


- Legend:
- A9 Route Option
- Notes:
1. Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.



PROFILES (A9 DUAL CARRIAGEWAY)

HORIZONTAL SCALE = 1:50,000
VERTICAL SCALE = 1:10,000



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www.jacobs.com

Client

TRANSPORT SCOTLAND
COMHAIL ALBA

Project

A9
DUALLING
PERTH TO INVERNESS
Pass of Birnam to Tay Crossing

Drawing title

DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2A
PLAN AND PROFILES
CH. 0 - CH. 8421.076, SHEET 1 OF 1

Drawing status

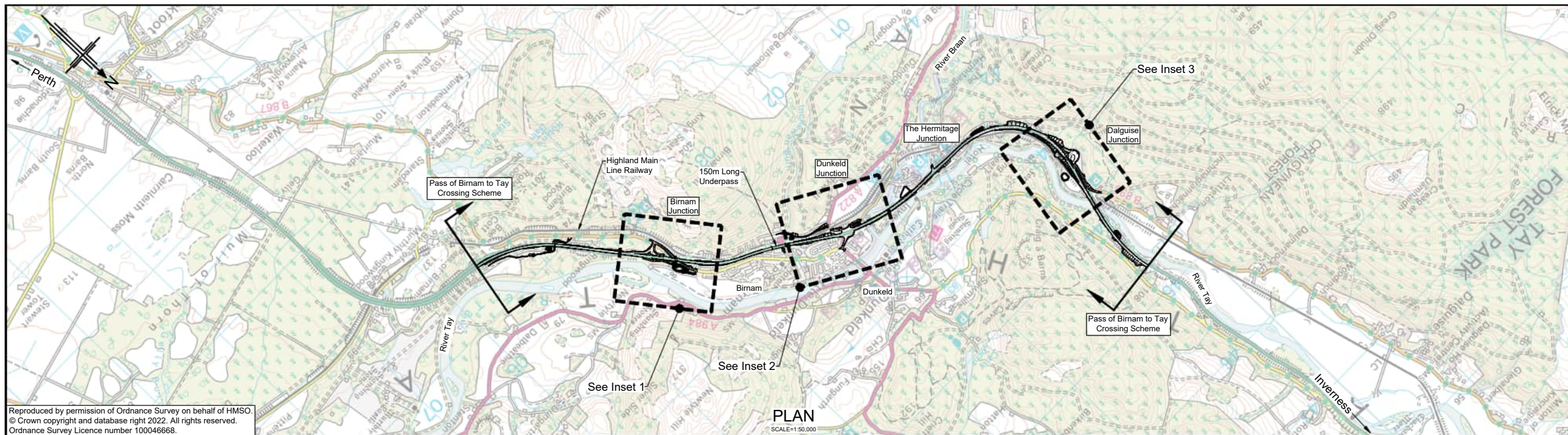
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Scale AS SHOWN@A3 DO NOT SCALE

Jacobs No. B2140002

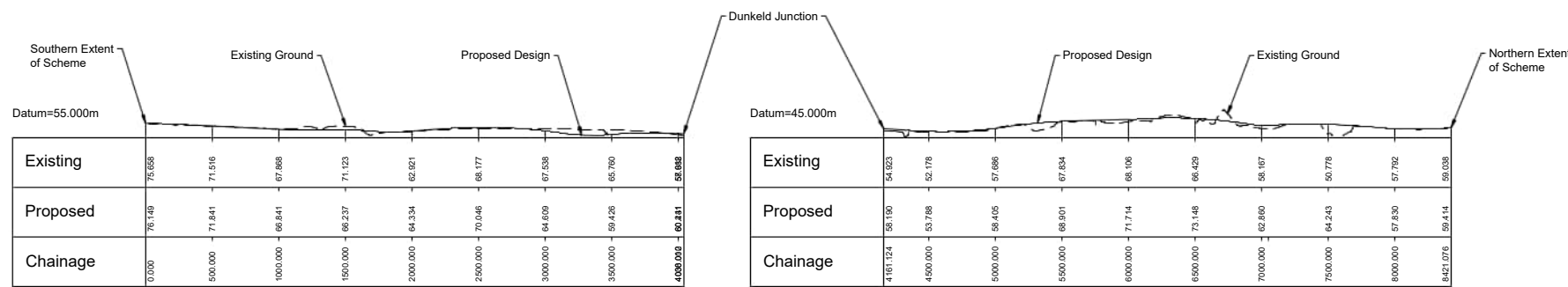
Drawing number A9P02-JAC-HGN-A_ZZZZZ_ZZ-FG-RD-0001 Rev C01

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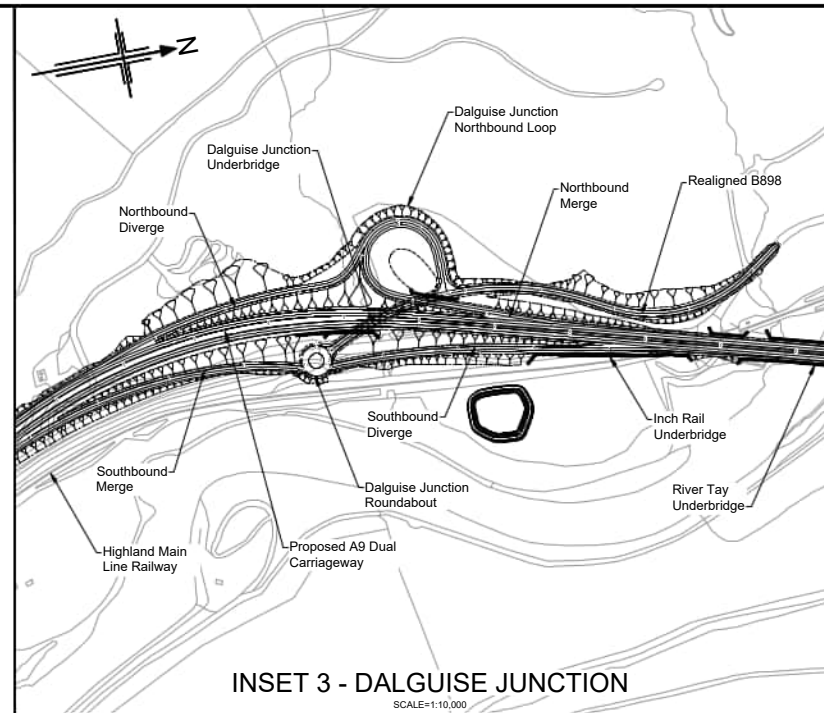
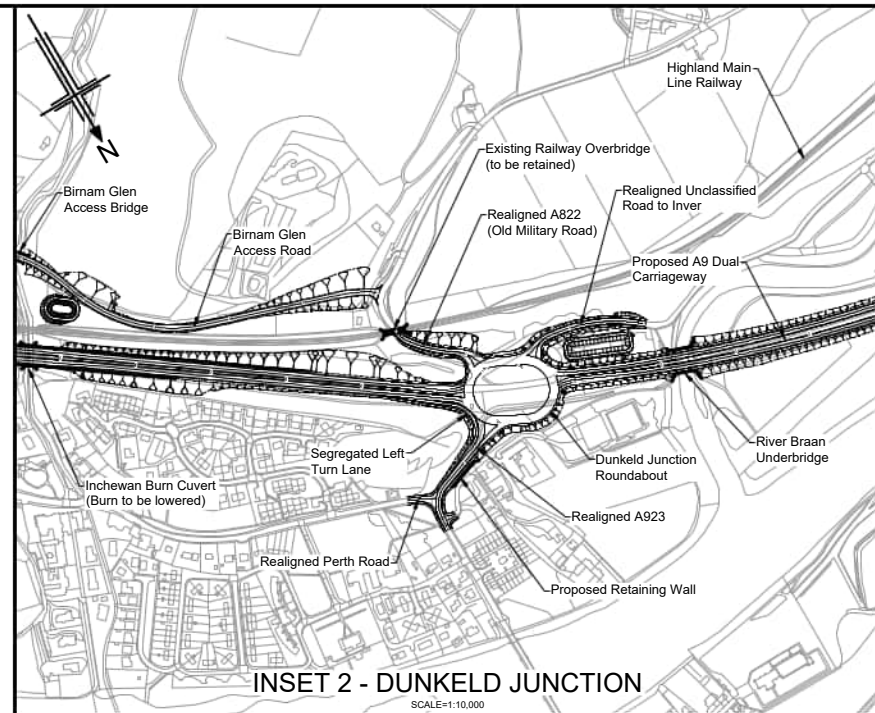
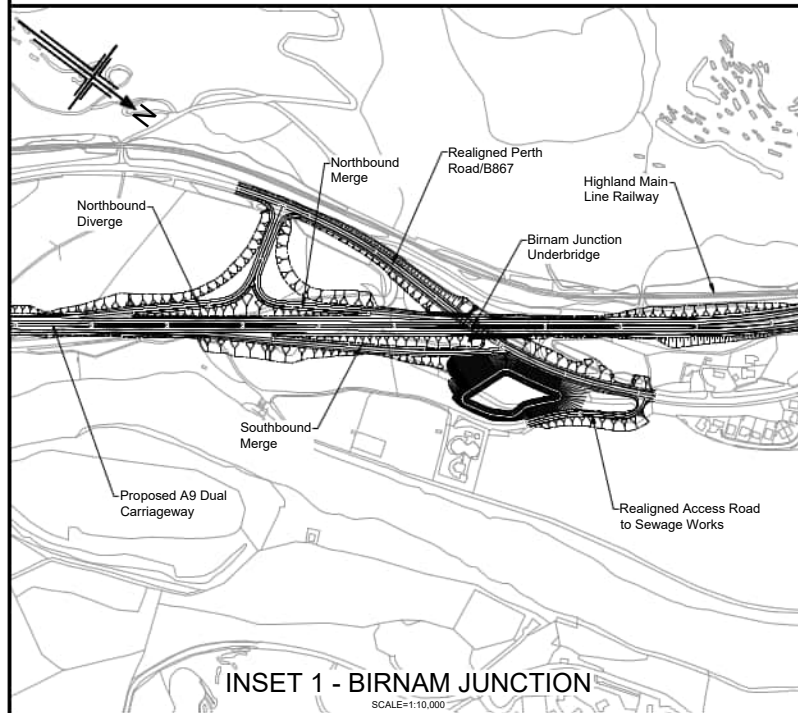
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- Legend:
- A9 Route Option
- Notes:
1. Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.



PROFILES (A9 DUAL CARRIAGEWAY)

HORIZONTAL SCALE = 1:50,000
VERTICAL SCALE = 1:10,000



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www.jacobs.com



Client

Project

Drawing title

**DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2B
PLAN AND PROFILES
CH. 0 - CH. 8421.076, SHEET 1 OF 1**

Drawing status

A - APPROVED AS STAGE COMPLETE

Scale

AS SHOWN@A3 DO NOT SCALE

Jacobs No.

B2140002

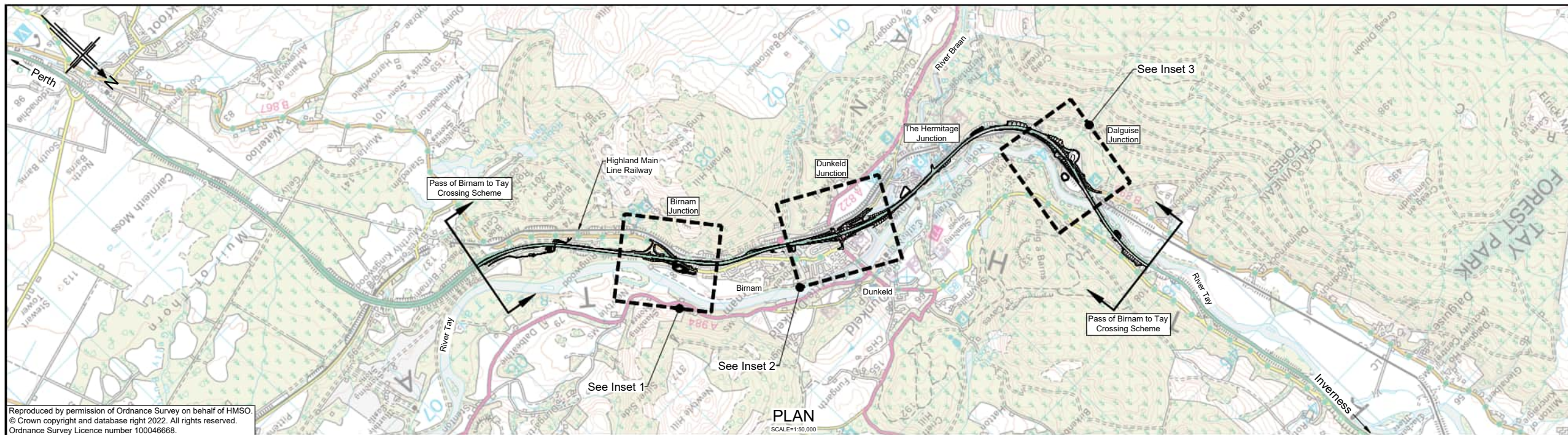
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A9P02-JAC-HGN-B_ZZZZZ_ZZ-FG-RD-0001

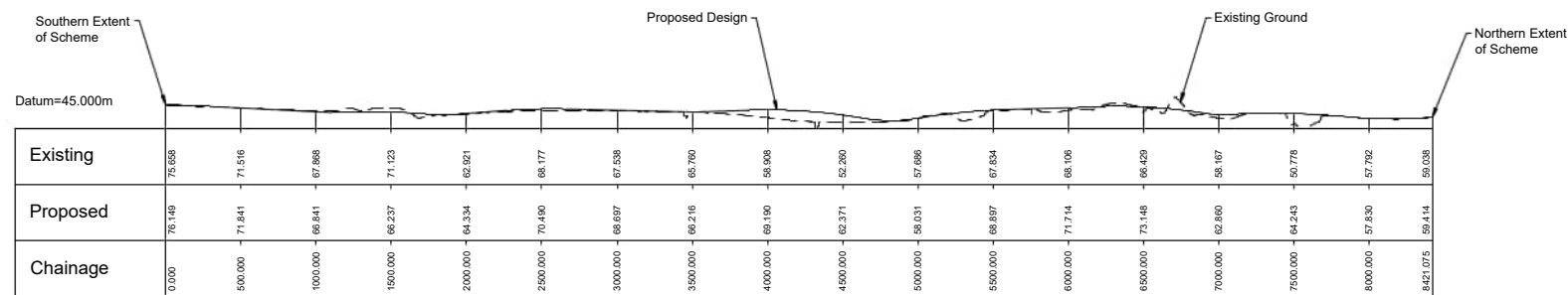
Rev

C01

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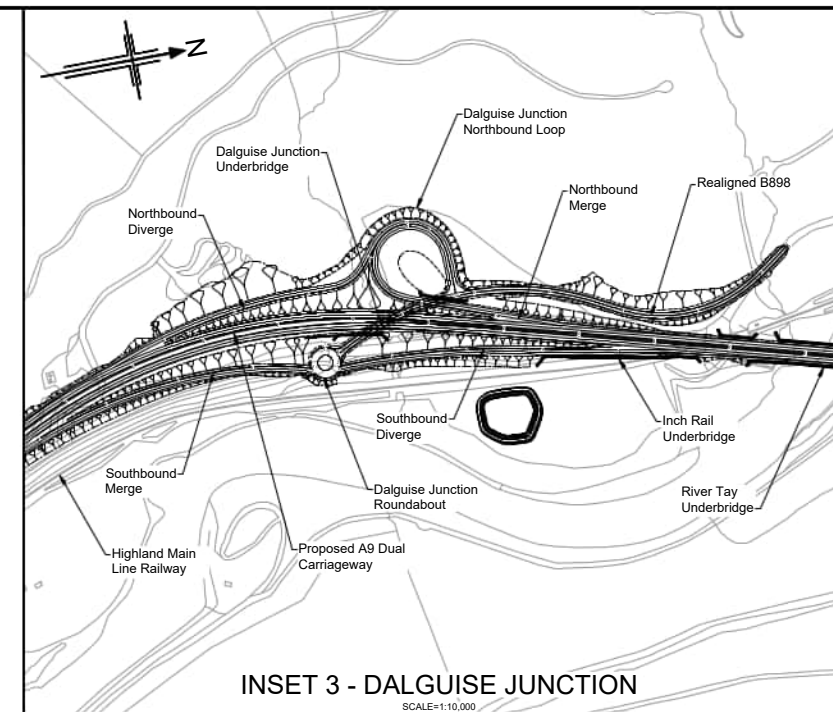
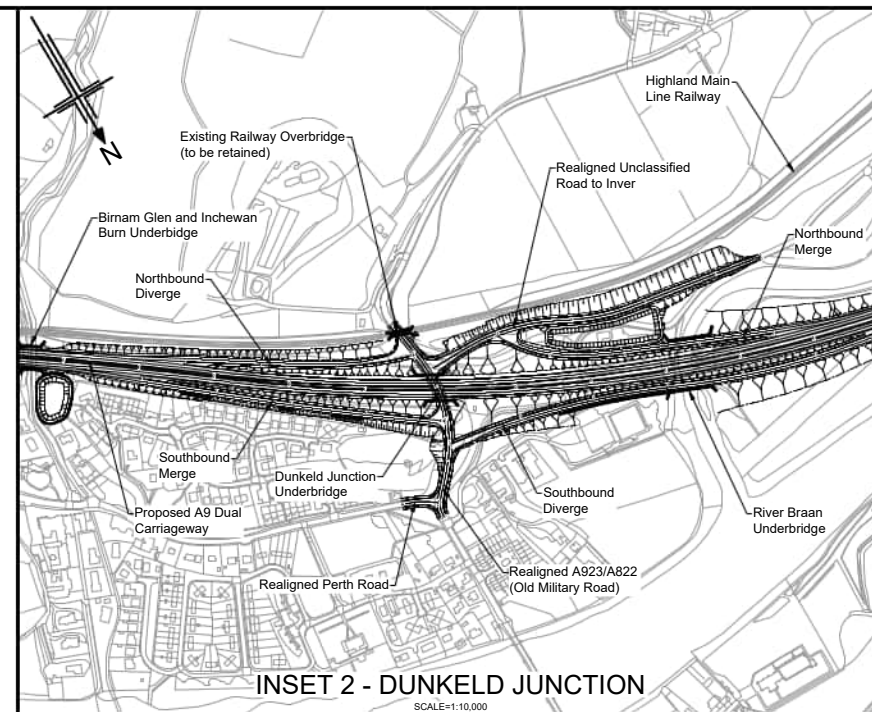
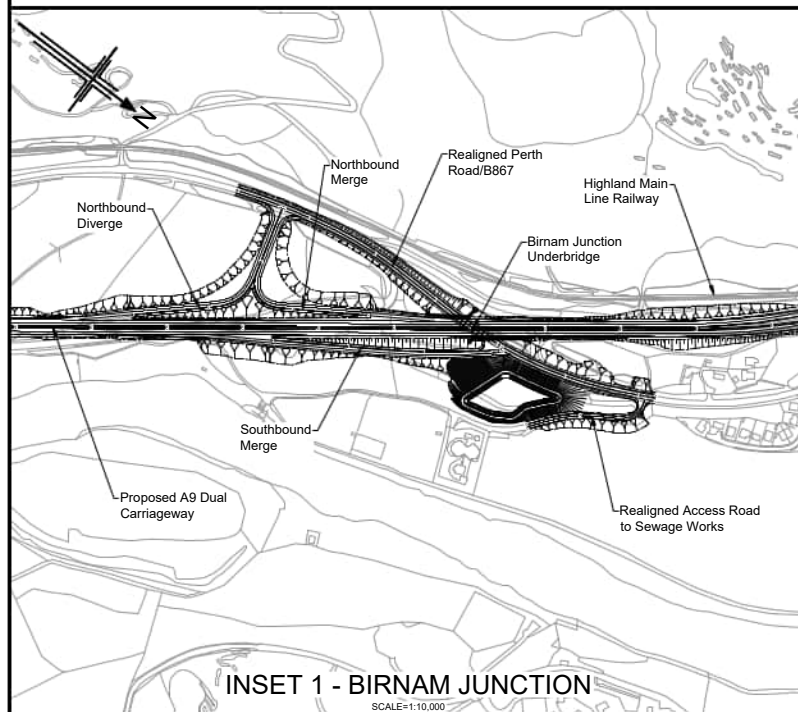


- Legend:
- A9 Route Option
- Notes:
1. Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.



PROFILE (A9 DUAL CARRIAGEWAY)

HORIZONTAL SCALE = 1:50,000
VERTICAL SCALE = 1:10,000



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
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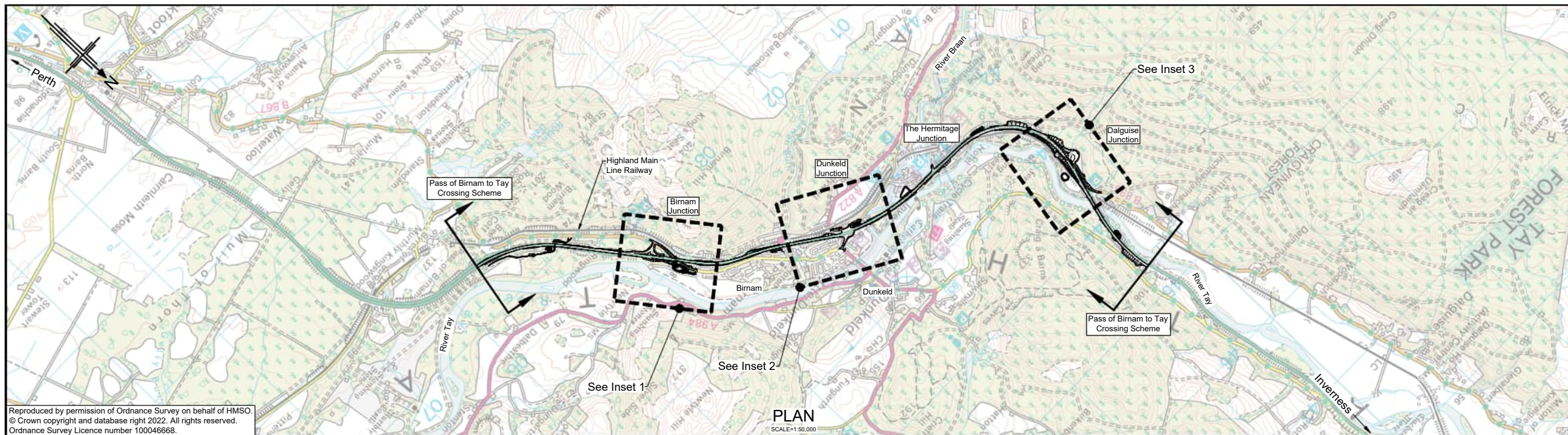


Client
Project
Drawing title
**DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2C
PLAN AND PROFILE
CH. 0 - CH. 8421.076, SHEET 1 OF 1**

Drawing status
A - APPROVED AS STAGE COMPLETE

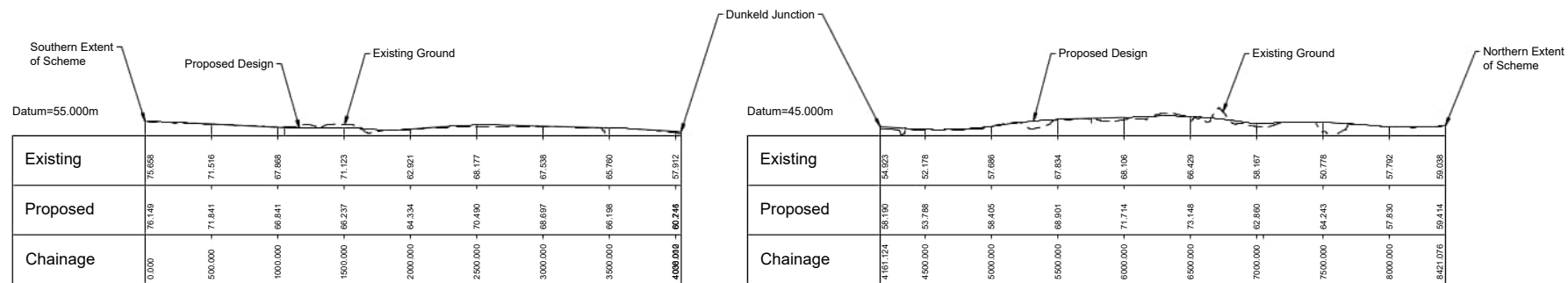
Scale	AS SHOWN@A3	DO NOT SCALE
Jacobs No.	B2140002	
Drawing number	A9P02-JAC-HGN-C_ZZZZZ_ZZ-FG-RD-0001	Rev C01

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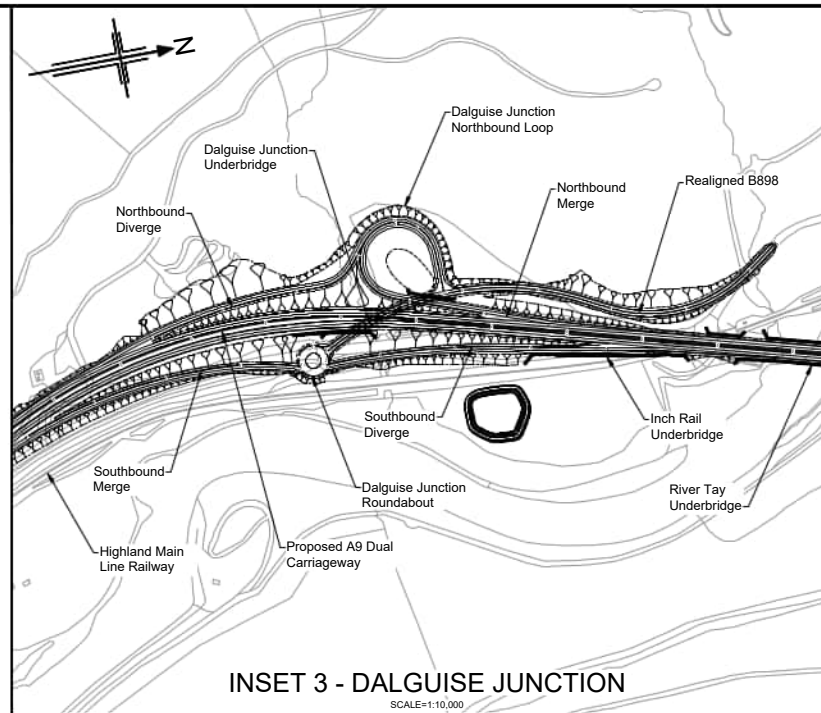
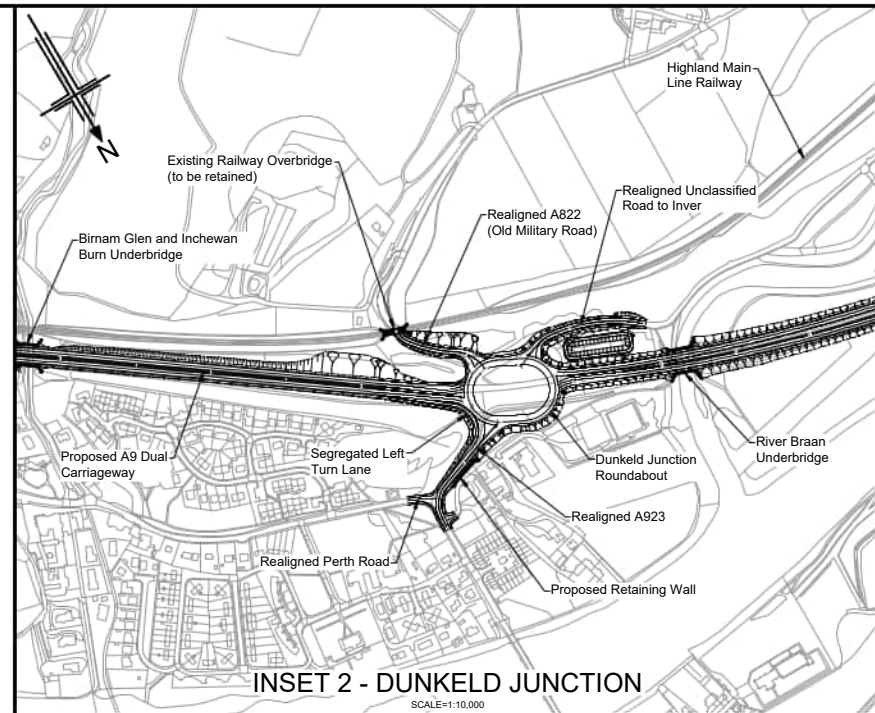
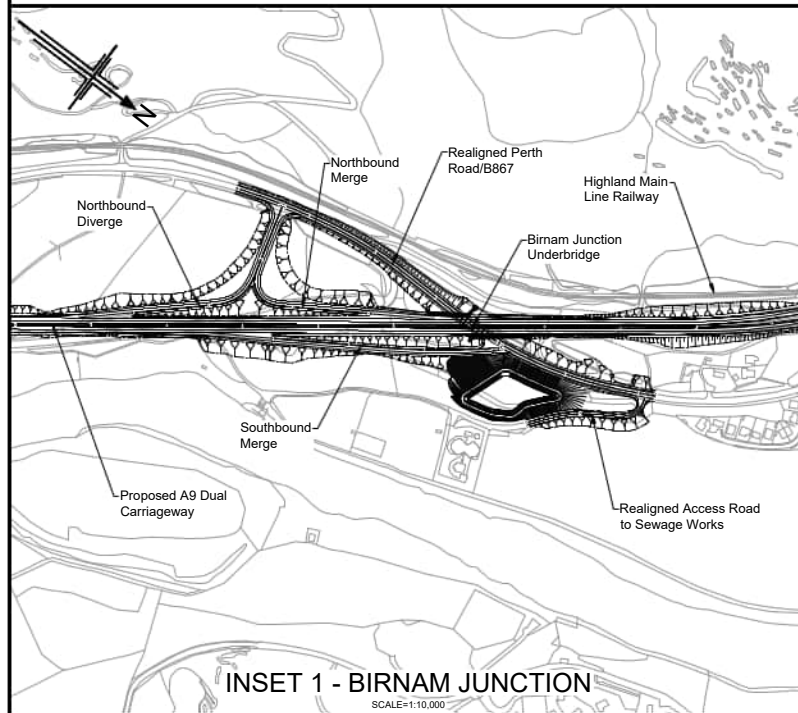
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- Legend:
- A9 Route Option
- Notes:
1. Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.



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www.jacobs.com



Client

Project

Drawing title

**DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2D
PLAN AND PROFILES
CH. 0 - CH. 8421.076, SHEET 1 OF 1**

Drawing status

A - APPROVED AS STAGE COMPLETE

Scale

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Jacobs No.

B2140002

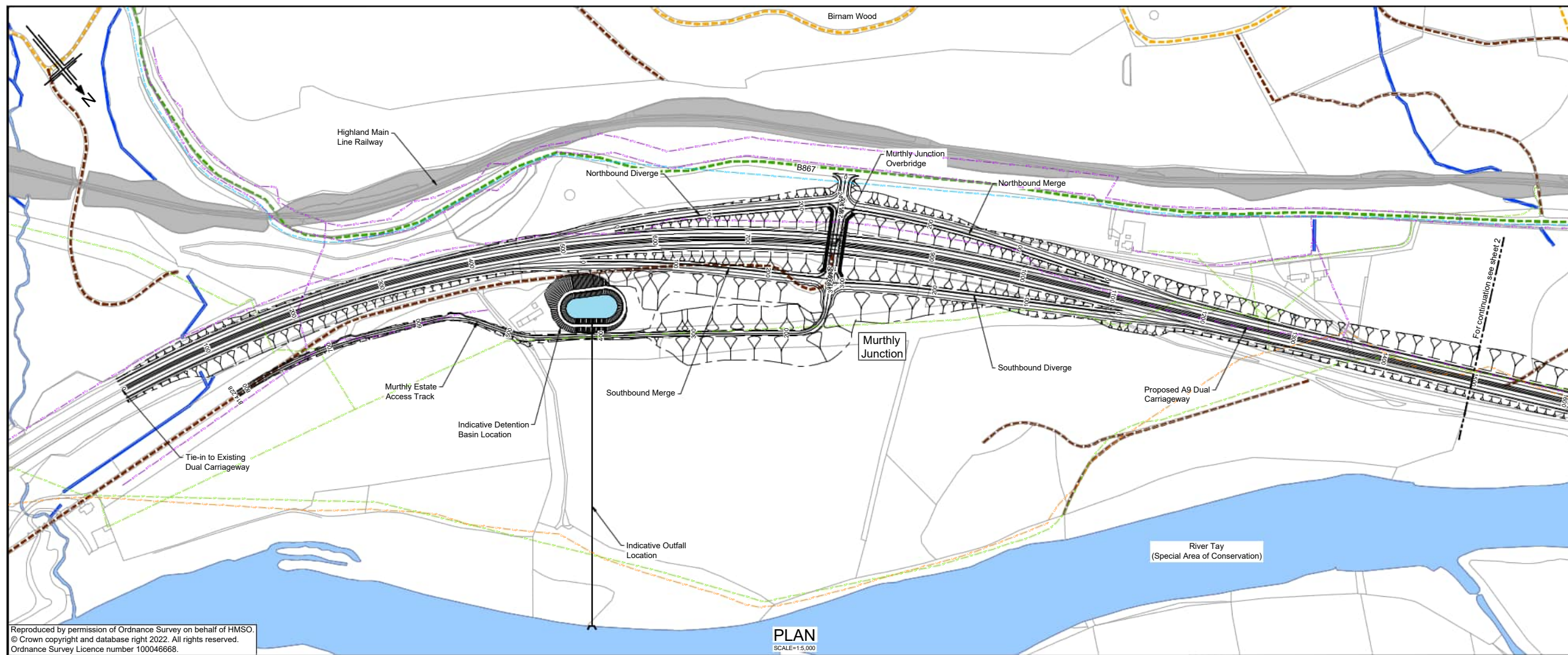
Drawing number

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Rev

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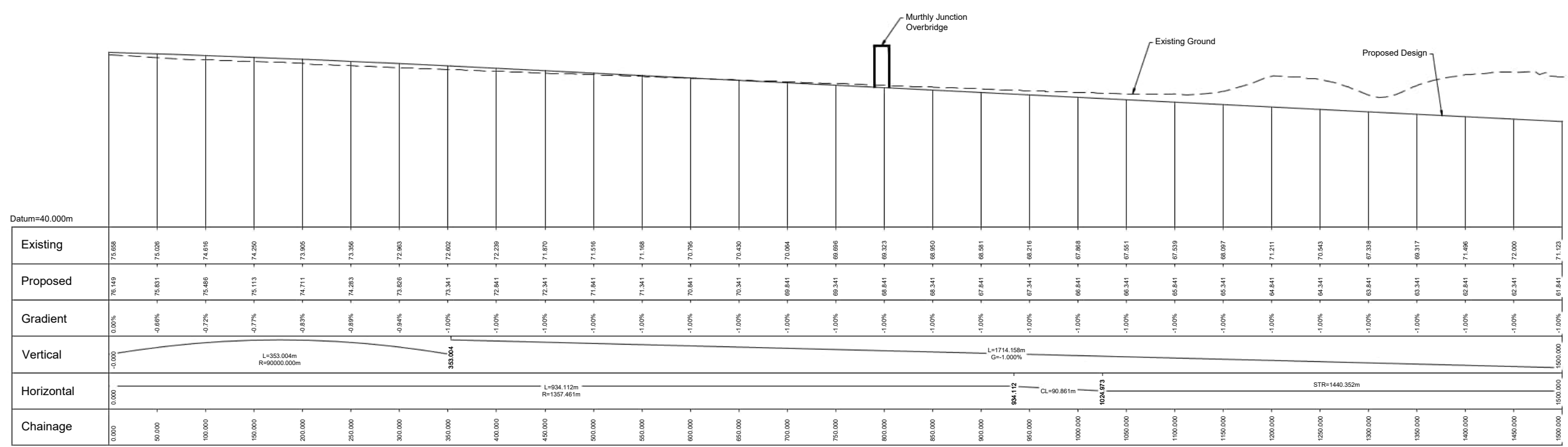
- Legend:**
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 - Reinforced Earthwork Slope (steeper than 1:2)
 - Bridge Structure
 - Retaining Wall Structure
 - Detention Basin (Indicative)
 - Outfall Headwall
 - Highland Main Line Railway
 - Watercourse
- Infrastructure**
- Rights of Way
 - National Cycle Network Route
 - Regional Cycle Network Route
 - Core Paths
 - Local Paths
- Existing Utilities**
- Existing British Telecom Overhead Cable
 - Existing British Telecom Underground Cable
 - Existing Everything Everywhere Mast
 - Existing O2/Three Mast
 - Existing SSE High Voltage Overhead Cable
 - Existing SSE High Voltage Underground Cable
 - Existing SSE Low Voltage Overhead Cable
 - Existing SSE Low Voltage Underground Cable
 - Existing SSE Pipe
 - Existing SGN Local High Pressure Main
 - Existing SGN Low Pressure Main
 - Existing Water Main
 - Existing Foul Water Sewer
 - Existing Rising Water Main
 - Existing Combined Sewer Outfall
 - Existing Surface Water Sewer

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PLAN
 SCALE=1:5,000

Notes:

- Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.



Chainage	Existing	Proposed	Gradient	Vertical	Horizontal
0.000	75.658	76.149	0.00%	-0.000	0.000
50.000	75.028	75.831	-0.86%	L=353.004m R=90000.000m	L=934.112m R=1357.461m
100.000	74.616	75.466	-0.72%		
150.000	74.250	75.113	-0.77%	350.004	L=1714.158m G=-1.000%
200.000	73.805	74.711	-0.83%		
250.000	73.356	74.283	-0.89%	L=1024.873	CL=90.861m
300.000	72.983	73.826	-0.84%		
350.000	72.602	73.341	-1.00%	STR=1440.352m	
400.000	72.239	72.841	-1.00%		
450.000	71.870	72.341	-1.00%		
500.000	71.516	71.841	-1.00%		
550.000	71.168	71.341	-1.00%		
600.000	70.795	70.841	-1.00%		
650.000	70.430	70.341	-1.00%		
700.000	70.064	69.841	-1.00%		
750.000	69.696	69.341	-1.00%		
800.000	69.323	68.841	-1.00%		
850.000	68.950	68.341	-1.00%		
900.000	68.581	67.841	-1.00%		
950.000	68.216	67.341	-1.00%		
1000.000	67.868	66.841	-1.00%		
1050.000	67.501	66.341	-1.00%		
1100.000	67.139	65.841	-1.00%		
1150.000	66.787	65.341	-1.00%		
1200.000	66.441	64.841	-1.00%		
1250.000	66.100	64.341	-1.00%		
1300.000	65.768	63.841	-1.00%		
1350.000	65.441	63.341	-1.00%		
1400.000	65.121	62.841	-1.00%		
1450.000	64.800	62.341	-1.00%		
1500.000	64.481	61.841	-1.00%		

PROFILE
 HORIZONTAL SCALE = 1:5,000
 VERTICAL SCALE = 1:1,000

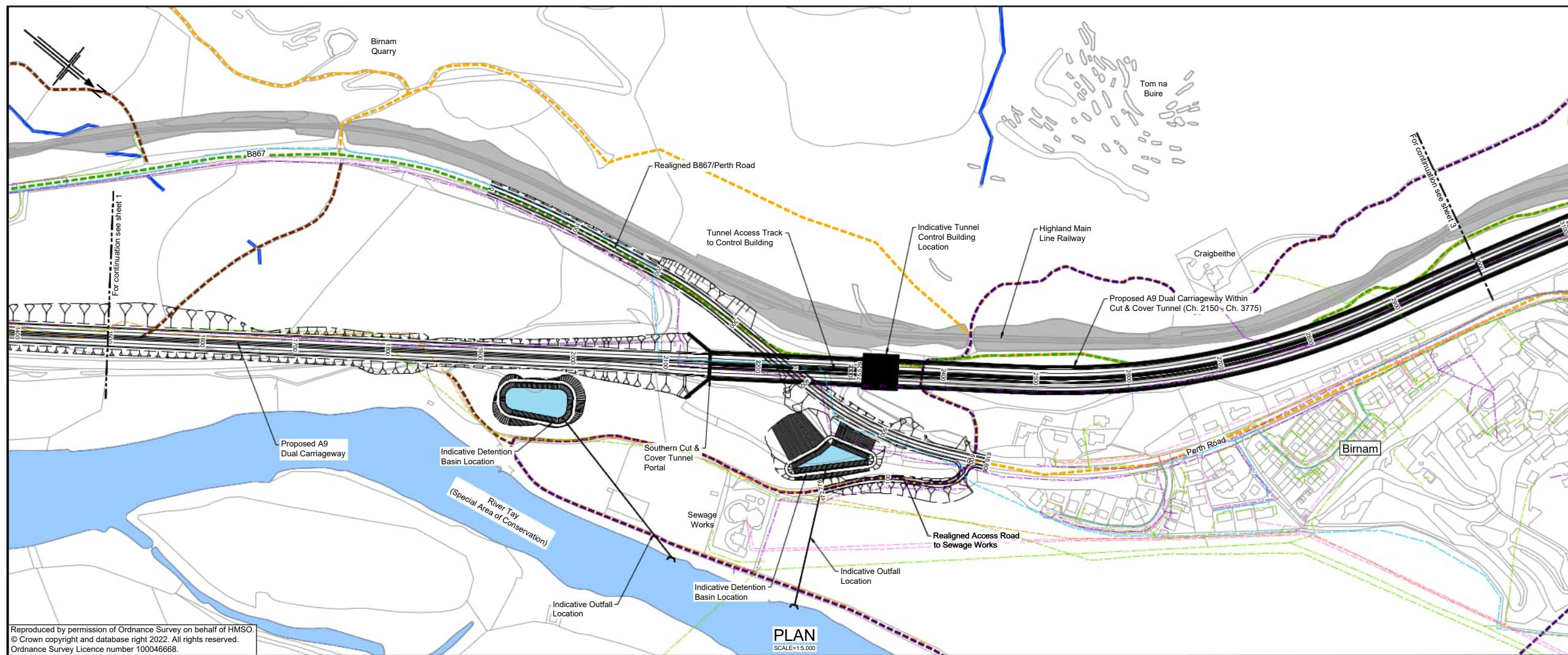
CD1	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	App'd



DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2A, PLAN AND PROFILE
CH. 0 - CH. 1500
SHEET 1 OF 6

Drawing status: **A - APPROVED AS STAGE COMPLETE**

Scale	AS SHOWN@A3	DO NOT SCALE
Jacobs No.	B2140002	
Drawing number	A9P02-JAC-HML-A_MLZZZ_ML-FG-RD-0001	Rev
		C01



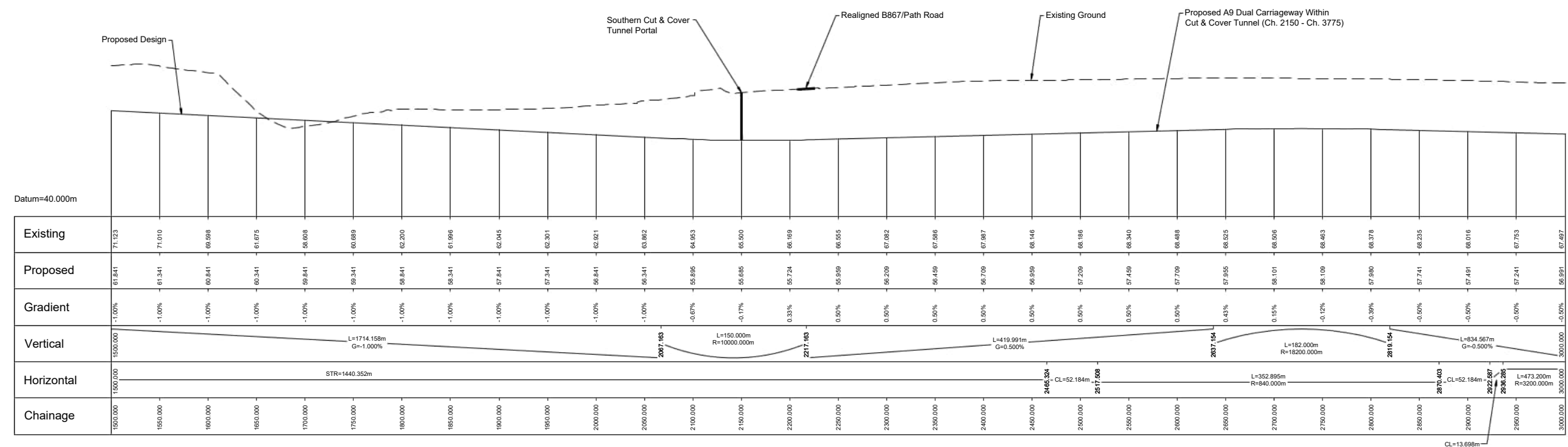
- Legend:
- Natural Earthwork Slope (1:2 or shallower)
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 - Bridge Structure
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 - Detention Basin (Indicative)
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 - Existing Foul Water Sewer
 - Existing Rising Water Main
 - Existing Combined Sewer Outfall
 - Existing Surface Water Sewer

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PLAN
SCALE=1:5,000

Notes:

- Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.



PROFILE
HORIZONTAL SCALE = 1:5,000
VERTICAL SCALE = 1:1,000

CD1	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
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Client

TRANSPORT SCOTLAND
COMHAIL ALBA

Project

A9 DUALLING
PERTH TO INVERNESS
PASS OF STRATH TO TAY CROSSING

Drawing title
**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 OPTION ST2A, PLAN AND PROFILE
 CH. 1500 - CH. 3000
 SHEET 2 OF 6**

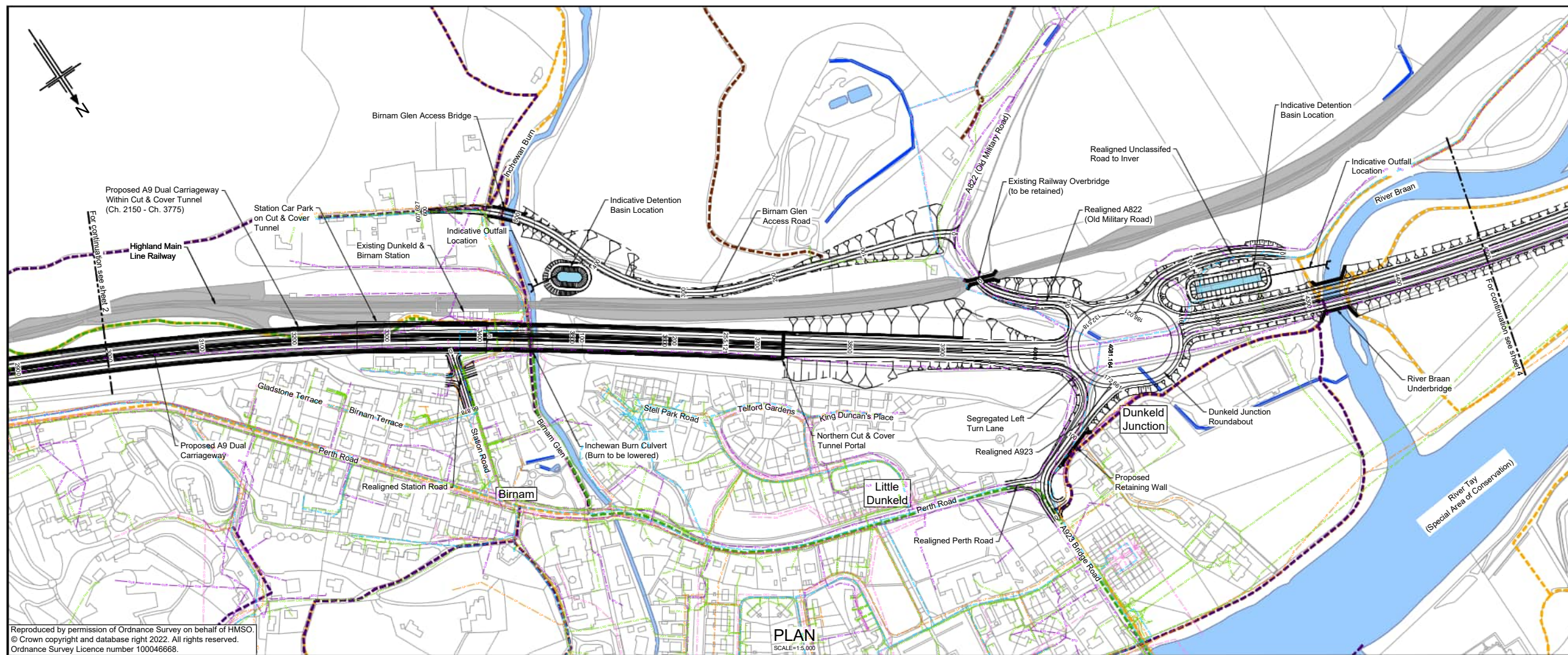
Drawing status
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Jacobs No. B2140002

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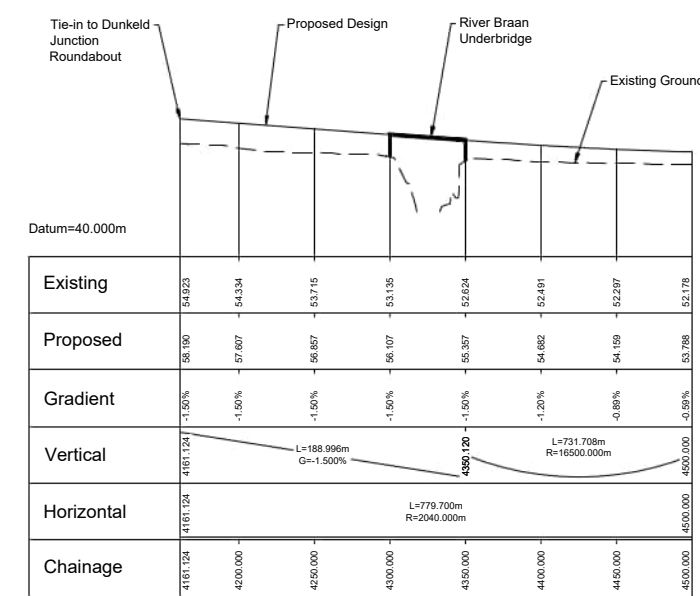
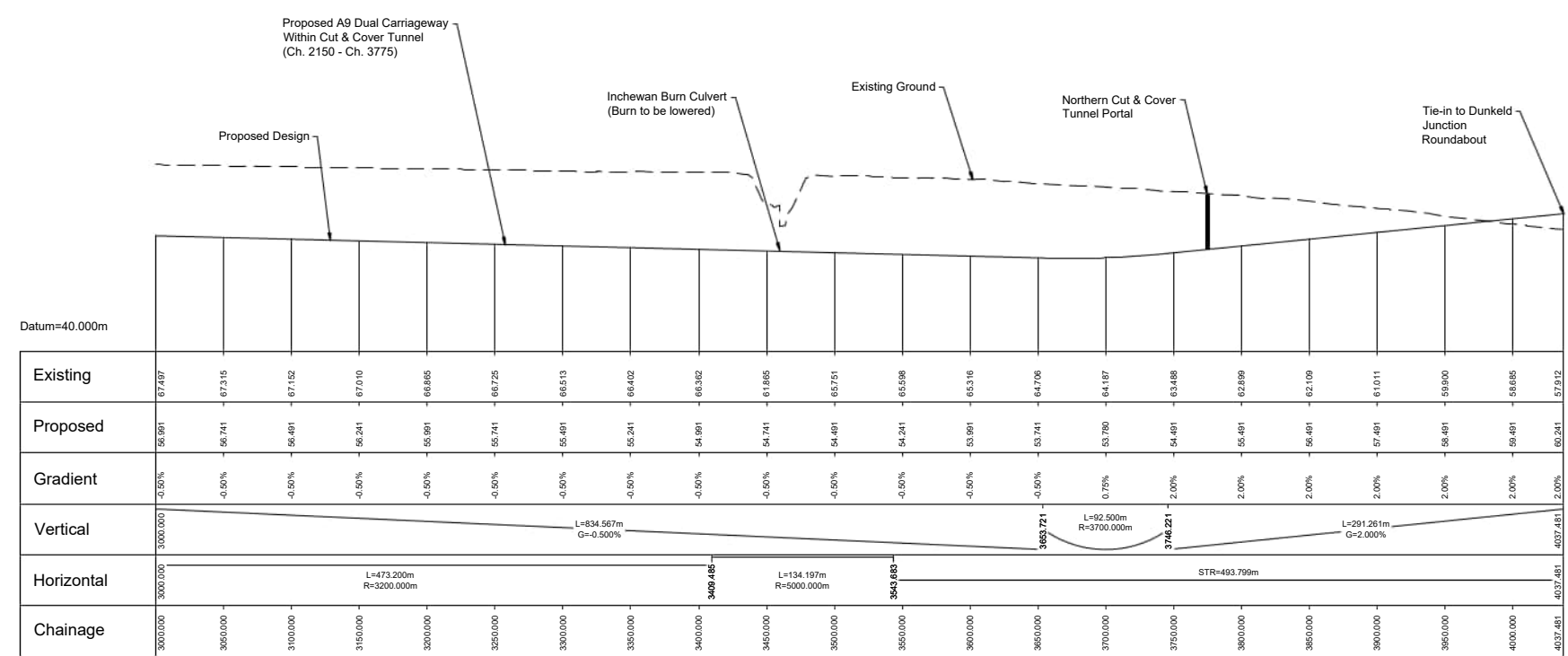
- Legend:**
- Natural Earthwork Slope (1:2 or shallower)
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 - Existing Surface Water Sewer

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PLAN
SCALE=1:5,000

Notes:

- Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.



