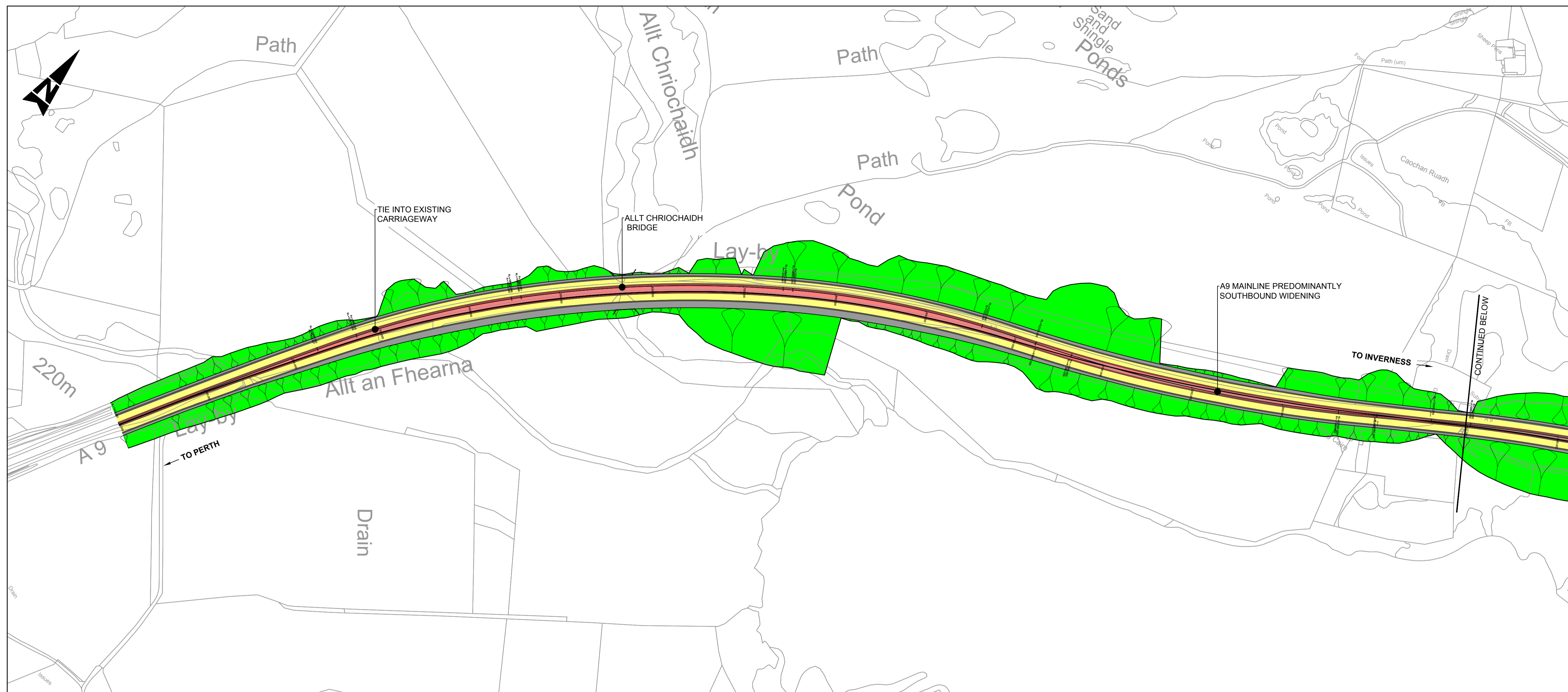


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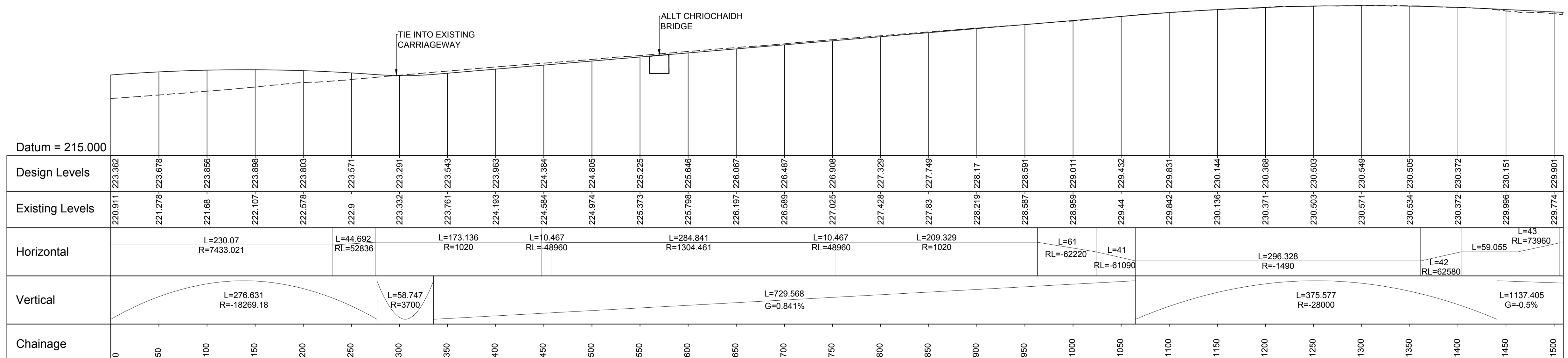
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Scale - 1:2500