PROFILES
HORIZONTAL SCALE = 1:5,000
VERTICAL SCALE = 1:1,000

CD1	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	App'd

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Client

TRANSPORT SCOTLAND
COMHAIL ALBA

Project

A9
DUALLING
PERTH TO INVERNESS
Part of Struan to Tye Crossing

Drawing title
**DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2A, PLAN AND PROFILES
CH. 3000 - CH. 4500
SHEET 3 OF 6**

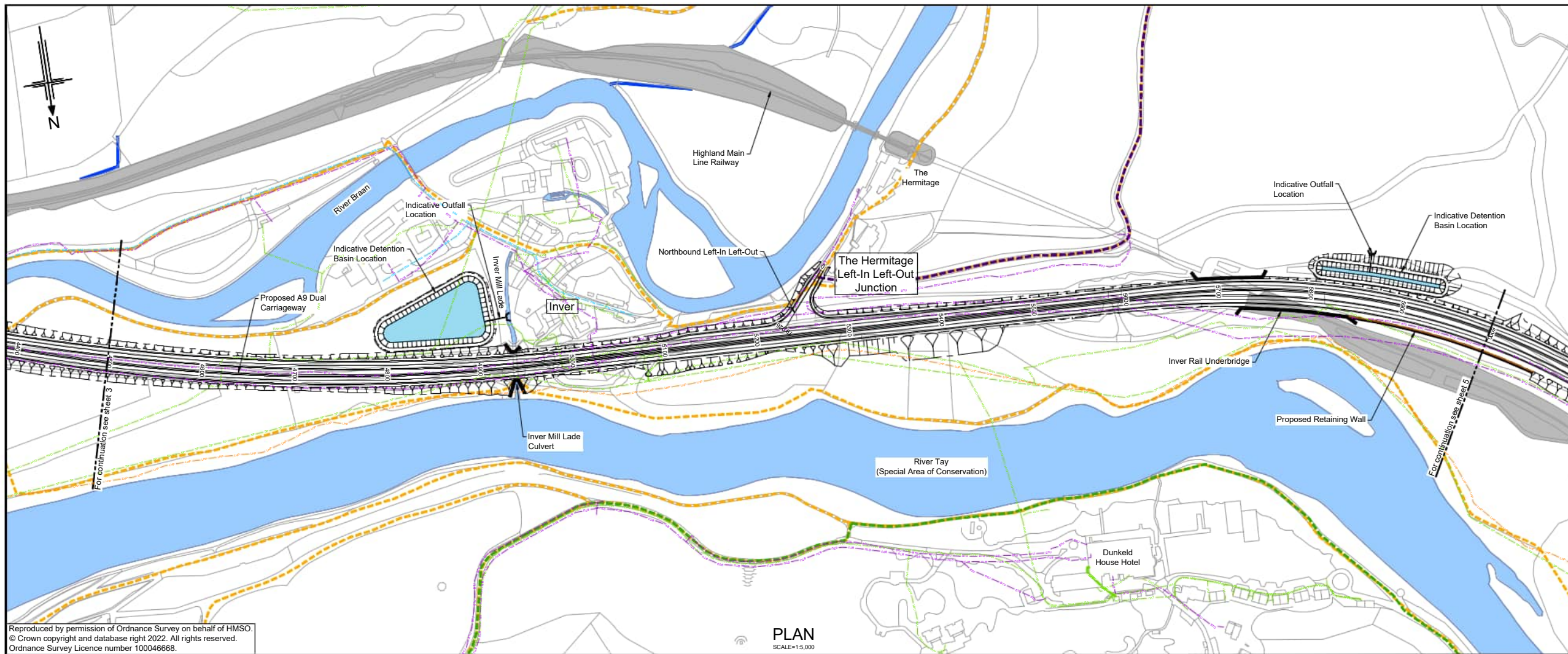
Drawing status
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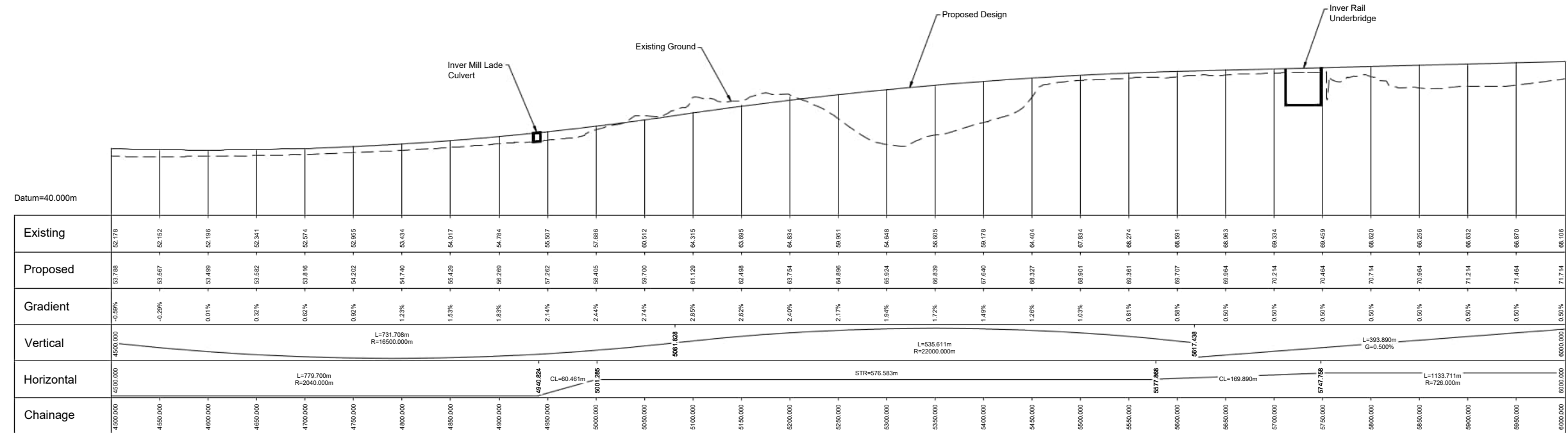
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PLAN
 SCALE=1:5,000

- Legend:
- Natural Earthwork Slope (1:2 or shallower)
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Notes:

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PROFILE
 HORIZONTAL SCALE = 1:5,000
 VERTICAL SCALE = 1:1,000

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Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

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Client

TRANSPORT SCOTLAND
 COMHAIL ALBA

Project

A9
 DUALLING
 PERTH TO INVERNESS
 Pass of Birnam to Tay Crossing

Drawing title
**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 OPTION ST2A, PLAN AND PROFILE
 CH. 4500 - CH. 6000
 SHEET 4 OF 6**

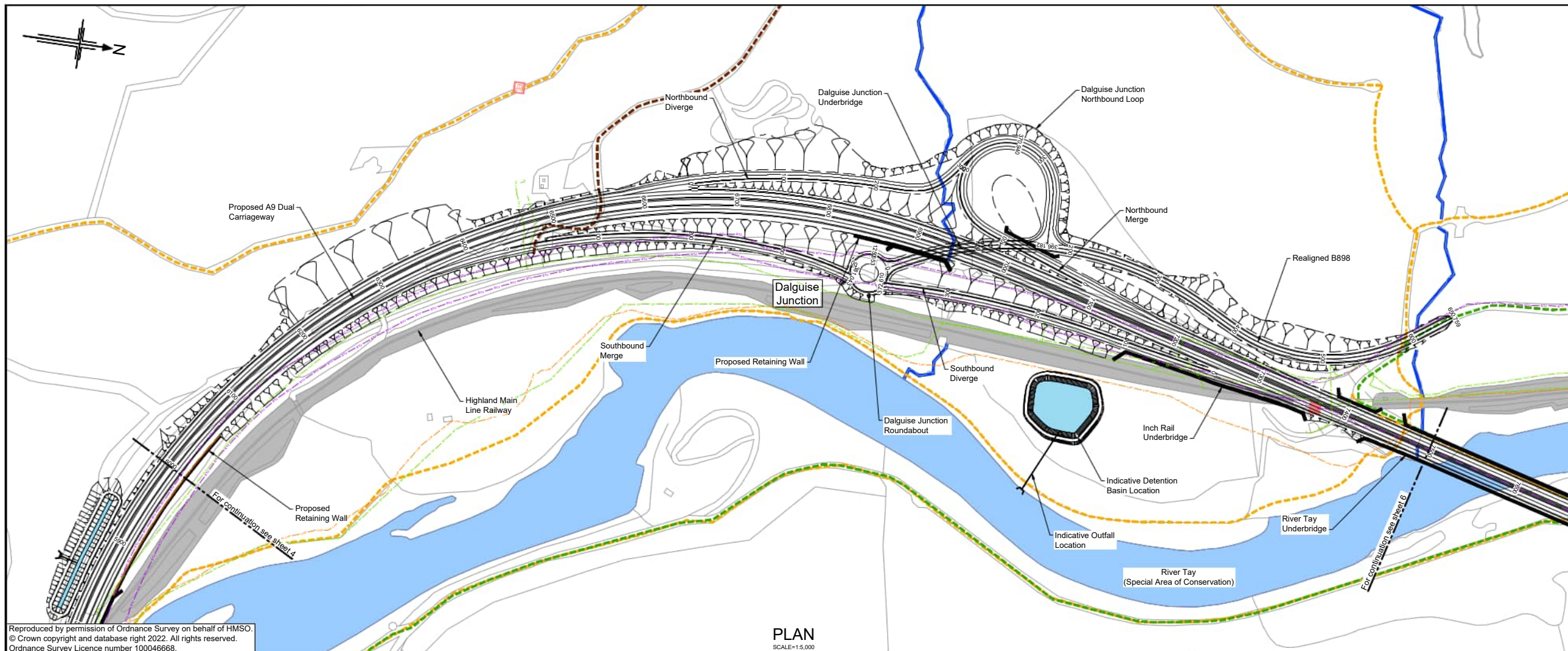
Drawing status
A - APPROVED AS STAGE COMPLETE

Scale AS SHOWN@A3 DO NOT SCALE

Jacobs No. B2140002

Drawing number A9P02-JAC-HML-A_MLZZZ_ML-FG-RD-0004 Rev C01

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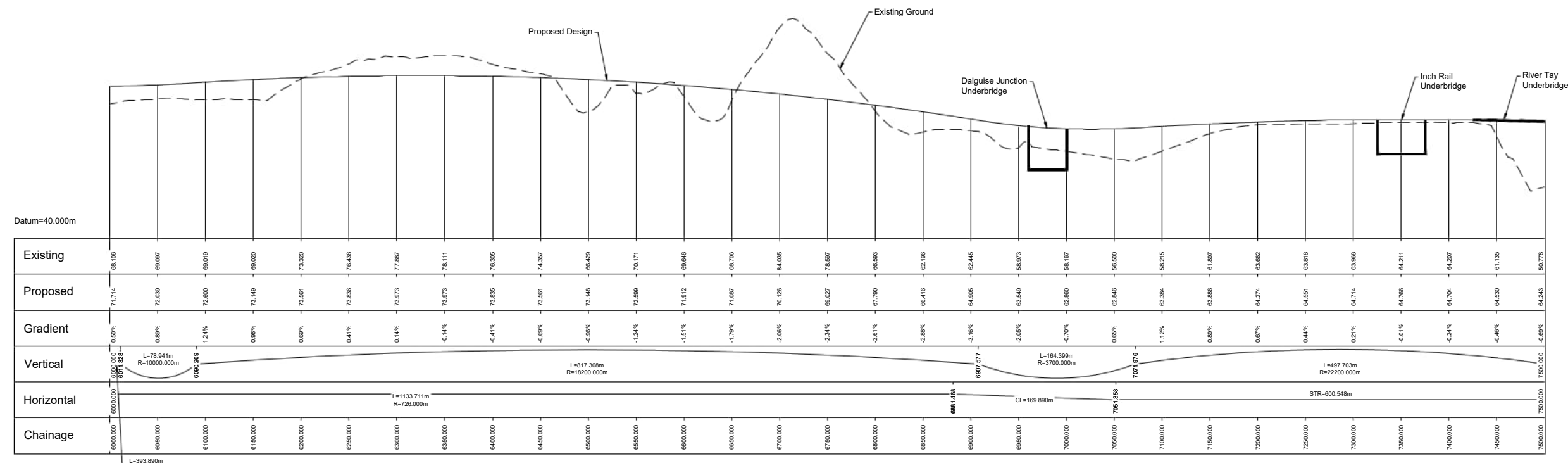
- Legend:
- Natural Earthwork Slope (1:2 or shallower)
 - Reinforced Earthwork Slope (steeper than 1:2)
 - Bridge Structure
 - Retaining Wall Structure
 - Detention Basin (Indicative)
 - Outfall Headwall
 - Highland Main Line Railway
 - Watercourse
- Infrastructure
- Rights of Way
 - National Cycle Network Route
 - Regional Cycle Network Route
 - Core Paths
 - Local Paths
- Existing Utilities
- Existing British Telecom Overhead Cable
 - Existing British Telecom Underground Cable
 - Existing Everything Everywhere Mast
 - Existing O2/Three Mast
 - Existing SSE High Voltage Overhead Cable
 - Existing SSE High Voltage Underground Cable
 - Existing SSE Low Voltage Overhead Cable
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 - Existing Rising Water Main
 - Existing Combined Sewer Outfall
 - Existing Surface Water Sewer

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PLAN
SCALE=1:5,000

Notes:

- Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.



PROFILE
HORIZONTAL SCALE = 1:5,000
VERTICAL SCALE = 1:1,000

CD1	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	App'd

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95 Bothwell St, Glasgow, G2 7HX
Tel: +44(0)141 243 8000 Fax: +44(0)141 226 3109
www.jacobs.com

Client

TRANSPORT SCOTLAND
COMHAIL ALBA

Project

A9
DUALLING
PERTH TO INVERNESS
Part of Inverness to Tay Crossing

Drawing title
**DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2A, PLAN AND PROFILE
CH. 6000 - CH. 7500
SHEET 5 OF 6**

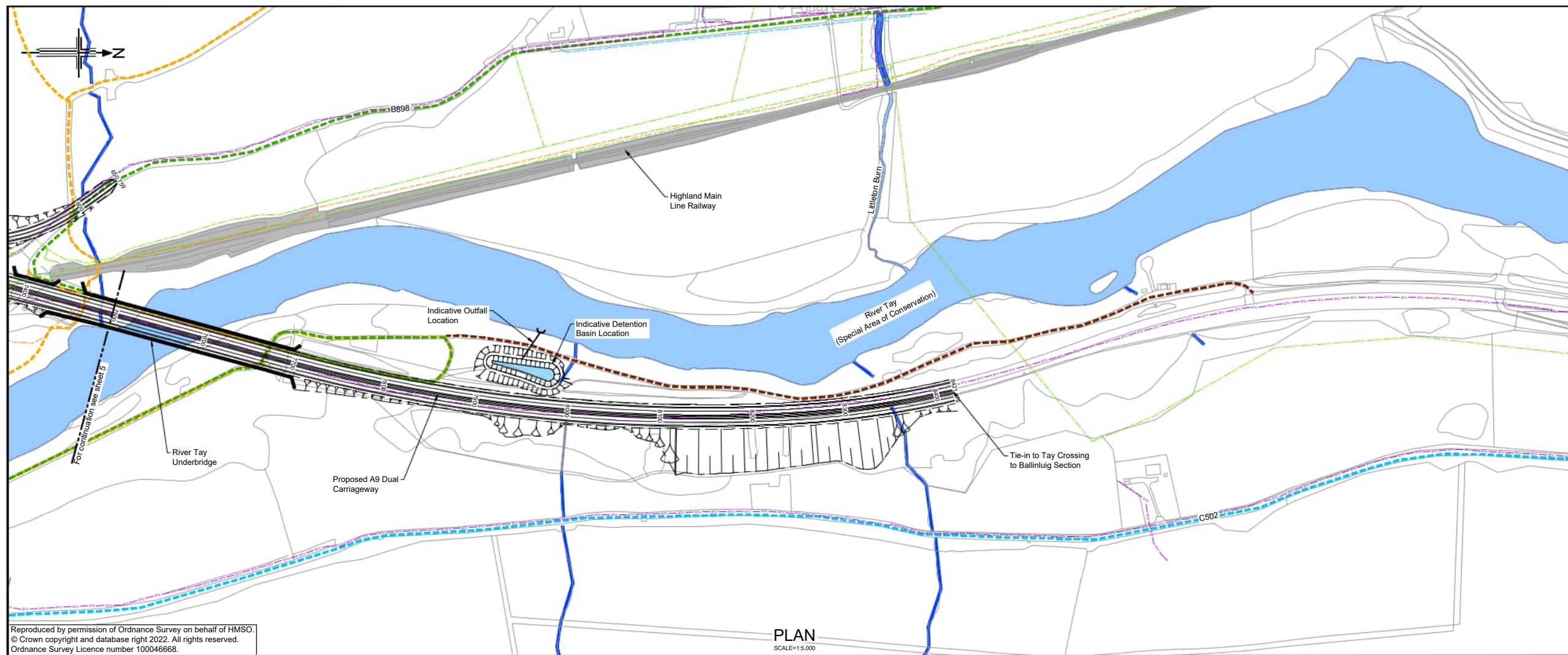
Drawing status
A - APPROVED AS STAGE COMPLETE

Scale AS SHOWN@A3 DO NOT SCALE

Jacobs No. B2140002

Drawing number A9P02-JAC-HML-A_MLZZZ_ML-FG-RD-0005 Rev C01

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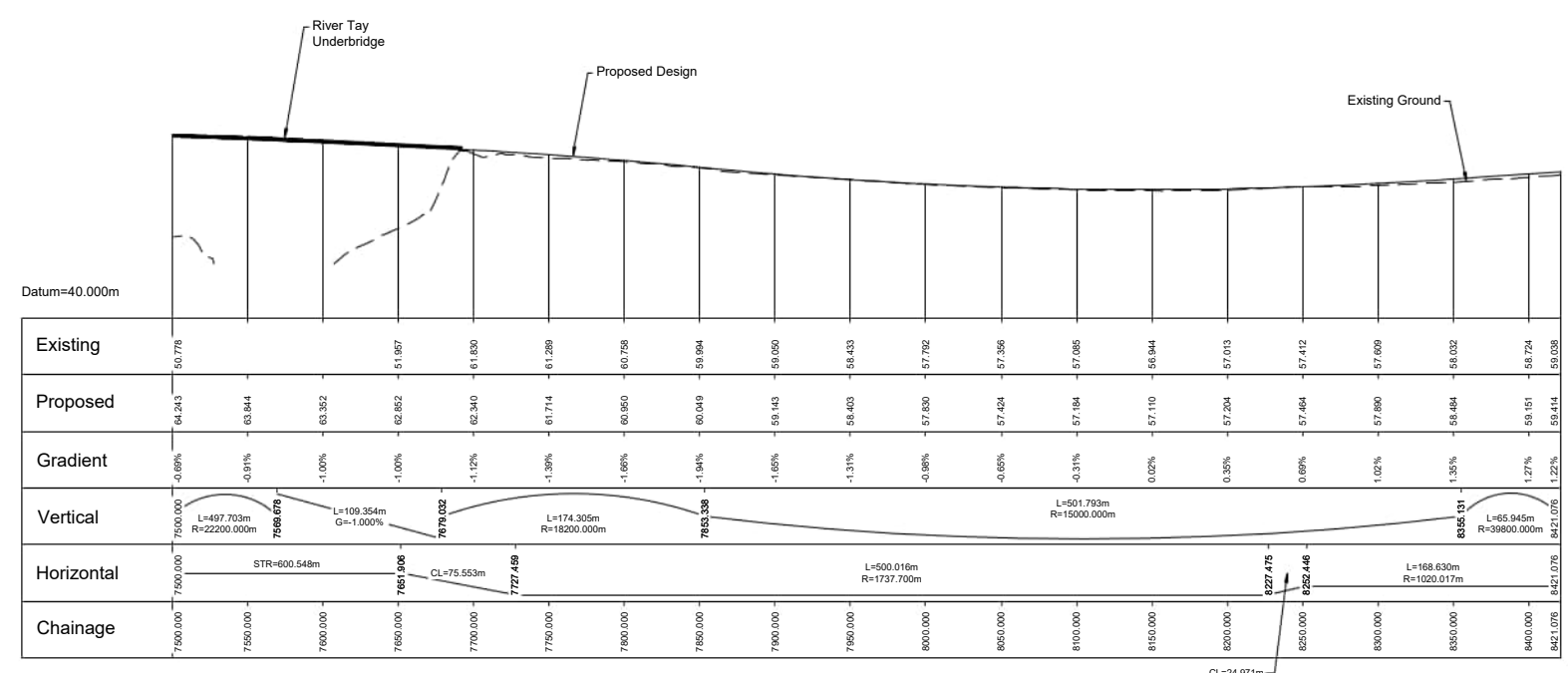
- Legend:**
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 - Bridge Structure
 - Retaining Wall Structure
 - Detention Basin (Indicative)
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- Infrastructure**
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PLAN
SCALE=1:5,000

Notes:

- Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.



PROFILE
HORIZONTAL SCALE = 1:5,000
VERTICAL SCALE = 1:1,000

CD1	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	App'd

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www.jacobs.com

Client

TRANSPORT SCOTLAND
COMHAIL ALBA

Project

A9
DUALLING
PERTH TO INVERNESS
Part of Strath to Tay Crossing

Drawing title
**DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2A, PLAN AND PROFILE
CH. 7500 - END
SHEET 6 OF 6**

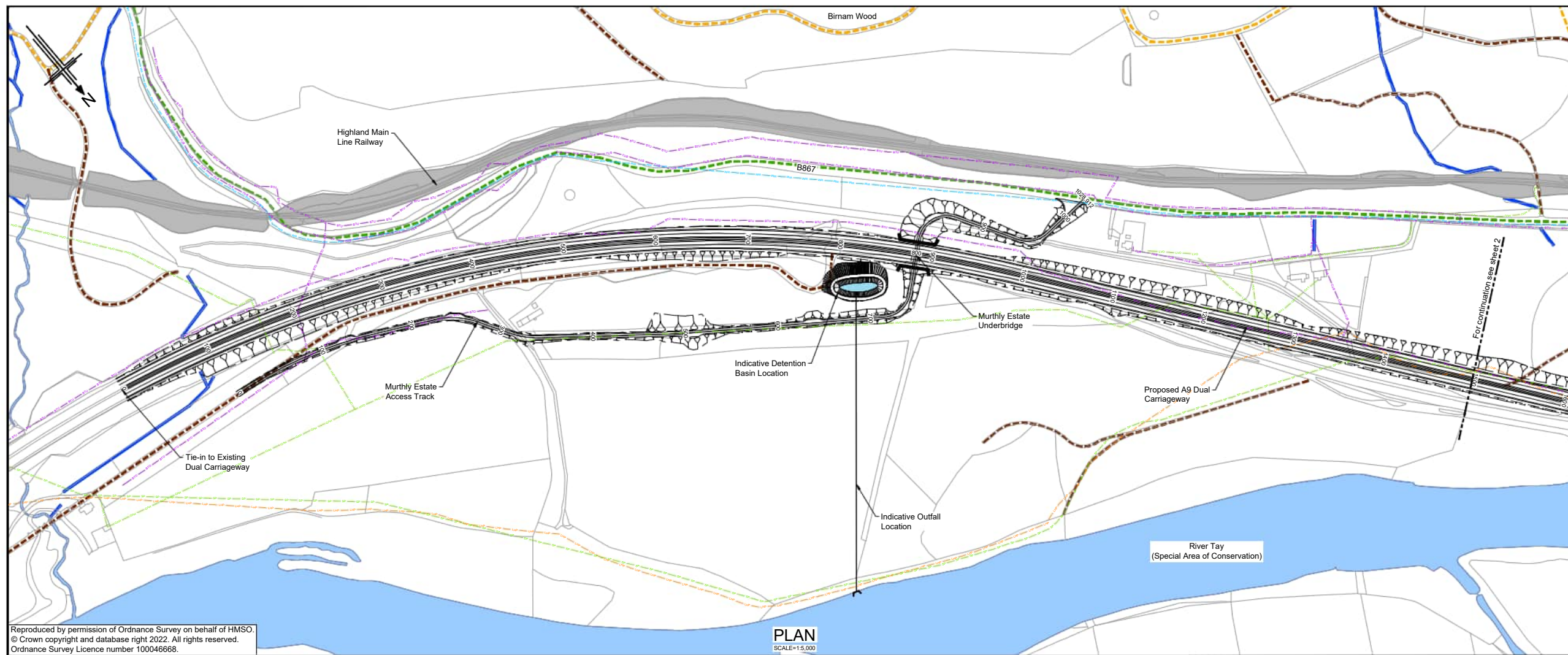
Drawing status
A - APPROVED AS STAGE COMPLETE

Scale AS SHOWN@A3 DO NOT SCALE

Jacobs No. B2140002

Drawing number A9P02-JAC-HML-A_MLZZ_ML-FG-RD-0006 Rev C01

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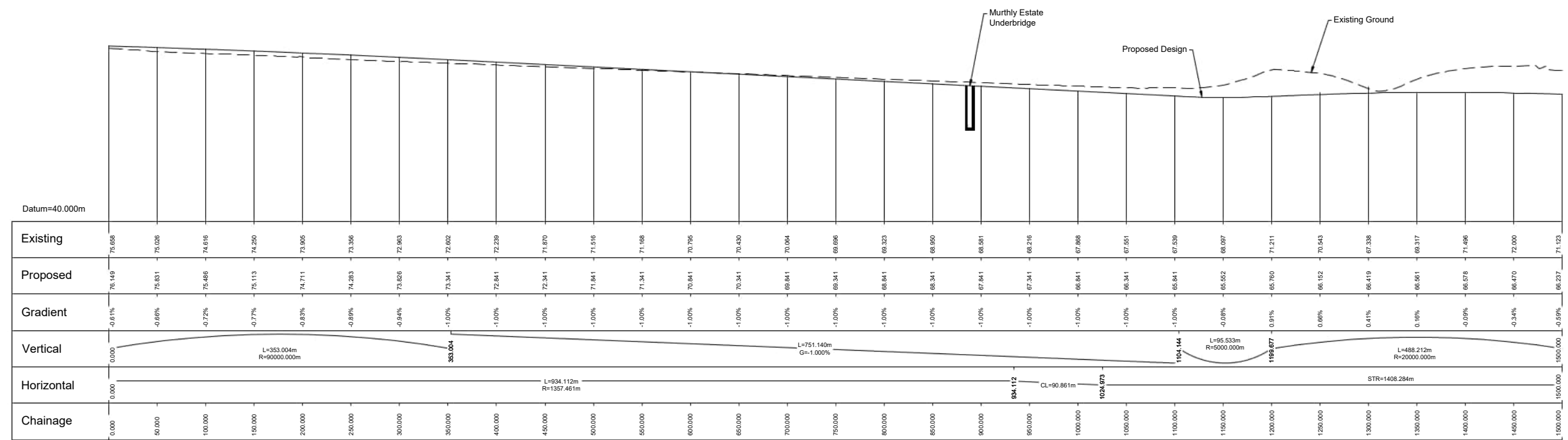
- Legend:
- Natural Earthwork Slope (1:2 or shallower)
 - Reinforced Earthwork Slope (steeper than 1:2)
 - Bridge Structure
 - Retaining Wall Structure
 - Detention Basin (Indicative)
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 - Existing Surface Water Sewer

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PLAN
SCALE=1:5,000

Notes:

- Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.



PROFILE
HORIZONTAL SCALE = 1:5,000
VERTICAL SCALE = 1:1,000

CD1	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	App'd

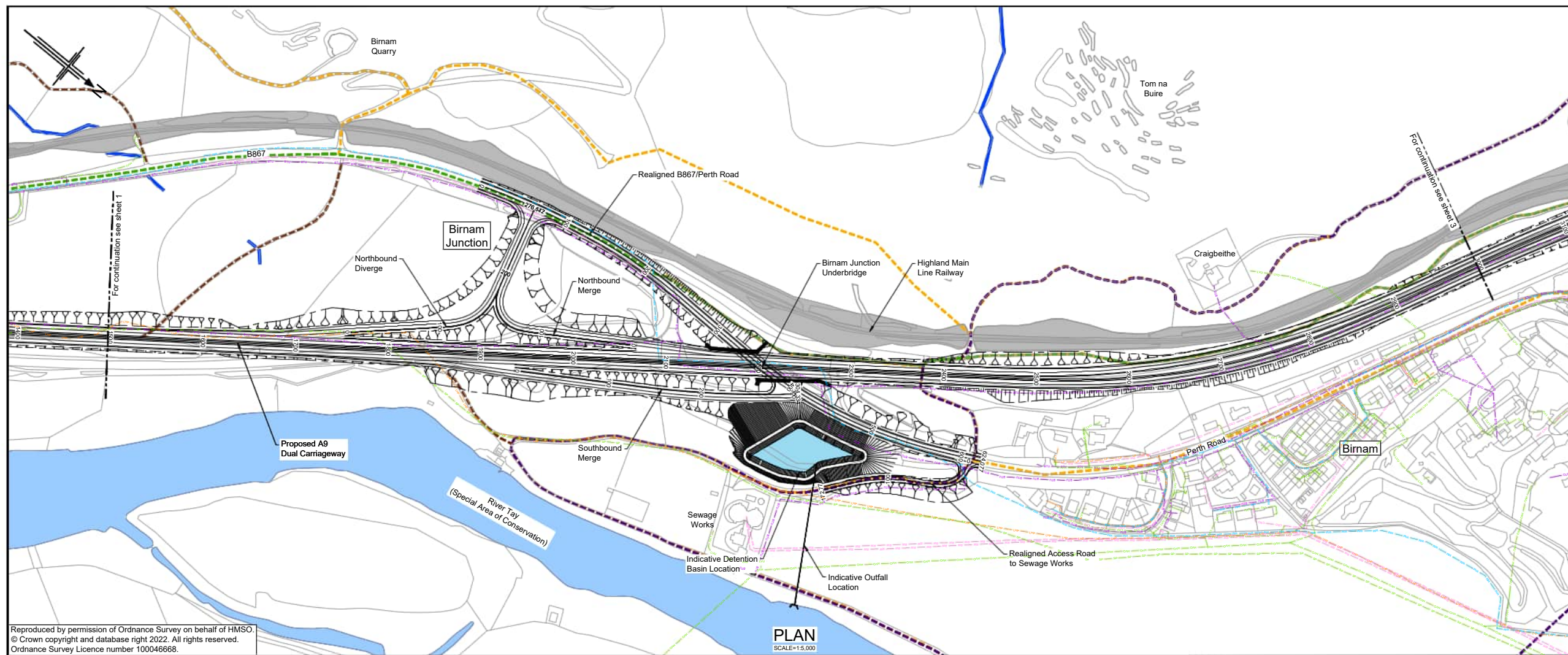
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Drawing title
**DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2B, PLAN AND PROFILE
CH. 0 - CH. 1500
SHEET 1 OF 6**

Drawing status A - APPROVED AS STAGE COMPLETE	
Scale	AS SHOWN@A3 DO NOT SCALE
Jacobs No.	B2140002
Drawing number	A9P02-JAC-HML-B_MLZZZ_ML-FG-RD-0001
Rev	C01

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- Legend:
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Notes:

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CD1	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	App'd

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 www.jacobs.com

Client

TRANSPORT SCOTLAND
 COMHAIL ALBA

Project

A9
 DUALLING
 PERTH TO INVERNESS
 Pass of Struan to Tay Crossing

Drawing title

**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 OPTION ST2B, PLAN AND PROFILE
 CH. 1500 - CH. 3000
 SHEET 2 OF 6**

Drawing status

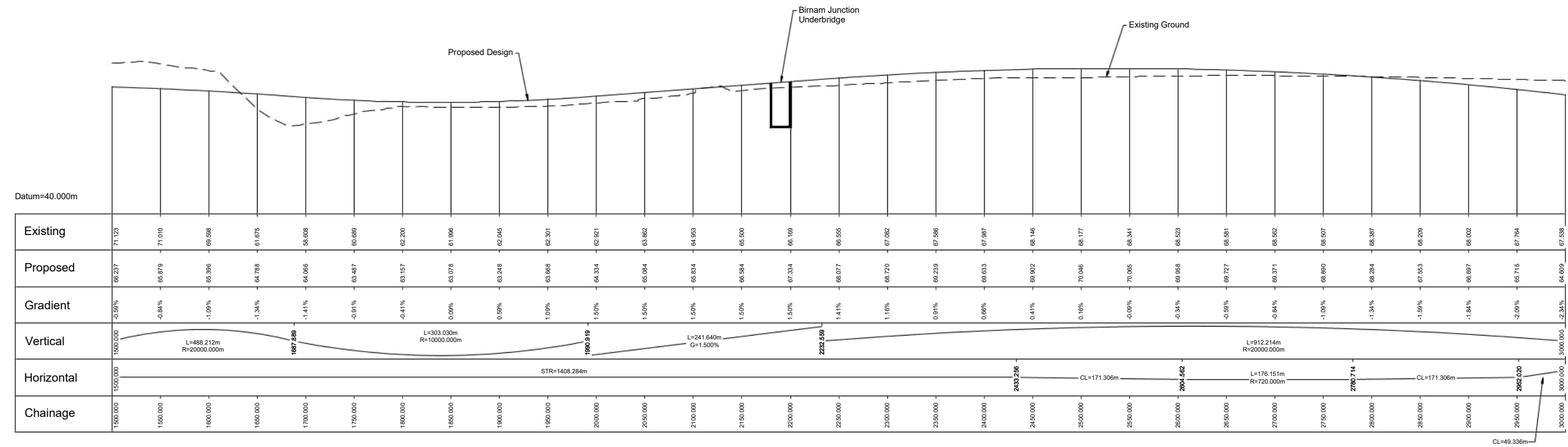
A - APPROVED AS STAGE COMPLETE

Scale AS SHOWN@A3 DO NOT SCALE

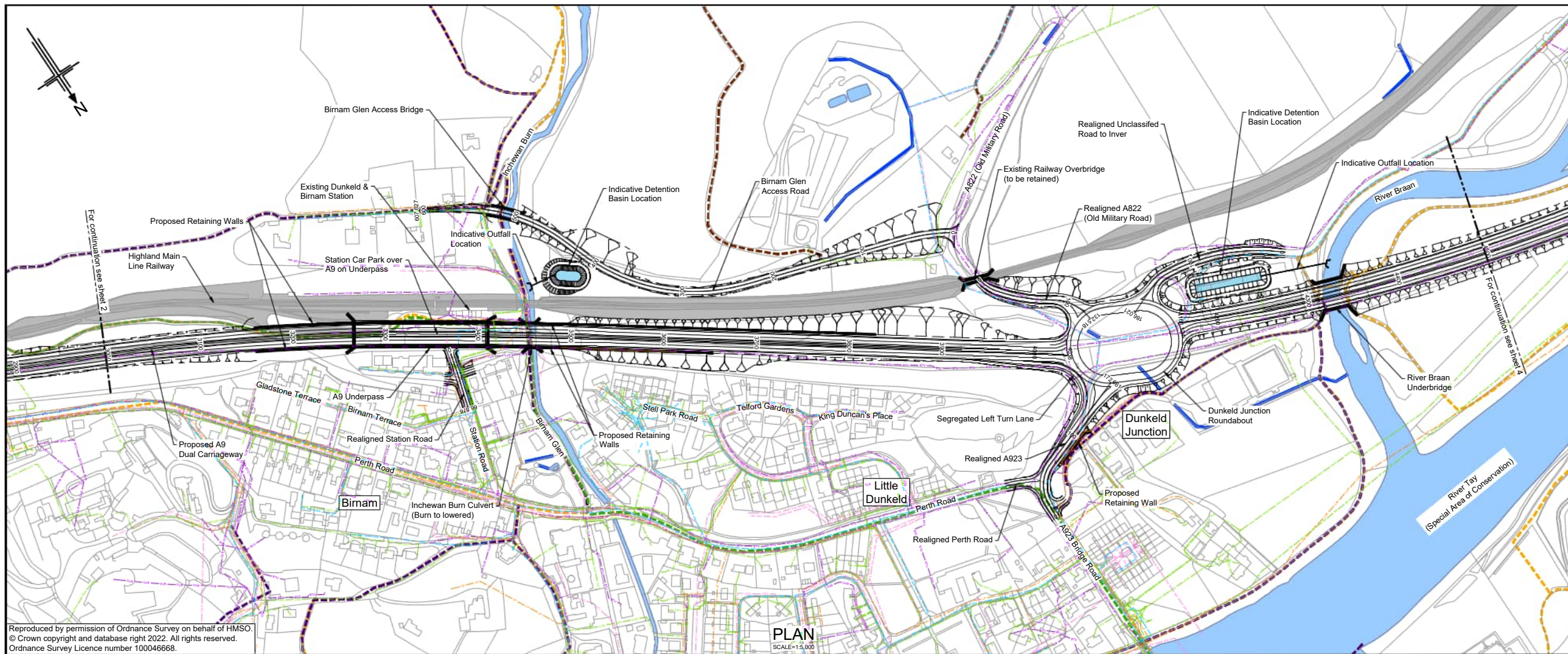
Jacobs No. B2140002

Drawing number A9P02-JAC-HML-B_MLZZZ_ML-FG-RD-0002 Rev C01

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PROFILE
 HORIZONTAL SCALE = 1:5,000
 VERTICAL SCALE = 1:1,000

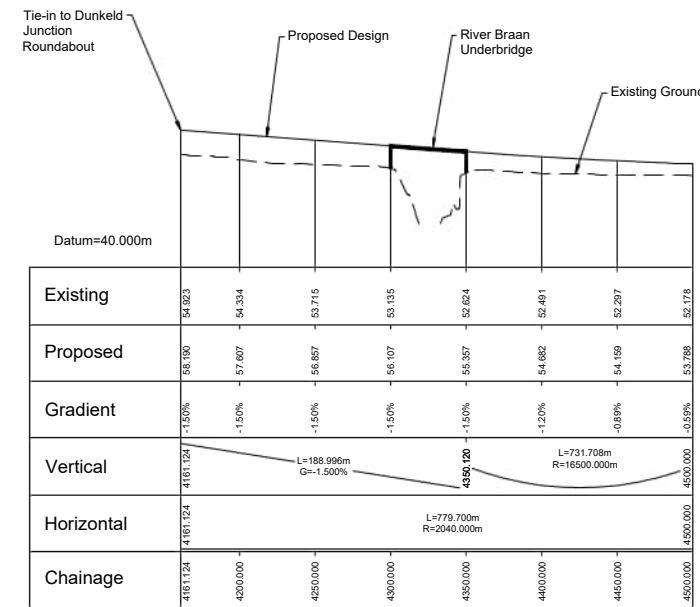
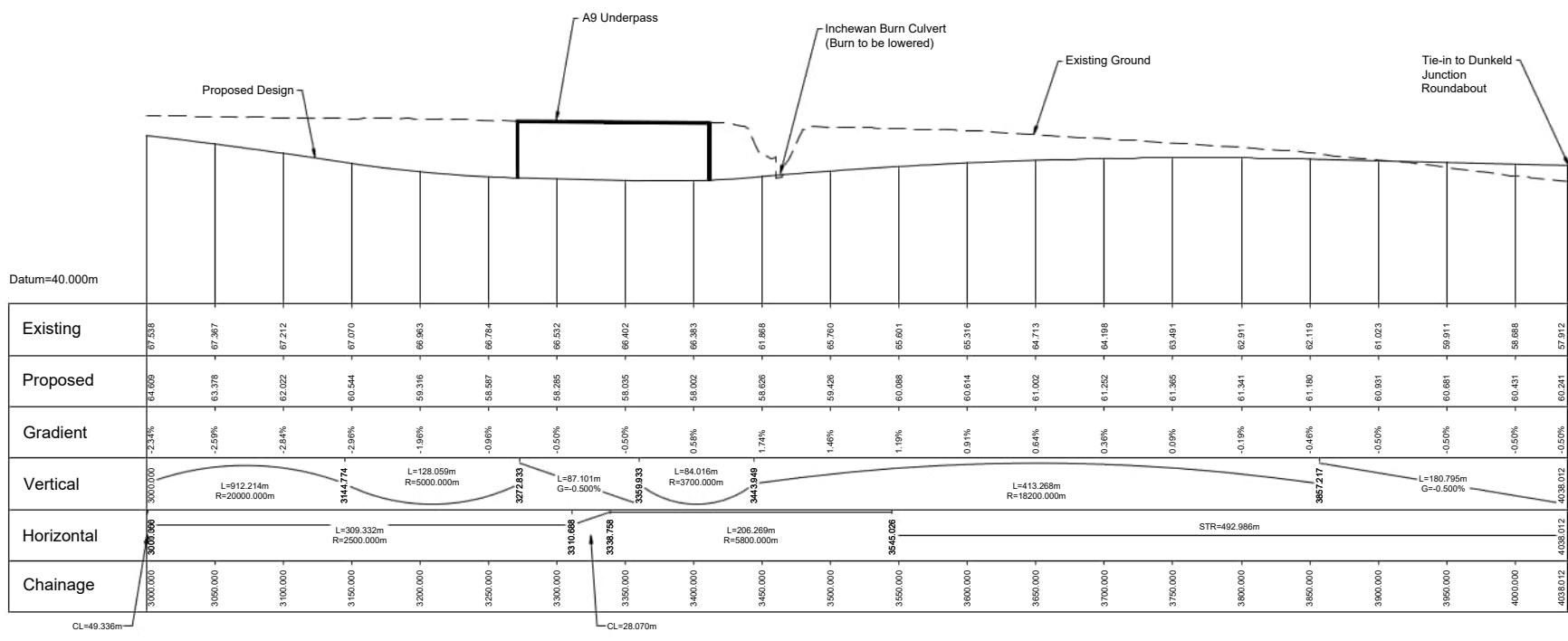


- Legend:
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Notes:

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PROFILES
HORIZONTAL SCALE = 1:5,000
VERTICAL SCALE = 1:1,000

CD1	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

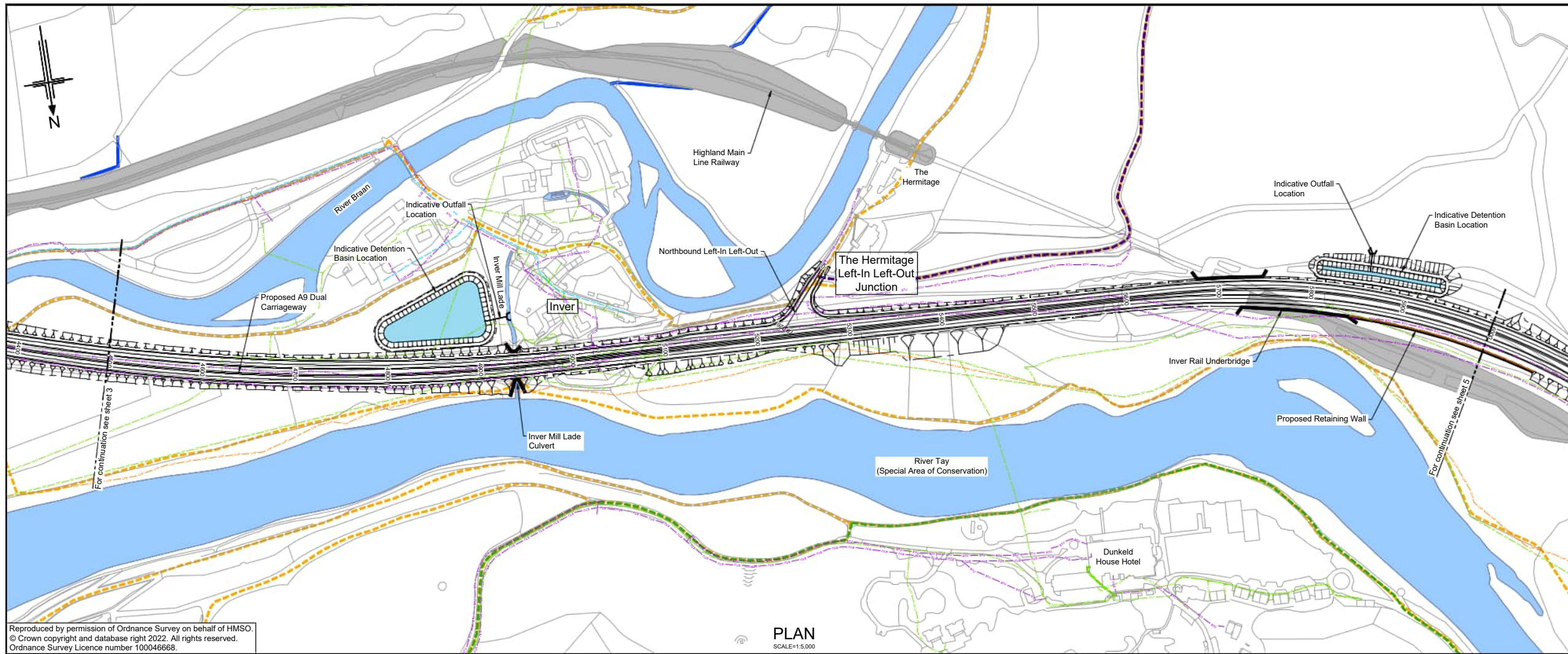
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Tel: +44(0)141 243 8000 Fax: +44(0)141 226 3109
www.jacobs.com



Drawing title
**DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2B, PLAN AND PROFILES
CH. 3000 - CH. 4500
SHEET 3 OF 6**

Drawing status	A - APPROVED AS STAGE COMPLETE	
Scale	AS SHOWN@A3	DO NOT SCALE
Jacobs No.	B2140002	
Drawing number	A9P02-JAC-HML-B_MLZZZ_ML-FG-RD-0003	Rev
		C01

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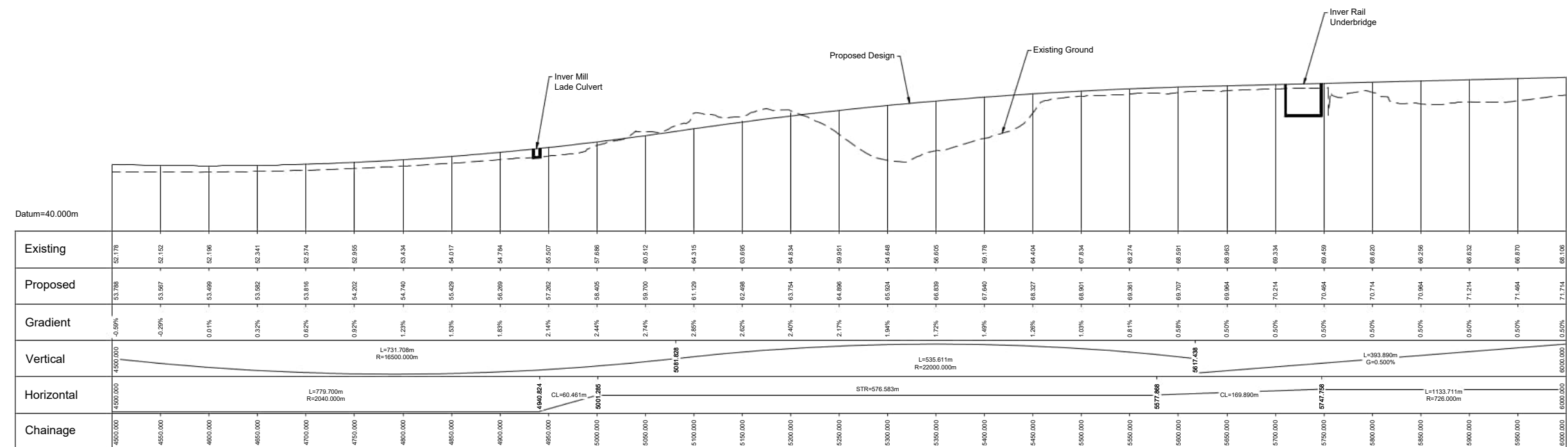
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 - Existing Surface Water Sewer

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PLAN
 SCALE=1:5,000

Notes:

- Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.



PROFILE
 HORIZONTAL SCALE = 1:5,000
 VERTICAL SCALE = 1:1,000

CO1	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

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 85 Bothwell St, Glasgow, G2 7HX
 Tel: +44(0)141 243 8200 Fax: +44(0)141 226 3109
 www.jacobs.com

Client

TRANSPORT SCOTLAND
 COMHAIL ALBA

Project

A9
 DUALLING
 FROM STREETS TO THE COUNTRY

Drawing title

**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 OPTION ST2B, PLAN AND PROFILE
 CH. 4500 - CH. 6000
 SHEET 4 OF 6**

Drawing status

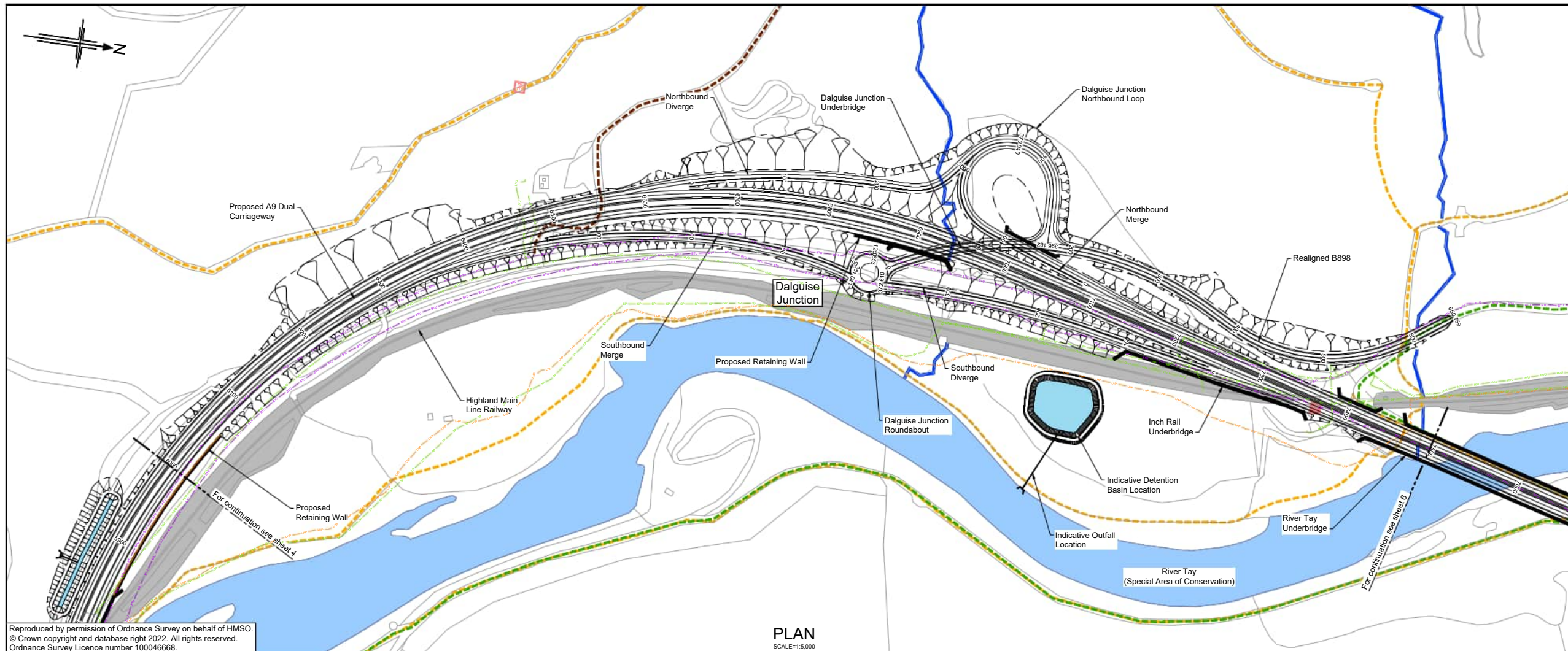
A - APPROVED AS STAGE COMPLETE

Scale AS SHOWN@A3 DO NOT SCALE

Jacobs No. B2140002

Drawing number A9P02-JAC-HML-B_MLZZZ_ML-FG-RD-0004 Rev C01

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Notes:

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C01	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

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Tel: +44(0)141 243 8200 Fax: +44(0)141 226 3109
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Project
**DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2B, PLAN AND PROFILE
CH. 6000 - CH. 7500
SHEET 5 OF 6**

Drawing title
A - APPROVED AS STAGE COMPLETE

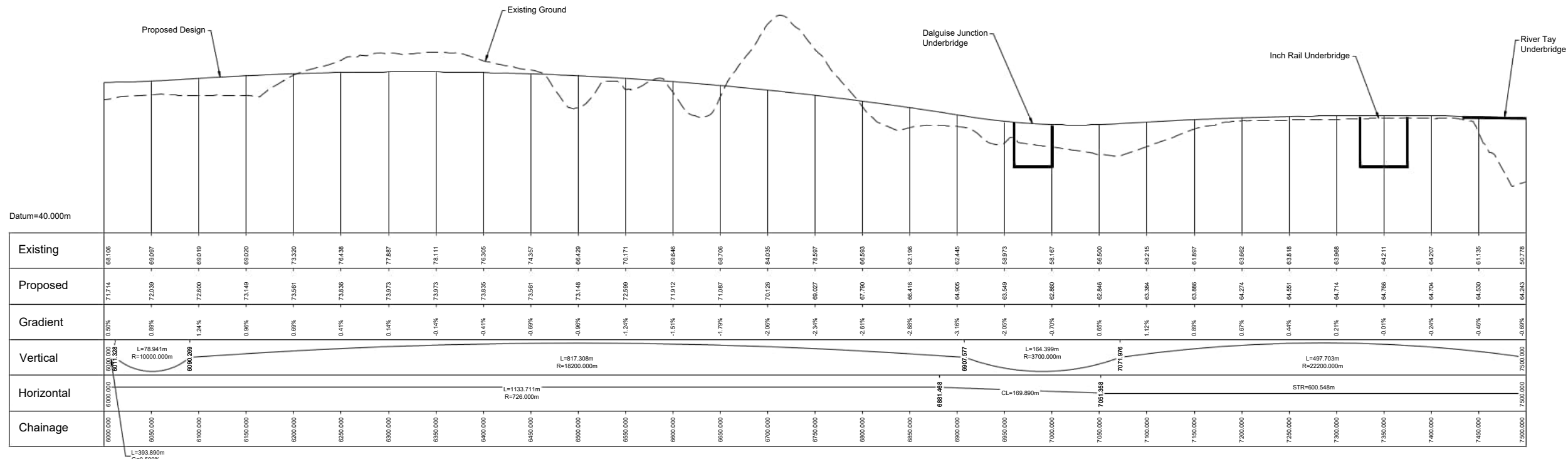
Scale
AS SHOWN@A3 DO NOT SCALE

Jacobs No. B2140002

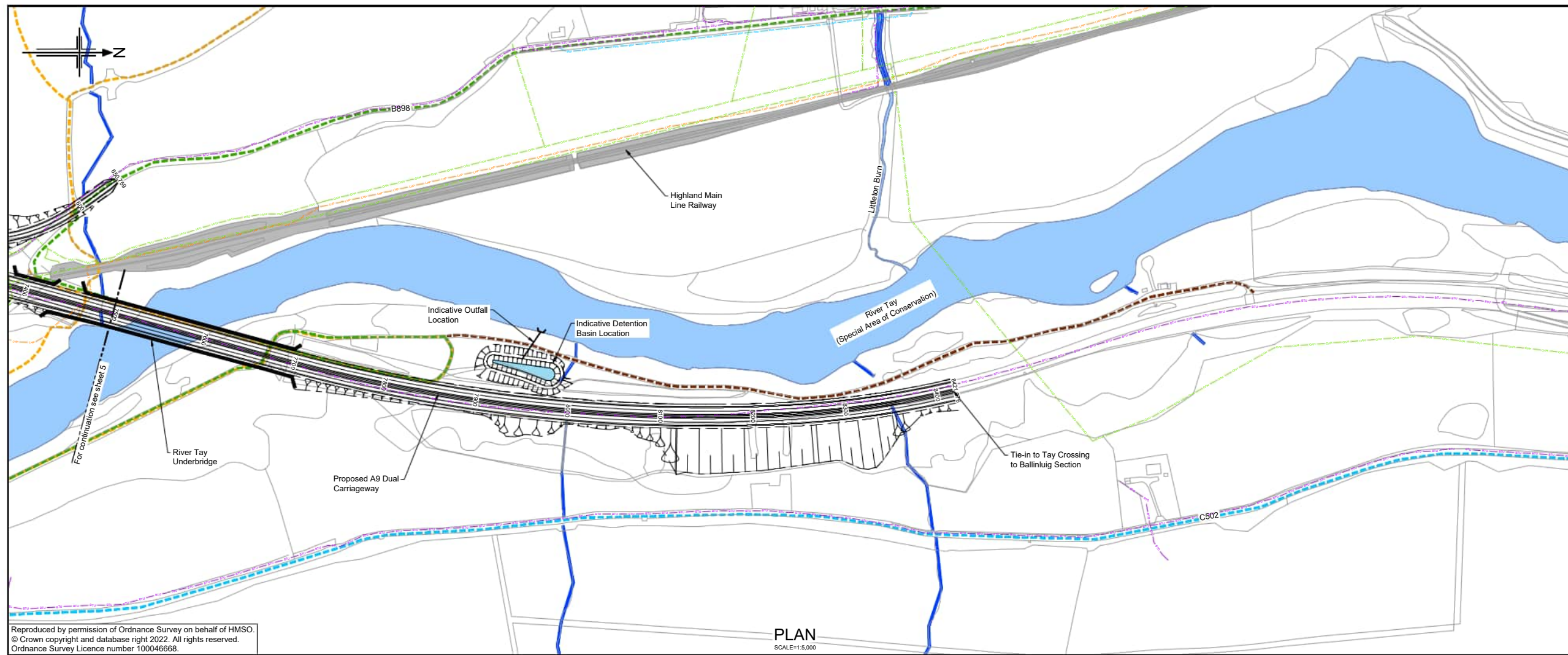
Drawing number
A9P02-JAC-HML-B_MLZZZ_ML-FG-RD-0005

Rev
C01

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PROFILE
HORIZONTAL SCALE = 1:5,000
VERTICAL SCALE = 1:1,000



- Legend:
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PLAN
 SCALE=1:5,000

Notes:

- Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.

C01	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

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Drawing title
**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 OPTION ST2B, PLAN AND PROFILE
 CH. 7500 - END
 SHEET 6 OF 6**

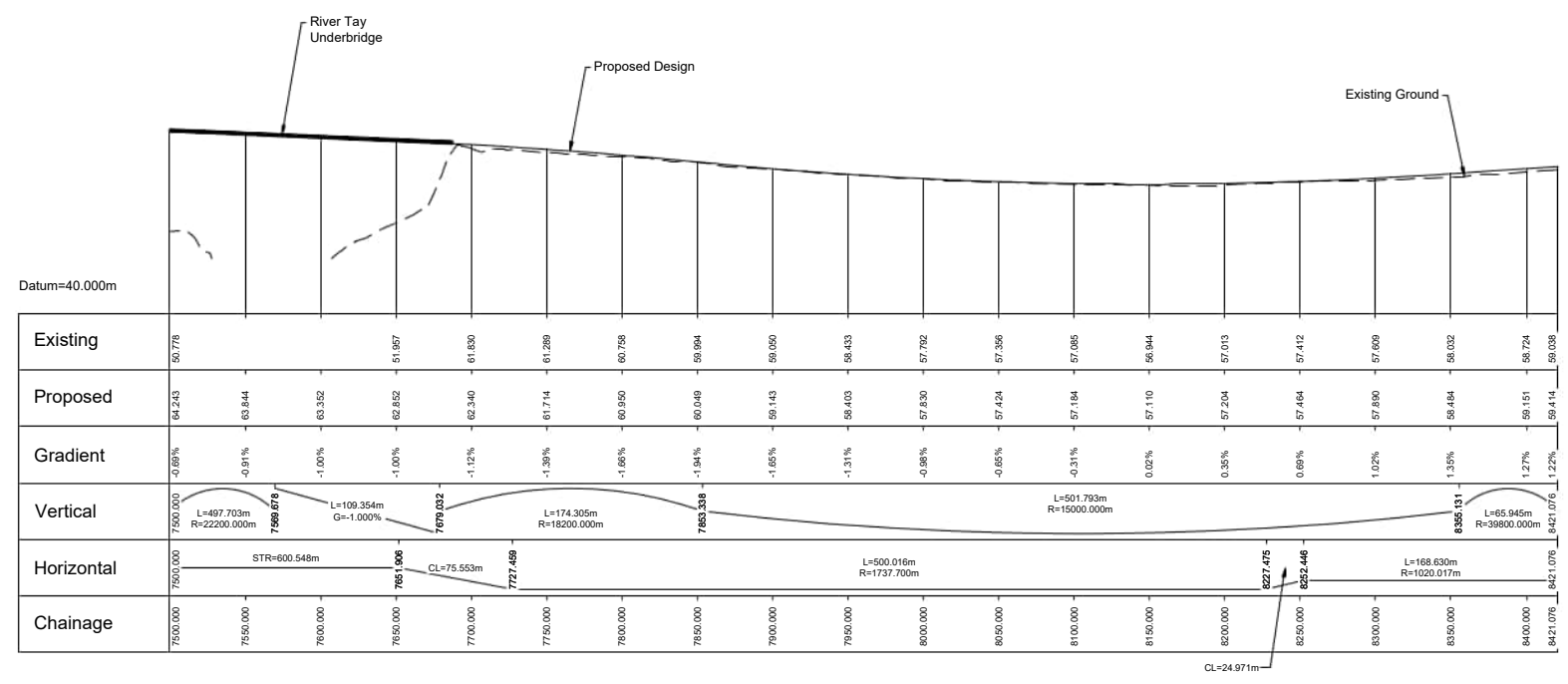
Drawing status
A - APPROVED AS STAGE COMPLETE

Scale AS SHOWN@A3 DO NOT SCALE

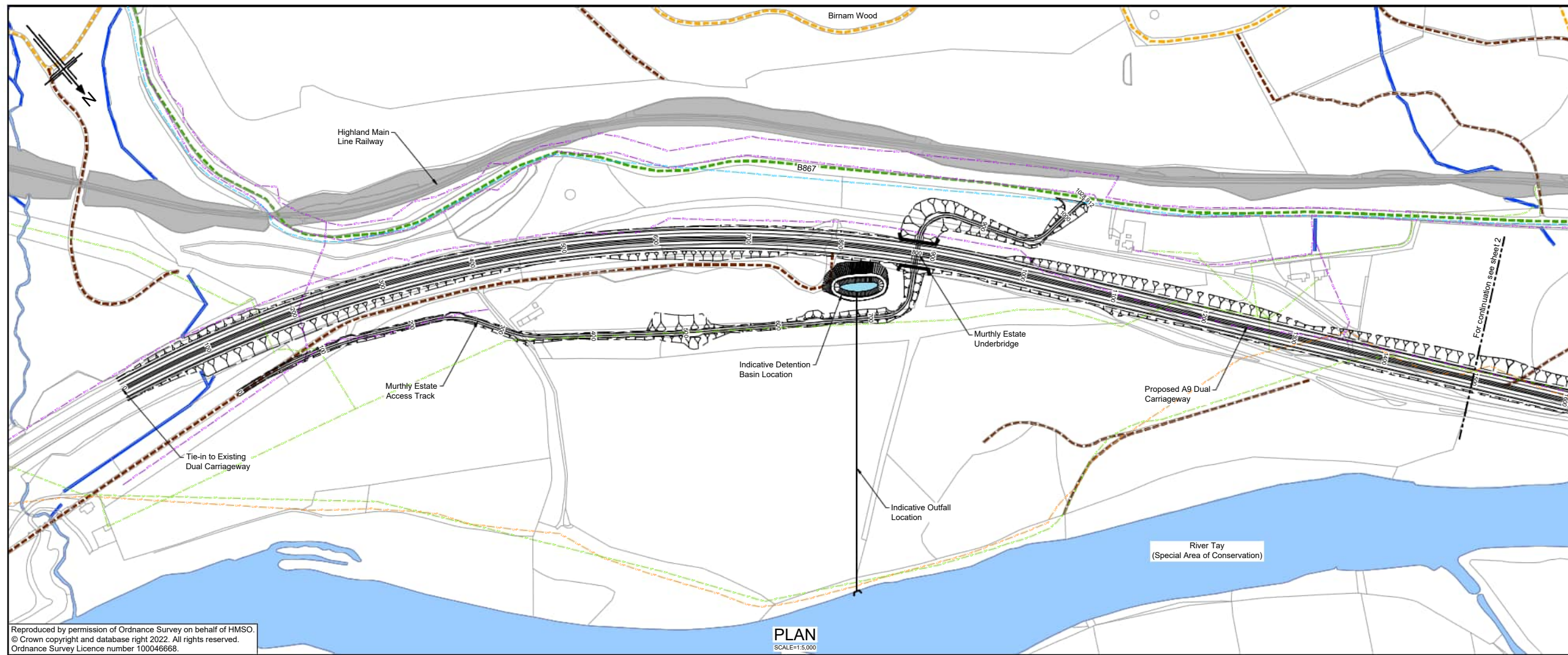
Jacobs No. B2140002

Drawing number A9P02-JAC-HML-B_MLZZZ_ML-FG-RD-0006 Rev C01

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PROFILE
 HORIZONTAL SCALE = 1:5,000
 VERTICAL SCALE = 1:1,000

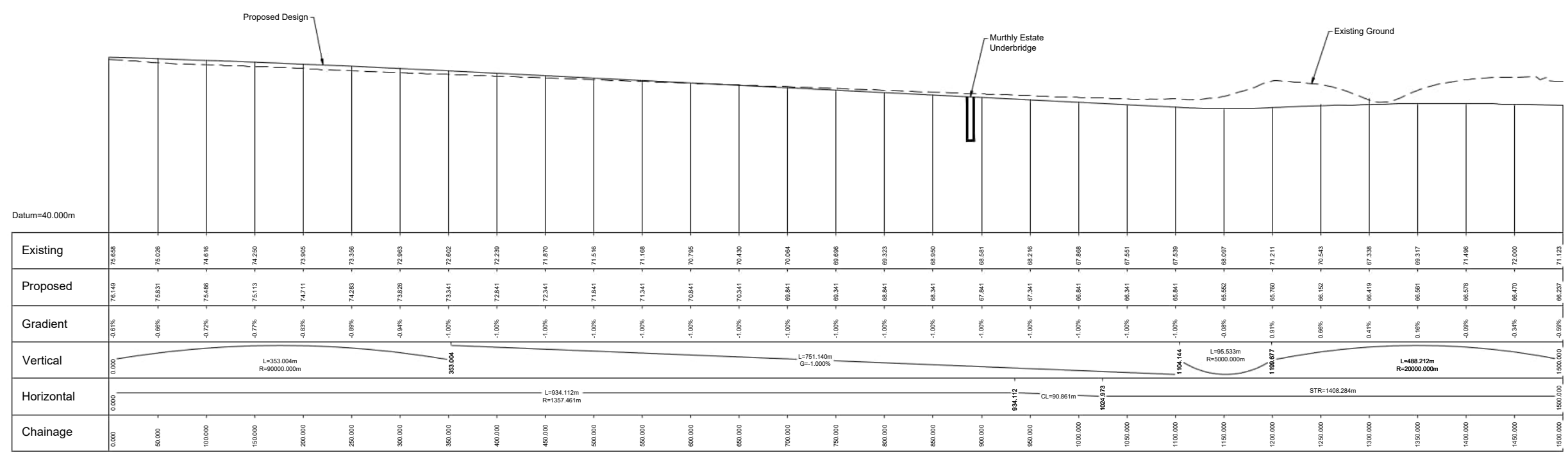


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- Legend:
- Natural Earthwork Slope (1:2 or shallower)
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 - Bridge Structure
 - Retaining Wall Structure
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 - Existing Surface Water Sewer

Notes:

- Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.



PROFILE
 HORIZONTAL SCALE = 1:5,000
 VERTICAL SCALE = 1:1,000

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Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

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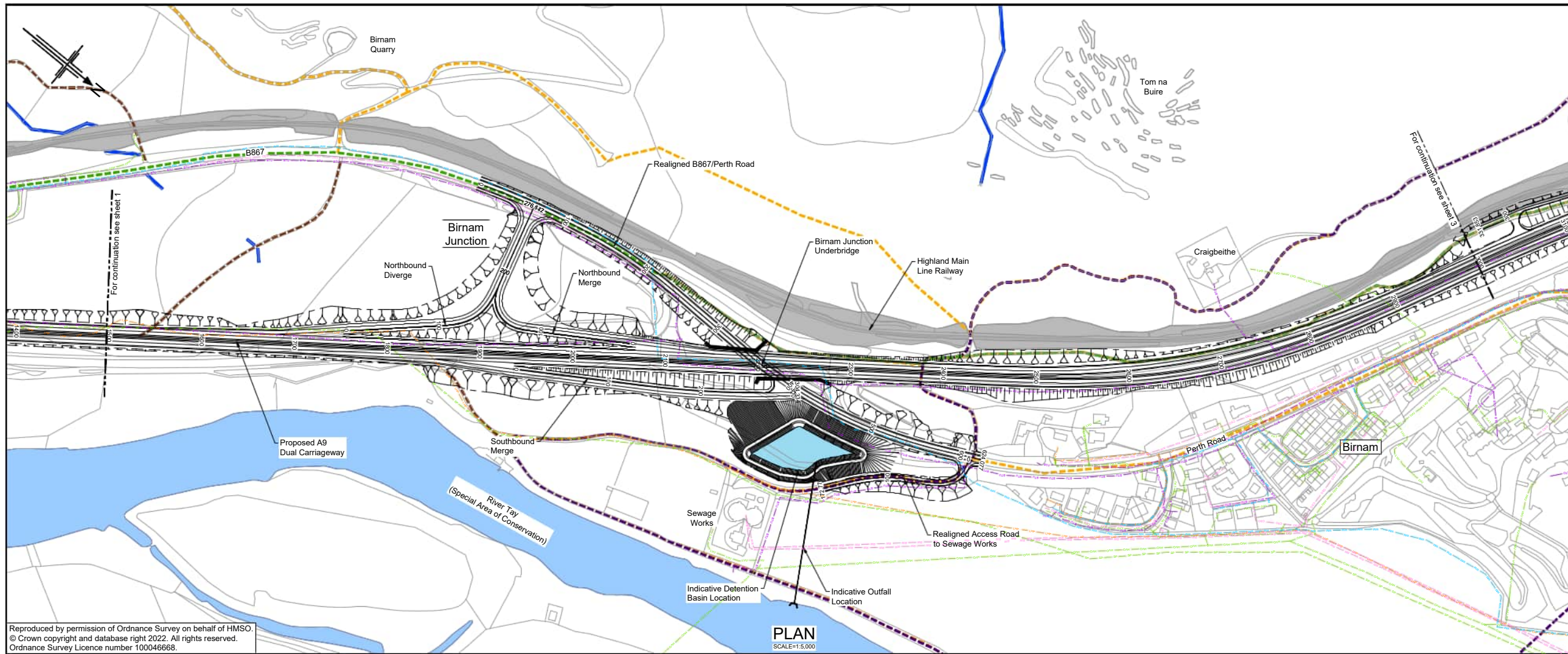
Drawing title
**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 OPTION ST2C, PLAN AND PROFILE
 CH. 0 - CH. 1500
 SHEET 1 OF 6**

Drawing status
A - APPROVED AS STAGE COMPLETE

Scale AS SHOWN@A3 DO NOT SCALE
 Jacobs No. B2140002

Drawing number A9P02-JAC-HML-C_MLZZZ_ML-FG-RD-0001 Rev C01

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PLAN
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Notes:

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C01	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
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Drawing title
**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 OPTION ST2C, PLAN AND PROFILE
 CH. 1500 - CH. 3000
 SHEET 2 OF 6**

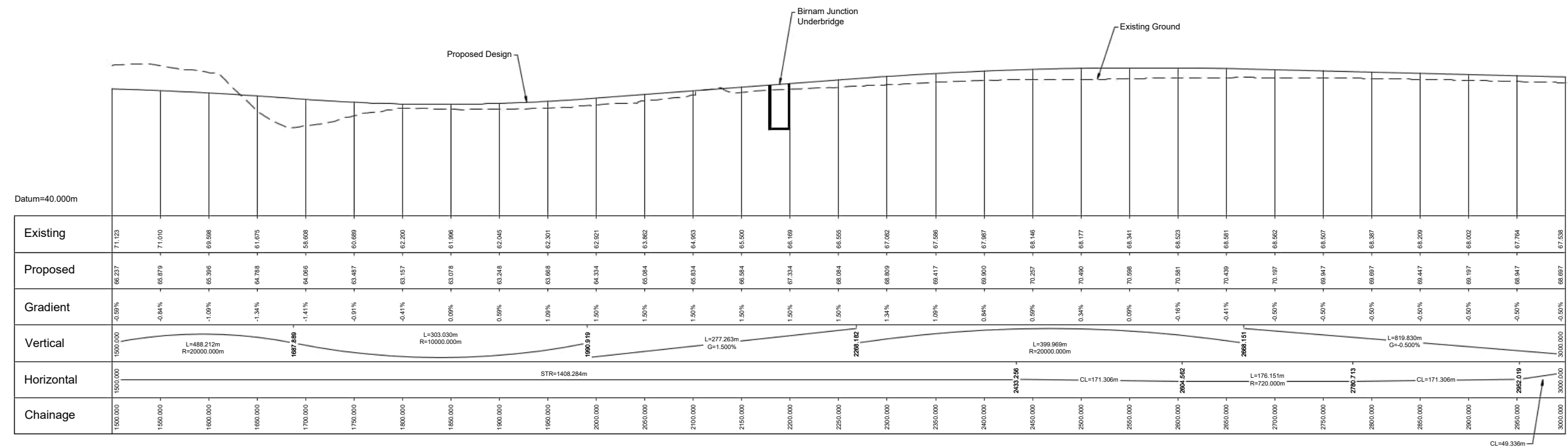
Drawing status
A - APPROVED AS STAGE COMPLETE

Scale AS SHOWN@A3 DO NOT SCALE

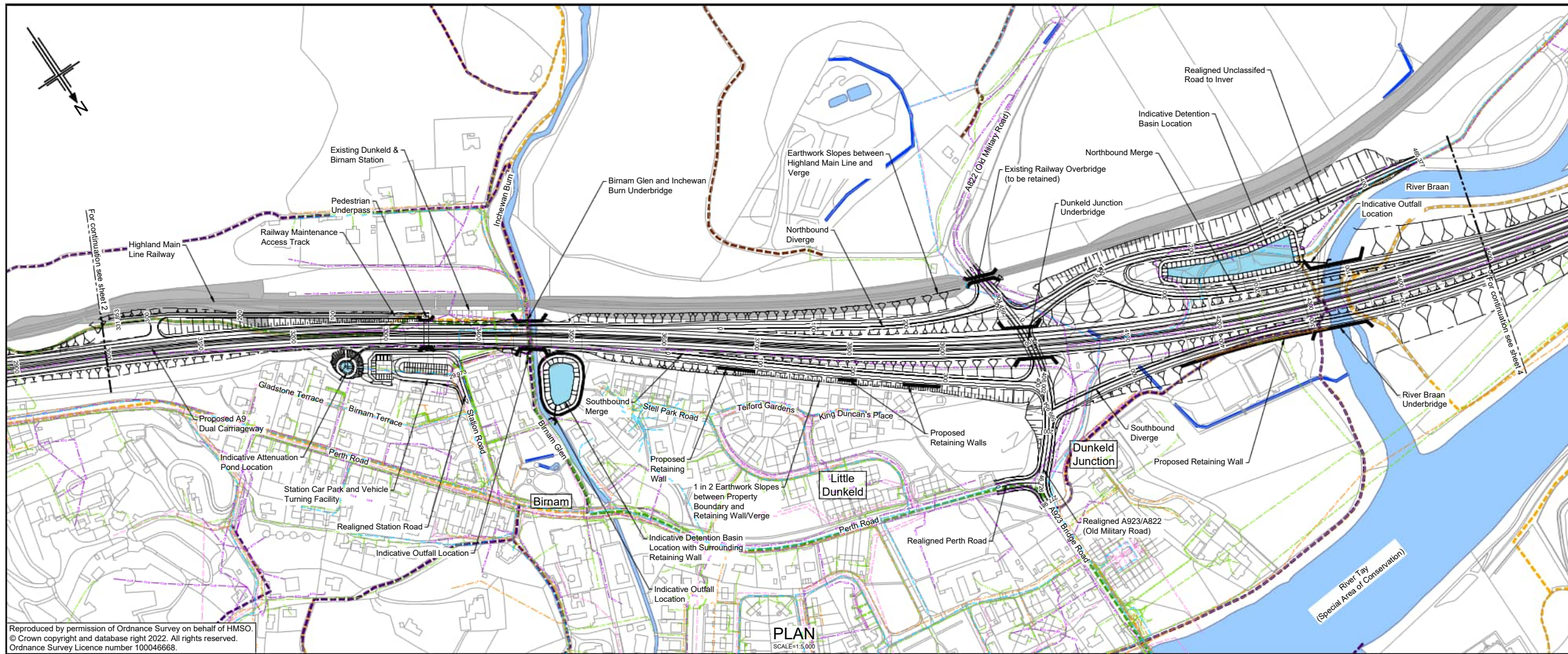
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Drawing number A9P02-JAC-HML-C_MLZZZ_ML-FG-RD-0002 Rev C01

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PROFILE
 HORIZONTAL SCALE = 1:5,000
 VERTICAL SCALE = 1:1,000



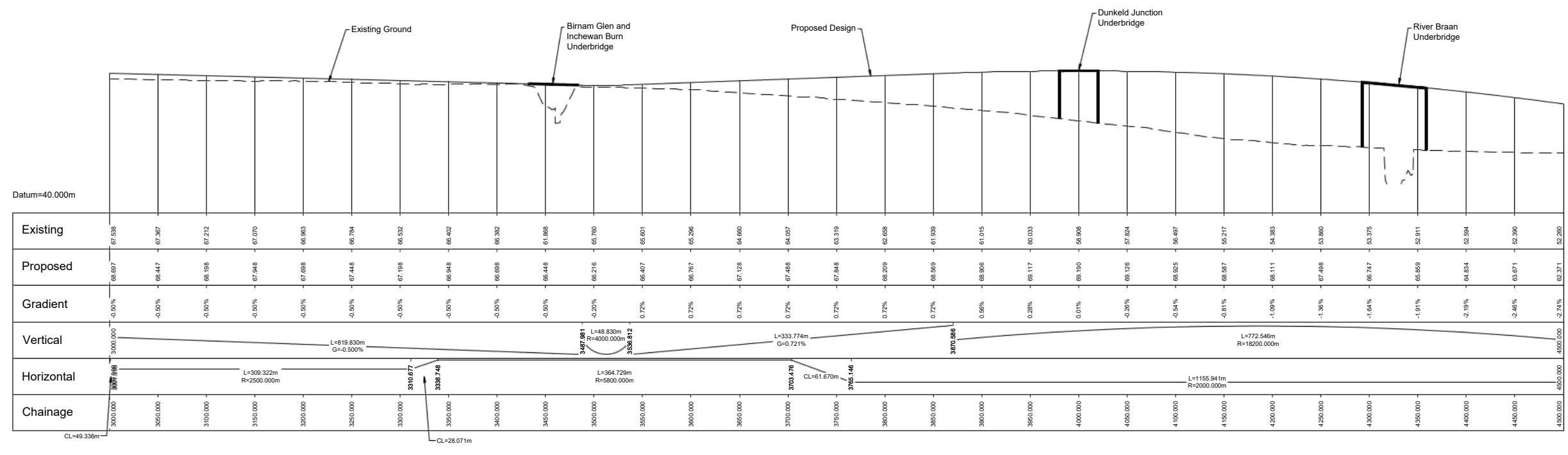
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PLAN
 SCALE=1:5,000

Notes:

- Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.



PROFILE
 HORIZONTAL SCALE = 1:5,000
 VERTICAL SCALE = 1:1,000

C01	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
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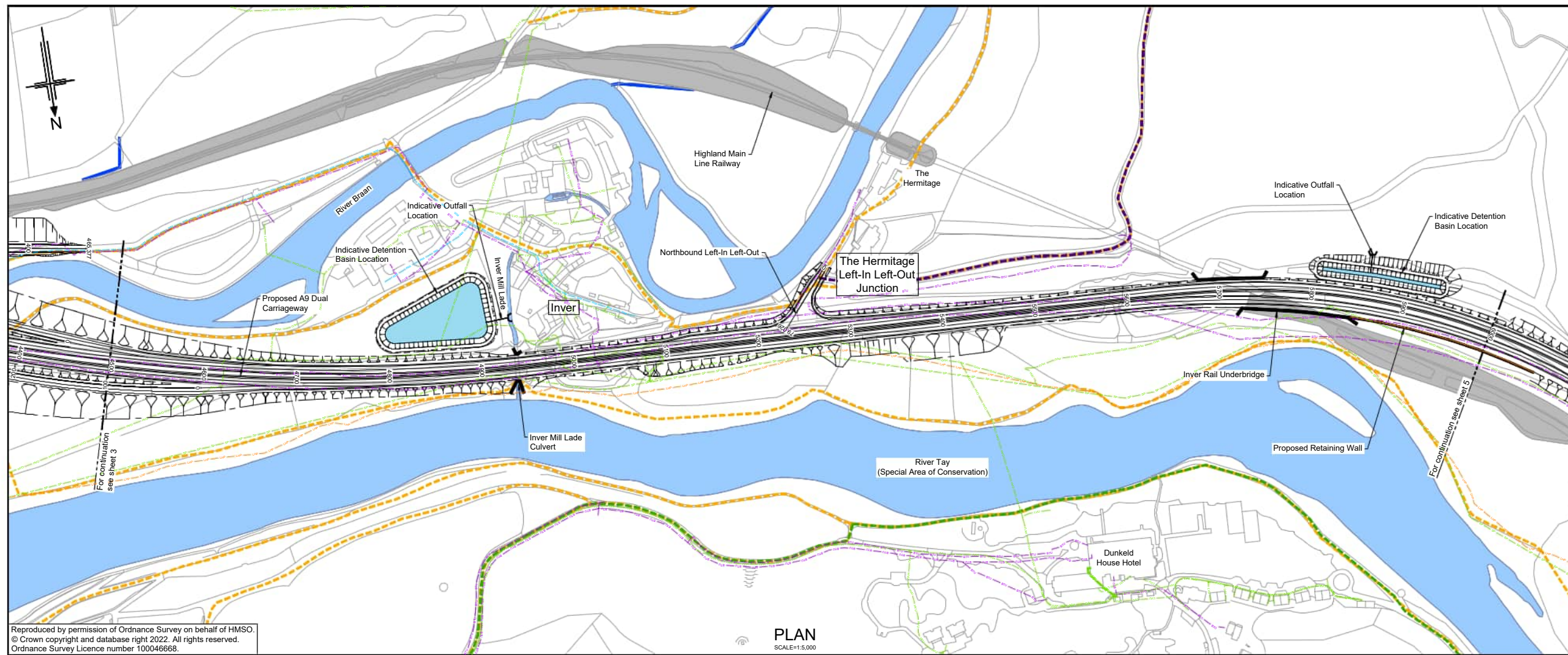
DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2C, PLAN AND PROFILE
CH. 3000 - CH. 4500
SHEET 3 OF 6

Drawing status
A - APPROVED AS STAGE COMPLETE

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 Jacobs No. B2140002

Drawing number
A9P02-JAC-HML-C_MLZZZ_ML-FG-RD-0003 Rev
C01

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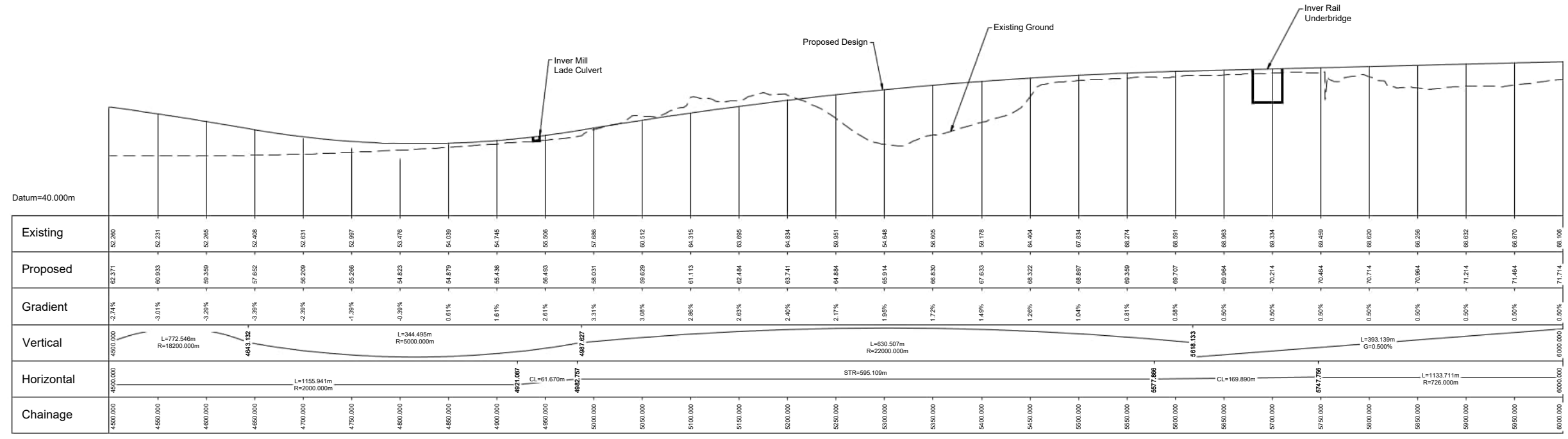


- Legend:
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Notes:

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Client

TRANSPORT SCOTLAND
COMHAIL ALBA

Project

A9
DUALLING
FRESH TO IMPROVE
Pass of Birnam to Tay Crossing

Drawing title
**DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2C, PLAN AND PROFILE
CH. 4500 - CH. 6000
SHEET 4 OF 6**

Drawing status
A - APPROVED AS STAGE COMPLETE

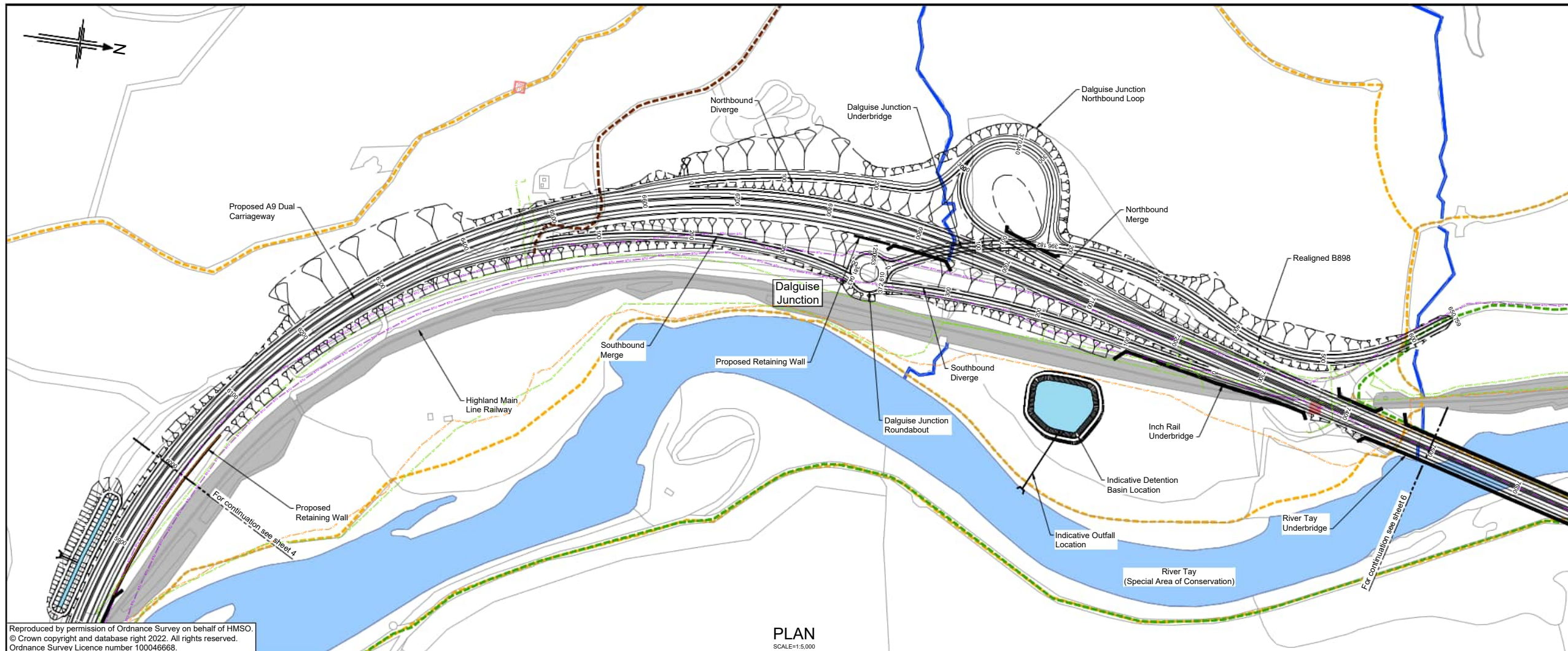
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Jacobs No. B2140002

Drawing number A9P02-JAC-HML-C_MLZZZ_ML-FG-RD-0004 Rev C01

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PROFILE
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VERTICAL SCALE = 1:1,000

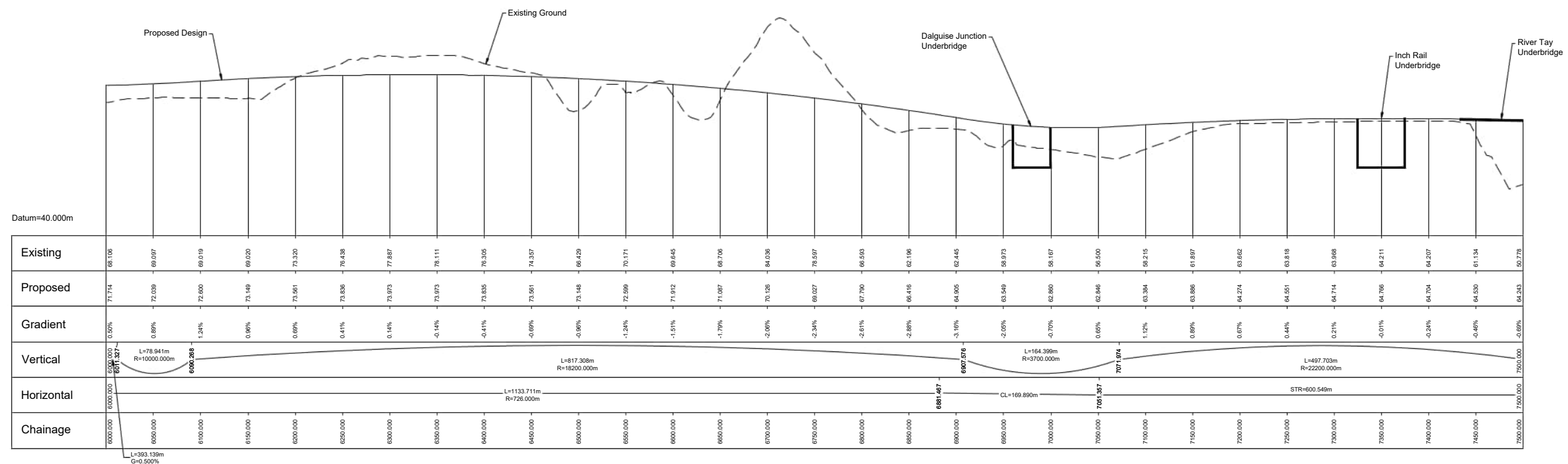


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Notes:

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PROFILE
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VERTICAL SCALE = 1:1,000

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Client

TRANSPORT SCOTLAND
COMHAIL ALBA

Project

A9
DUALLING
FRESH TO IMPROVE
Pass of Birnam to Tay Crossing

Drawing title

DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2C, PLAN AND PROFILE
CH. 6000 - CH. 7500
SHEET 5 OF 6

Drawing status

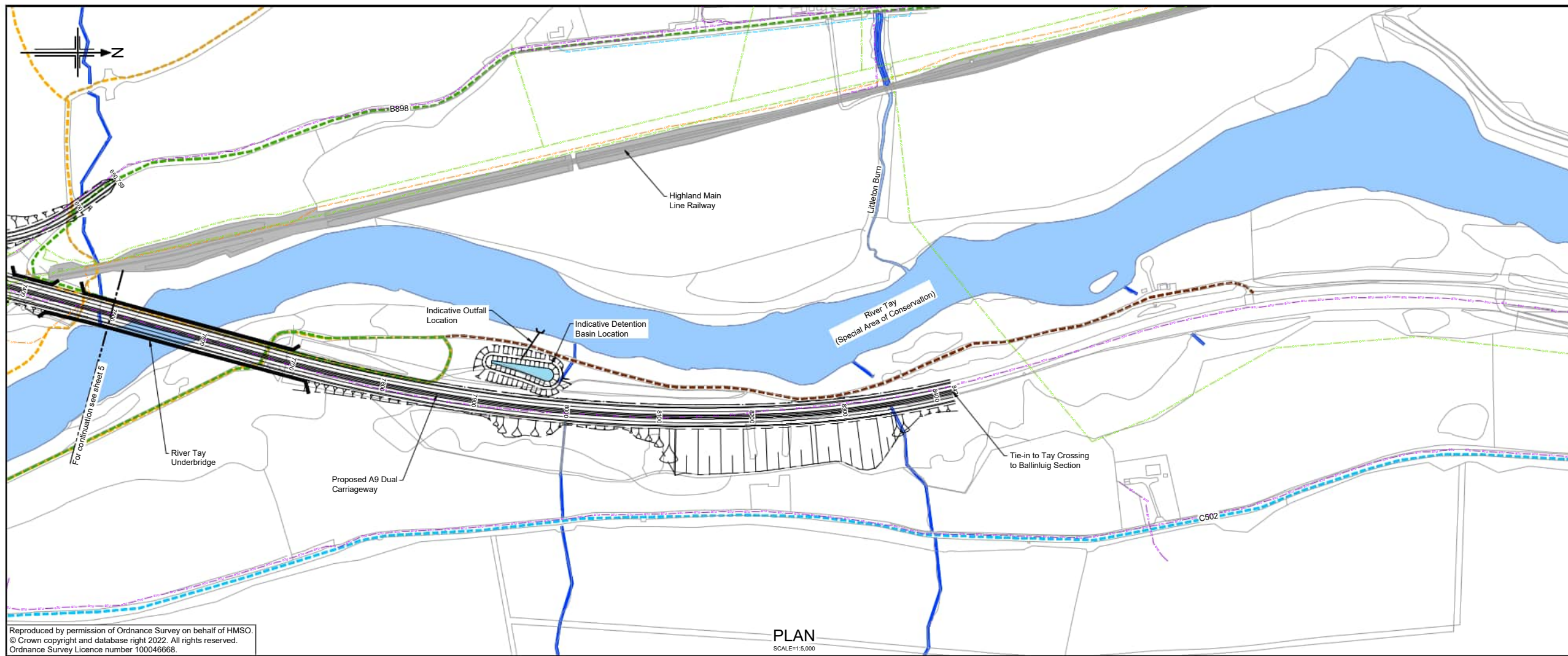
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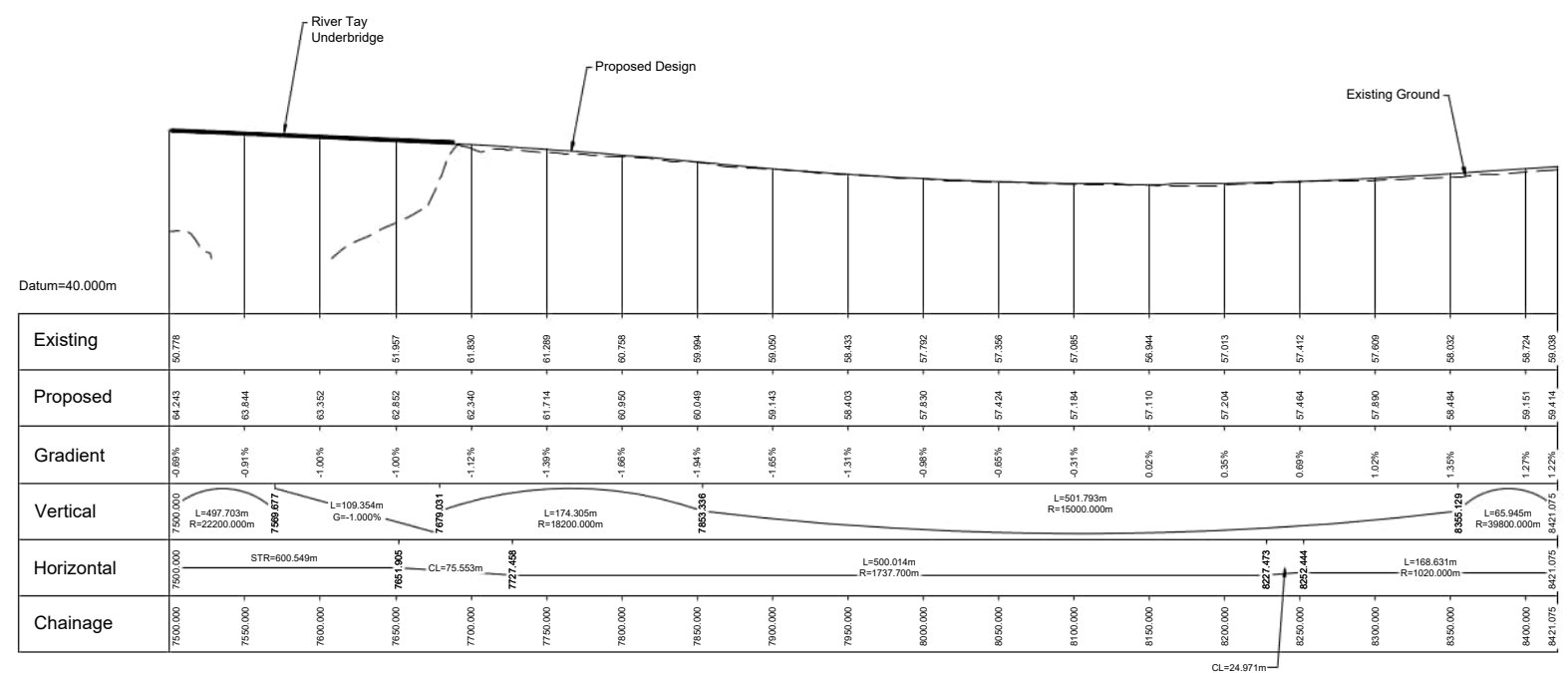
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PLAN
 SCALE=1:5,000

Notes:

- Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.