- NOTES:**
- ALL DESIGN WORKS ARE IN ACCORDANCE THE DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB) FOR A CATEGORY 7A DUAL CARRIAGEWAY.
 - THE NEW A9 MAINLINE IS DESIGNED TO A DESIGN SPEED OF 120AKPH IN THE LINE WITH THE REQUIREMENTS OF TD 9/93: HIGHWAY LINK DESIGN.
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KEY:

	DESIGN FRL
	EXISTING FRL
	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE

P01	SN	IM	MD	05/08/16
FIRST ISSUE				
P02	YP	IM	CM	15/03/17
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B

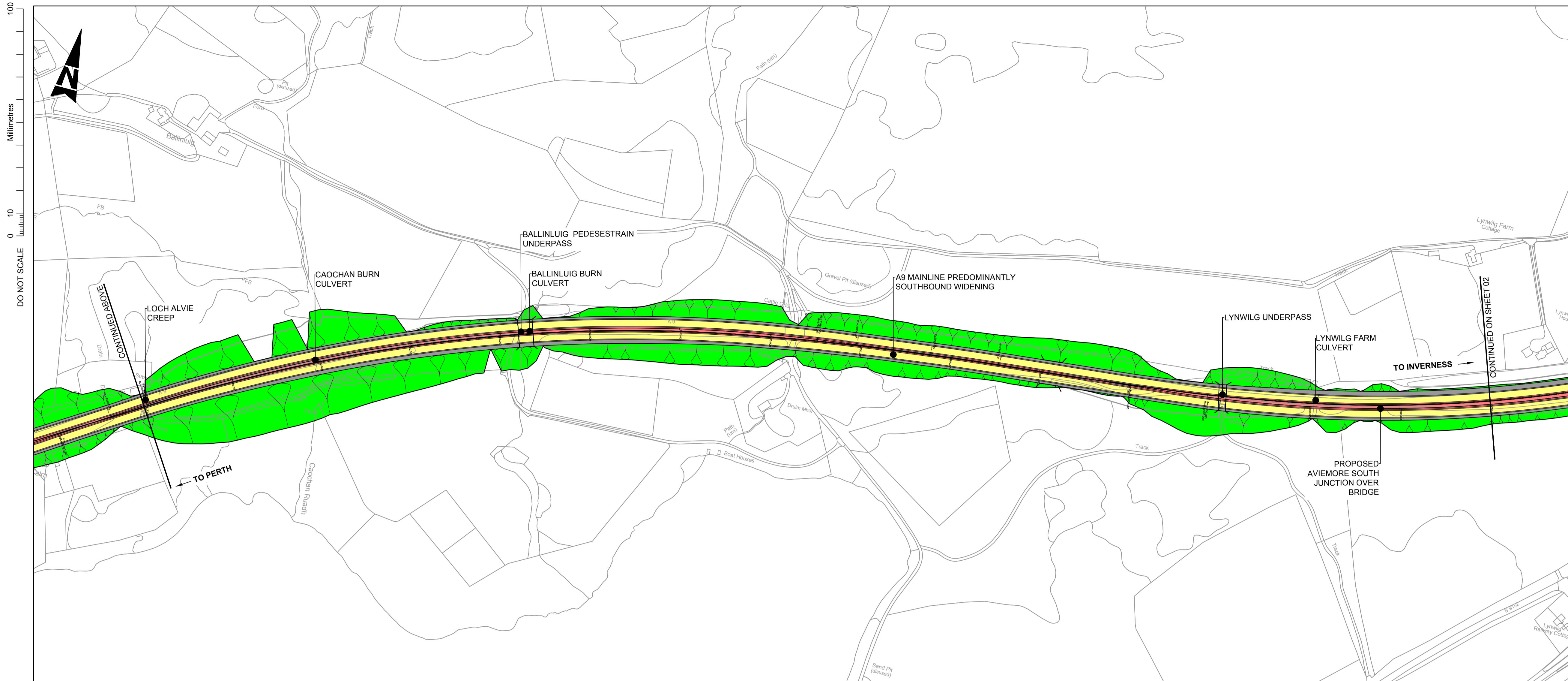


Horizontal Scale - 1:2500, Vertical Scale - 1:250