PROFILE
 HORIZONTAL SCALE = 1:5,000
 VERTICAL SCALE = 1:1,000

C01	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
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Drawing title
**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 OPTION ST2C, PLAN AND PROFILE
 CH. 7500 - END
 SHEET 6 OF 6**

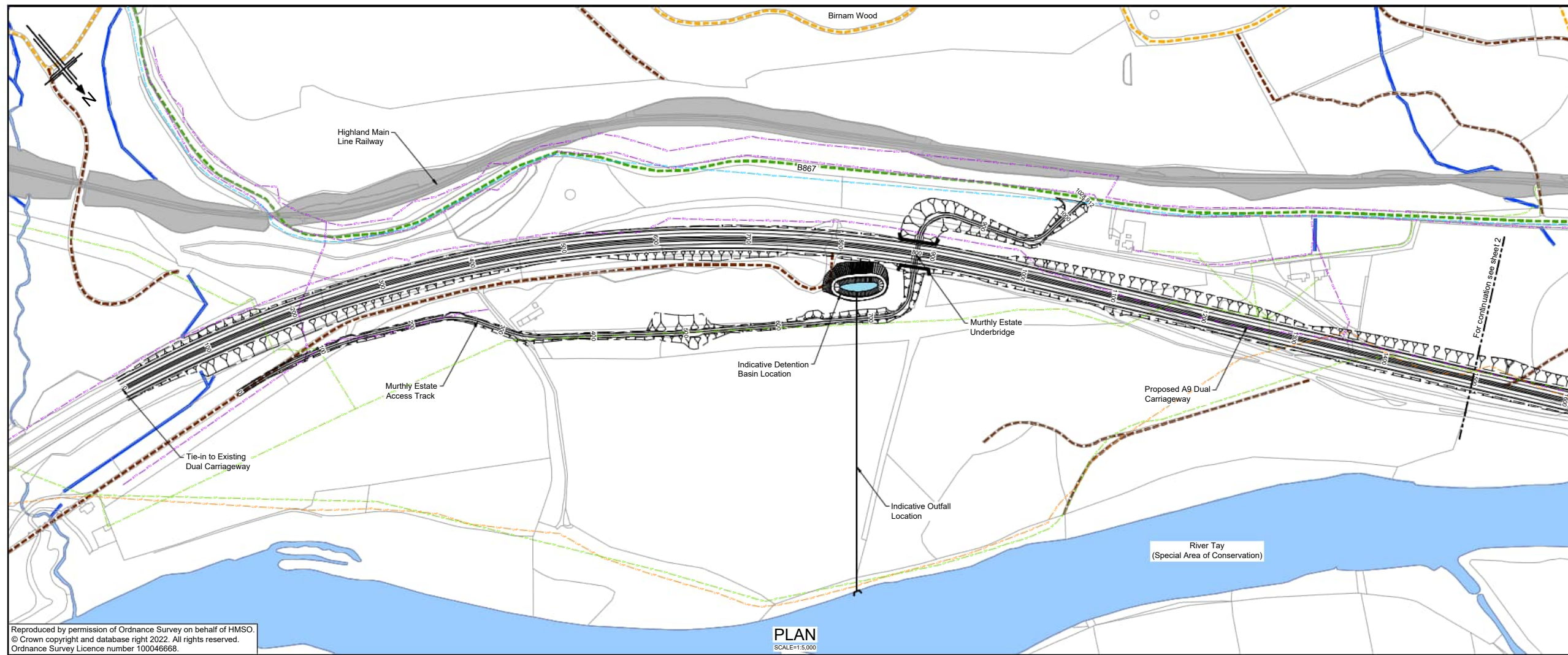
Drawing status
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Jacobs No. B2140002

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PLAN
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C01	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd



**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 OPTION ST2D, PLAN AND PROFILE
 CH. 0 - CH. 1500
 SHEET 1 OF 6**

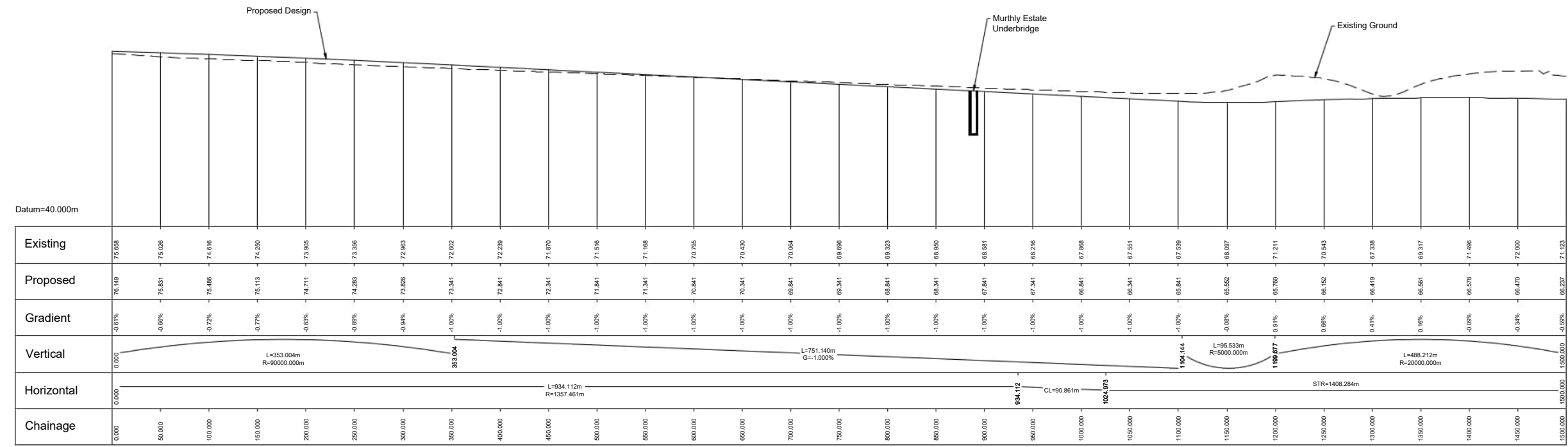
Drawing status: **A - APPROVED AS STAGE COMPLETE**

Scale: AS SHOWN@A3 DO NOT SCALE

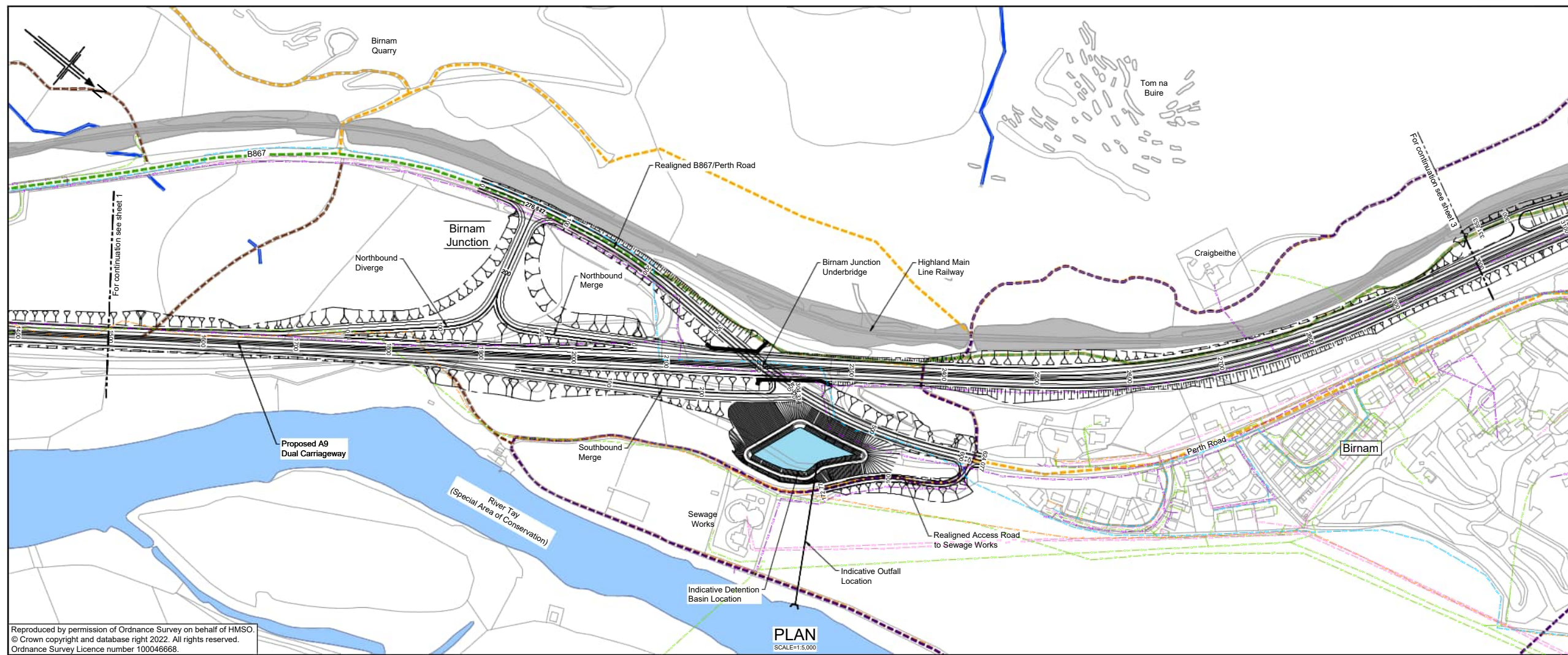
Jacobs No. B2140002

Drawing number: A9P02-JAC-HML-D_MLZZZ_ML-FG-RD-0001 Rev: C01

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PROFILE
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 VERTICAL SCALE = 1:1,000



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PLAN
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Client

TRANSPORT SCOTLAND
 COMH-DHAIL ALBA

Project

A9
 DUALLING
 PERTH TO INVERNESS
 Pass of Birnam to Tay Crossing

Drawing title

**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 OPTION ST2D, PLAN AND PROFILE
 CH. 1500 - CH. 3000
 SHEET 2 OF 6**

Drawing status

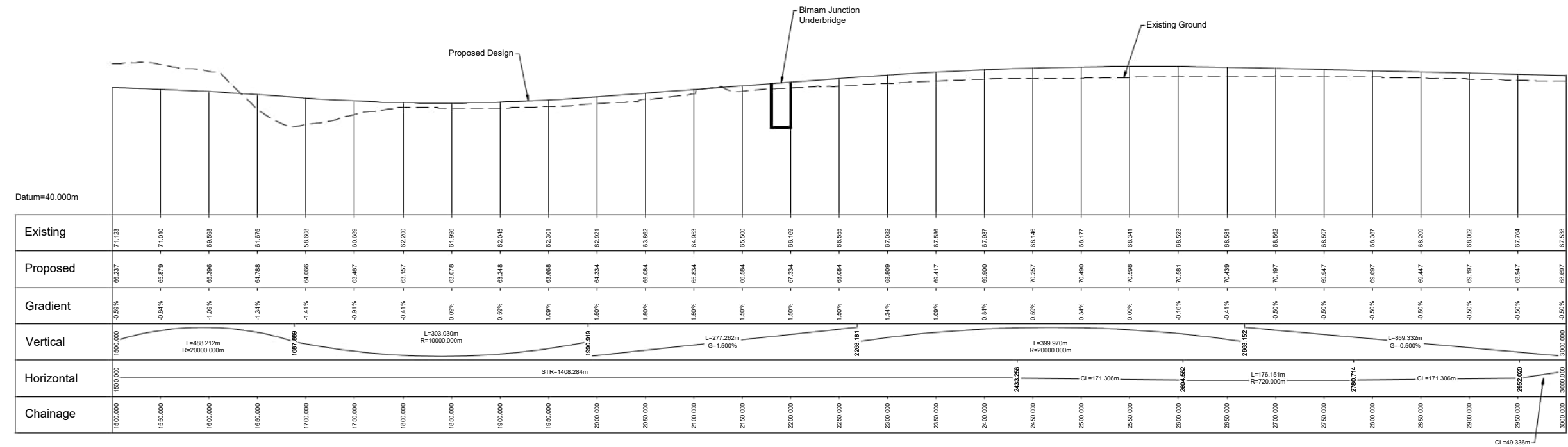
A - APPROVED AS STAGE COMPLETE

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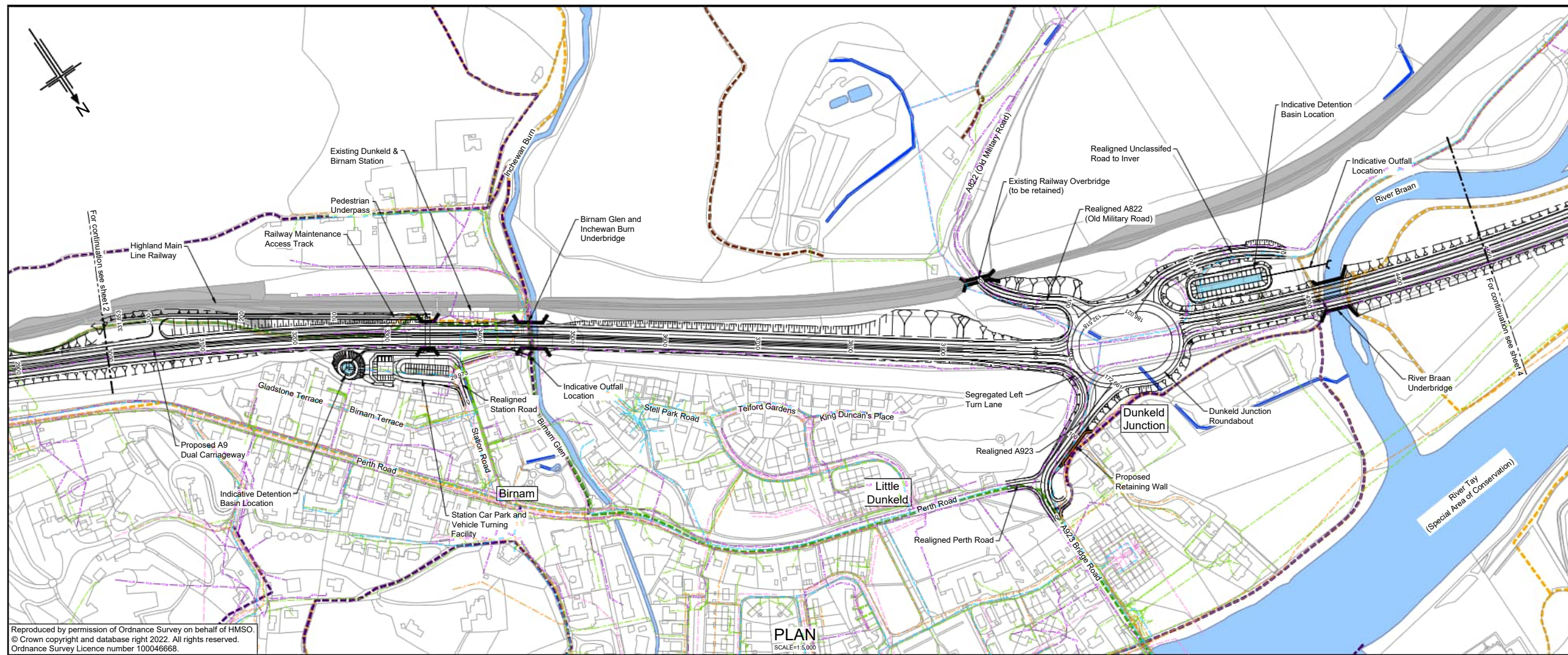
Jacobs No. B2140002

Drawing number A9P02-JAC-HML-D_MLZZZ_ML-FG-RD-0002 Rev C01

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PROFILE
 HORIZONTAL SCALE = 1:5,000
 VERTICAL SCALE = 1:1,000



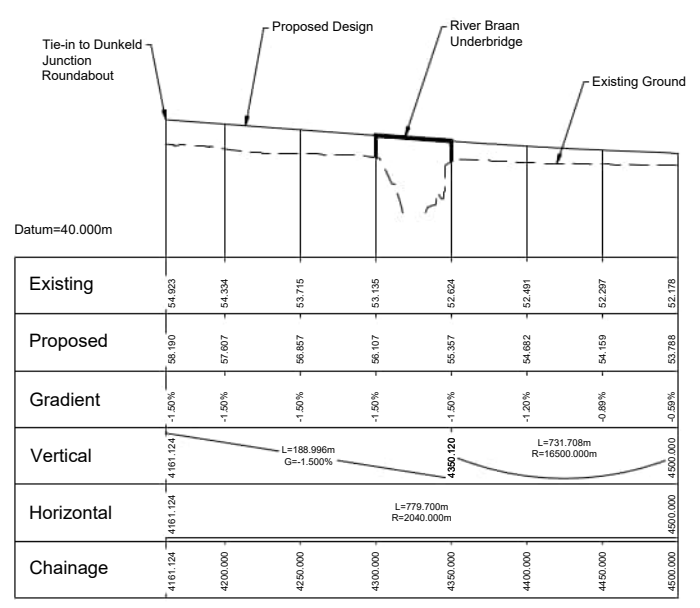
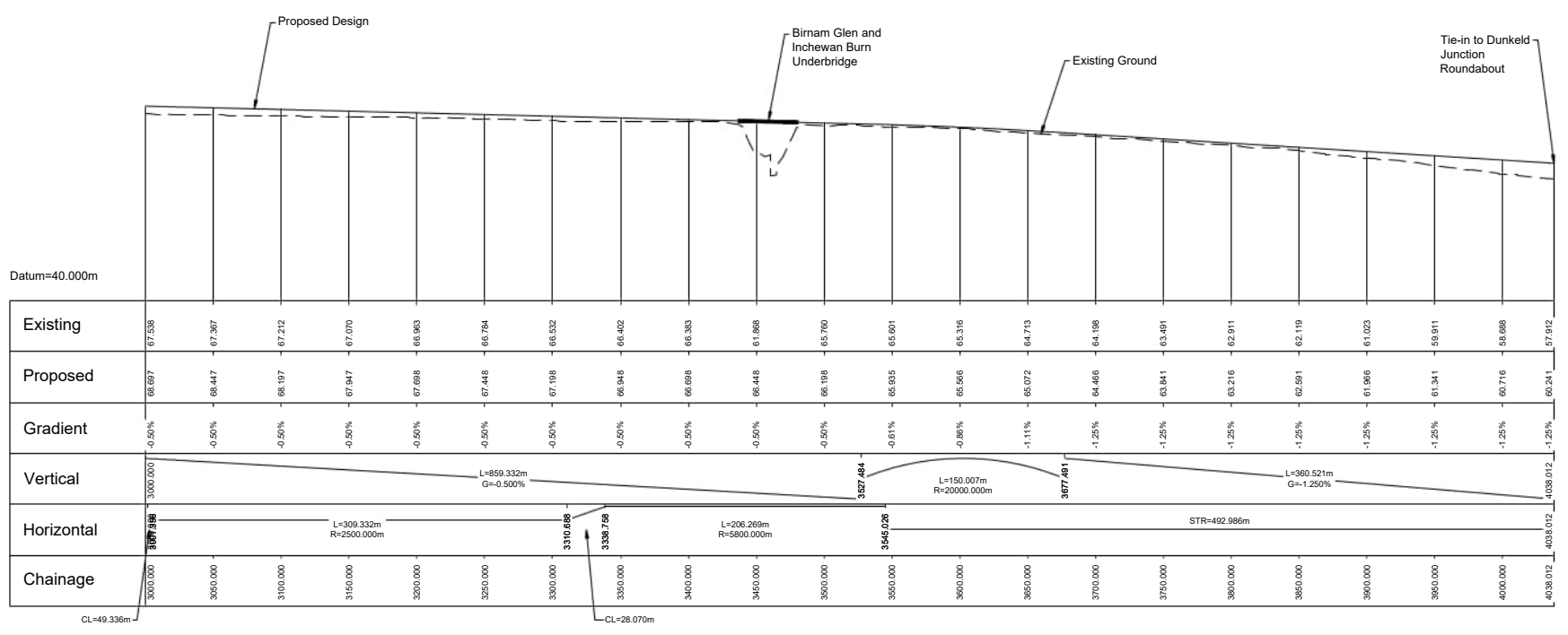
- Legend:**
- Natural Earthwork Slope (1:2 or shallower)
 - Reinforced Earthwork Slope (steeper than 1:2)
 - Bridge Structure
 - Retaining Wall Structure
 - Detention Basin (Indicative)
 - Outfall Headwall
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- Infrastructure**
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 - Regional Cycle Network Route
 - Core Paths
 - Local Paths
- Existing Utilities**
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 - Existing British Telecom Underground Cable
 - Existing Everything Everywhere Mast
 - Existing O2/Three Mast
 - Existing SSE High Voltage Overhead Cable
 - Existing SSE High Voltage Underground Cable
 - Existing SSE Low Voltage Overhead Cable
 - Existing SSE Low Voltage Underground Cable
 - Existing SSE Pipe
 - Existing SGN Local High Pressure Main
 - Existing SGN Low Pressure Main
 - Existing Water Main
 - Existing Foul Water Sewer
 - Existing Rising Water Main
 - Existing Combined Sewer Outfall
 - Existing Surface Water Sewer

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PLAN
 SCALE=1:5,000

Notes:

- Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.



PROFILES
 HORIZONTAL SCALE = 1:5,000
 VERTICAL SCALE = 1:1,000

C01	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

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DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2D, PLAN AND PROFILES
CH. 3000 - CH. 4500
SHEET 3 OF 6

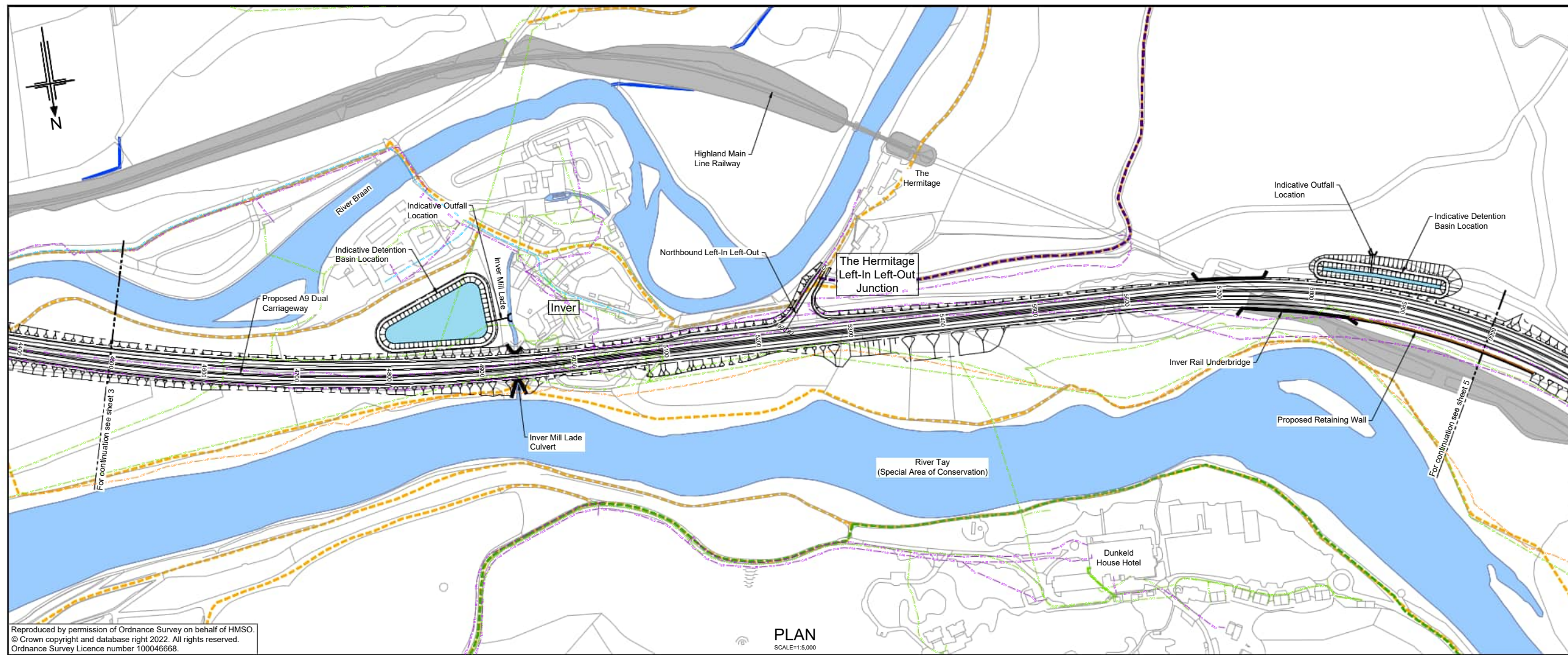
Drawing status
A - APPROVED AS STAGE COMPLETE

Scale AS SHOWN@A3 DO NOT SCALE

Jacobs No. B2140002

Drawing number A9P02-JAC-HML-D_MLZZZ_ML-FG-RD-0003 Rev C01

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Notes:

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C01	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

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www.jacobs.com

Client

TRANSPORT SCOTLAND
COMHDAIL ALBA

Project

A9
DUALLING
FRESH TO IMPROVE
Pass of Birnam to Tay Crossing

Drawing title

**DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2D, PLAN AND PROFILE
CH. 4500 - CH. 6000
SHEET 4 OF 6**

Drawing status

A - APPROVED AS STAGE COMPLETE

Scale

AS SHOWN@A3 | DO NOT SCALE

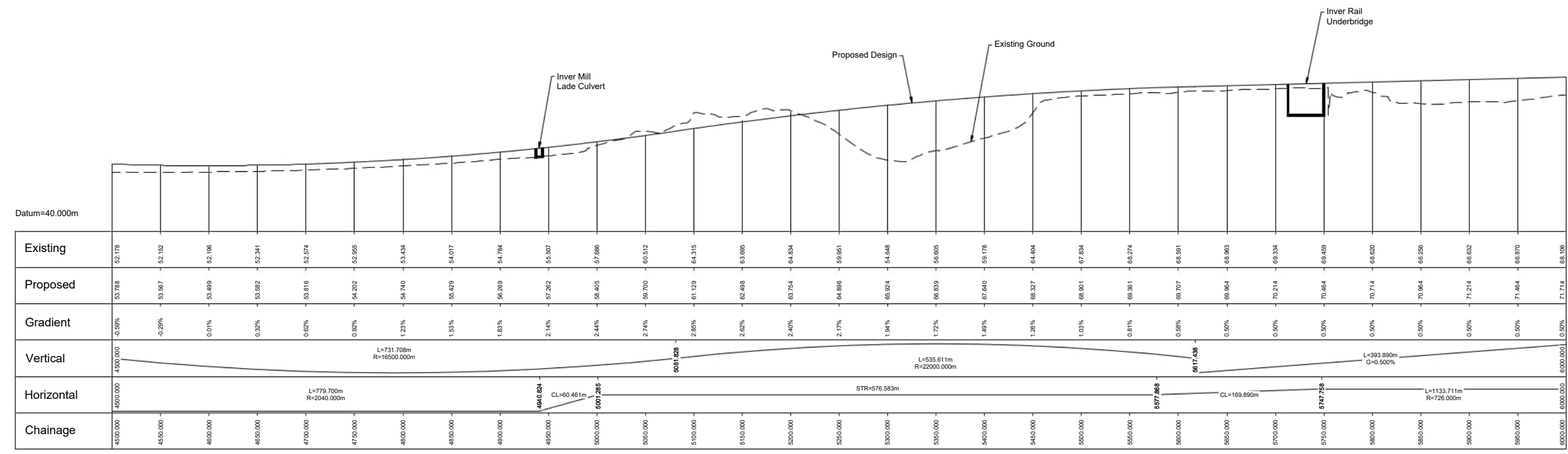
Jacobs No. B2140002

Drawing number

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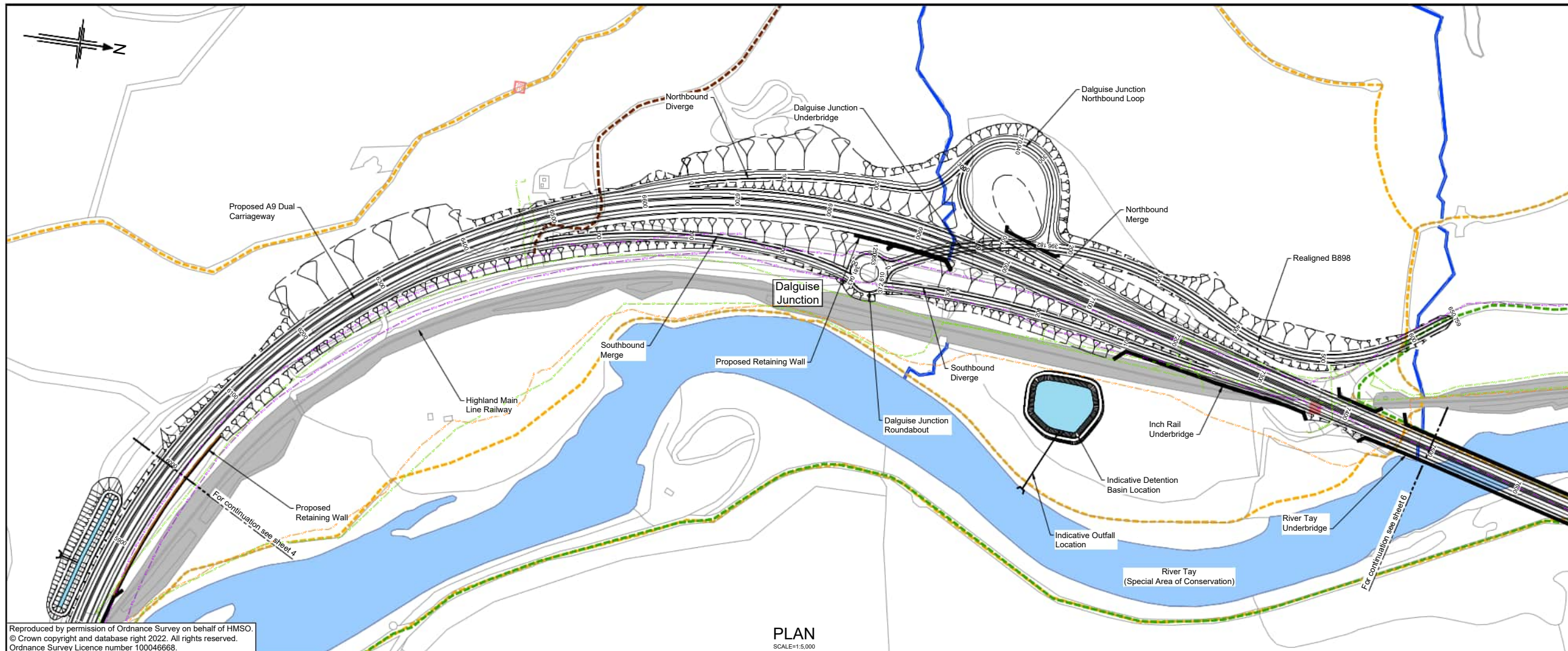
Rev

C01



PROFILE
HORIZONTAL SCALE = 1:5,000
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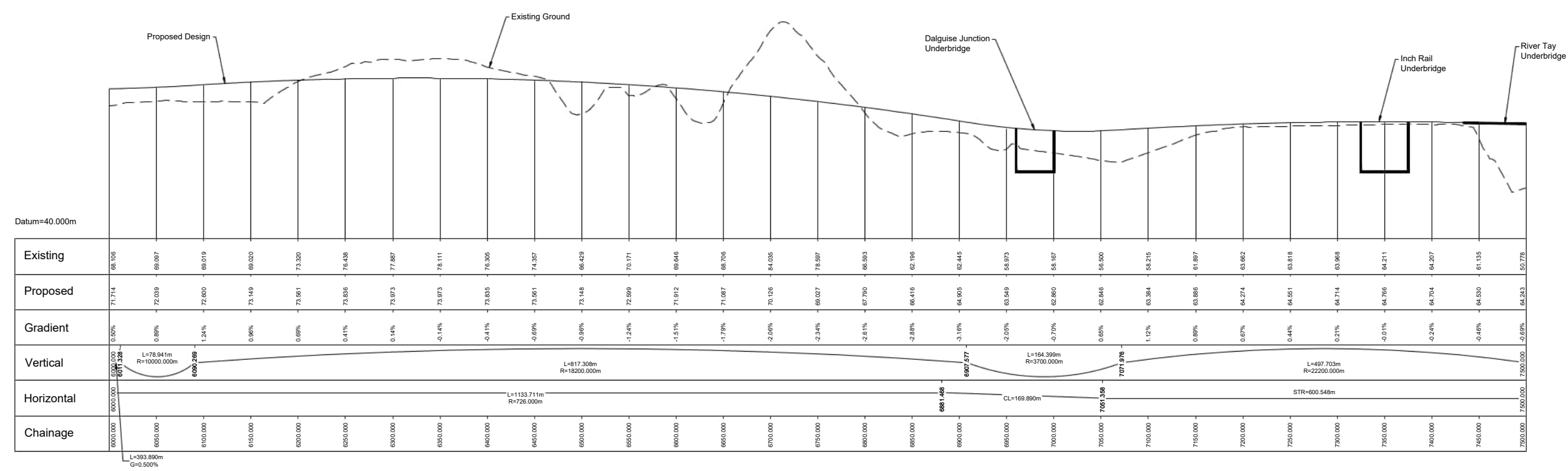
- Legend:**
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PLAN
SCALE=1:5,000

Notes:

- Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.



PROFILE
HORIZONTAL SCALE = 1:5,000
VERTICAL SCALE = 1:1,000

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
C01	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG

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Client

TRANSPORT SCOTLAND
COMHAIL ALBA

Project

A9
DUALLING
FRESH TO IMPROVE
From Strathclyde to Tay Crossing

Drawing title

**DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2D, PLAN AND PROFILE
CH. 6000 - CH. 7500
SHEET 5 OF 6**

Drawing status

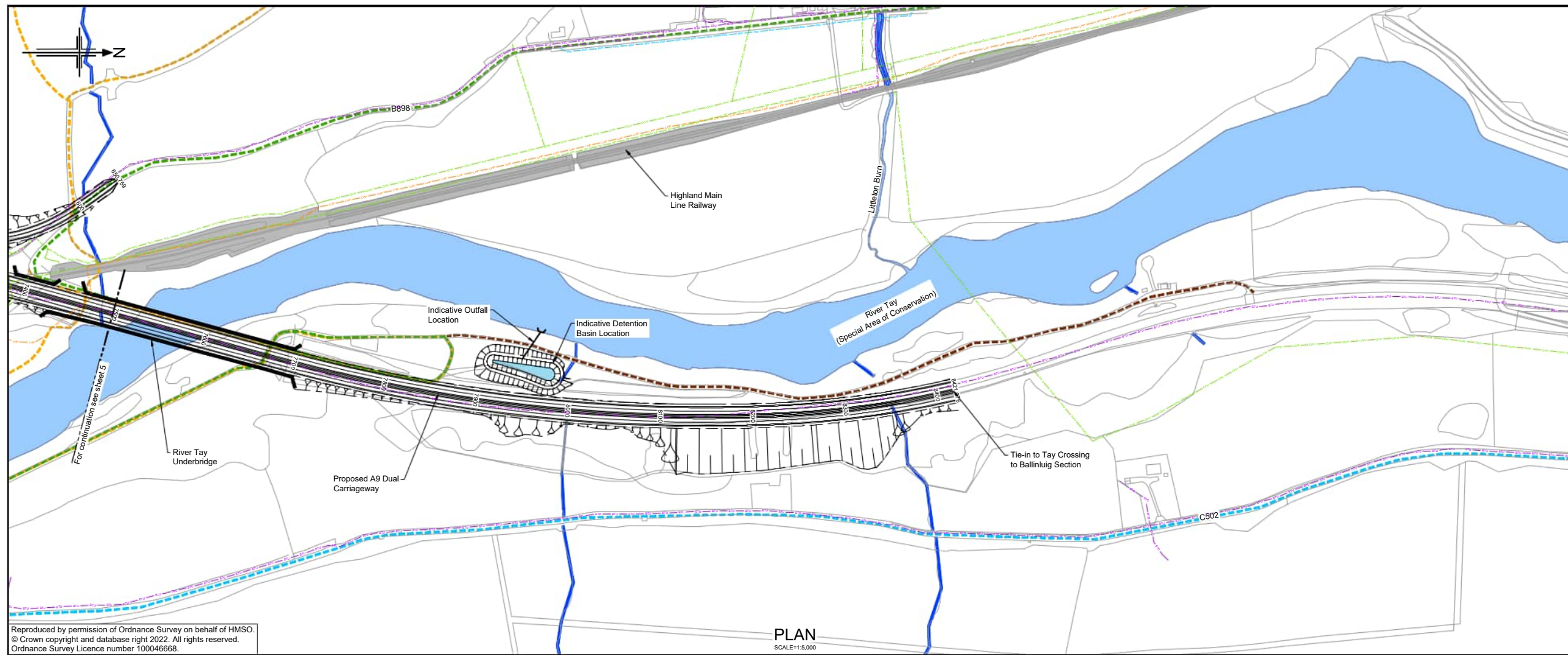
A - APPROVED AS STAGE COMPLETE

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PLAN
 SCALE=1:5,000

Notes:

- Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.

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Drawing title
**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 OPTION ST2D, PLAN AND PROFILE
 CH. 7500 - END
 SHEET 6 OF 6**

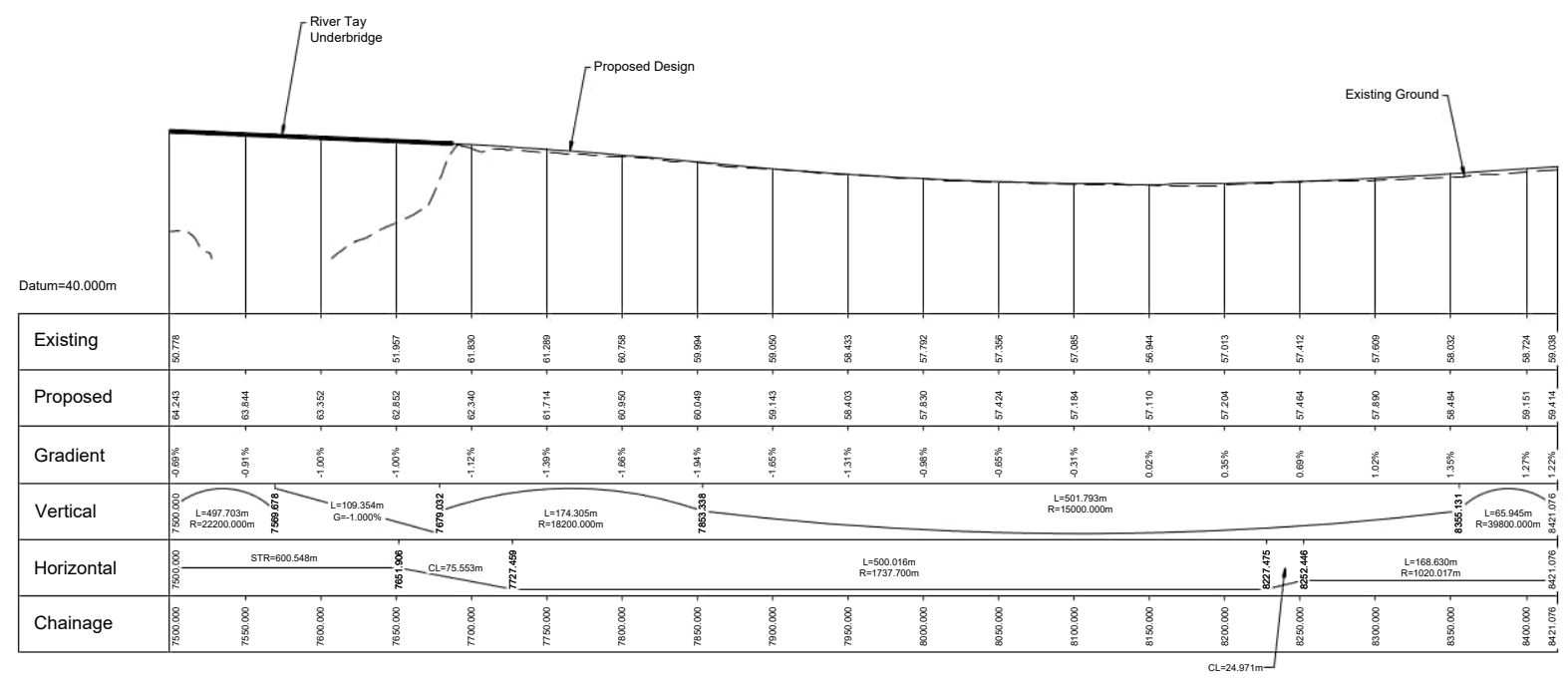
Drawing status
A - APPROVED AS STAGE COMPLETE

Scale AS SHOWN@A3 DO NOT SCALE

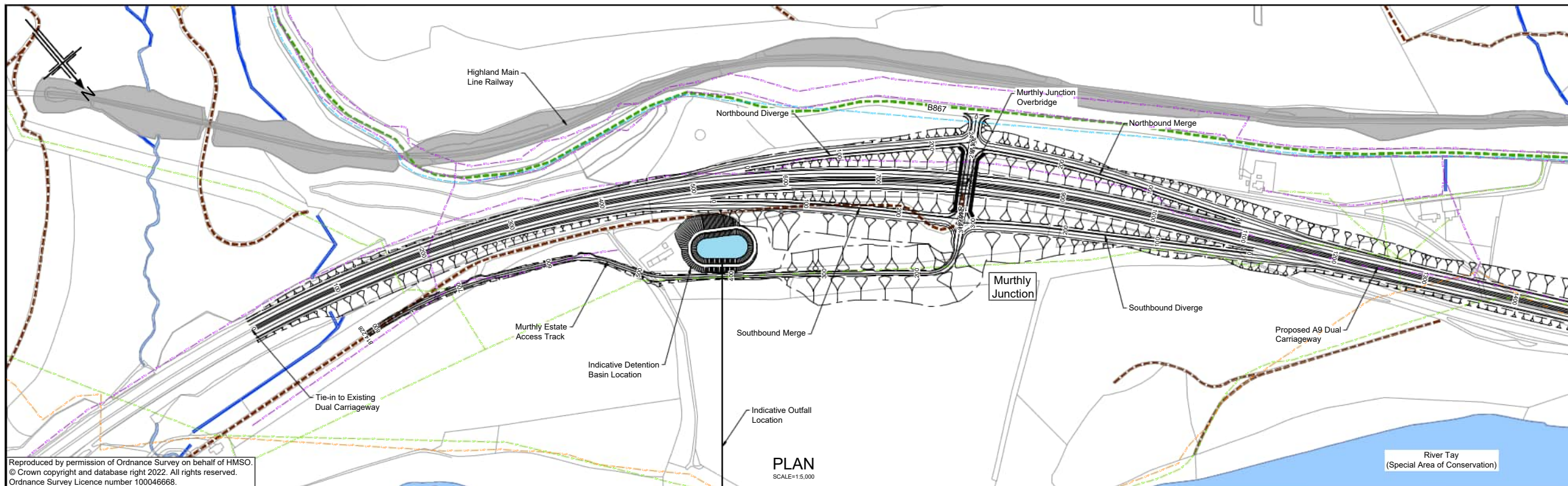
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PROFILE
 HORIZONTAL SCALE = 1:5,000
 VERTICAL SCALE = 1:1,000



- Legend:**
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- Notes:**
- Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.
 - Design Speeds of side roads at junctions have been assumed at this stage. Further assessments on the Design Speed of side roads that form part of the junctions will be undertaken as part of the DMRB Stage 3 assessment.

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 www.jacobs.com

Client

TRANSPORT SCOTLAND
COMHDAH ALBA

Project

A9
DUALLING
PERTH TO INVERNESS
Pass of Birnam to Tay Crossing

Drawing title

DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2A
MURTHLY JUNCTION
PLAN AND PROFILES, SHEET 1 OF 1

Drawing status

A - APPROVED AS STAGE COMPLETE

Scale

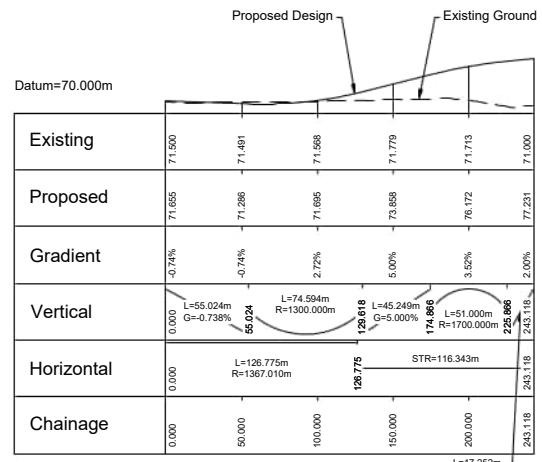
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Drawing number A9P02-JAC-HML-A_JC01A_JC-FG-RD-0001

Rev C01

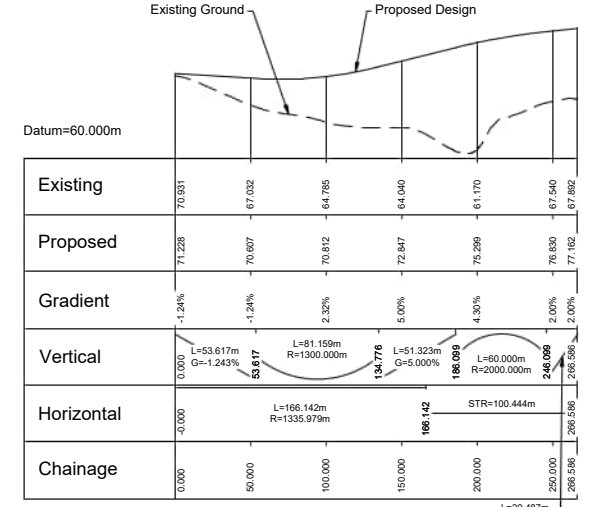
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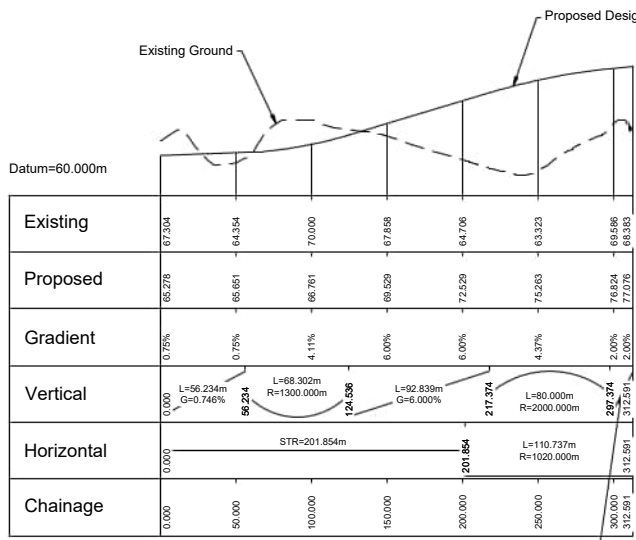
Murthly Junction Northbound Diverge
(Design Speed 60kph)



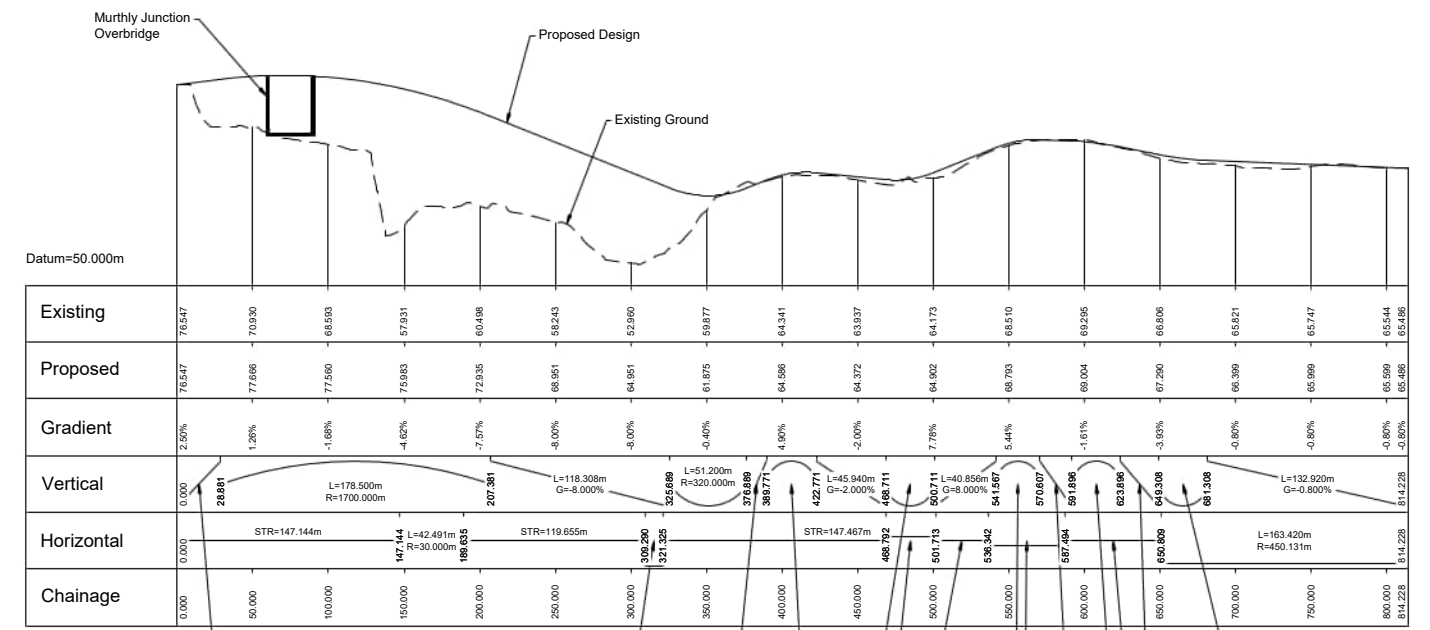
Murthly Junction Northbound Merge
(Design Speed 60kph)



Murthly Junction Southbound Merge
(Design Speed 60kph)

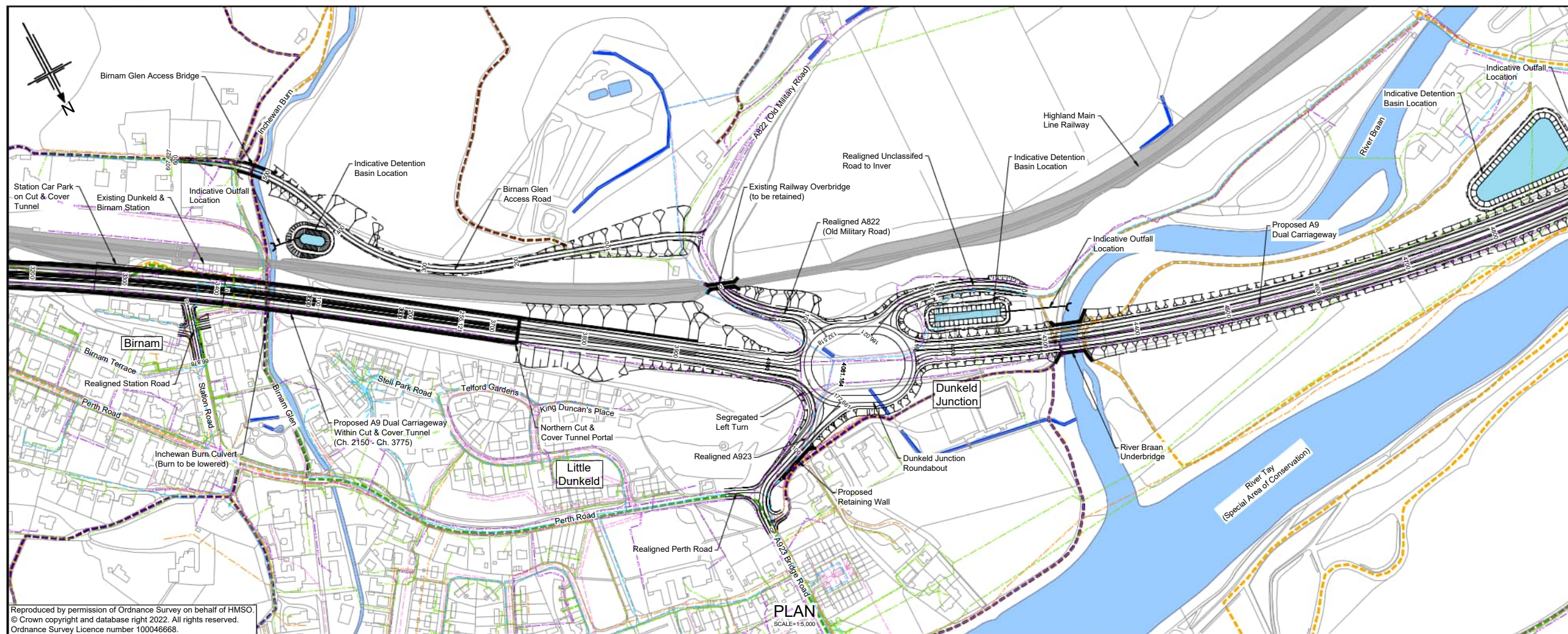


Murthly Junction Southbound Diverge
(Design Speed 60kph)



PROFILES
HORIZONTAL SCALE = 1:5,000
VERTICAL SCALE = 1:1,000

Murthly Junction Overbridge
(Design Speed 60kph, Ch. 0.000m - Ch. 147.000m and Accommodation Track, Ch. 147.000m - Ch. 814.228m)



- Legend:**
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PLAN SCALE=1:5,000

- Notes:**
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CD1	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
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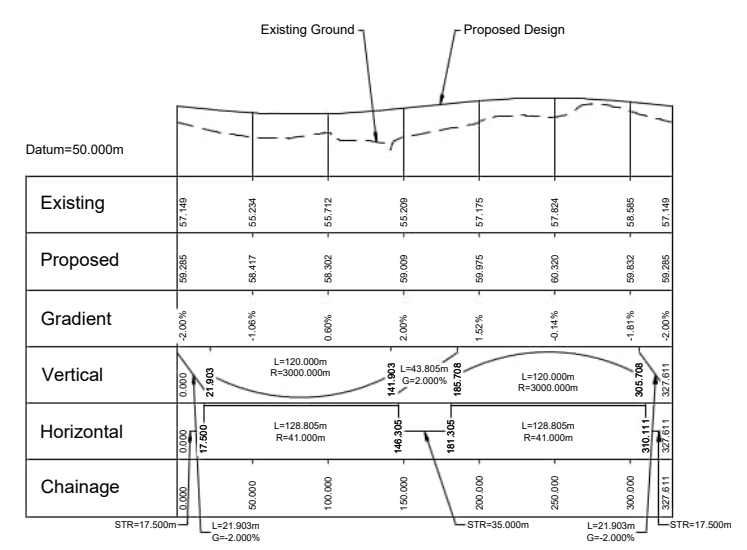
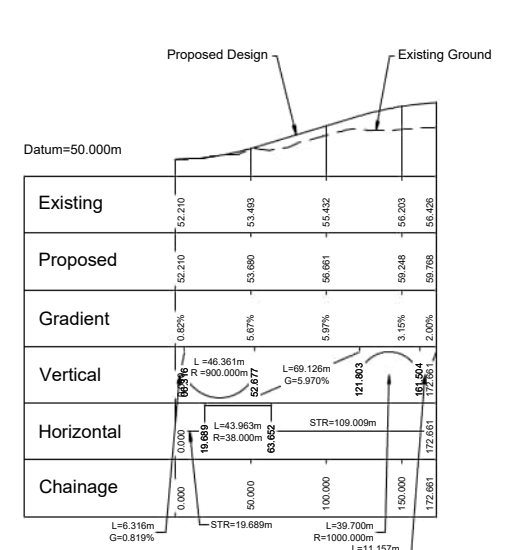
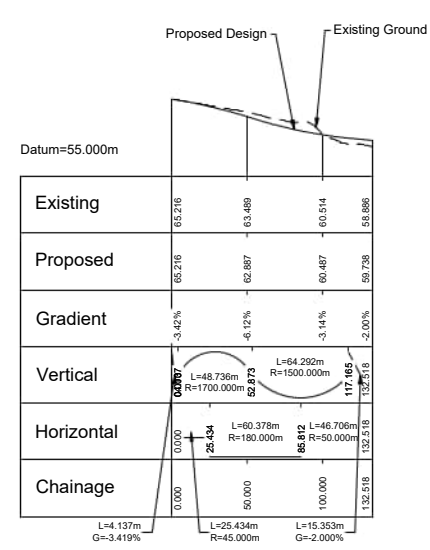
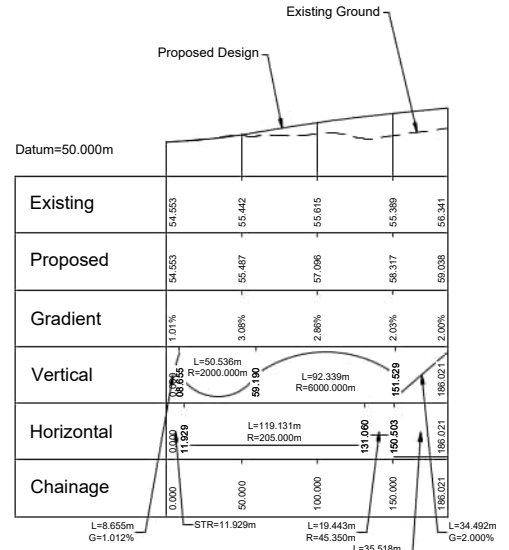
**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 OPTION ST2A
 DUNKELD JUNCTION
 PLAN AND PROFILES, SHEET 1 OF 1**

Drawing status
A - APPROVED AS STAGE COMPLETE

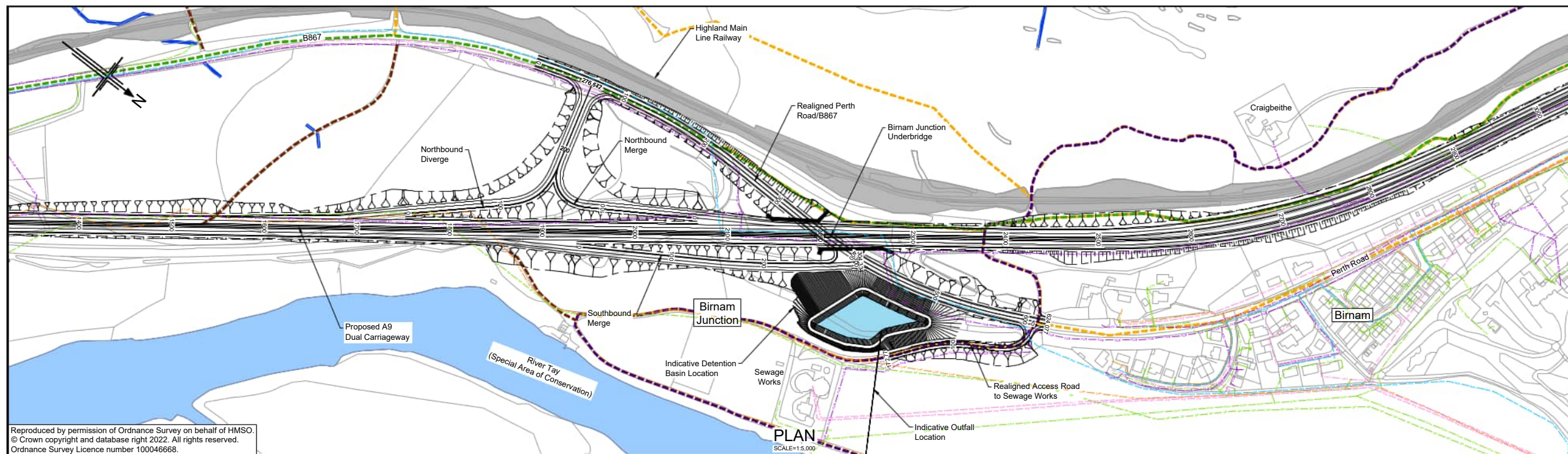
Scale	AS SHOWN@A3	DO NOT SCALE
Jacobs No.	B2140002	

Drawing number	Rev
A9P02-JAC-HML-A_JC02A_JC-FG-RD-0001	C01

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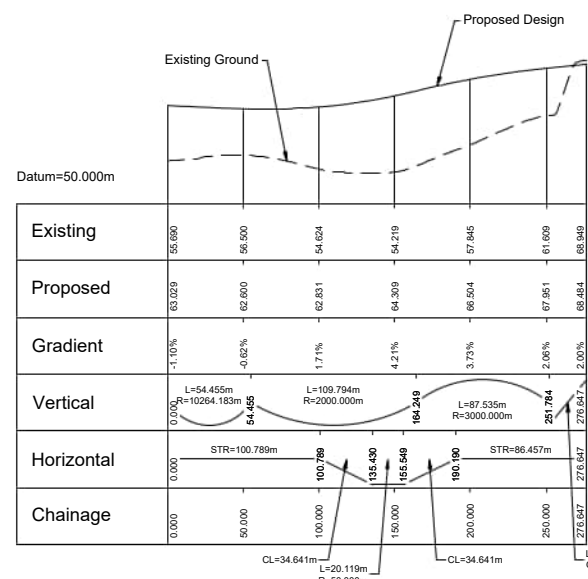


PROFILES
 HORIZONTAL SCALE = 1:5,000
 VERTICAL SCALE = 1:1,000

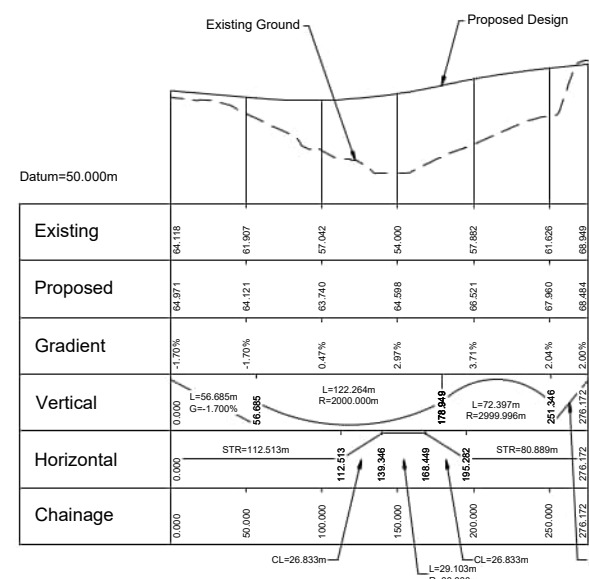


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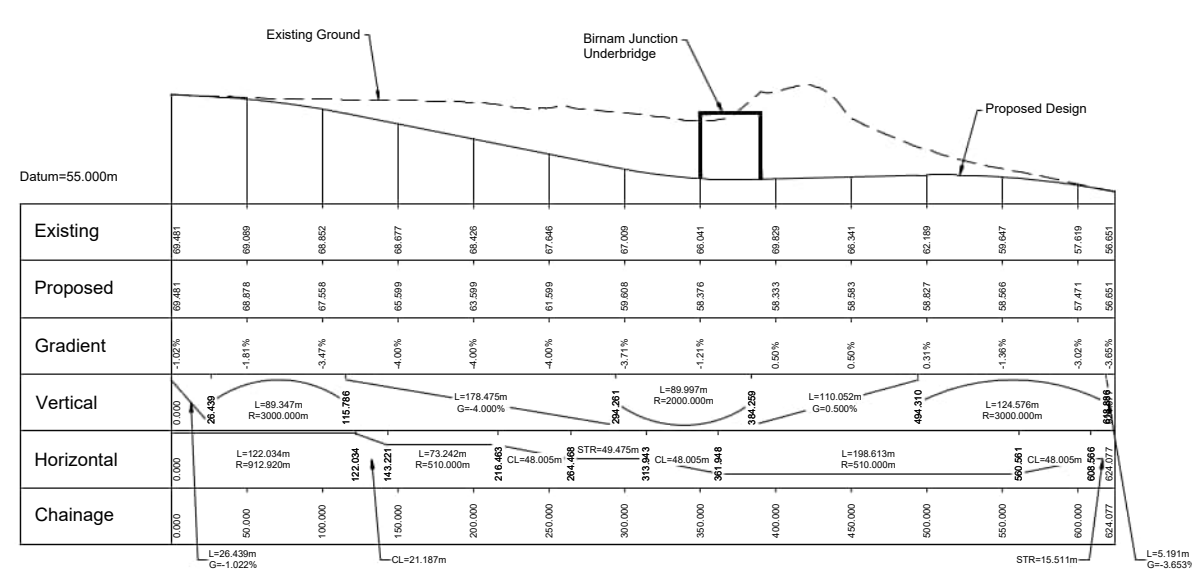
- Legend:
- Natural Earthwork Slope (1:2 or shallower)
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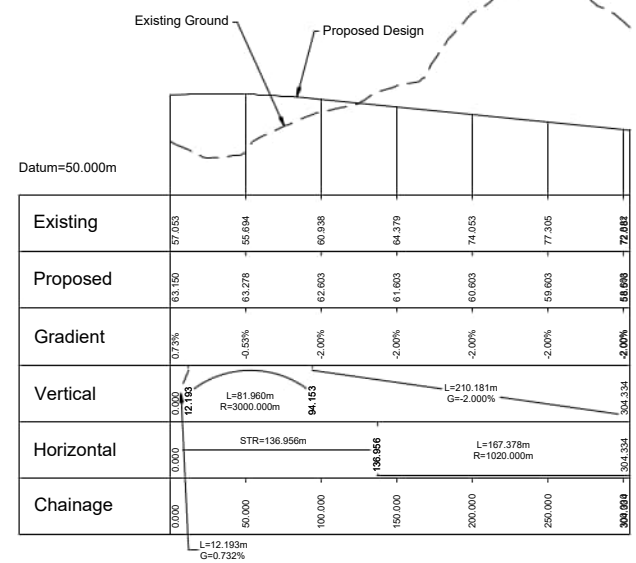
Birnam Junction Northbound Diverge (Design Speed 70kph)



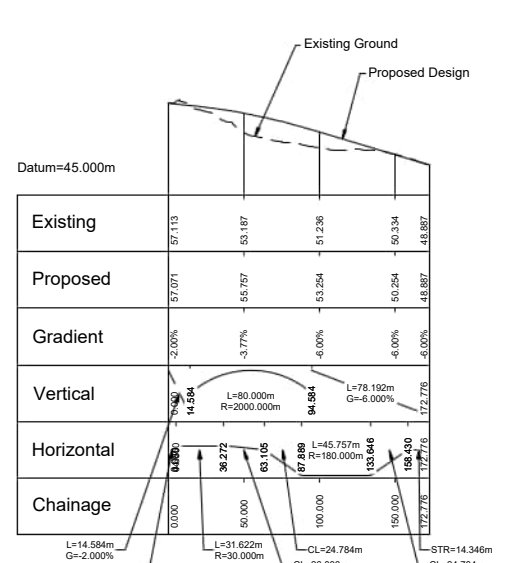
Birnam Junction Northbound Merge (Design Speed 70kph)



Birnam Junction Realigned Perth Road/B867 (Design Speed 70kph)



Birnam Junction Southbound Merge (Design Speed 70kph)



Birnam Junction Realigned Access Road to Sewage Works (Design Speed 50kph)

PROFILES
HORIZONTAL SCALE = 1:5,000
VERTICAL SCALE = 1:1,000

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Rev	Rev. Date	Purpose of revision	Drawn	Check	Rev'd	Apprv'd
C01	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG

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www.jacobs.com

Client
TRANSPORT SCOTLAND
COMHDHAL ALBA

Project
A9 DUALLING
PERTH TO INVERNESS
Pass of Struan to Tay Crossing

Drawing title
DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2B
BIRNAM JUNCTION
PLAN AND PROFILES, SHEET 1 OF 1

Drawing status
A - APPROVED AS STAGE COMPLETE

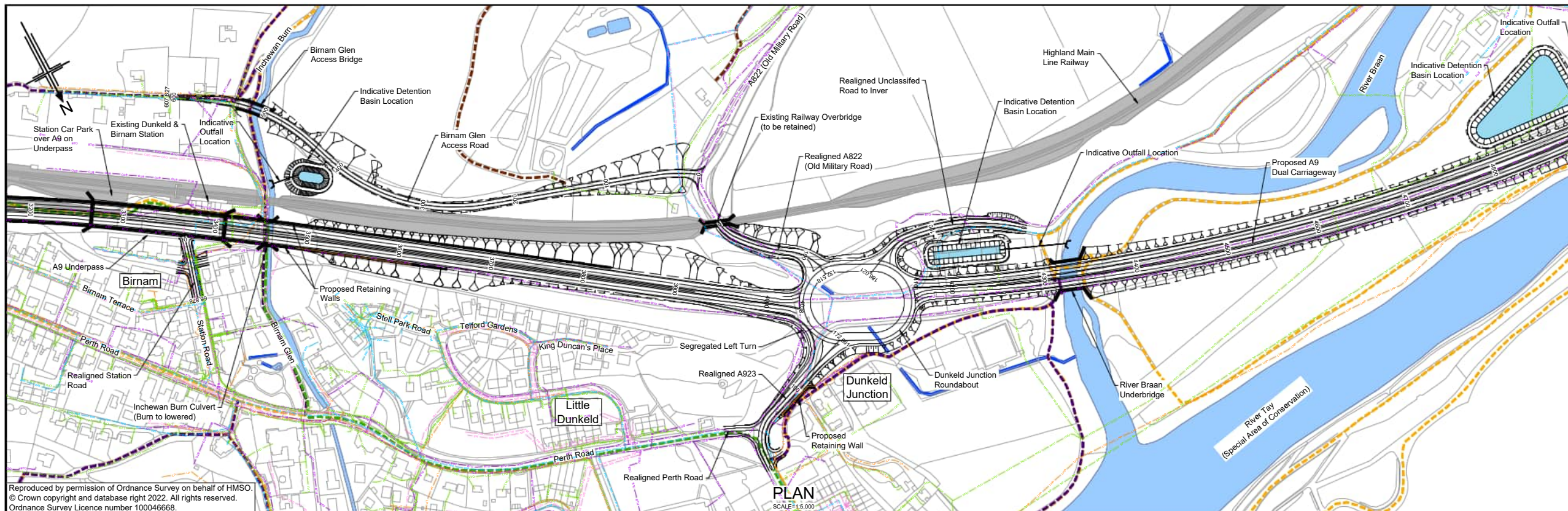
Scale
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Jacobs No.
B2140002

Drawing number
A9P02-JAC-HML-B_JC01A_JC-FG-RD-0001

Rev
C01

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- Legend:
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 - Existing British Telecom Underground Cable
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 - Existing O2/Three Mast
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 - Existing SSE High Voltage Underground Cable
 - Existing SSE Low Voltage Overhead Cable
 - Existing SSE Low Voltage Underground Cable
 - Existing SSE Pipe
 - Existing SGN Local High Pressure Main
 - Existing SGN Low Pressure Main
 - Existing Water Main
 - Existing Foul Water Sewer
 - Existing Rising Water Main
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 - Existing Surface Water Sewer

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CD1	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	App'd

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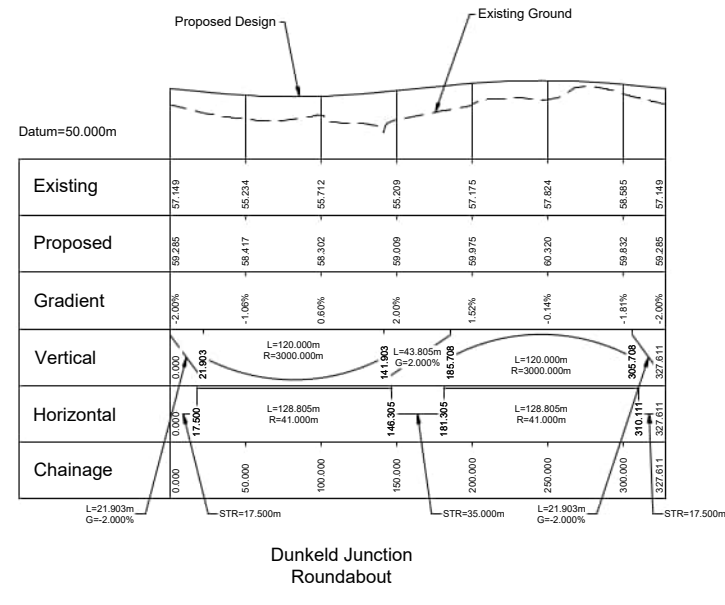
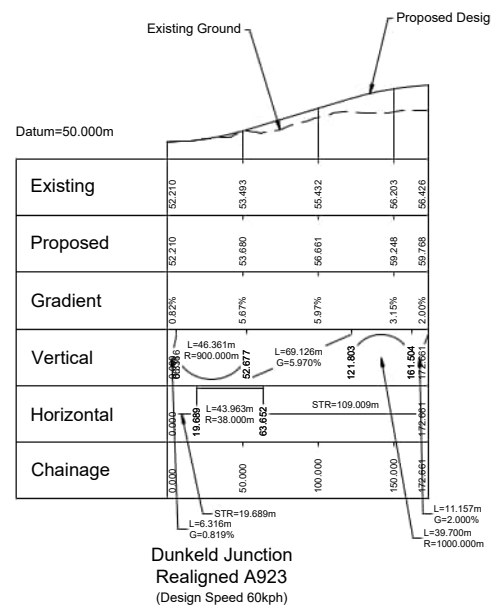
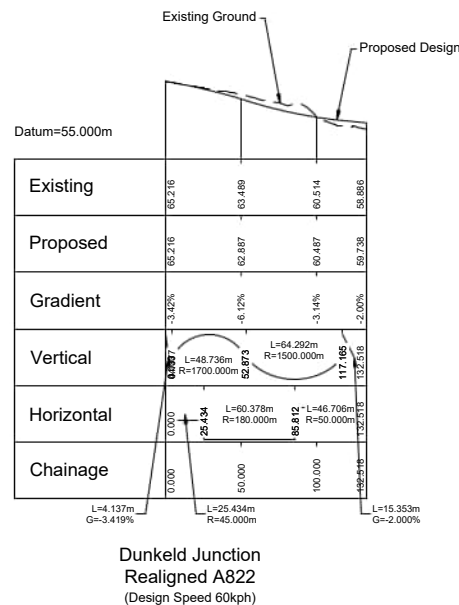
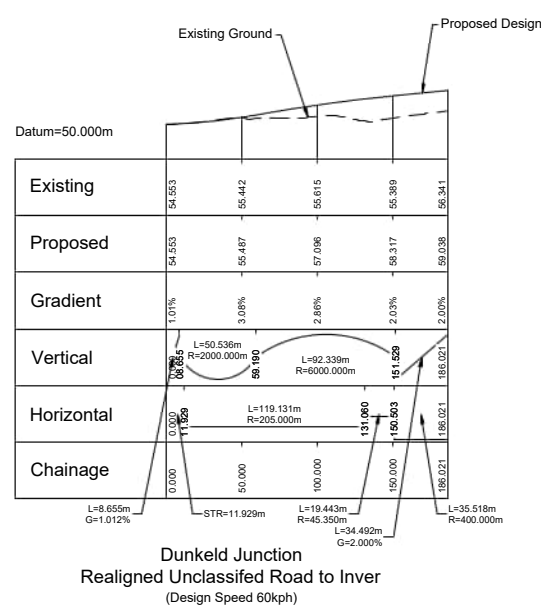
Drawing title
**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 OPTION ST2B
 DUNKELD JUNCTION
 PLAN AND PROFILES, SHEET 1 OF 1**

Drawing status
A - APPROVED AS STAGE COMPLETE

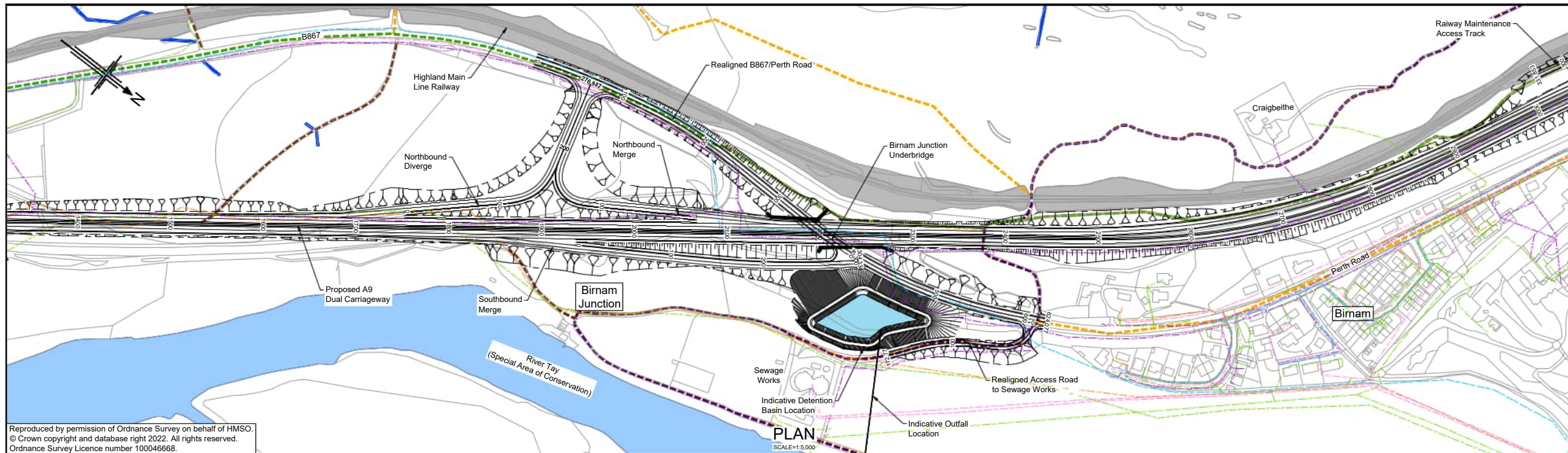
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Jacobs No. B2140002

Drawing number A9P02-JAC-HML-B_JC02A_JC-FG-RD-0001 Rev C01



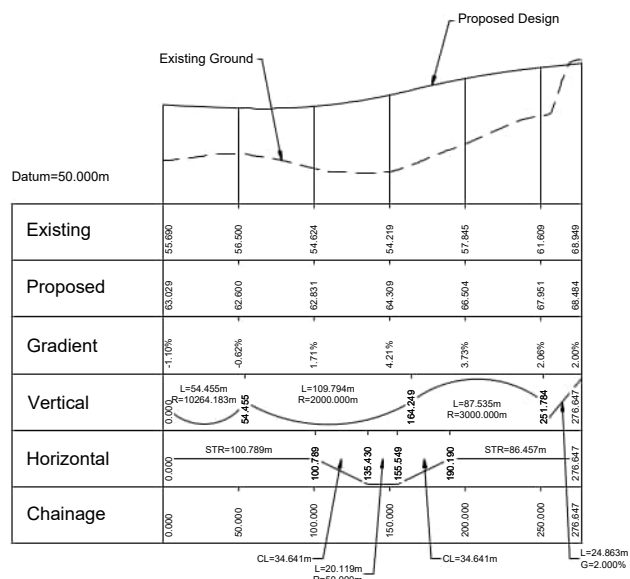
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 VERTICAL SCALE = 1:1,000



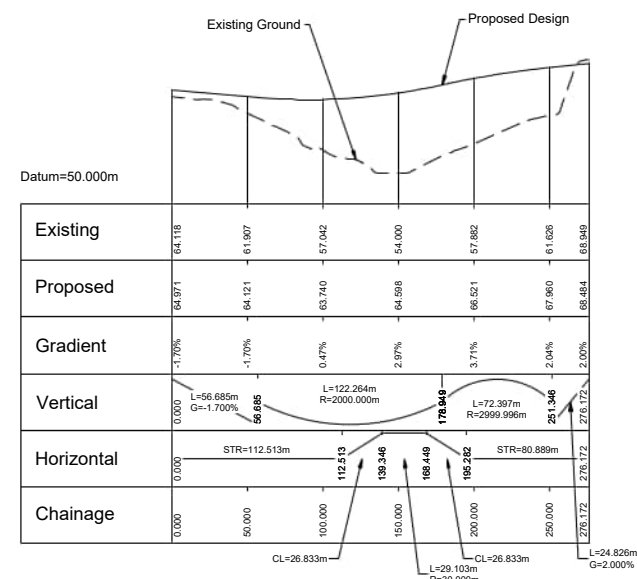
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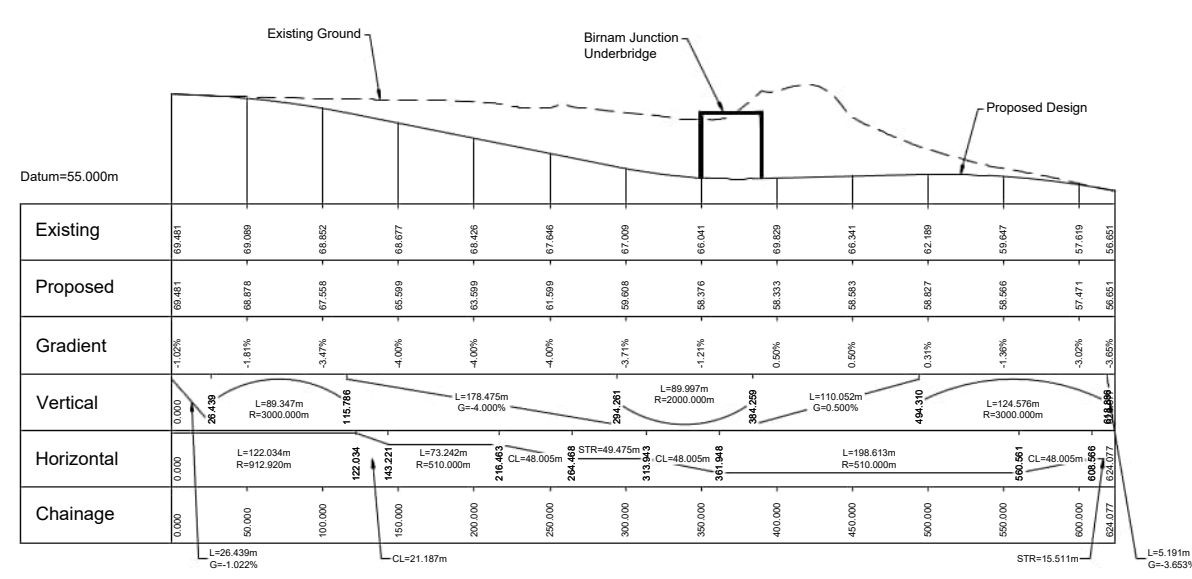
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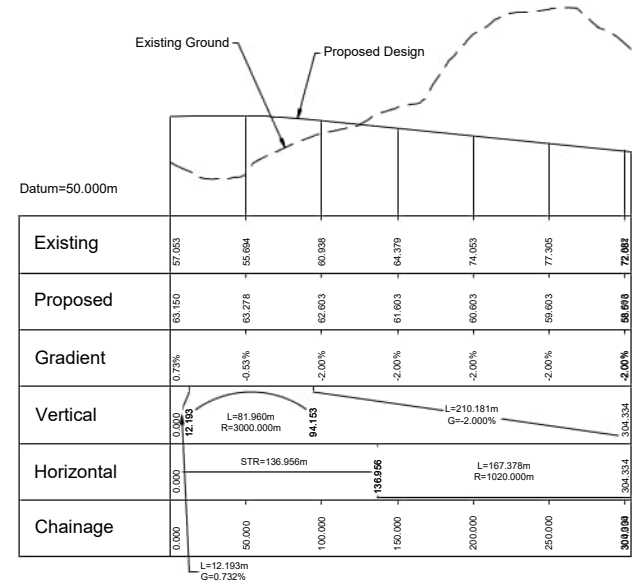
Birnam Junction Northbound Diverge (Design Speed 70kph)



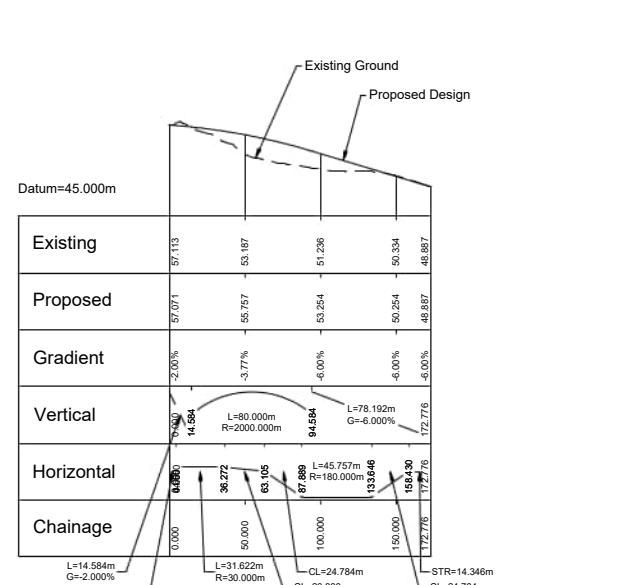
Birnam Junction Northbound Merge (Design Speed 70kph)



Birnam Junction Realigned Perth Road/B867 (Design Speed 70kph)



Birnam Junction Southbound Merge (Design Speed 70kph)



Birnam Junction Realigned Access Road to Sewage Works (Design Speed 50kph)

PROFILES
HORIZONTAL SCALE = 1:5,000
VERTICAL SCALE = 1:1,000

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
C01	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG

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COMHDAIL ALBA

Project
A9 DUALLING
PERTH TO TAY CROSSING
Pass of Birnam to Tay Crossing

Drawing title
DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2C
BIRNAM JUNCTION
PLAN AND PROFILES, SHEET 1 OF 1

Drawing status
A - APPROVED AS STAGE COMPLETE

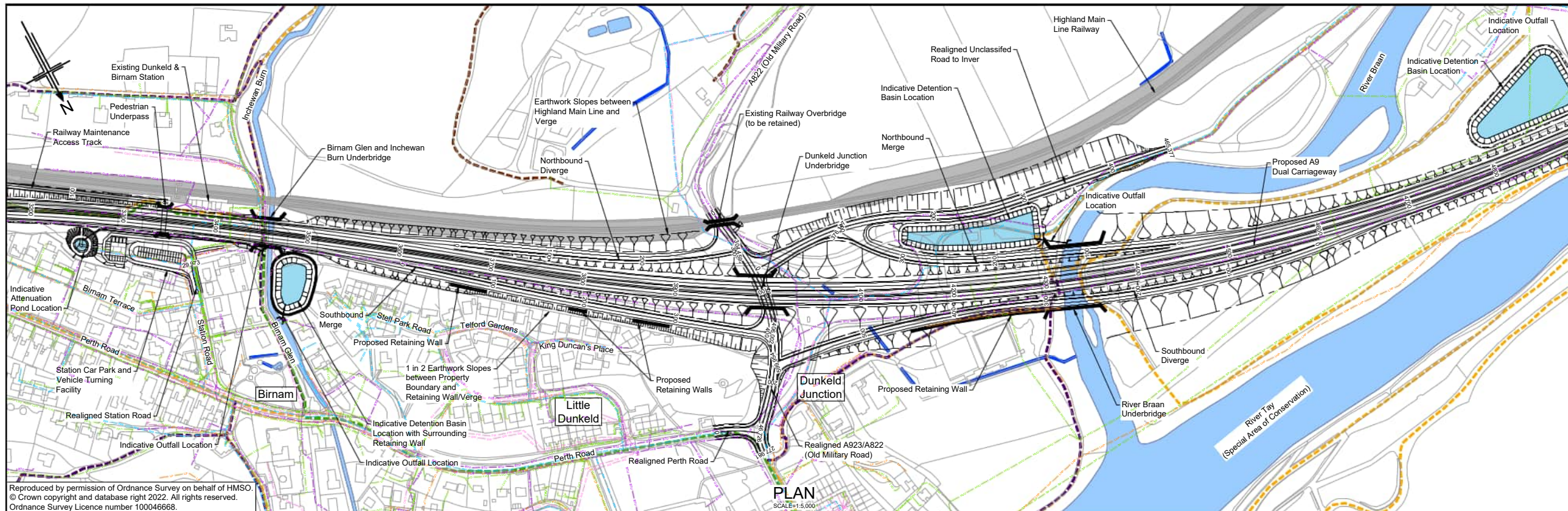
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Jacobs No. B2140002

Drawing number
A9P02-JAC-HML-C_JC01A_JC-FG-RD-0001

Rev
C01

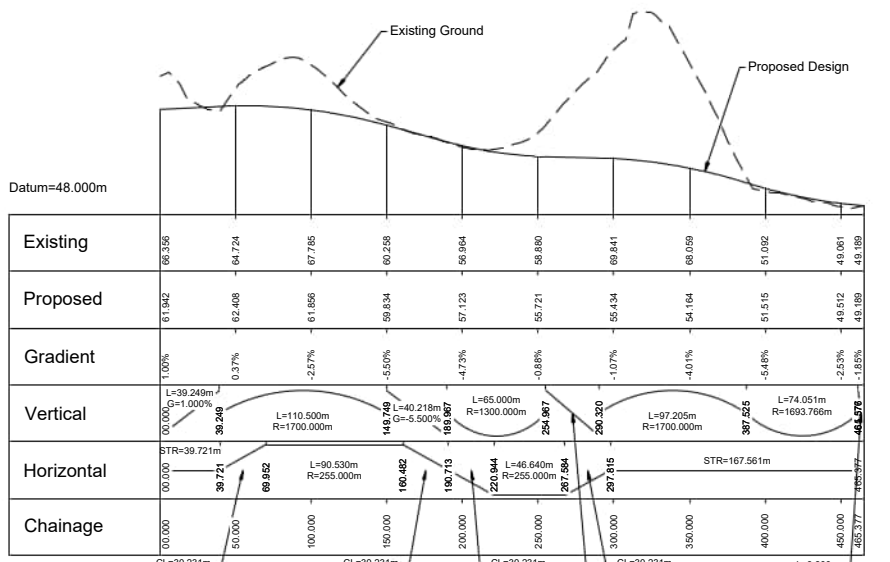
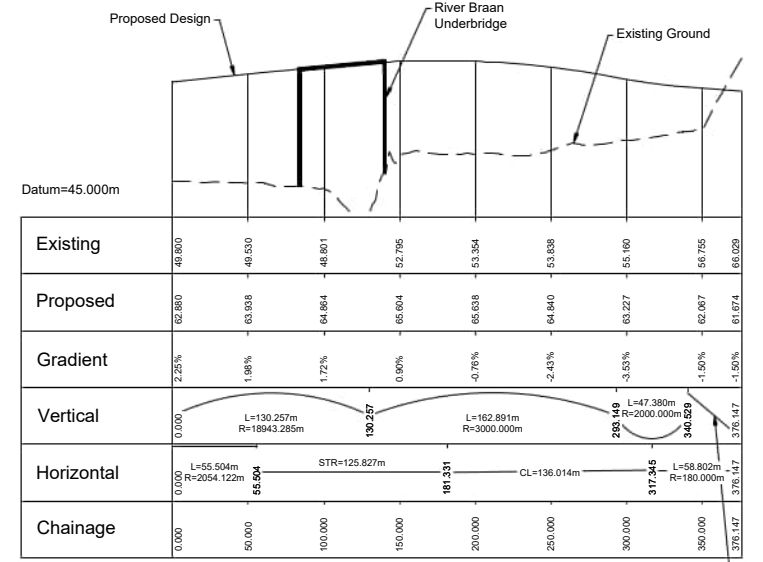
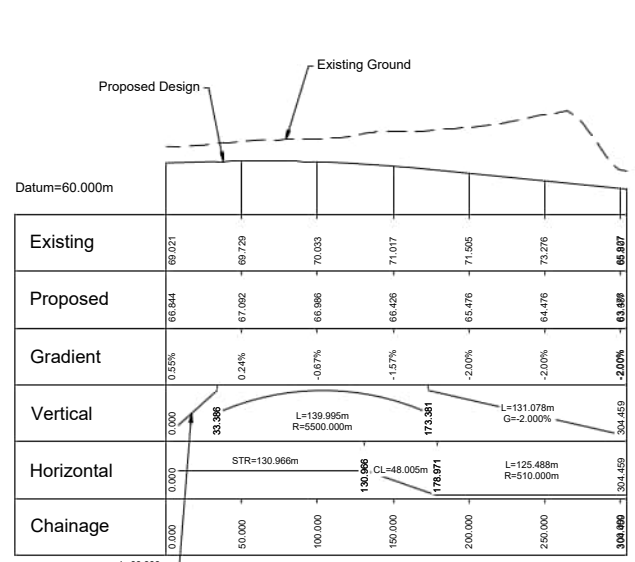
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PLAN
SCALE=1:5,000



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CO1	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
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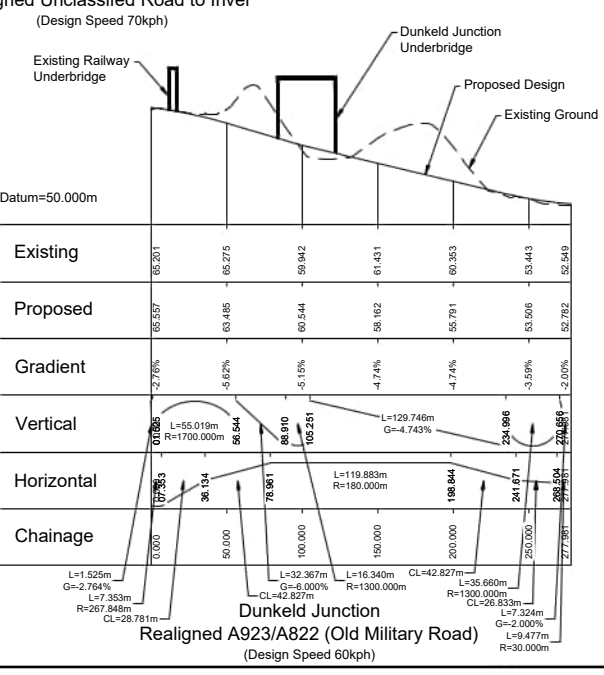
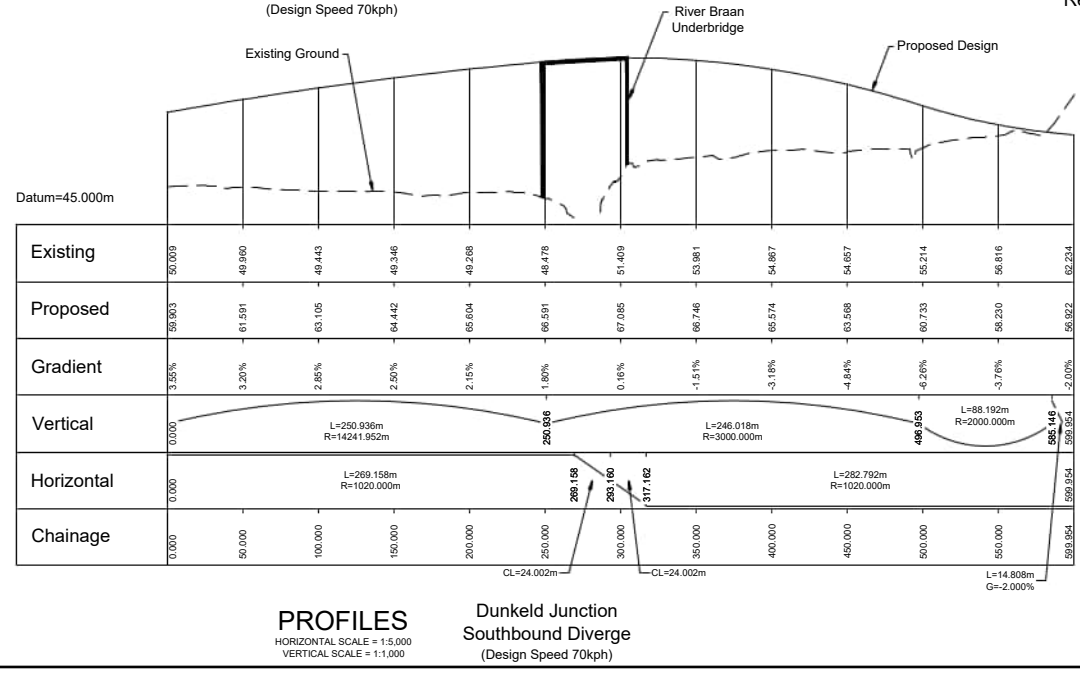
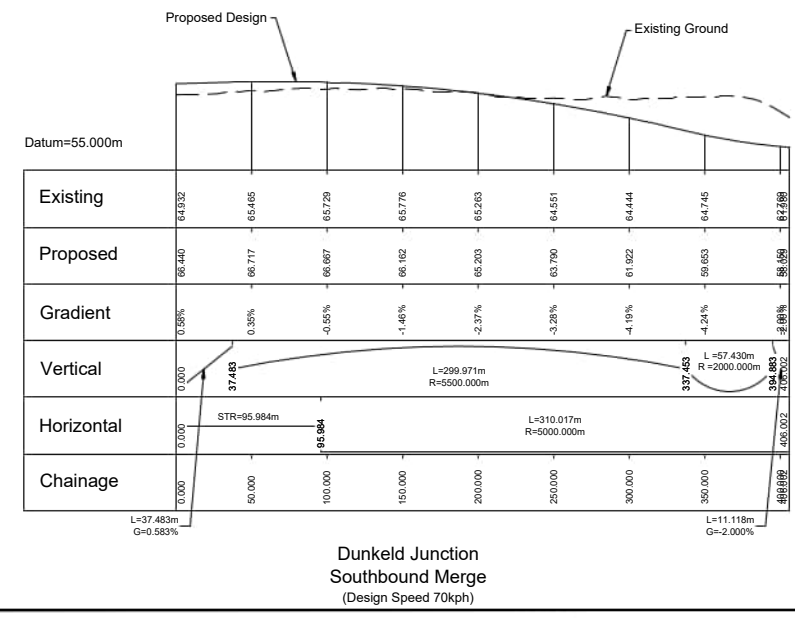
Project
A9 DUALLING
PASS OF BIRNAM TO TAY CROSSING
From Street to Top Crossing