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Drawing Title					
MAINLINE OPTION 1 PLAN AND PROFILE SHEET 1 OF 17					
Scale	Designed / Drawn	Checked	Approved	Authorised	
AS SHOWN	YP	IM	CM	RG	
Original Size	Date	Date	Date	Date	
A1	14/03/17	15/03/17	15/03/17	15/03/17	
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Location	Type	Role	Number		



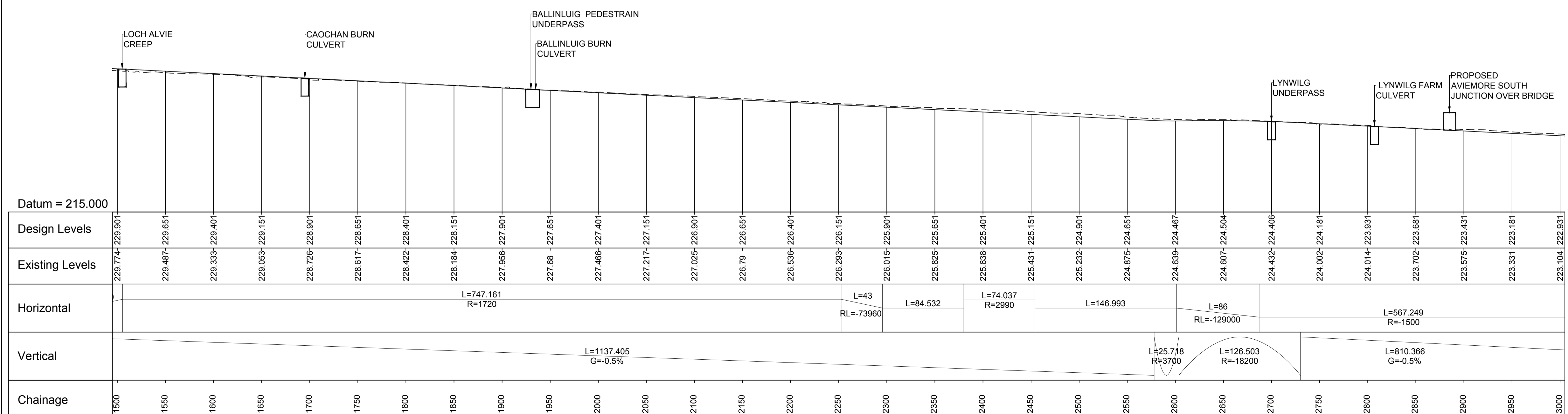
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KEY:

	DESIGN FRL
	EXISTING FRL
	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE

P01	SN	IM	MD	05/08/16
FIRST ISSUE				
P02	YP	IM	CM	15/03/17
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B