Drawing title
DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2C
DUNKELD JUNCTION
PLAN AND PROFILES, SHEET 1 OF 1

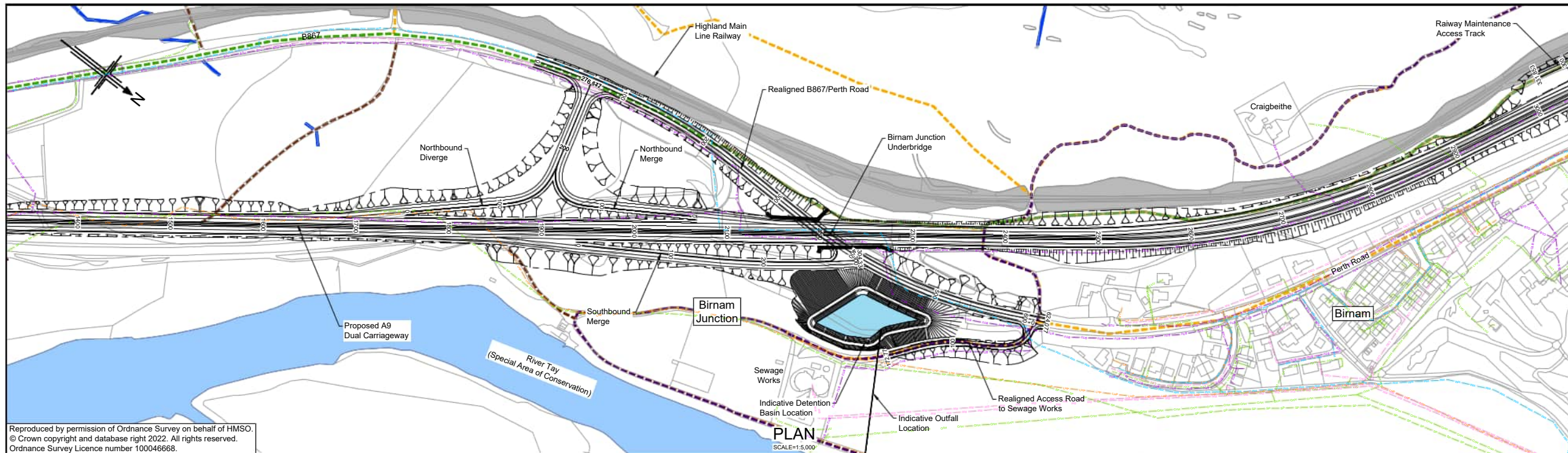
Drawing status
A - APPROVED AS STAGE COMPLETE

Scale	AS SHOWN@A3	DO NOT SCALE
Jacobs No.	B2140002	
Drawing number	A9P02-JAC-HML-C_JC02A_JC-FG-RD-0001	Rev
		CO1

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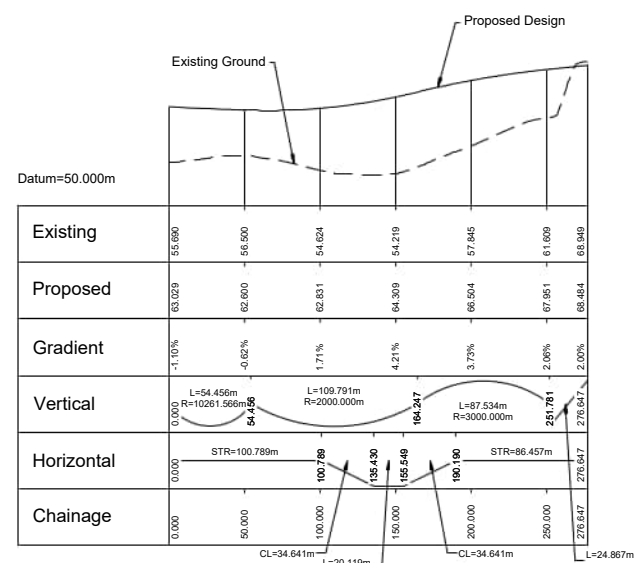
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VERTICAL SCALE = 1:1,000



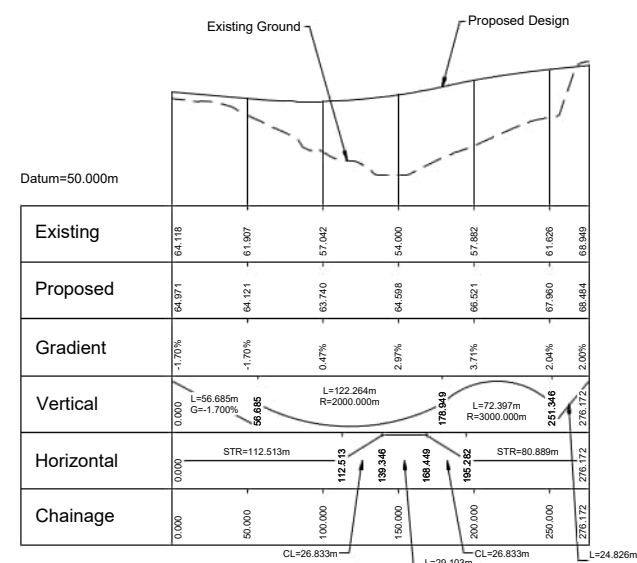
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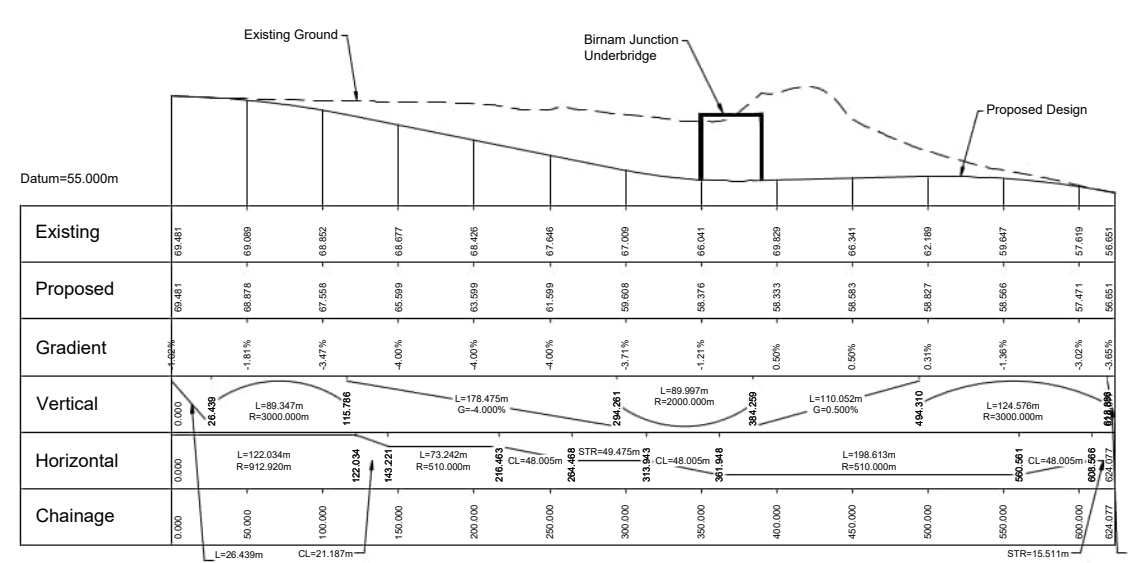
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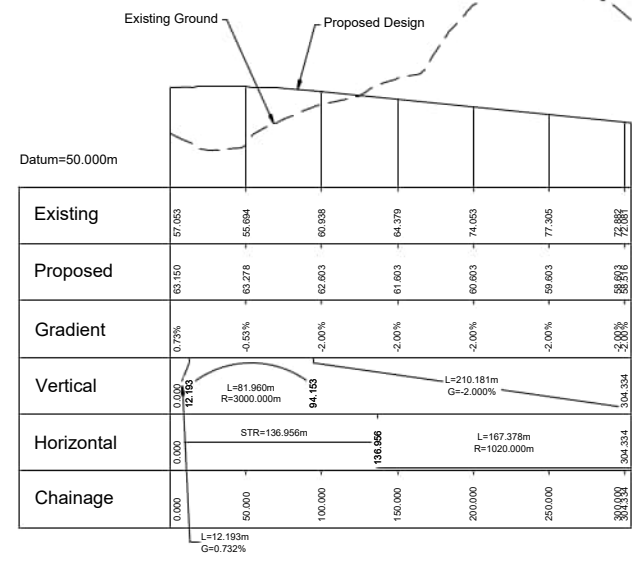
Birnam Junction Northbound Diverge (Design Speed 70kph)



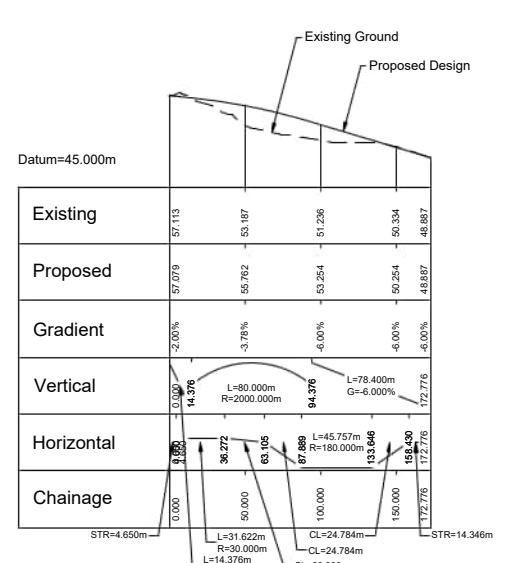
Birnam Junction Northbound Merge (Design Speed 70kph)



Birnam Junction Realigned B867/Perth Road (Design Speed 70kph)



Birnam Junction Southbound Merge (Design Speed 70kph)



Realigned Access Road to Sewage Works (Design Speed 50kph)

PROFILES
HORIZONTAL SCALE = 1:5,000
VERTICAL SCALE = 1:1,000

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Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
C01	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG

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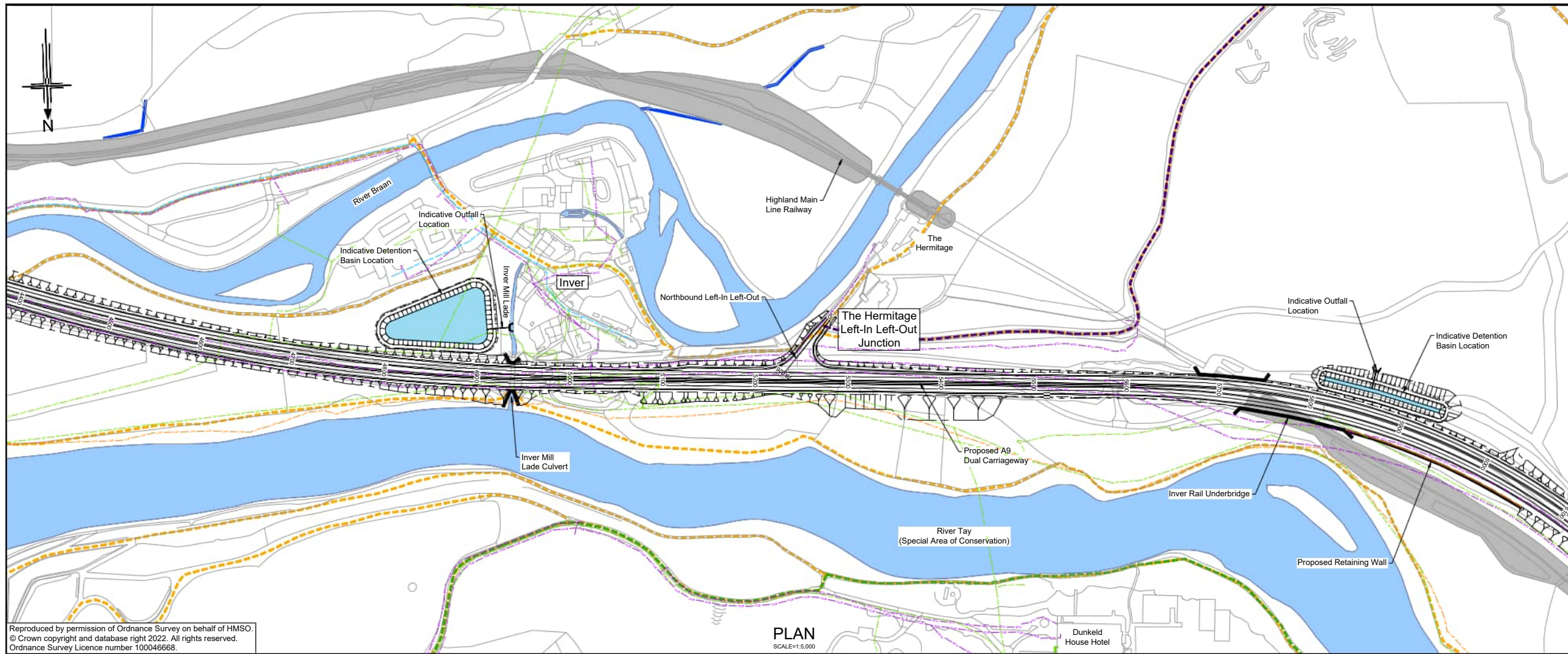
Project
A9 DUALLING
PERTH TO INVERNESS
Pass of Strath to Tay Crossing

Drawing title
DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTION ST2D
BIRNAM JUNCTION
PLAN AND PROFILES, SHEET 1 OF 1

Drawing status
A - APPROVED AS STAGE COMPLETE

Scale	AS SHOWN@A3	DO NOT SCALE
Jacobs No.	B2140002	
Drawing number	A9P02-JAC-HML-D_JC01A_JC-FG-RD-0001	Rev
		C01

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Client

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Project

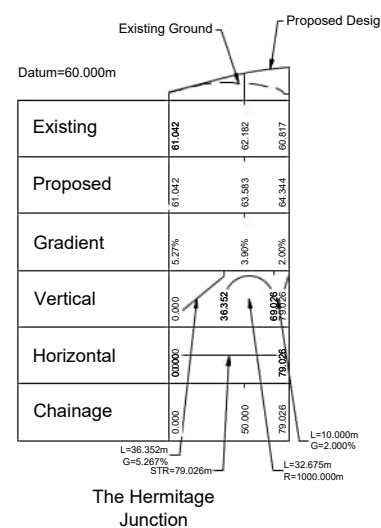
A9
DUALLING
FRESH TO INVERNESS
From the Strath to the Crossing

Drawing title
**DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTIONS ST2A, ST2B, ST2C & ST2D
THE HERMITAGE JUNCTION
PLAN AND PROFILE, SHEET 1 OF 1**

Drawing status
A - APPROVED AS STAGE COMPLETE

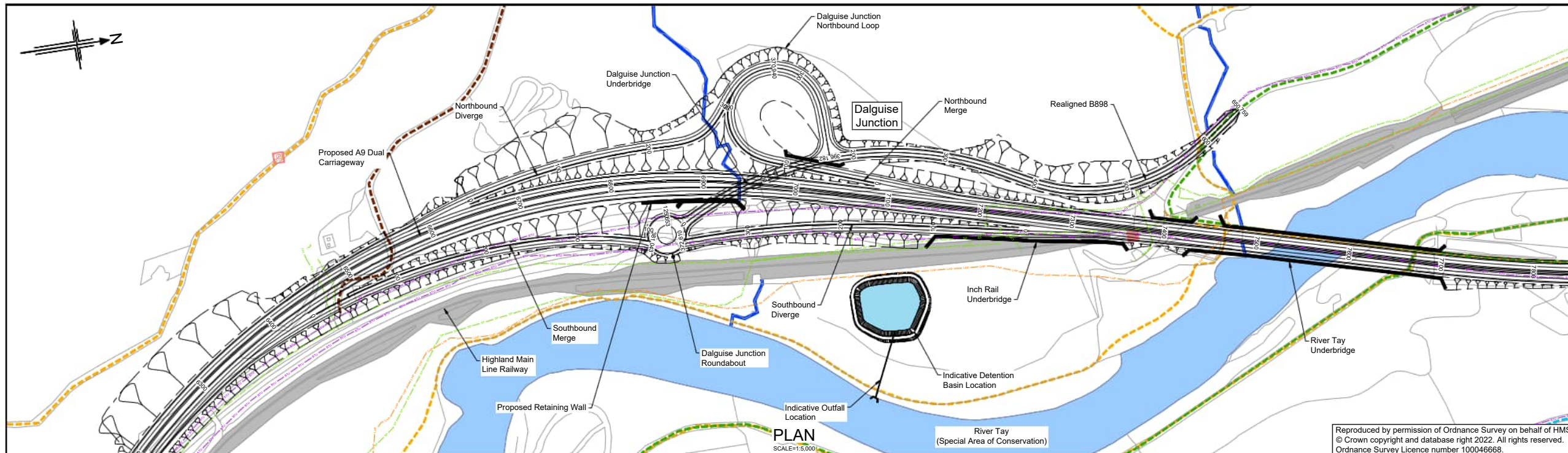
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Jacobs No.	B2140002	

Drawing number	Rev
A9P02-JAC-HML-Z_JC03A_JC-FG-RD-0001	C01



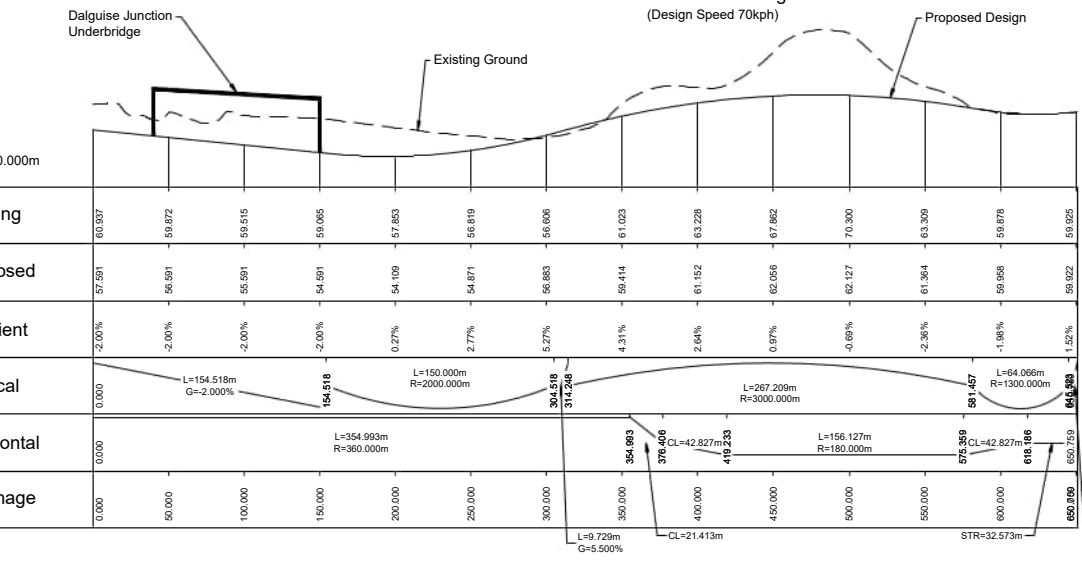
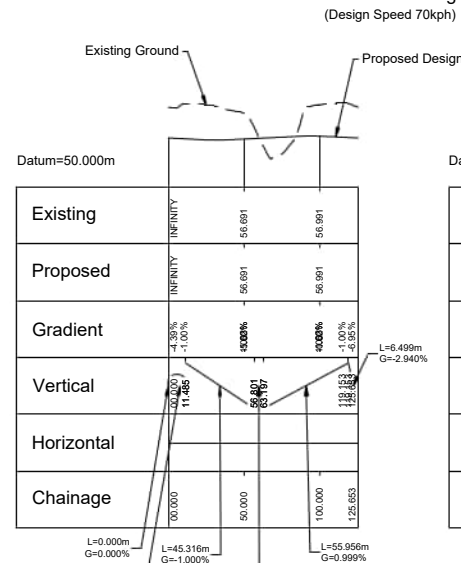
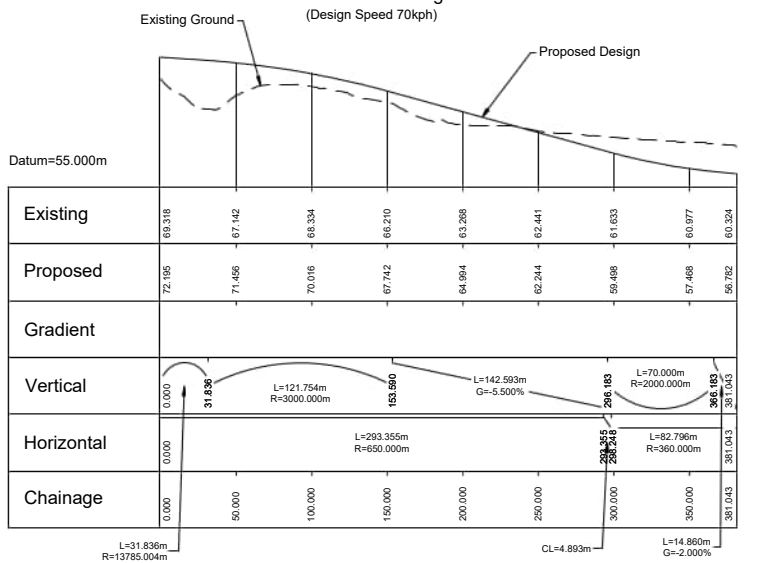
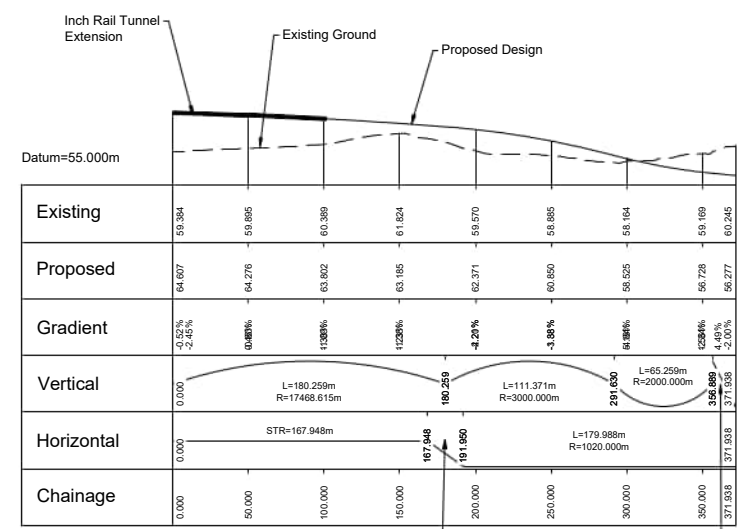
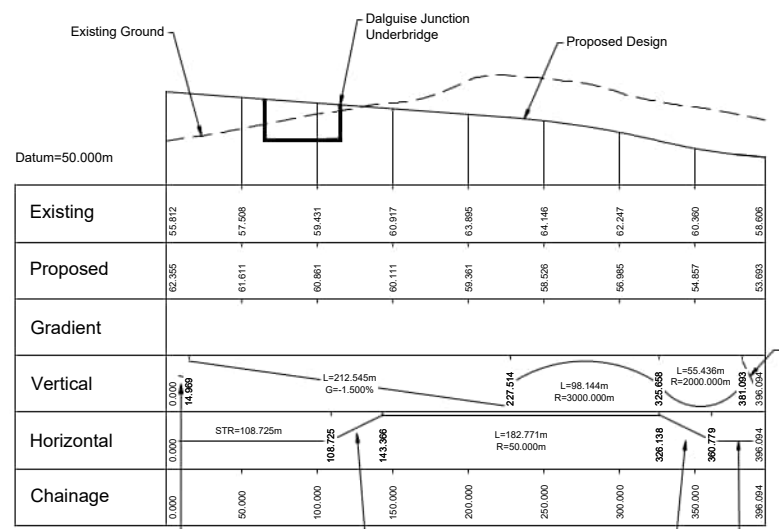
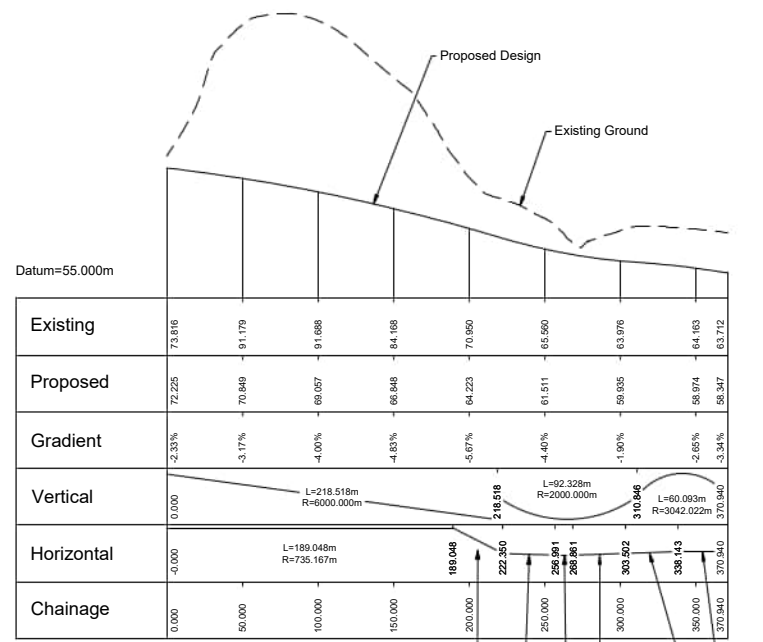
PROFILE
HORIZONTAL SCALE = 1:5,000
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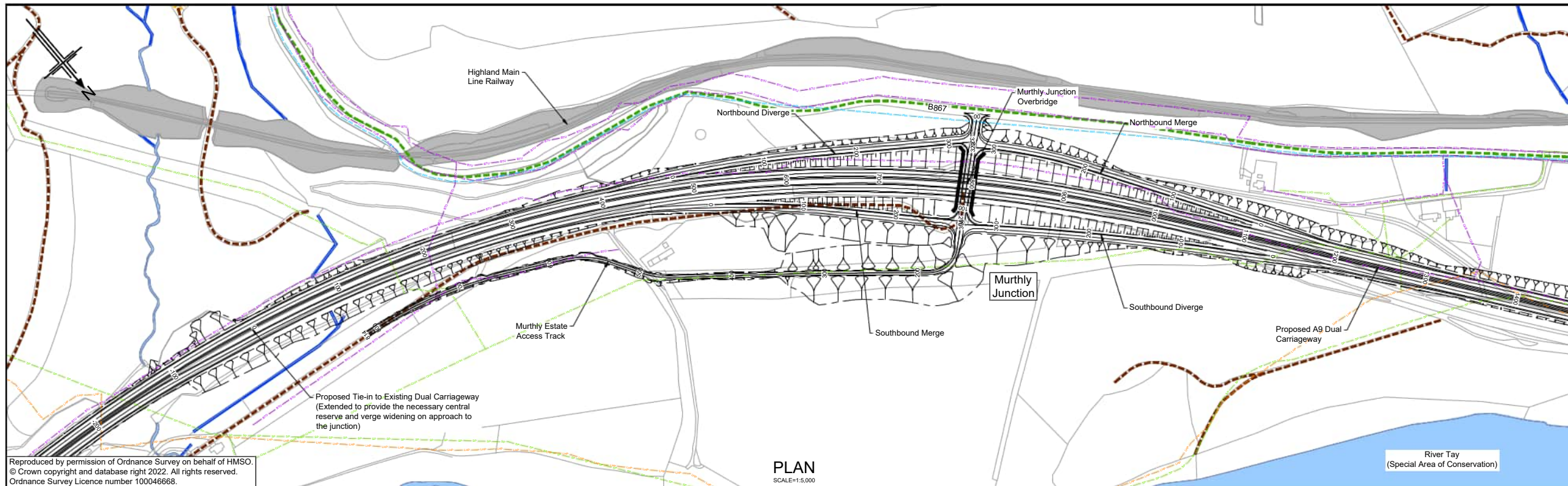
Project: **A9 DUALLING**
 FROM STRETCH TO THE CROSSING

DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
OPTIONS ST2A, ST2B, ST2C & ST2D
DALGUISE JUNCTION
PLAN AND PROFILES, SHEET 1 OF 1

Drawing title: **A - APPROVED AS STAGE COMPLETE**
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Drawing number	A9P02-JAC-HML-Z_JC04A_JC-FG-RD-0001	Rev
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- Legend:
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 - Reinforced Earthwork Slope (steeper than 1:2)
 - Bridge Structure
 - Retaining Wall Structure
 - Highland Main Line Railway
 - Watercourse
- Infrastructure
- Rights of Way
 - National Cycle Route
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 - Existing Surface Water Sewer

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PLAN
SCALE=1:5,000

Murthly Junction Northbound Diverge (Design Speed 70kph)

	0.000	50.000	100.000	150.000	200.000	243.118	243.118
Existing	71.500	71.491	71.598	71.779	71.713	71.000	71.000
Proposed	71.655	71.286	71.696	73.858	76.172	77.231	77.231
Gradient	-0.74%	-0.74%	2.72%	5.00%	3.32%	2.00%	2.00%
Vertical	L=55.024m R=1300.000m G=-0.738%		L=74.594m R=1300.000m		L=45.249m R=1700.000m G=5.000%		L=174.086m R=1700.000m
Horizontal	L=126.775m R=1367.010m		STR=116.343m		L=17.252m G=2.000%		
Chainage	0.000	50.000	100.000	150.000	200.000	243.118	243.118

Murthly Junction Northbound Merge (Design Speed 70kph)

	0.000	50.000	100.000	150.000	200.000	250.000	300.000	325.531	325.531
Existing	71.192	70.949	70.778	69.972	70.210	70.021	71.008	71.008	71.000
Proposed	68.384	68.251	68.334	70.834	73.334	75.320	76.882	77.332	77.332
Gradient	0.66%	2.96%	5.00%	5.00%	5.00%	3.95%	2.00%	2.00%	2.00%
Vertical	L=3.956m R=2000.000m G=0.664%		L=86.915m R=2000.000m		L=115.730m R=3000.000m G=5.000%		L=90.000m R=3000.000m		L=206.867m R=3000.000m
Horizontal	STR=154.496m		L=114.481m R=120.044m		L=120.044m R=509.978m		L=206.867m R=3000.000m		
Chainage	0.000	50.000	100.000	150.000	200.000	250.000	300.000	325.531	325.531

Murthly Junction Southbound Merge (Design Speed 70kph)

	0.000	50.000	100.000	150.000	200.000	250.000	289.798	289.798
Existing	70.848	69.845	68.853	63.249	58.123	67.162	67.817	67.817
Proposed	70.140	69.864	70.811	72.877	75.090	76.675	77.058	77.058
Gradient	-1.23%	0.64%	3.14%	4.50%	4.00%	2.34%	2.00%	2.00%
Vertical	L=116.658m R=2000.000m		L=127.125m R=3000.000m G=4.500%		L=58.002m R=1300.000m		L=75.000m R=3000.000m	
Horizontal	L=129.986m R=1020.000m		L=141.815m R=127.952m		L=9.639m R=2000.000m			
Chainage	0.000	50.000	100.000	150.000	200.000	250.000	289.798	289.798

Notes:

- Design Speeds of side roads at junctions have been assumed at this stage. Further assessments on the Design Speed of side roads that form part of the junctions will be undertaken as part of the DMRB Stage 3 assessment.

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COMHDAHL ALBA

Project

A9
DUALLING
PROMOTING THE GREENING
Power of Roads to the Country

Drawing title

**DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
MURTHLY/BIRNAM JUNCTION
OPTION 1
PLAN AND PROFILES, SHEET 1 OF 1**

Drawing status

A - APPROVED AS STAGE COMPLETE

Scale

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Jacobs No.

B2140002

Drawing number

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Rev

CO1

Murthly Junction Southbound Diverge (Design Speed 70kph)

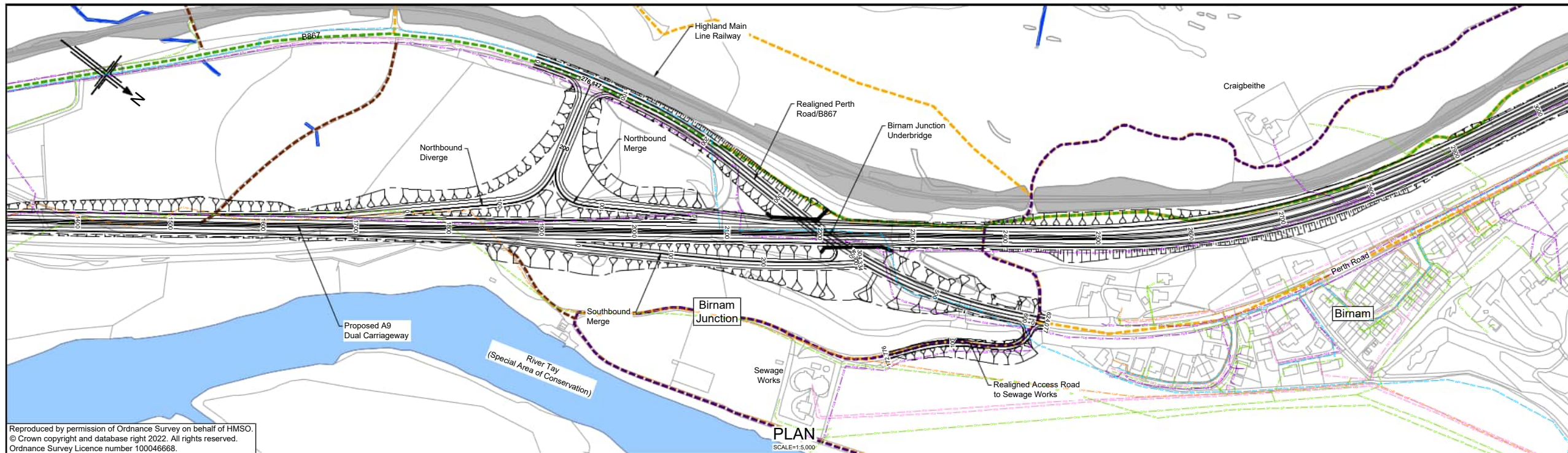
	0.000	50.000	100.000	150.000	200.000	250.000	300.000	337.703	337.703
Existing	66.782	66.031	66.279	66.702	66.186	63.163	65.860	68.057	68.057
Proposed	66.234	65.725	67.431	69.681	71.931	74.181	76.103	77.014	77.014
Gradient	0.23%	1.43%	3.86%	6.00%	6.00%	4.99%	3.02%	2.00%	2.00%
Vertical	L=11.214m R=2000.000m		L=159.633m R=2800.000m		L=256.072m R=3000.000m		L=75.000m R=3000.000m		
Horizontal	STR=71.453m		L=266.249m R=2800.000m		L=17.031m G=2.000%				
Chainage	0.000	50.000	100.000	150.000	200.000	250.000	300.000	337.703	337.703

Murthly Junction Overbridge (Design Speed 60kph, Ch. 0.000m - Ch. 147.000 and Accommodation Track, Ch. 147.000m - Ch. 814.228m)

	0.000	50.000	100.000	150.000	200.000	250.000	300.000	350.000	400.000	450.000	500.000	550.000	600.000	650.000	700.000	750.000	800.000	814.228
Existing	76.647	70.630	68.893	67.991	69.488	68.243	62.880	59.877	64.341	63.987	64.173	68.510	69.295	66.806	65.747	65.544	65.486	65.486
Proposed	76.647	77.666	77.660	77.660	75.983	72.935	68.951	64.951	61.875	64.586	64.372	64.902	68.793	68.004	67.290	65.999	65.599	65.486
Gradient	2.50%	1.26%	-1.68%	-4.82%	-7.57%	-8.00%	-8.00%	-0.00%	-4.95%	-2.00%	-7.76%	5.44%	-1.61%	-3.33%	-0.80%	-0.80%	-0.80%	-0.80%
Vertical	L=178.500m R=1700.000m		L=118.308m R=8.000%		L=51.200m R=320.000m		L=32.688m R=320.000m		L=45.940m R=2000.000m		L=40.856m R=800.000%		L=51.867m R=1000.000m		L=32.000m R=1000.000m		L=163.420m R=450.131m	
Horizontal	STR=147.144m		L=42.491m R=30.000m		STR=119.655m		L=12.035m R=510.000m		L=12.882m R=330.000m		L=32.920m R=400.000m		L=29.040m R=330.000m		L=51.152m R=90.000m		L=25.412m R=1000.000m	
Chainage	0.000	50.000	100.000	150.000	200.000	250.000	300.000	350.000	400.000	450.000	500.000	550.000	600.000	650.000	700.000	750.000	800.000	814.228

PROFILES
HORIZONTAL SCALE = 1:5,000
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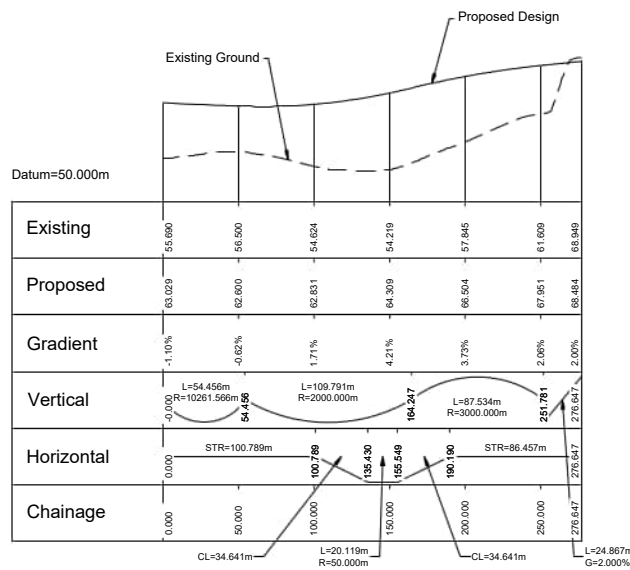


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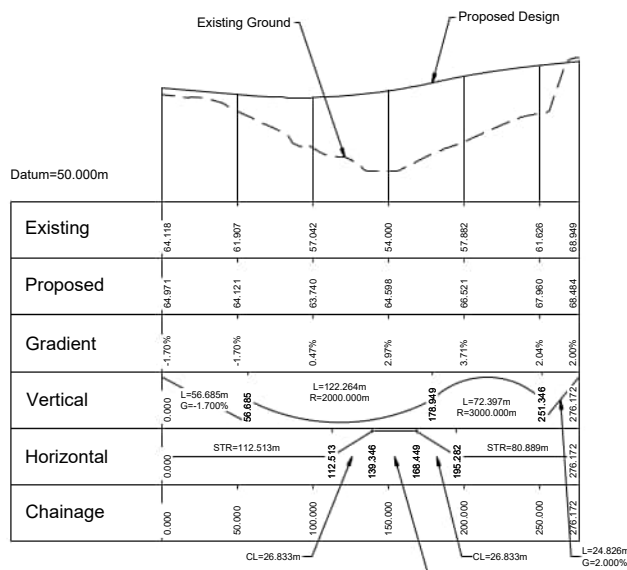
- Legend:
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Notes:

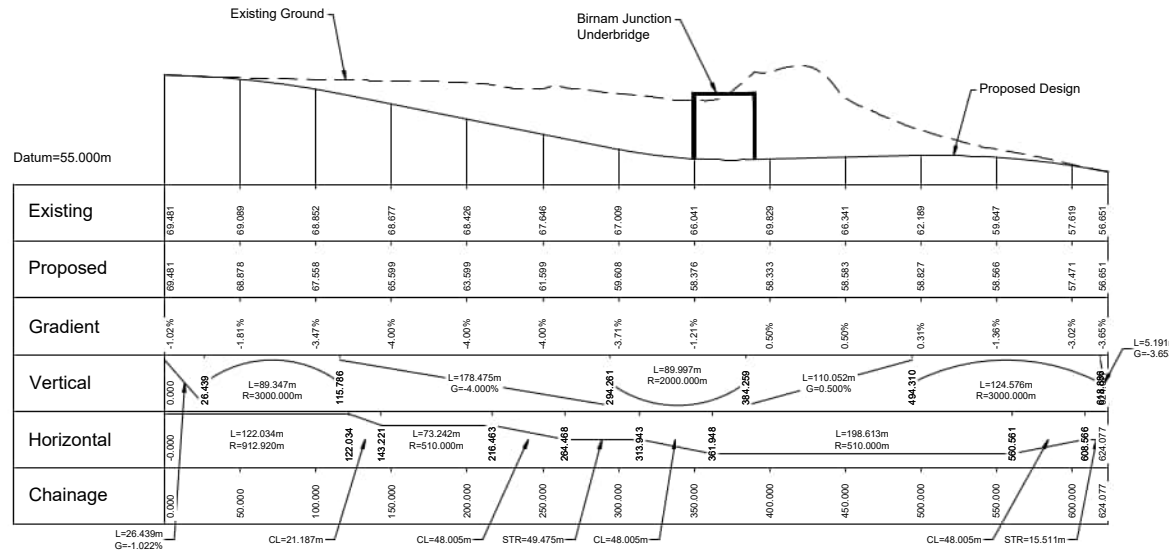
- Design Speeds of side roads at junctions have been assumed at this stage. Further assessments on the Design Speed of side roads that form part of the junctions will be undertaken as part of the DMRB Stage 3 assessment.



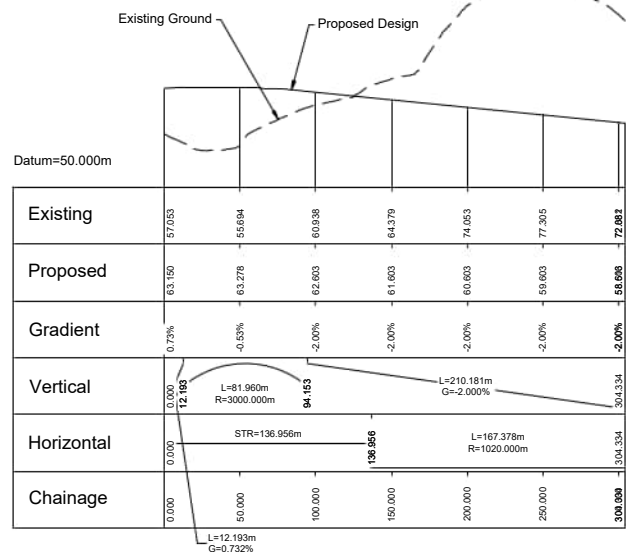
Birnam Junction Northbound Diverge (Design Speed 70kph)



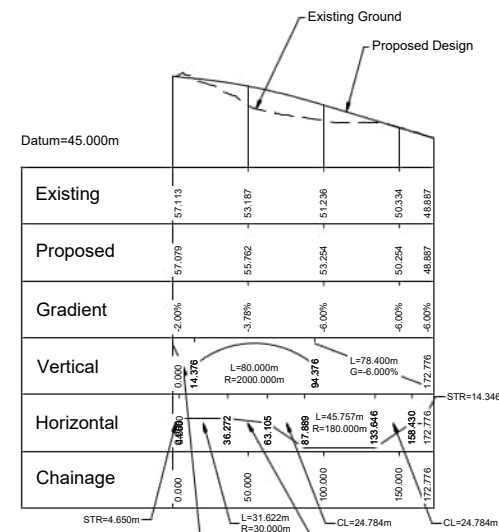
Birnam Junction Northbound Merge (Design Speed 70kph)



Birnam Junction Realigned Perth Road/B867 (Design Speed 70kph)



Birnam Junction Southbound Merge (Design Speed 70kph)



Birnam Junction Realigned Access Road to Sewage Works (Design Speed 50kph)

PROFILES
HORIZONTAL SCALE = 1:5,000
VERTICAL SCALE = 1:1,000

C01	07/03/22	DMRB STAGE 2 REPORT - FINAL	SA	AB	KS	AG
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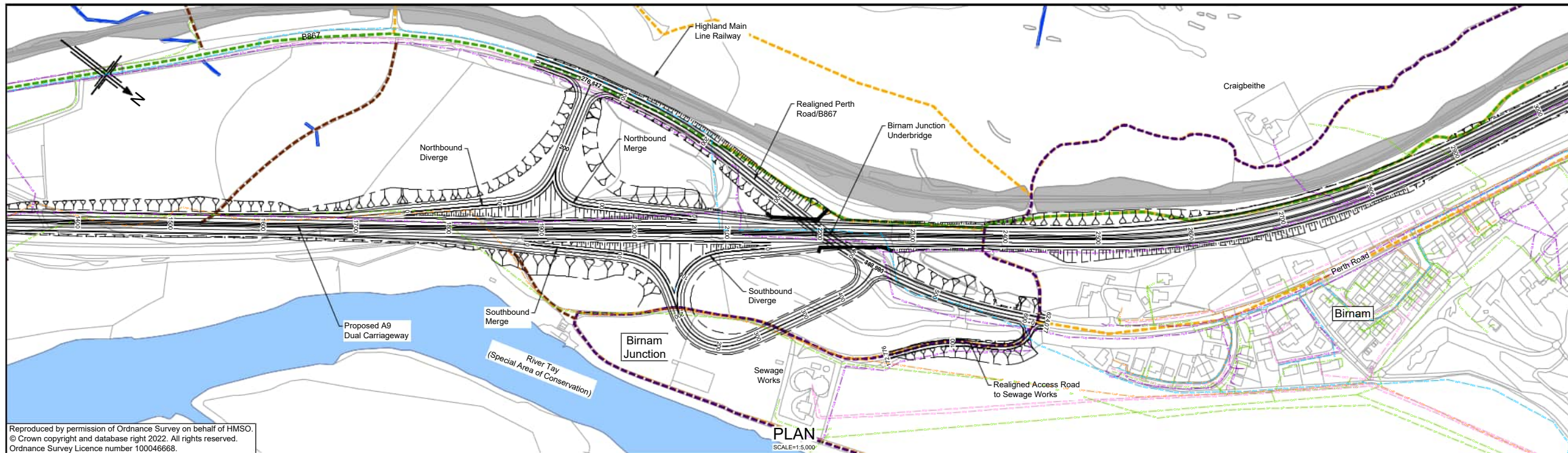


Project
**DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
MURTHLY/BIRNAM JUNCTION
OPTION 2
PLAN AND PROFILES, SHEET 1 OF 1**

Drawing status
A - APPROVED AS STAGE COMPLETE

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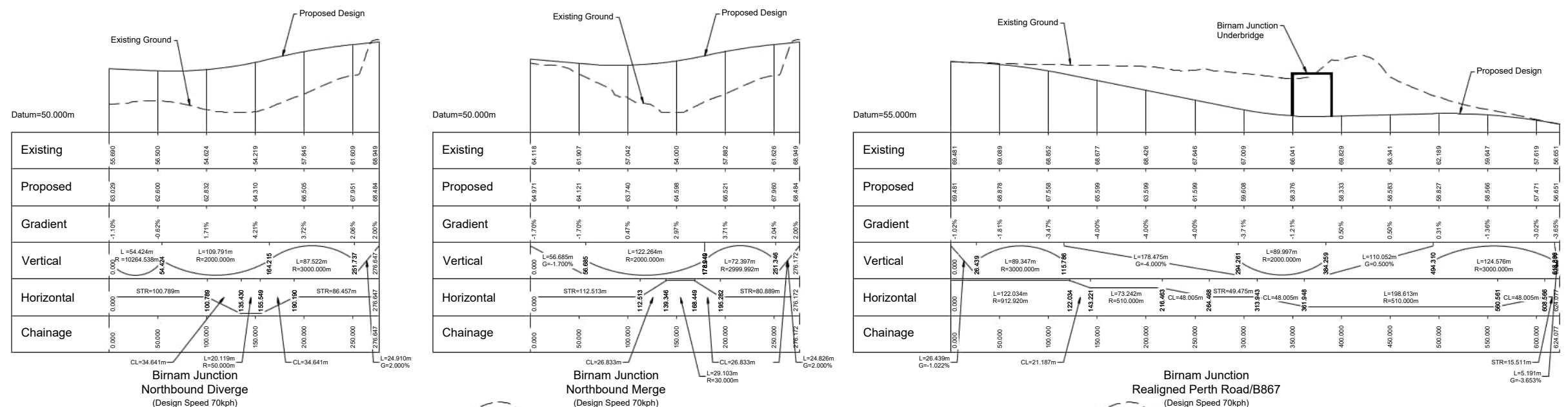
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PLAN
SCALE=1:5,000



Notes:

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Project

A9
DUALLING
PERTH TO INVERNESS
Pass of Strath to Tay Crossing

Drawing title

DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
MURTHLY/BIRNAM JUNCTION
OPTION 3
PLAN AND PROFILES, SHEET 1 OF 1

Drawing status

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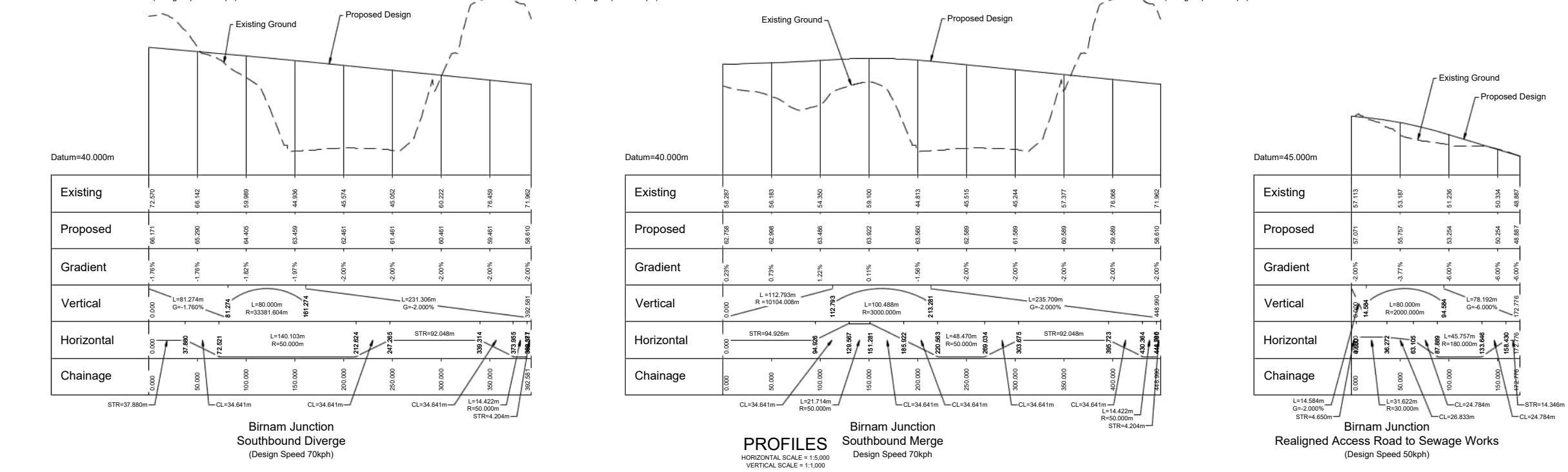
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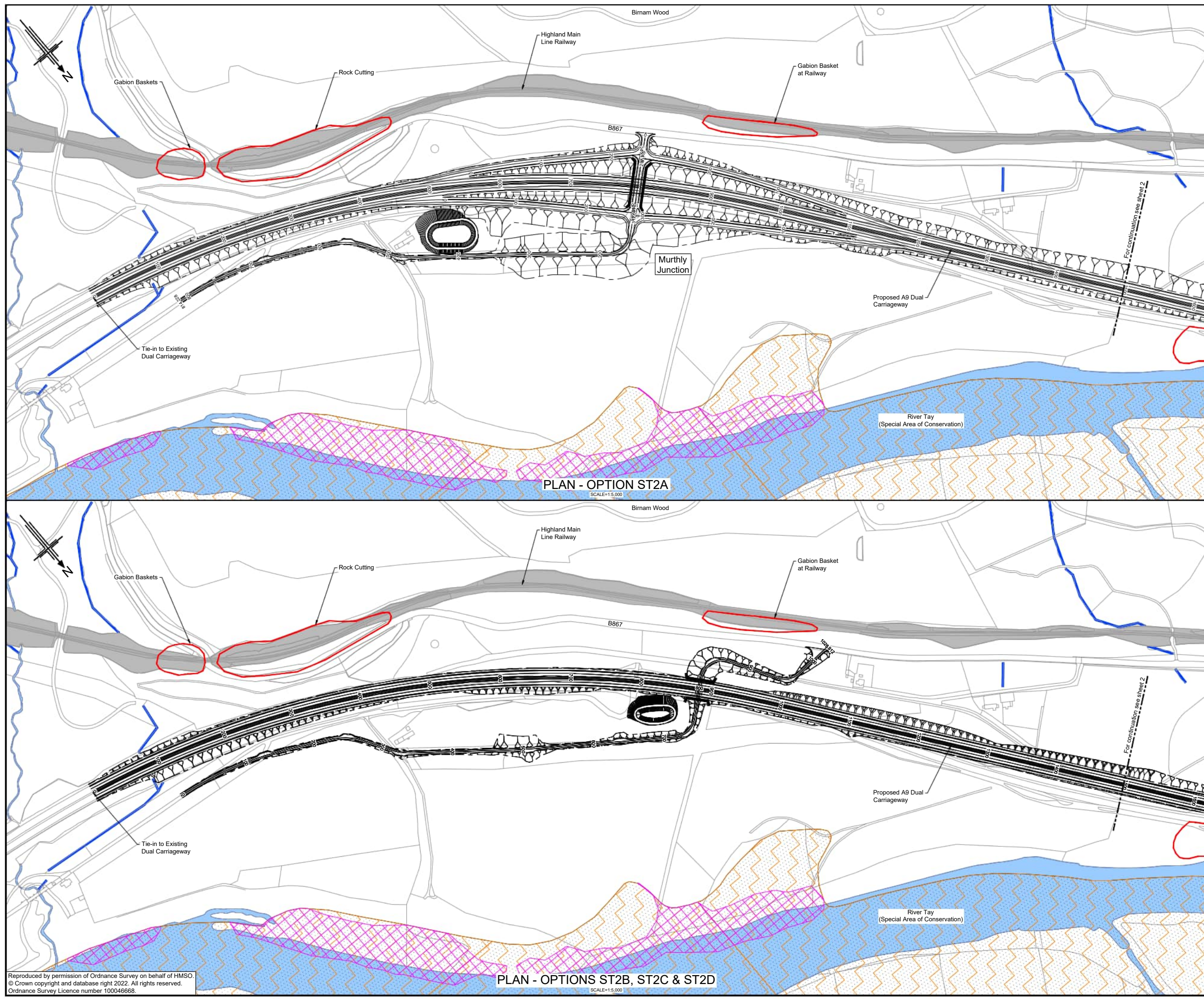
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PROFILES
HORIZONTAL SCALE = 1:5,000
VERTICAL SCALE = 1:1,000



Legend:

- Route Options
- Bridge Structure
- Retaining Wall Structure
- Highland Main Line Railway
- Watercourse

Geotechnical Constraints

- Moderate Risk of Landslide
- Moderate Risk of Compressible Ground
- Existing Geotechnical Constraints (Refer to Note 2)

Superficial Geology

- Alluvium

- Notes:**
1. Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.
 2. The existing geotechnical constraints have been based on the 'A9 Pass of Birnam to Tay Crossing, Preliminary Sources Study Report, Scott Wilson Ltd., March 2011' and 'A9 Dualling: Pass of Birnam to Tay Crossing, Ground Investigation Report, AECOM, July 2016'.

PLAN - OPTION ST2A
SCALE=1:5,000

PLAN - OPTIONS ST2B, ST2C & ST2D
SCALE=1:5,000

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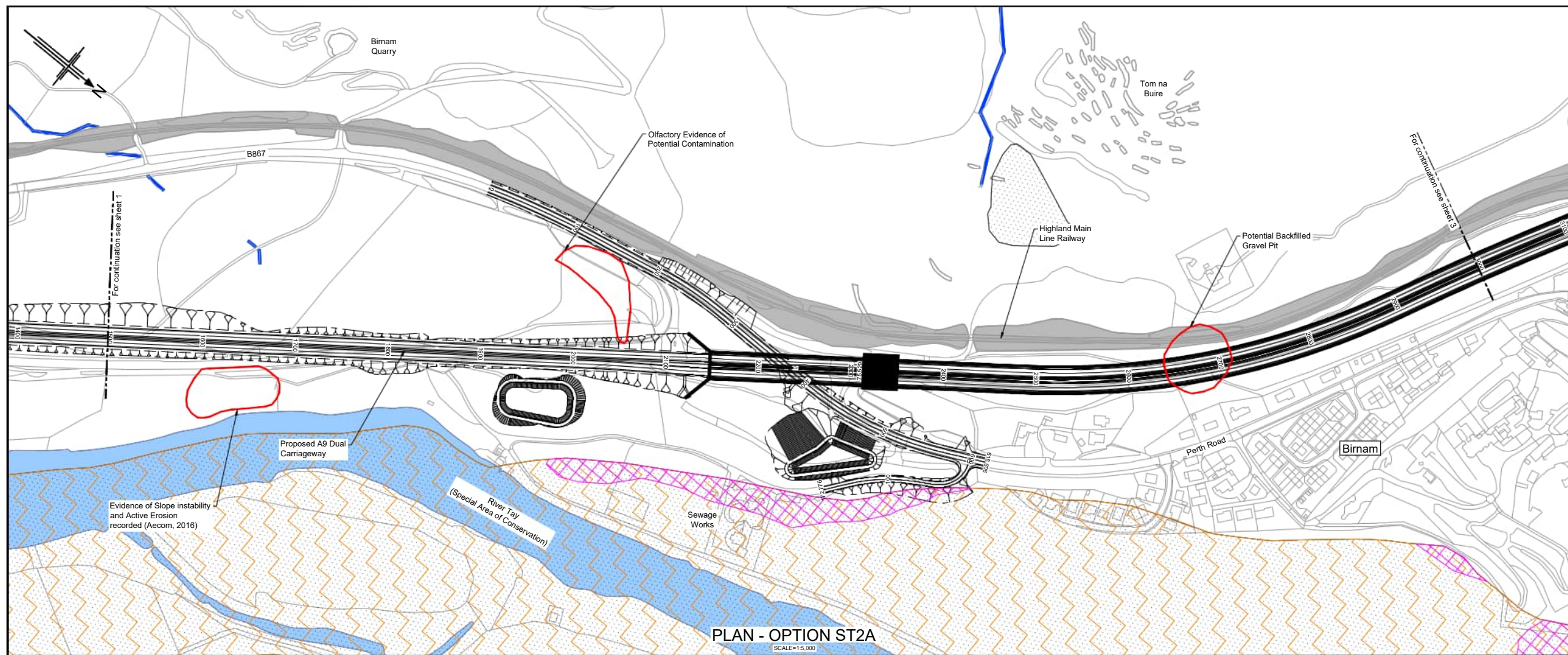
**DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
GEOTECHNICAL CONSTRAINTS
OPTIONS ST2A, ST2B, ST2C & ST2D
SHEET 1 OF 6**

Drawing status: **A - APPROVED AS STAGE COMPLETE**

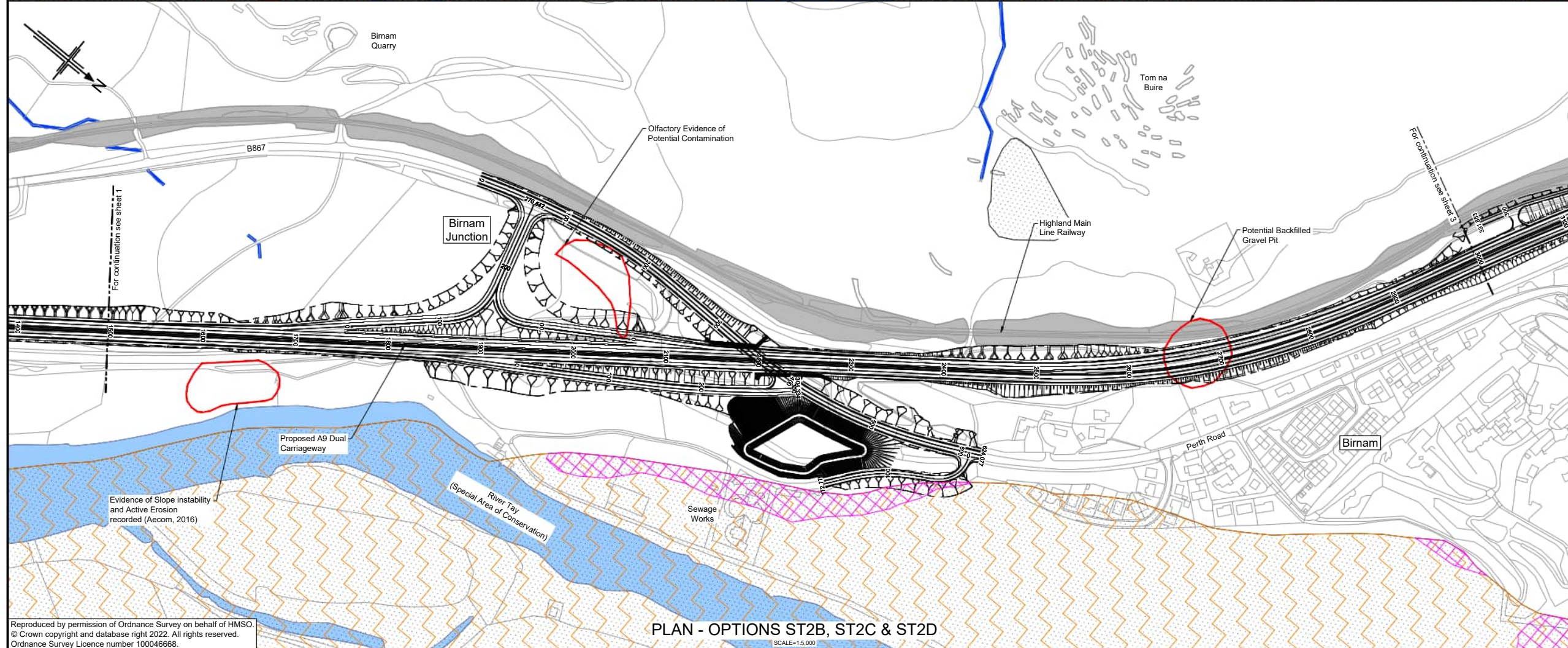
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PLAN - OPTION ST2A
SCALE=1:5,000



PLAN - OPTIONS ST2B, ST2C & ST2D
SCALE=1:5,000

- Legend:
- Route Options
 - Bridge Structure
 - Retaining Wall Structure
 - Highland Main Line Railway
 - Watercourse
- Geotechnical Constraints
- Moderate Risk of Landslide
 - Moderate Risk of Compressible Ground
 - Existing Geotechnical Constraints (Refer to Note 2)
- Superficial Geology
- Alluvium

- Notes:
1. Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.
 2. The existing geotechnical constraints have been based on the 'A9 Pass of Birnam to Tay Crossing, Preliminary Sources Study Report, Scott Wilson Ltd., March 2011' and 'A9 Dualing: Pass of Birnam to Tay Crossing, Ground Investigation Report, AECOM, July 2016'.

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 PASS OF BIRNAM TO TAY CROSSING
 GEOTECHNICAL CONSTRAINTS
 OPTIONS ST2A, ST2B, ST2C & ST2D
 SHEET 2 OF 6**

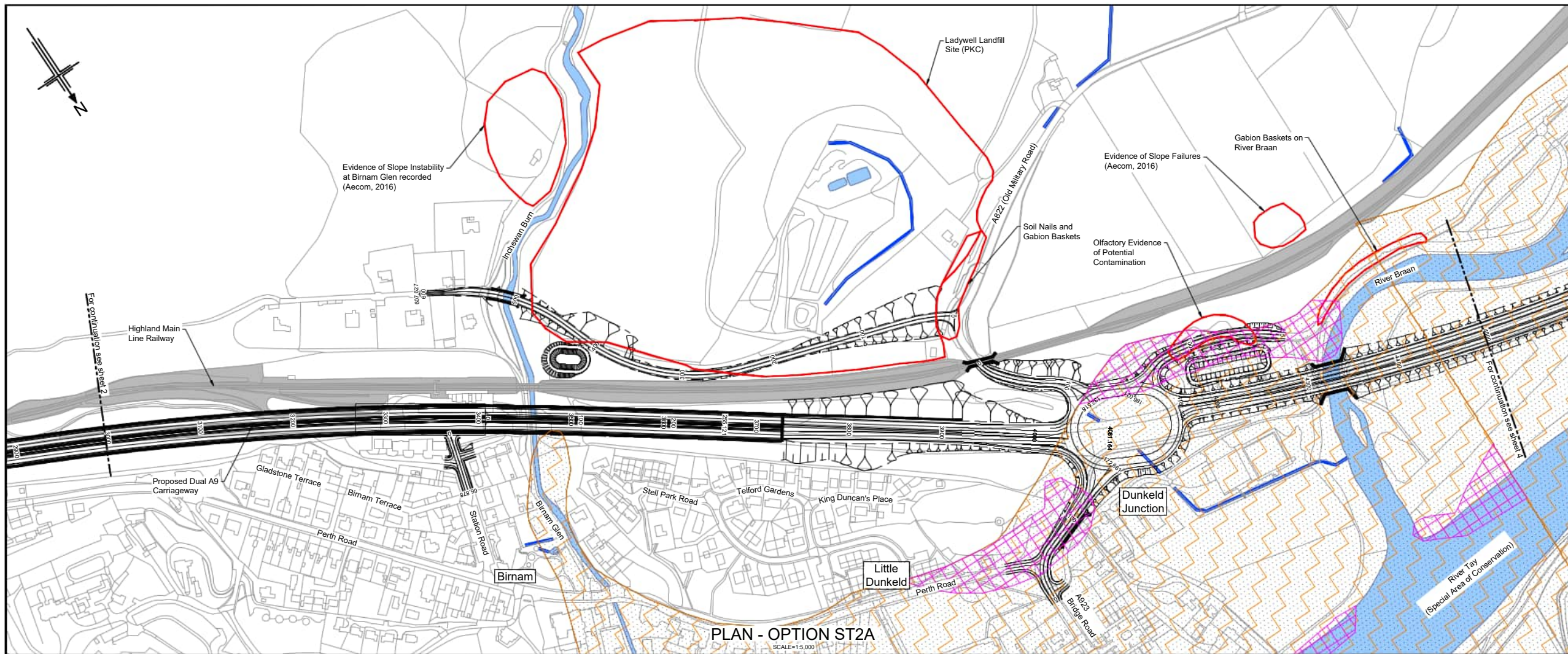
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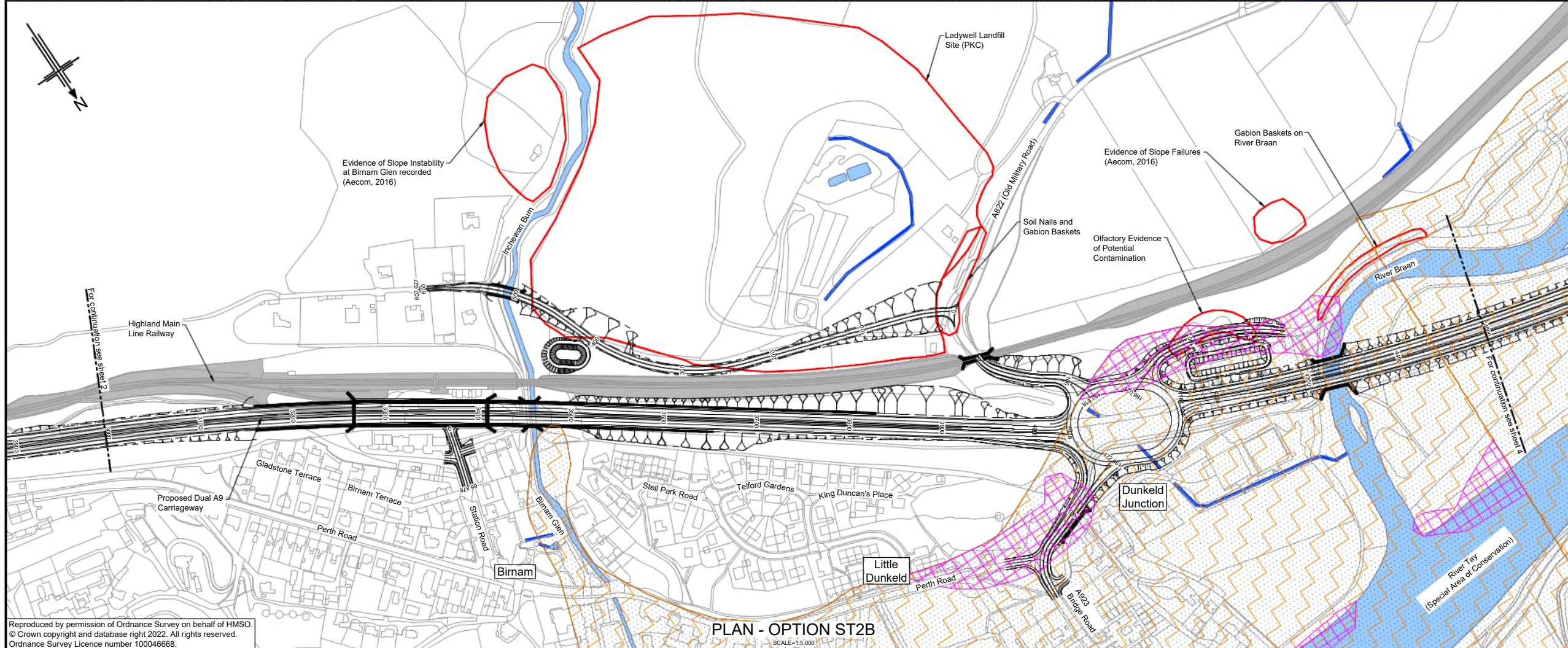
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PLAN - OPTION ST2A
SCALE=1:5,000



PLAN - OPTION ST2B
SCALE=1:5,000

- Legend:
- Route Options
 - Bridge Structure
 - Retaining Wall Structure
 - Highland Main Line Railway
 - Watercourse
- Geotechnical Constraints
- Moderate Risk of Landslide
 - Moderate Risk of Compressible Ground
 - Existing Geotechnical Constraints (Refer to Note 2)
- Superficial Geology
- Alluvium

- Notes:
1. Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.
 2. The existing geotechnical constraints have been based on the 'A9 Pass of Birnam to Tay Crossing, Preliminary Sources Study Report, Scott Wilson Ltd., March 2011' and 'A9 Dualling: Pass of Birnam to Tay Crossing, Ground Investigation Report, AECOM, July 2016'.

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Client

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Project

A9
 DUALLING
 PERTH TO INVERNESS
 Pass of Birnam to Tay Crossing

Drawing title
**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 GEOTECHNICAL CONSTRAINTS
 OPTIONS ST2A & ST2B
 SHEET 3A OF 6**

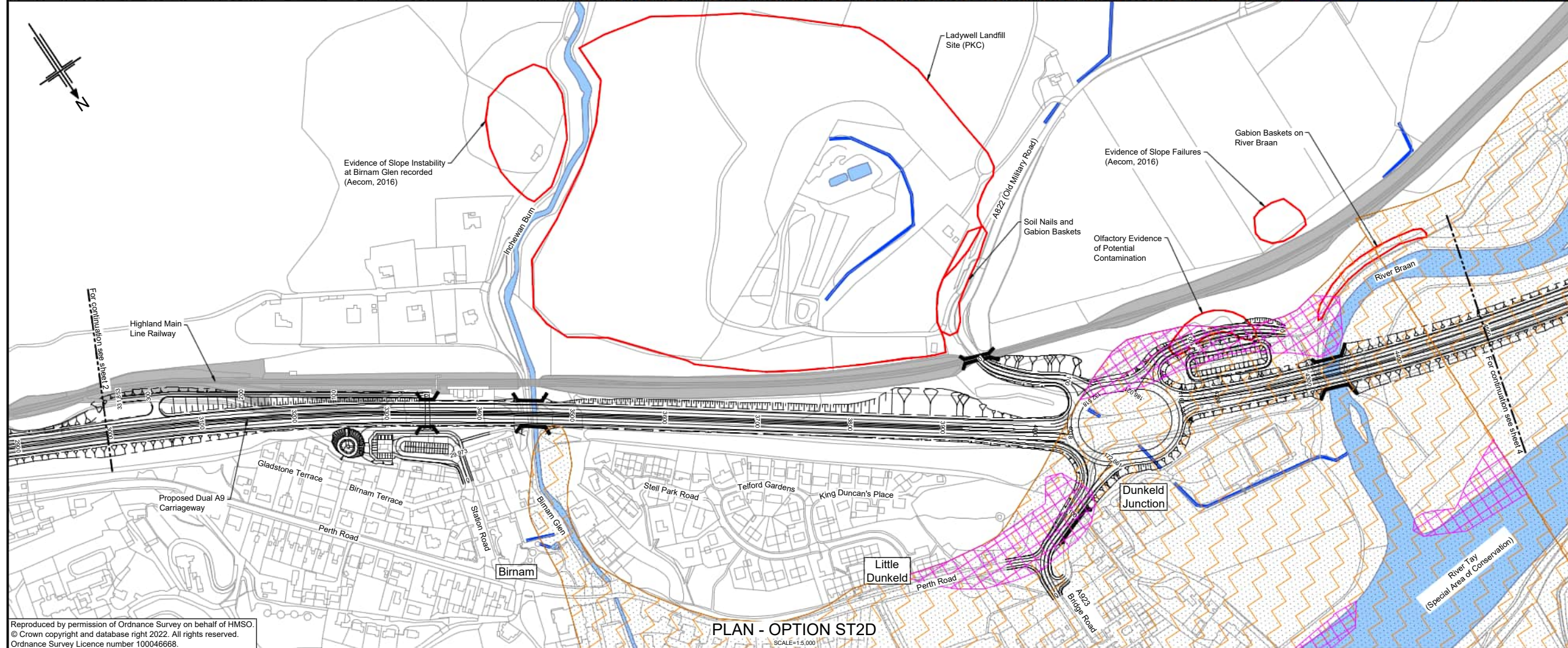
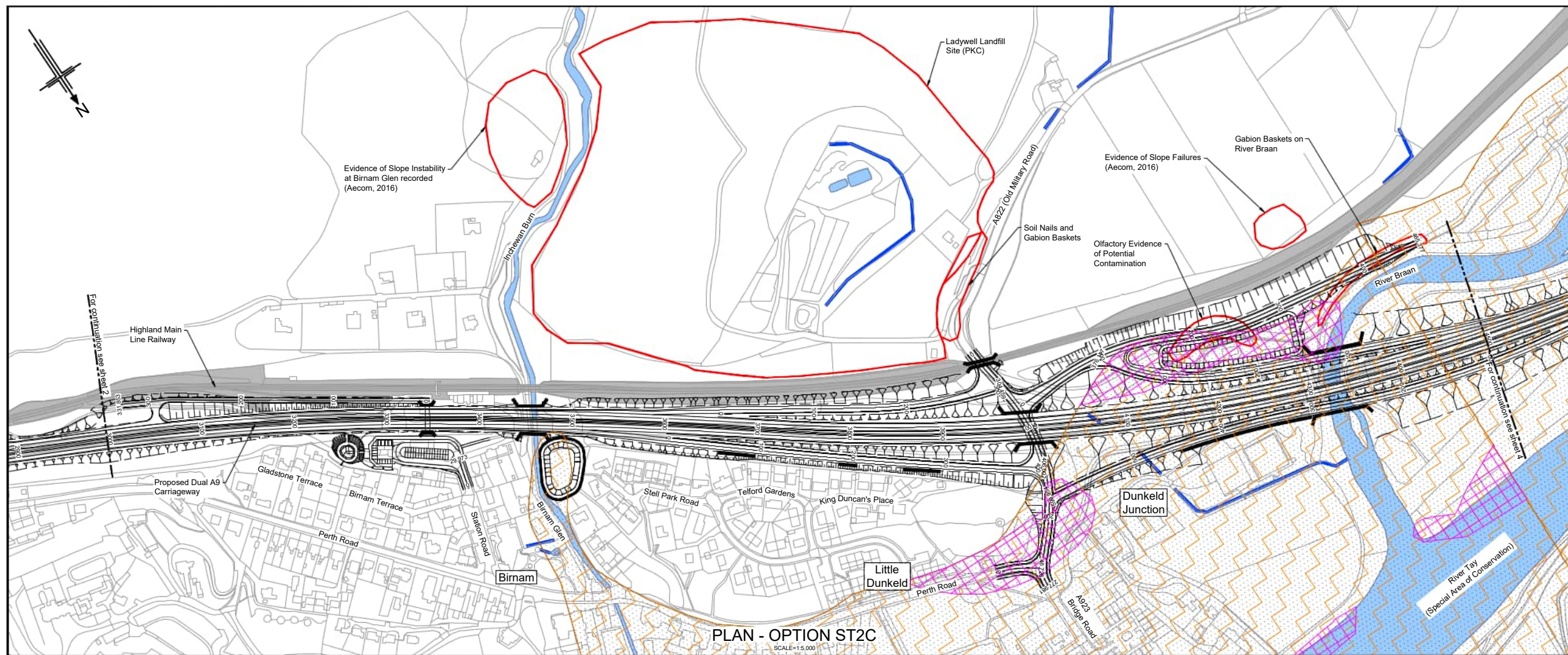
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- Legend:**
- Route Options
 - Bridge Structure
 - Retaining Wall Structure
 - Highland Main Line Railway
 - Watercourse
- Geotechnical Constraints**
- Moderate Risk of Landslide
 - Moderate Risk of Compressible Ground
 - Existing Geotechnical Constraints (Refer to Note 2)
- Superficial Geology**
- Alluvium

- Notes:**
1. Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.
 2. The existing geotechnical constraints have been based on the 'A9 Pass of Birnam to Tay Crossing, Preliminary Sources Study Report, Scott Wilson Ltd., March 2011' and 'A9 Dualing: Pass of Birnam to Tay Crossing, Ground Investigation Report, AECOM, July 2016'.

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TRANSPORT SCOTLAND
COMHDHAL ALBA

Project

A9 DUALING
PERTH TO INVERNESS
Pass of Birnam to Tay Crossing

Drawing title
**DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
GEOTECHNICAL CONSTRAINTS
OPTIONS ST2C & ST2D
SHEET 3B OF 6**

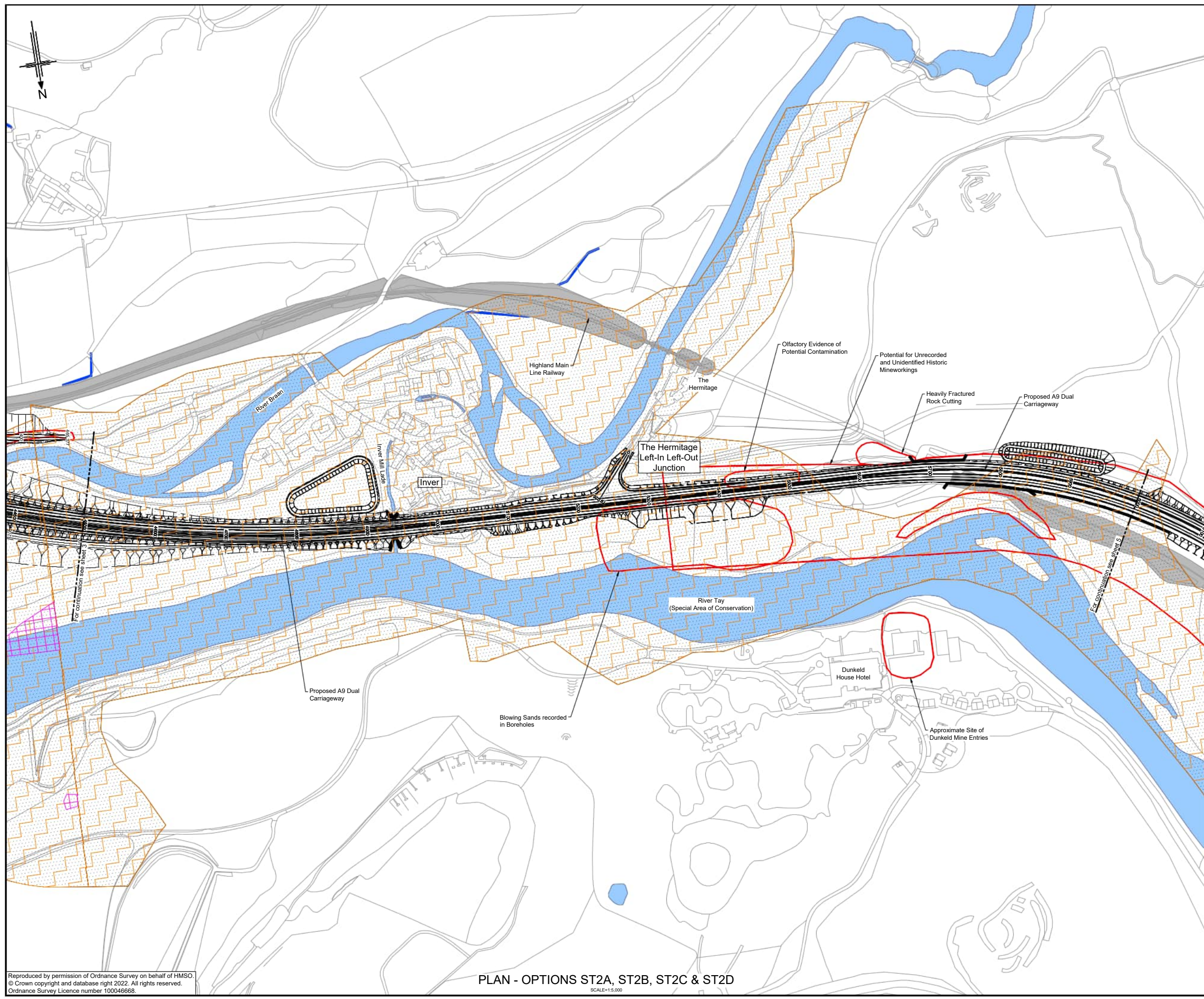
Drawing status
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Legend:

- Route Options
- Bridge Structure
- Retaining Wall Structure
- Highland Main Line Railway
- Watercourse

Geotechnical Constraints

- Moderate Risk of Landslide
- Moderate Risk of Compressible Ground
- Existing Geotechnical Constraints (Refer to Note 2)

Superficial Geology

- Alluvium

- Notes:**
1. Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.
 2. The existing geotechnical constraints have been based on the 'A9 Pass of Birnam to Tay Crossing, Preliminary Sources Study Report, Scott Wilson Ltd., March 2011' and 'A9 Dualing: Pass of Birnam to Tay Crossing, Ground Investigation Report, AECOM, July 2016'.

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A9
 DUALING
 PERTH TO INVERNESS
 Pass of Birnam to Tay Crossing

Drawing title
**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 GEOTECHNICAL CONSTRAINTS
 OPTIONS ST2A, ST2B, ST2C & ST2D
 SHEET 4 OF 6**

Drawing status
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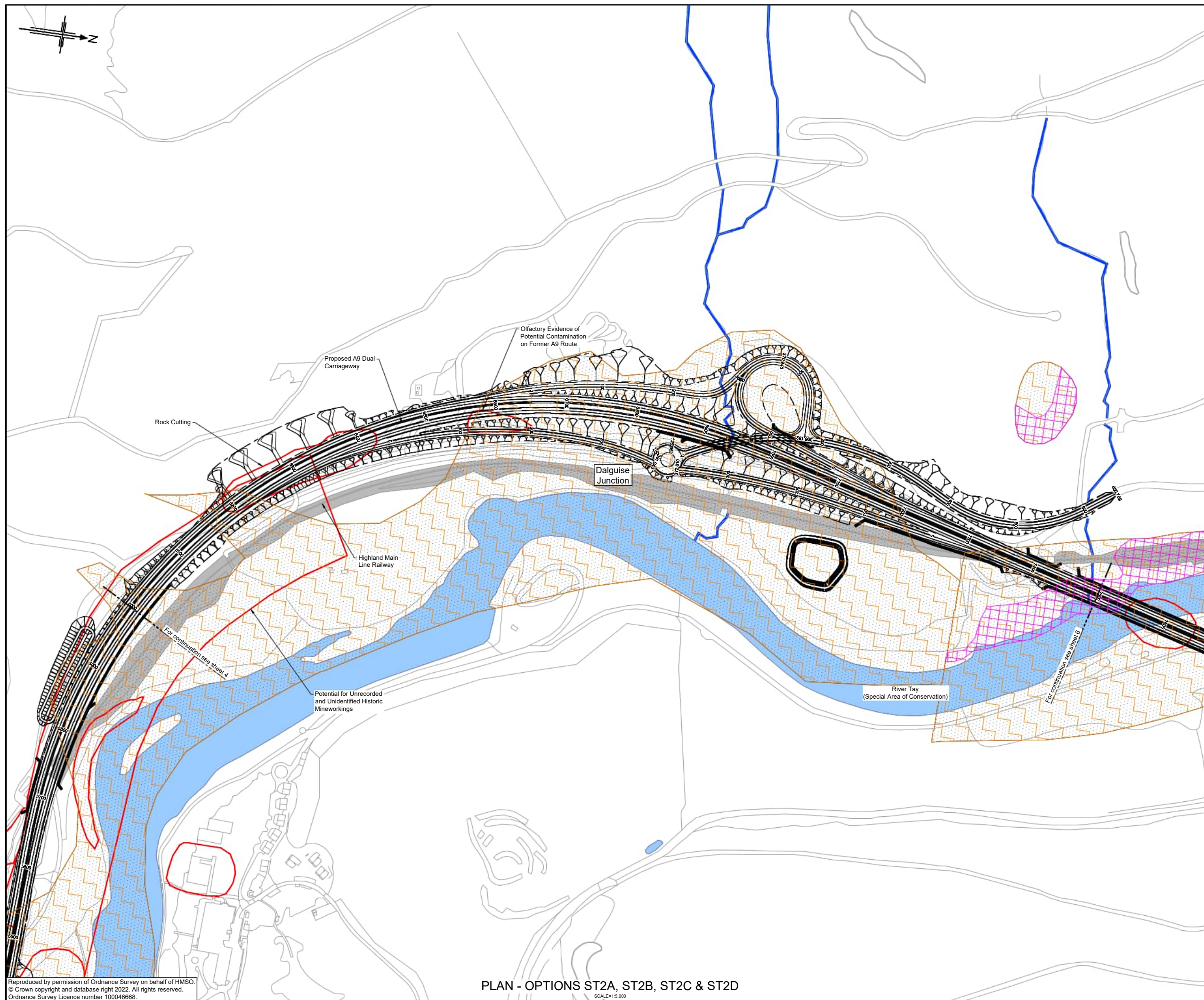
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PLAN - OPTIONS ST2A, ST2B, ST2C & ST2D
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Legend:

	Route Options
	Bridge Structure
	Retaining Wall Structure
	Highland Main Line Railway
	Watercourse
Geotechnical Constraints	
	Moderate Risk of Landslide
	Moderate Risk of Compressible Ground
	Existing Geotechnical Constraints (Refer to Note 2)
Superficial Geology	
	Alluvium

- Notes:
1. Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.
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**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 GEOTECHNICAL CONSTRAINTS
 OPTIONS ST2A, ST2B, ST2C & ST2D
 SHEET 5 OF 6**

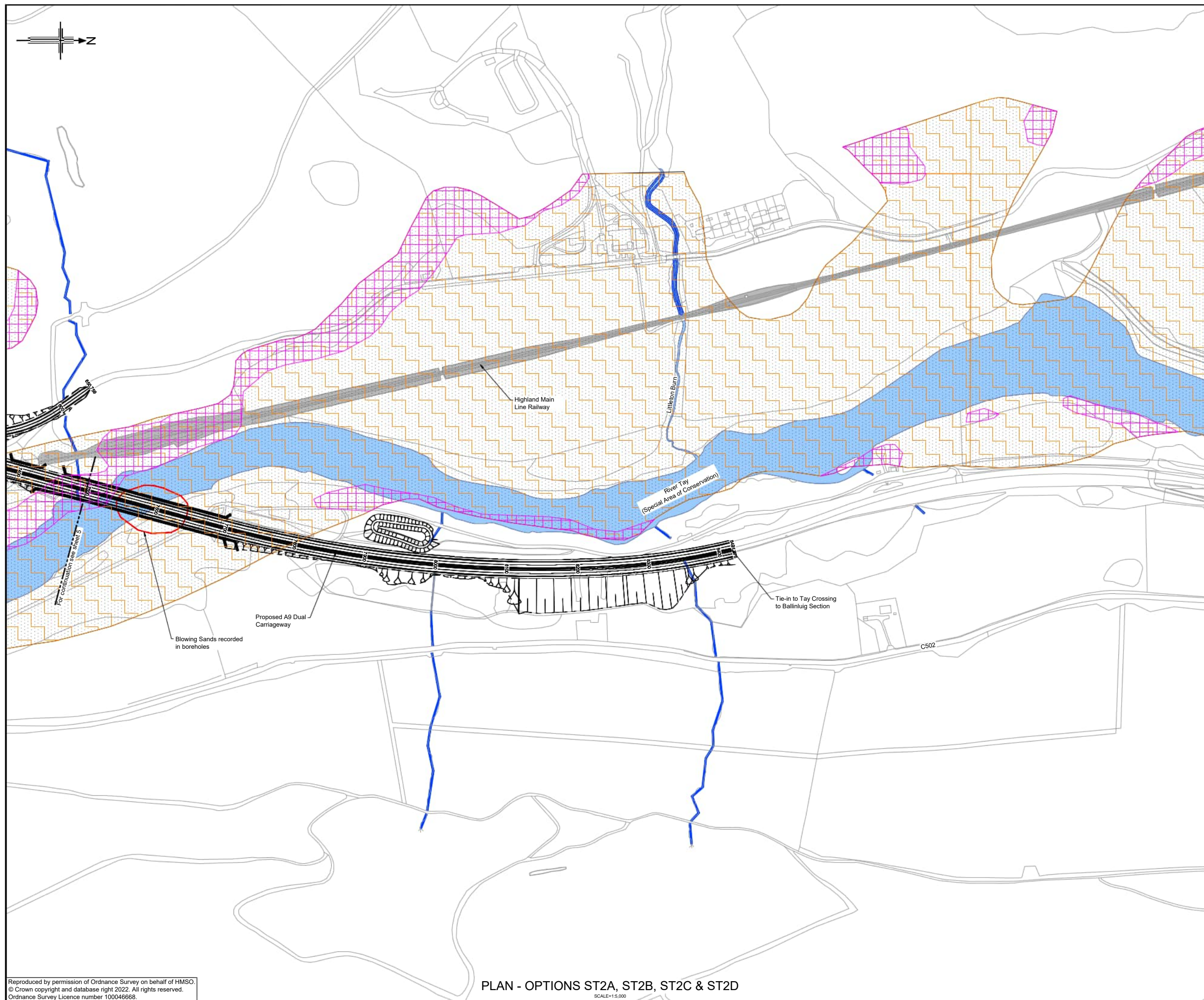
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- Legend:**
- Route Options
 - Bridge Structure
 - Retaining Wall Structure
 - Highland Main Line Railway
 - Watercourse
- Geotechnical Constraints**
- Moderate Risk of Landslide
 - Moderate Risk of Compressible Ground
 - Existing Geotechnical Constraints (Refer to Note 2)
- Superficial Geology**
- Alluvium

- Notes:**
1. Location of detention basins and associated outfalls are indicative at this stage and will be further considered and refined at future stages of design and assessment for the Preferred Route Option.
 2. The existing geotechnical constraints have been based on the 'A9 Pass of Birnam to Tay Crossing, Preliminary Sources Study Report, Scott Wilson Ltd., March 2011' and 'A9 Dualling: Pass of Birnam to Tay Crossing, Ground Investigation Report, AECOM, July 2016'.

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 PASS OF BIRNAM TO TAY CROSSING
 GEOTECHNICAL CONSTRAINTS
 OPTIONS ST2A, ST2B, ST2C & ST2D
 SHEET 6 OF 6**

Drawing status
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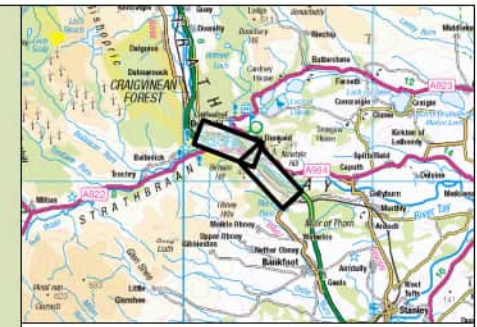
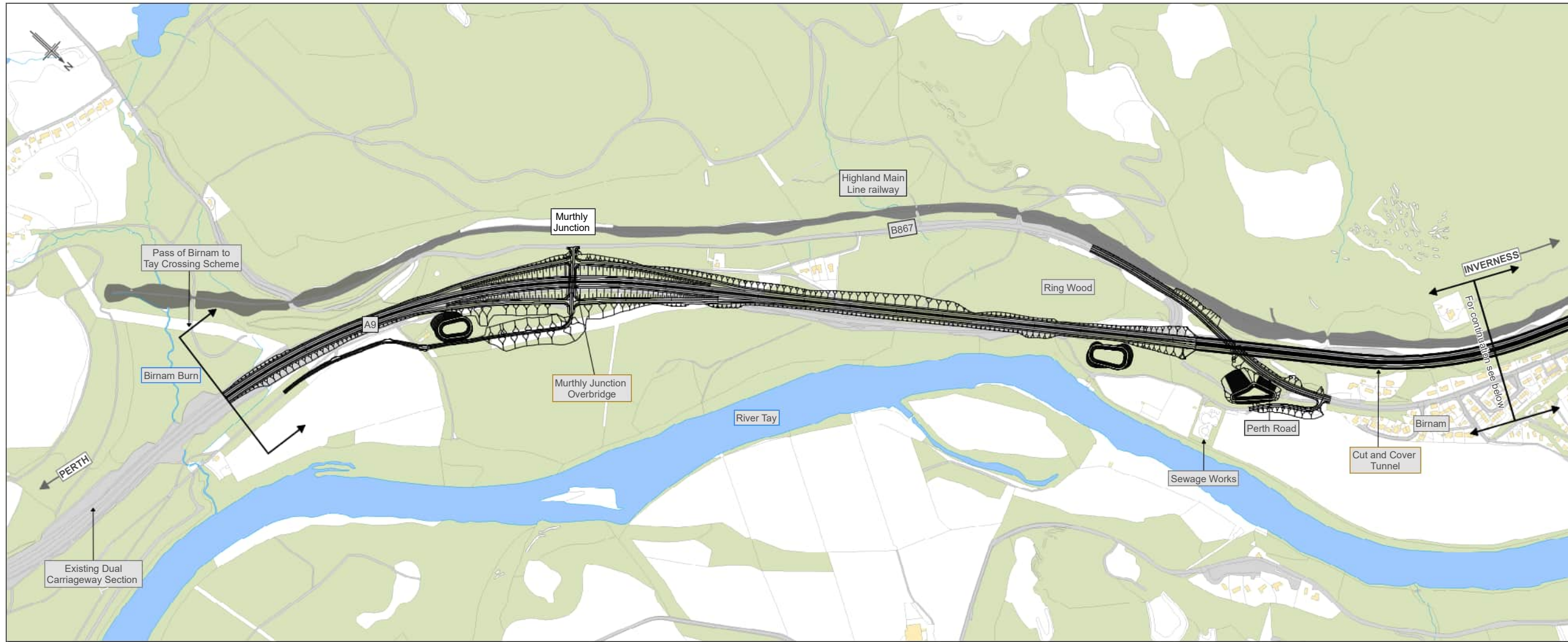
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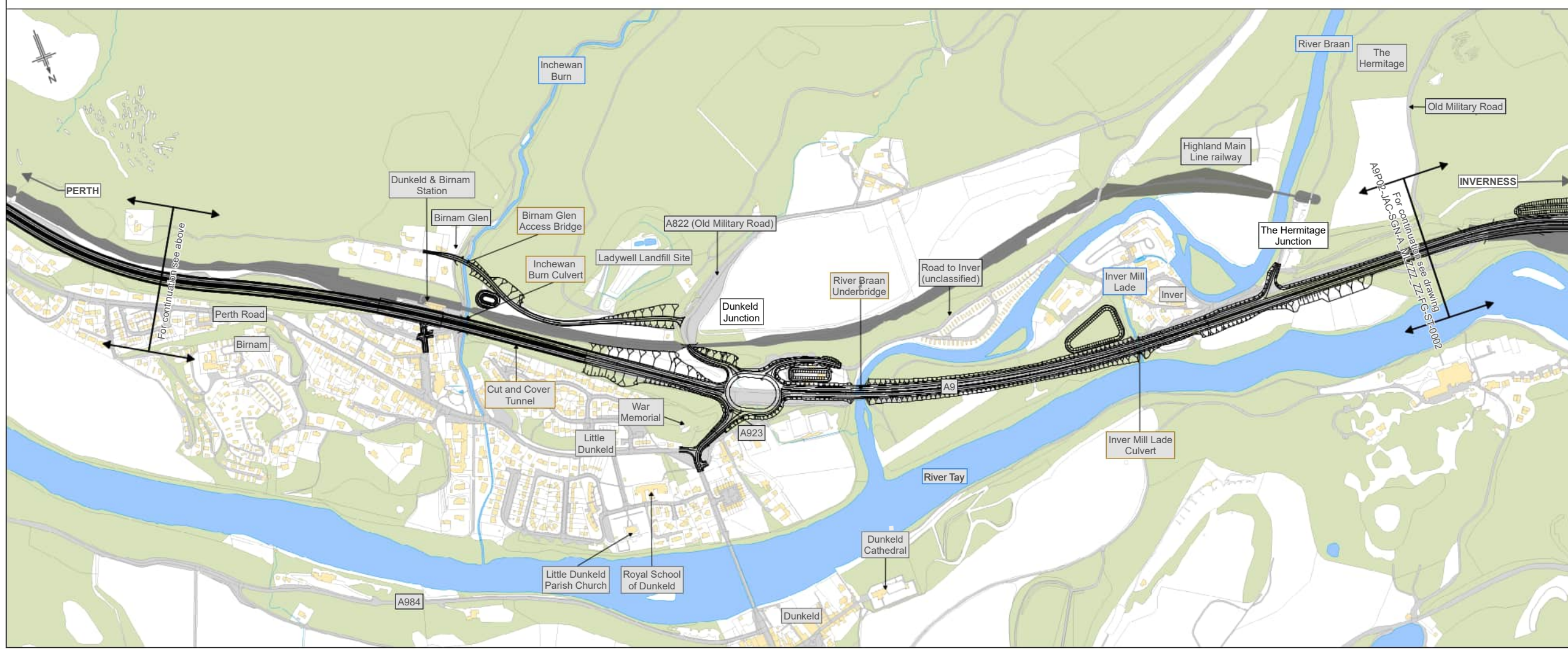
PLAN - OPTIONS ST2A, ST2B, ST2C & ST2D
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Legend

- Proposed Scheme
- Cutting
- Embankment
- Graded Slope
- Indicative location of SuDS
- Structure
- Watercourse
- Structure
- Transport link
- Other feature
- Junction



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**DMRB STAGE 2
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 STRUCTURES LOCATION PLAN
 OPTION ST2A
 SHEET 1 OF 2**

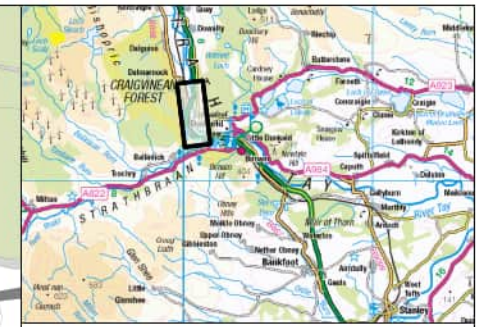
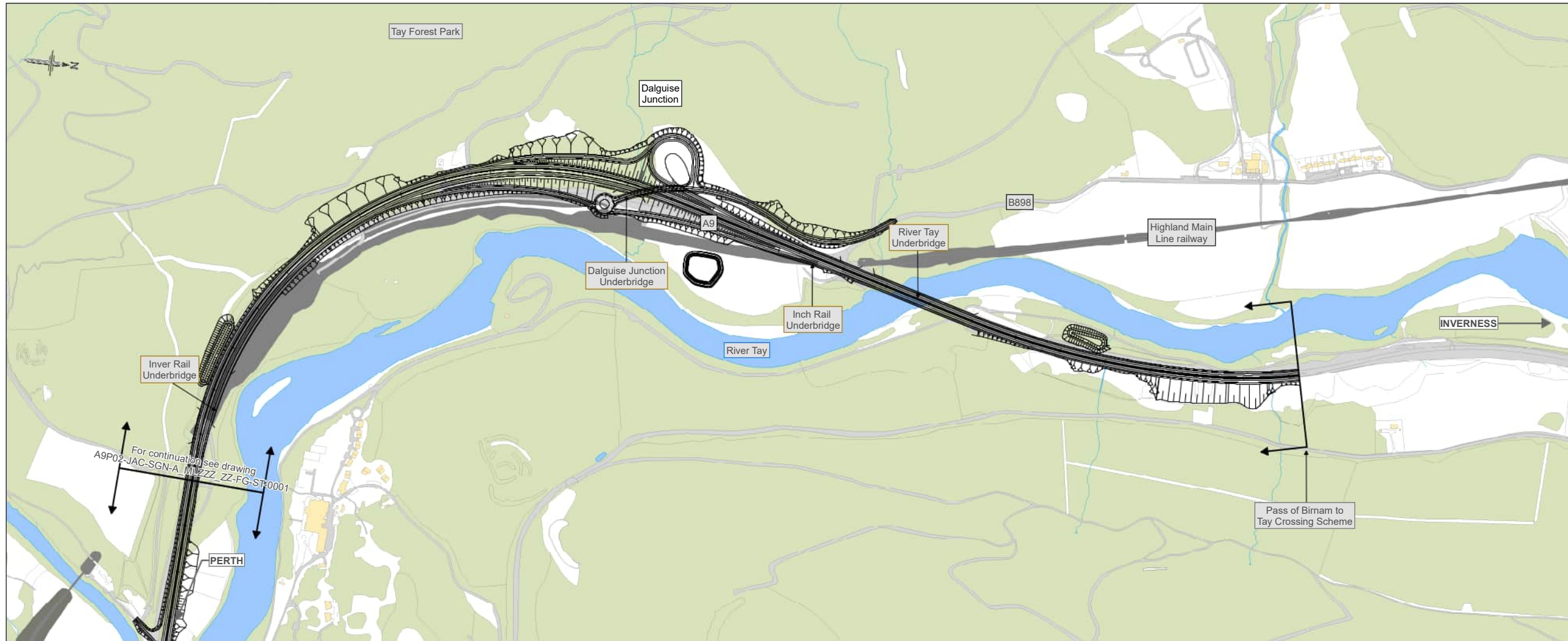
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Legend

- Proposed Scheme
- Cutting
- Embankment
- Graded Slope
- Indicative location of SuDS
- Structure
- Watercourse
- Structure
- Transport link
- Other feature
- Junction

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 STRUCTURES LOCATION PLAN
 OPTION ST2A
 SHEET 2 OF 2**

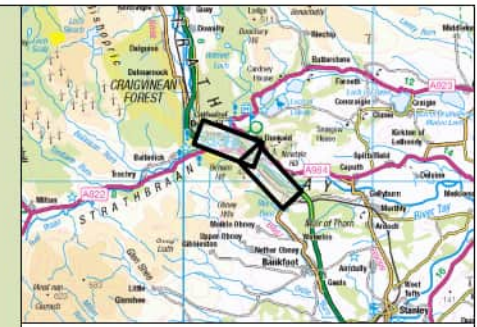
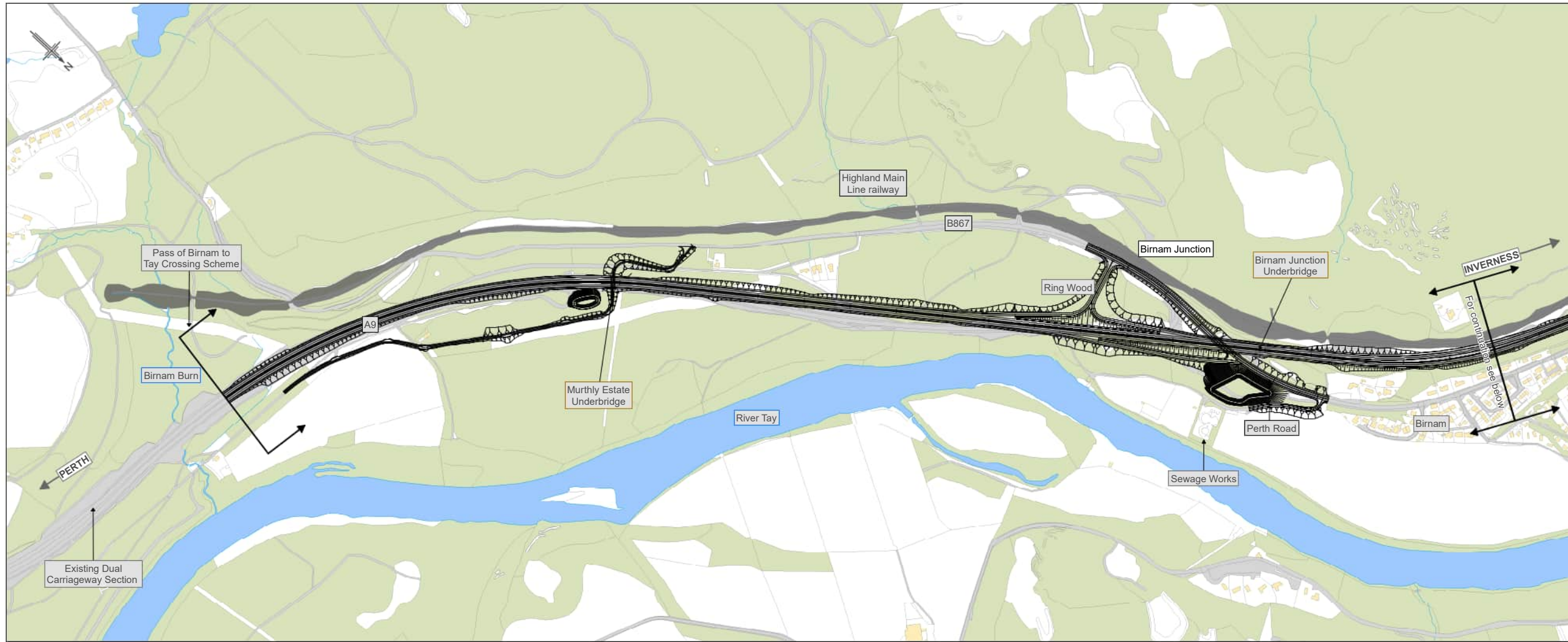
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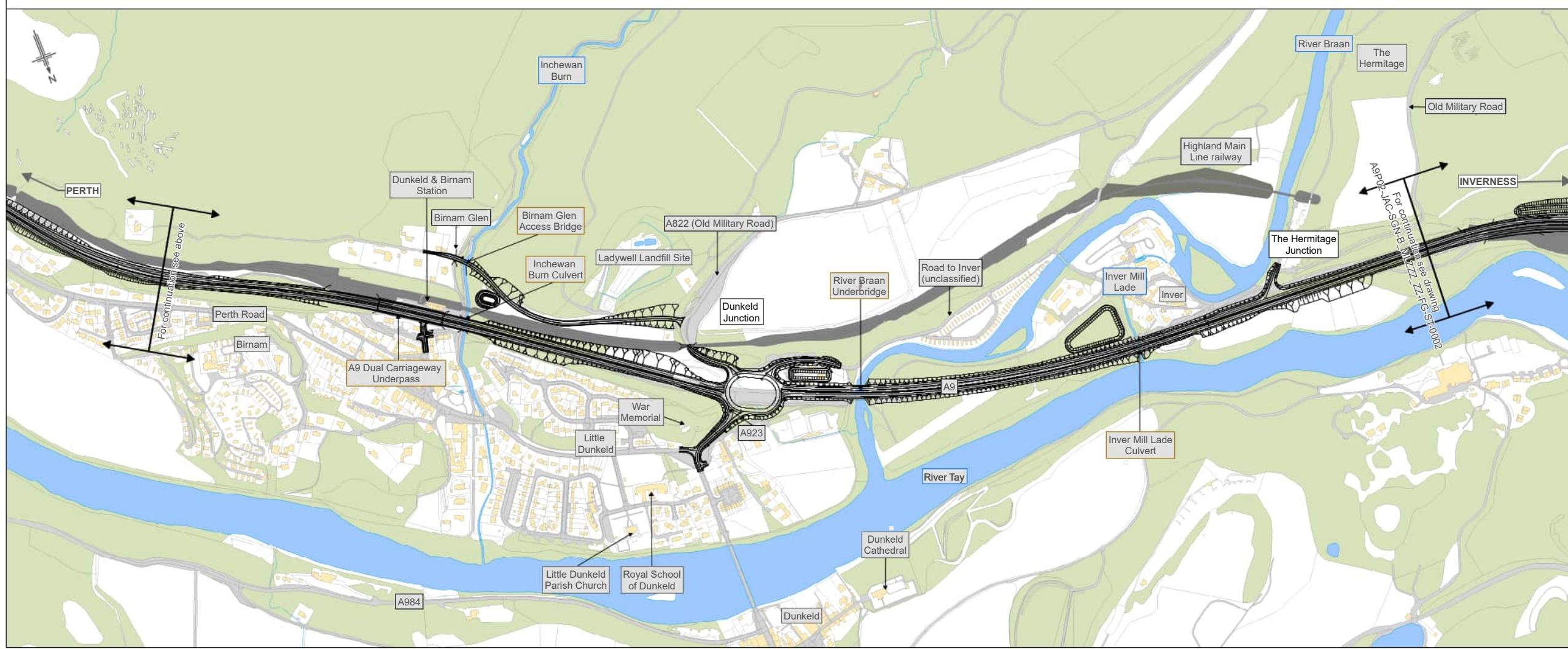
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Legend

- Proposed Scheme
- Cutting
- Embankment
- Graded Slope
- Indicative location of SuDS
- Structure
- Watercourse
- Structure
- Transport link
- Other feature
- Junction



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**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 STRUCTURES LOCATION PLAN
 OPTION ST2B
 SHEET 1 OF 2**

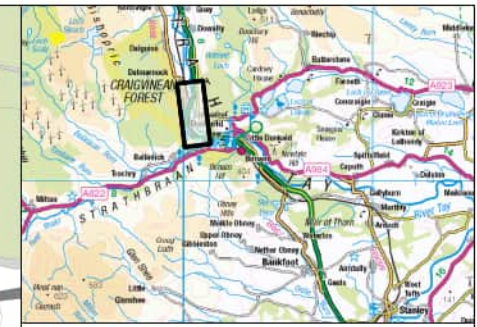
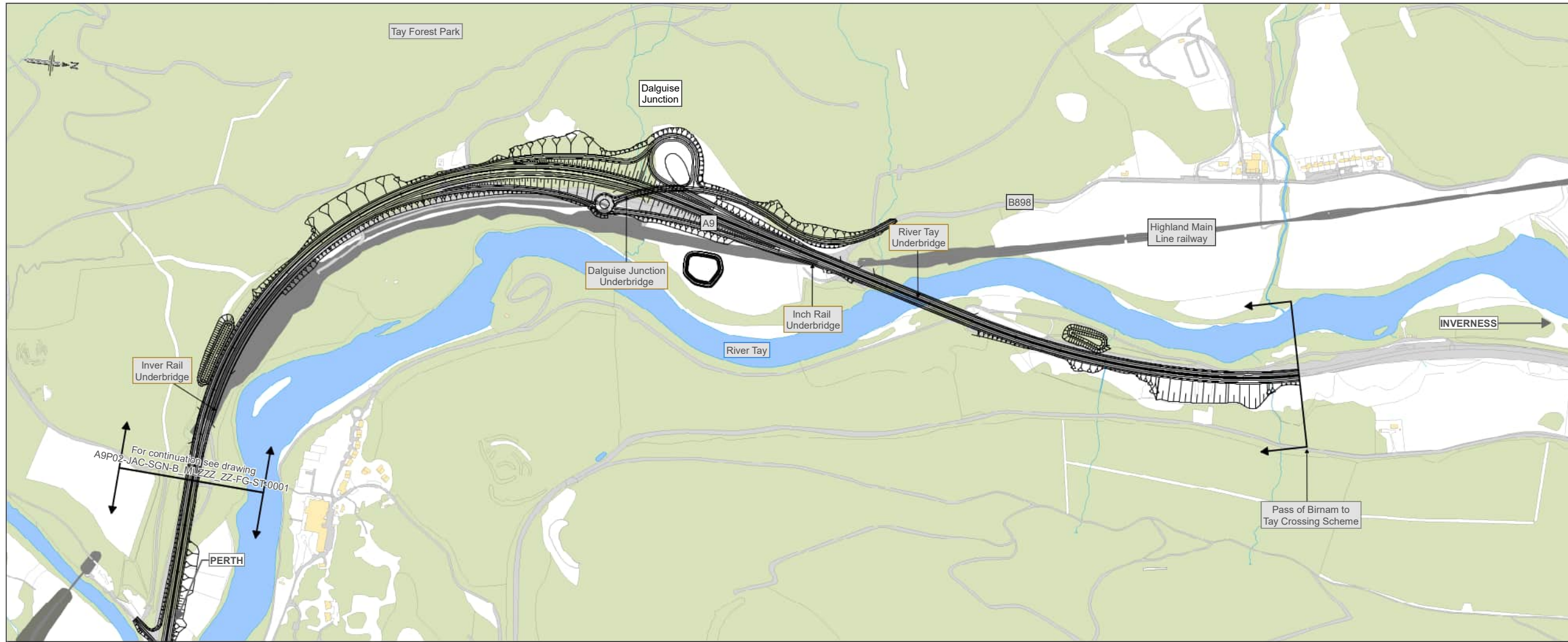
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Legend

- Proposed Scheme
- Cutting
- Embankment
- Graded Slope
- Indicative location of SuDS
- Structure
- Watercourse
- Structure
- Transport link
- Other feature
- Junction

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 STRUCTURES LOCATION PLAN
 OPTION ST2B
 SHEET 2 OF 2**

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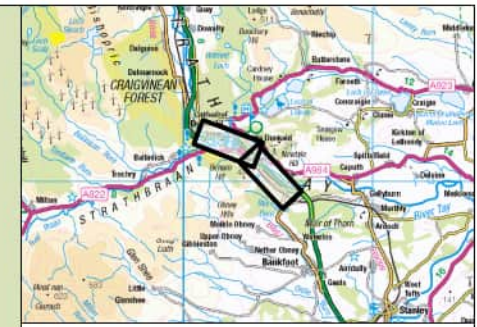
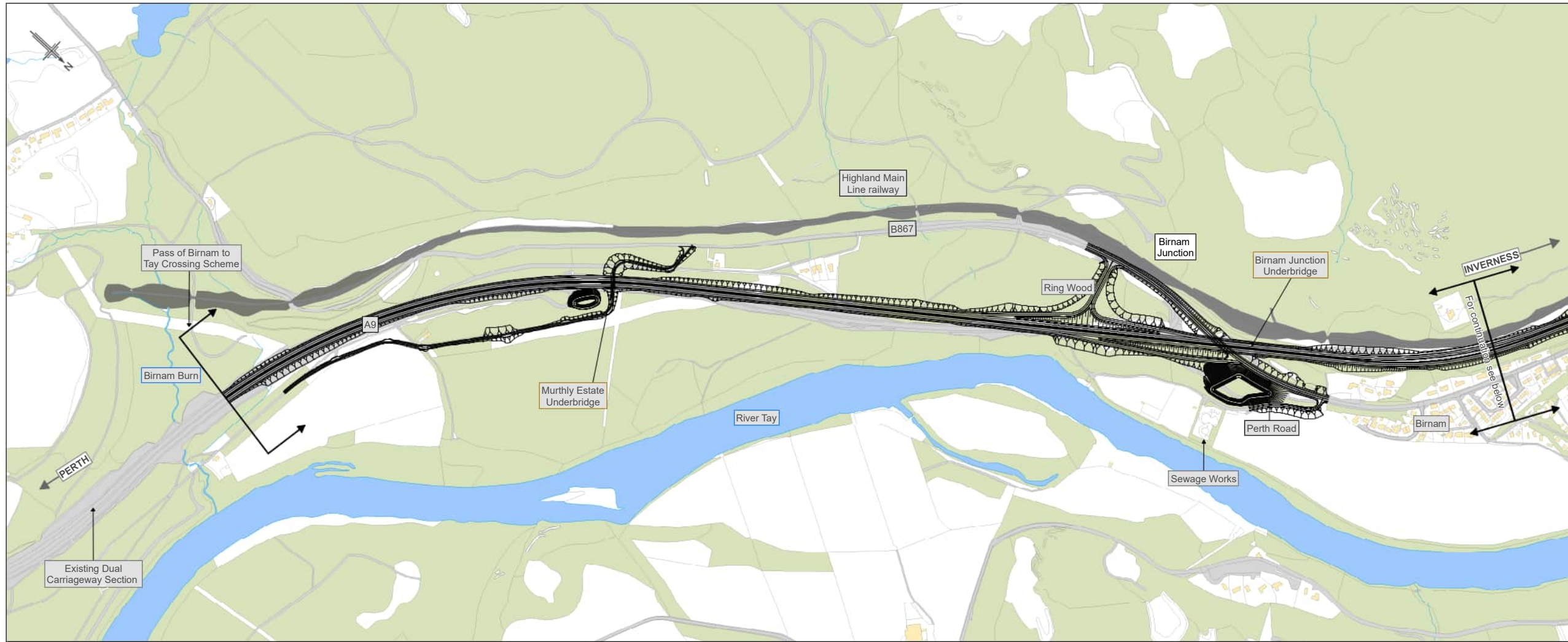
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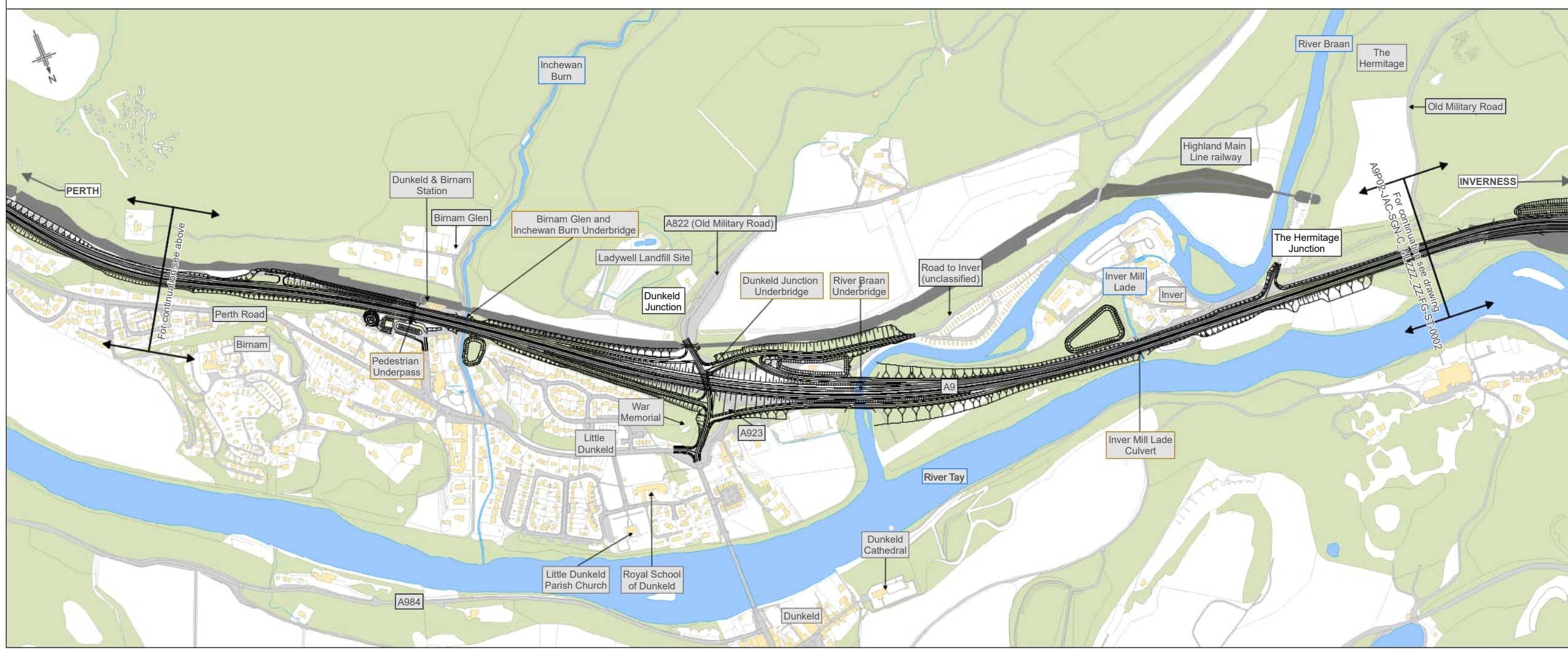
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Legend

- Proposed Scheme
- Cutting
- Embankment
- Graded Slope
- Indicative location of SuDS
- Structure
- Watercourse
- Structure
- Transport link
- Other feature
- Junction



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**DMRB STAGE 2
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 STRUCTURES LOCATION PLAN
 OPTION ST2C
 SHEET 1 OF 2**

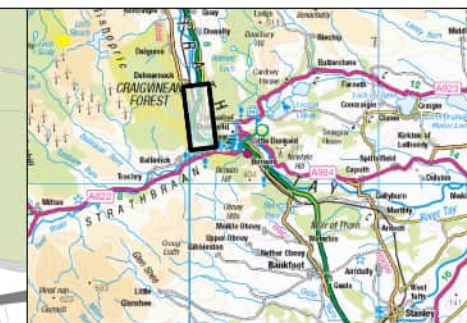
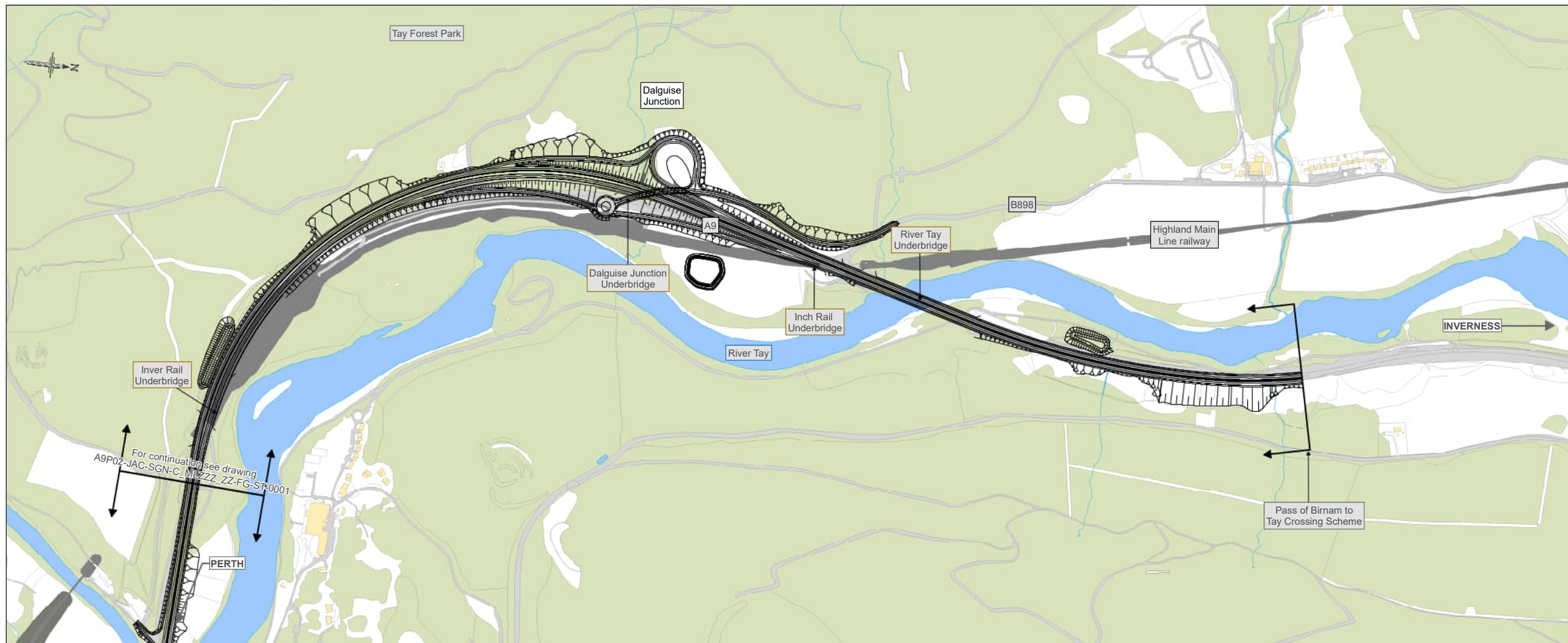
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Legend

- Proposed Scheme
- Cutting
- Embankment
- Graded Slope
- Indicative location of SuDS
- Structure
- Watercourse
- Structure
- Transport link
- Other feature
- Junction

For continuation see drawing
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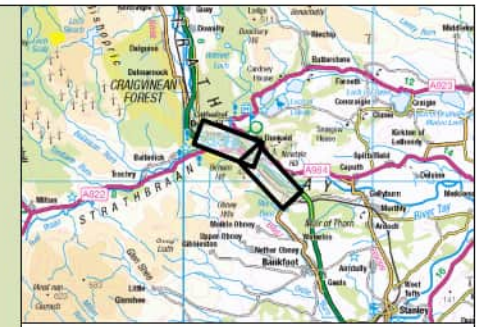
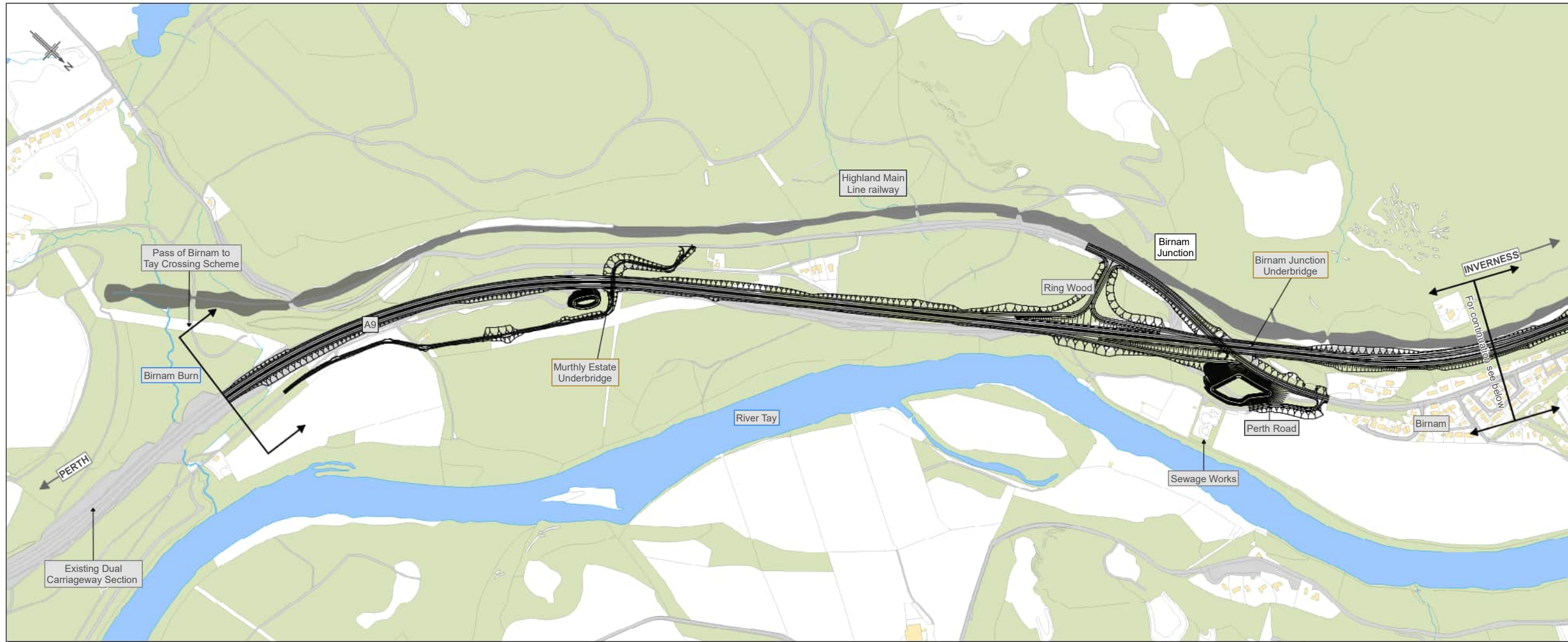
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PASS OF BIRNAM TO TAY CROSSING
STRUCTURES LOCATION PLAN
OPTION ST2C
SHEET 2 OF 2**

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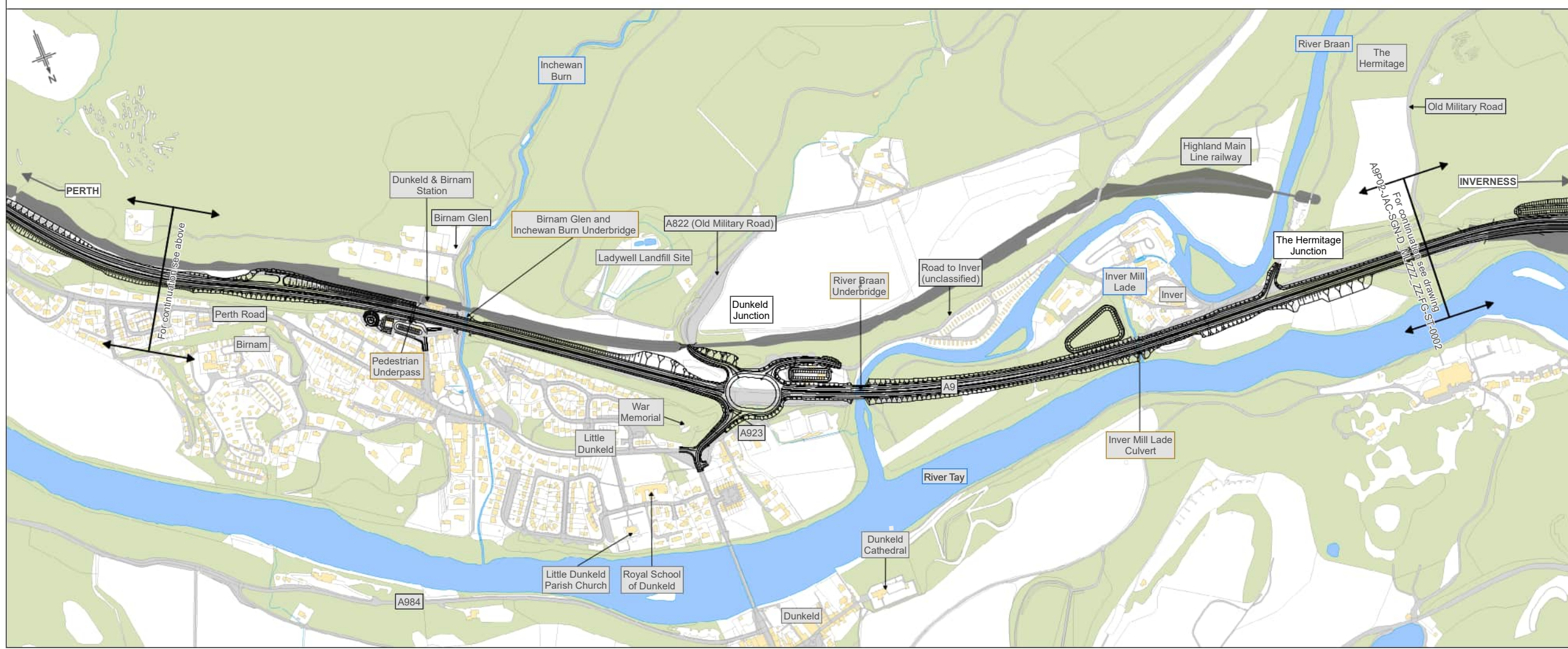
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Legend

- Proposed Scheme
- Cutting
- Embankment
- Graded Slope
- Indicative location of SuDS
- Structure
- Watercourse
- Structure
- Transport link
- Other feature
- Junction



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**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 STRUCTURES LOCATION PLAN
 OPTION ST2D
 SHEET 1 OF 2**

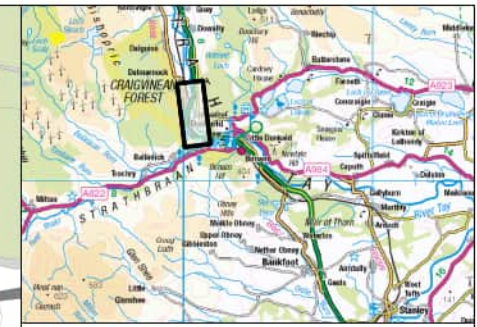
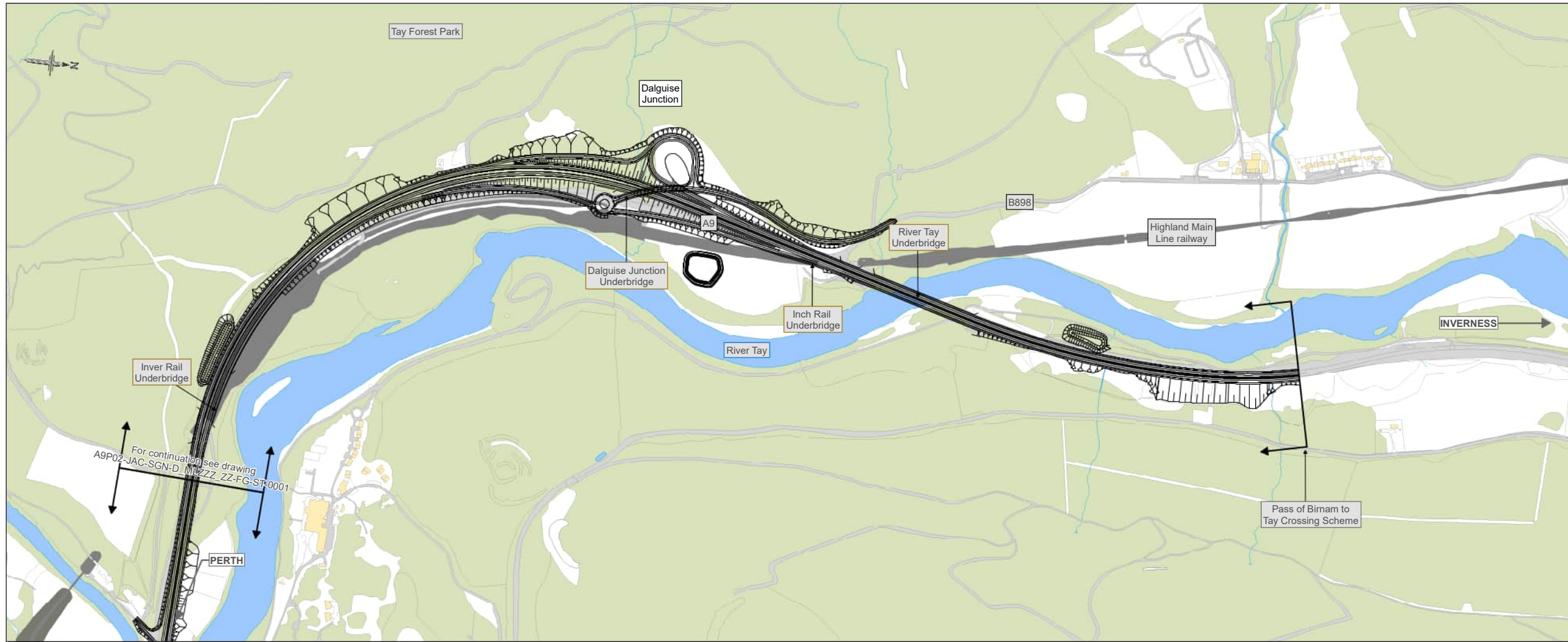
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Legend

- Proposed Scheme
- Cutting
- Embankment
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- Indicative location of SuDS
- Structure
- Watercourse
- Structure
- Transport link
- Other feature
- Junction

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 95 Botwell Street, Glasgow, G2 7HX, UK
 Tel: +44(0)141 243 8000 Fax: +44(0)141 228 3109
 www.jacobs.com



Drawing title
**DMRB STAGE 2
 PASS OF BIRNAM TO TAY CROSSING
 STRUCTURES LOCATION PLAN
 OPTION ST2D
 SHEET 2 OF 2**

Drawing Status
A – APPROVED AS STAGE COMPLETE

Scale
 1:5,000 @ A1 / 1:10,000 @ A3 **DO NOT SCALE**

Jacobs No.
B2140002

Drawing number
A9P02-JAC-SGN-D_MLZZZ_ZZ-FG-ST-0002

Rev
C01

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A9 (Northern Extent)			
Option	2015	2026	2041
Base	14,600	N/A	N/A
Do-Minimum	N/A	17,100	18,000
ST2A	N/A	23,600	25,000
ST2B/D	N/A	23,600	25,000
ST2C	N/A	23,600	25,000

B898			
Option	2015	2026	2041
Base	500	N/A	N/A
Do-Minimum	N/A	600	700
ST2A	N/A	700	800
ST2B/D	N/A	700	800
ST2C	N/A	700	800

A9 (Dunkeld Junction to The Hermitage)			
Option	2015	2026	2041
Base	14,900	N/A	N/A
Do-Minimum	N/A	17,600	18,500
ST2A	N/A	24,400	25,900
ST2B/D	N/A	24,400	25,900
ST2C	N/A	24,400	25,900

A9 (Hermitage to Dalquise)			
Option	2015	2026	2041
Base	15,000	N/A	N/A
Do-Minimum	N/A	17,600	18,600
ST2A	N/A	24,300	25,900
ST2B/D	N/A	24,300	25,200
ST2C	N/A	24,300	25,900

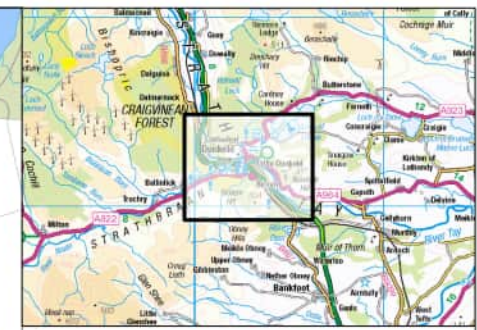
The Hermitage Access			
Option	2015	2026	2041
Base	400	N/A	N/A
Do-Minimum	N/A	500	500
ST2A	N/A	500	600
ST2B/D	N/A	500	600
ST2C	N/A	500	600

A9 (Birnam to Dunkeld Junction)			
Option	2015	2026	2041
Base	15,300	N/A	N/A
Do-Minimum	N/A	17,900	19,000
ST2A	N/A	24,600	26,400
ST2B/D	N/A	24,100	25,900
ST2C	N/A	23,700	25,400

A9 (Murthly to Birnam)			
Option	2015	2026	2041
Base	15,600	N/A	N/A
Do-Minimum	N/A	18,500	19,800
ST2A	N/A	24,600	26,400
ST2B/D	N/A	24,900	26,800
ST2C	N/A	24,900	26,800

B867			
Option	2015	2026	2041
Base	900	N/A	N/A
Do-Minimum	N/A	900	900
ST2A	N/A	1,400	1,600
ST2B/D	N/A	1,200	1,200
ST2C	N/A	1,200	1,200

A9 (Southern Extent)			
Option	2015	2026	2041
Base	15,600	N/A	N/A
Do-Minimum	N/A	18,500	19,800
ST2A	N/A	24,000	25,800
ST2B/D	N/A	24,900	26,800
ST2C	N/A	24,900	26,800



Legend

- A9 Carriageway
- Transport
- Watercourses
- Location

Option | **Location**

Option	2015	2026	2041

Design year flow for each option
Year of opening flow for each option
Existing flow

Rev.	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
C01	07/03/2022	Approved	HCH	AJB	KS	AUG

Jacobs
95 Botwell Street, Glasgow, G2 7JX, UK
Tel: +44(0)141 243 8000 Fax: +44(0)141 226 3109
www.jacobs.com

Client: **TRANSPORT SCOTLAND**
COMHDHAIL ALBA

Project: **A9 DUALING**
PERTH TO INVERNESS
Pass of Birnam to Tay Crossing

Drawing title: **DMRB STAGE 2**
PASS OF BIRNAM TO TAY CROSSING
AADT TRAFFIC FLOWS
SHEET 1 OF 2

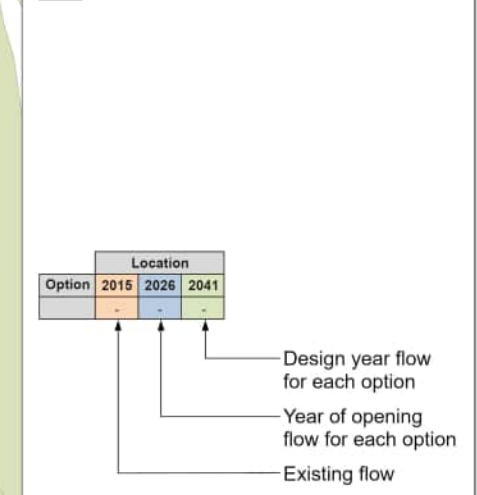
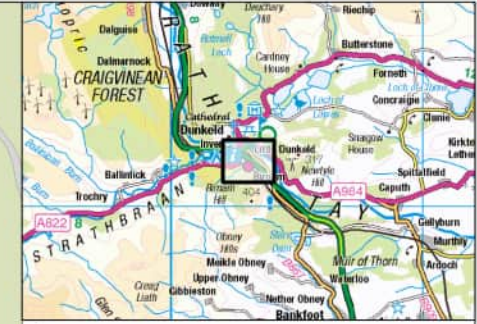
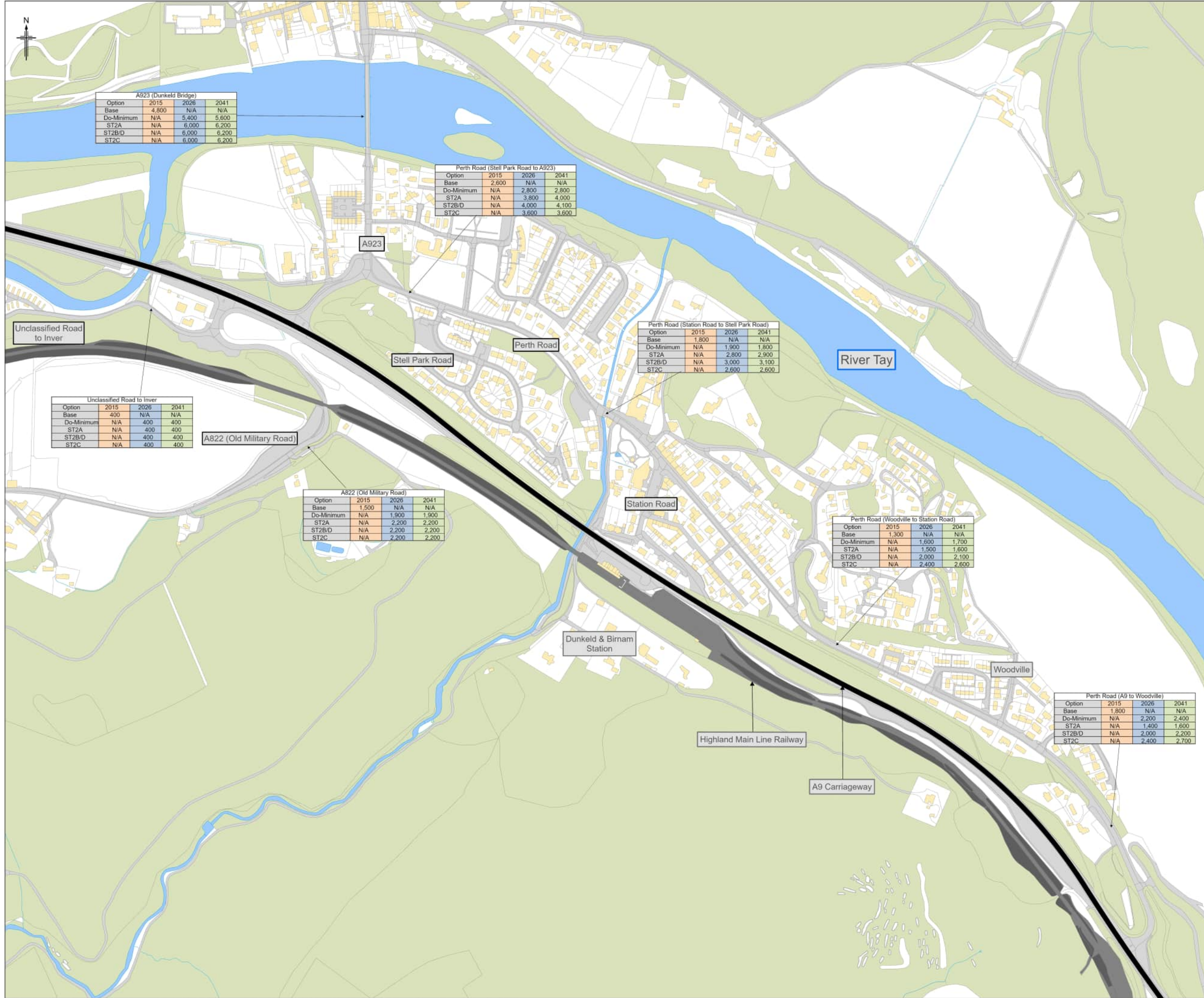
Drawing Status: **A - APPROVED AS STAGE COMPLETE**

Scale: 1:10,000@ A1 / 1:10,000 @ A3 | **DO NOT SCALE**

Jacobs No. B2140002

Drawing number: **A9P02-JAC-VTR-X_ZZZZZ_ZZ-FG-TR-0003** | Rev: **C01**

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C01	07/03/2022	Approved	HCH	AJB	KS	AJG

Jacobs
95 Botolph Claydon Street, Glasgow, G2 7HX, UK
Tel: +44(0)141 243 8000 Fax: +44(0)141 226 3109
www.jacobs.com



**DMRB STAGE 2
PASS OF BIRNAM TO TAY CROSSING
AADT TRAFFIC FLOWS
SHEET 2 OF 2**

Drawing Status: A - APPROVED AS STAGE COMPLETE

Scale: 1:3,000 @ A1 / 1:10,000 @ A3 DO NOT SCALE

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Drawing number: A9P02-JAC-VTR-X_ZZZZZ_ZZ-FG-TR-0004 Rev: C01