Horizontal Scale - 1:2500, Vertical Scale - 1:250

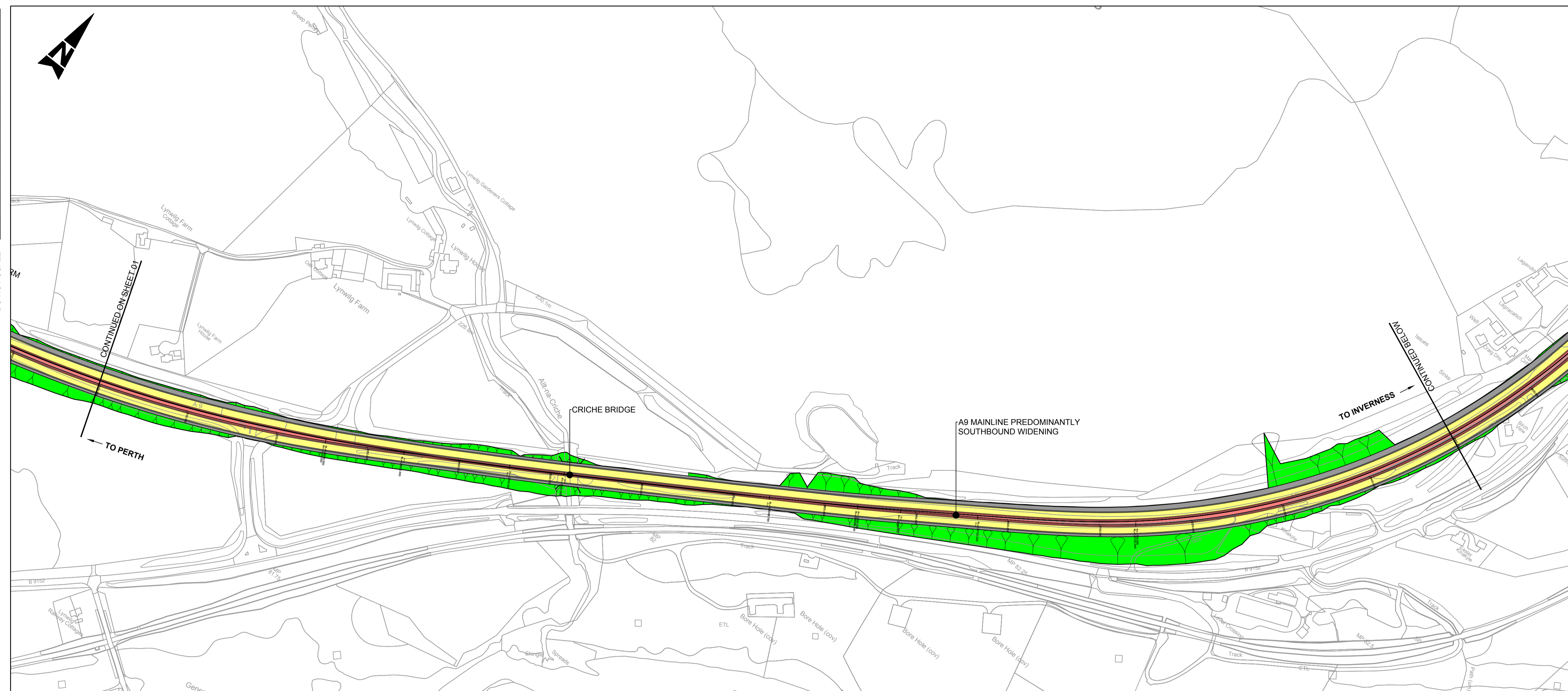
**FIGURE 5.1
MAINLINE OPTION 1 PLAN AND PROFILE
SHEET 2 OF 17**

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Drawing Number	A9P11 - AMJ - HML -			Project	E_ML000_ZZ - DR - RD - 0002			Volume	P02
Location	Type	Role	Number						

Plotted: Mar 15, 2017 - 2:36pm by: PISK1079

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Millimetres
DO NOT SCALE



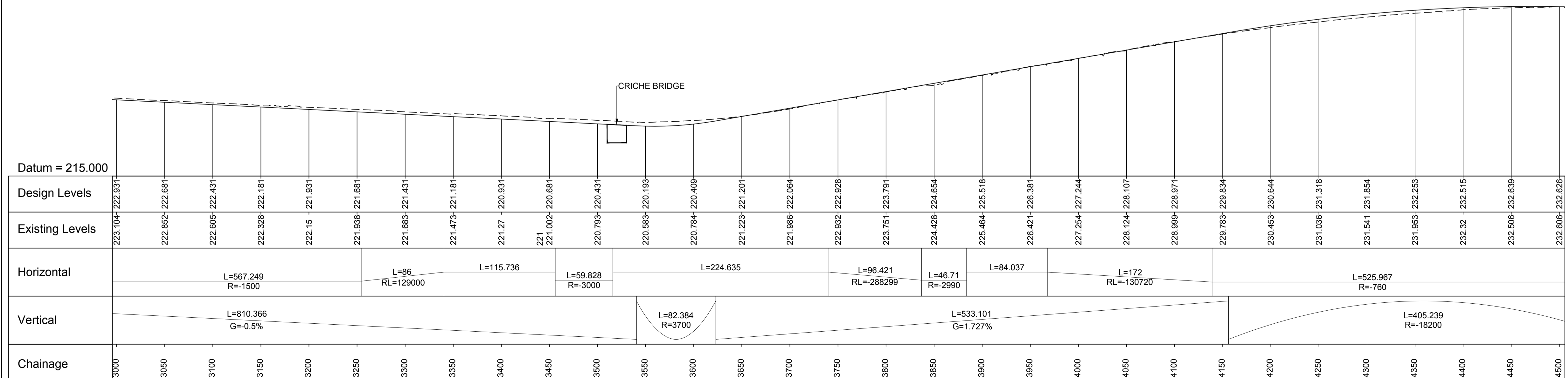
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Scale - 1:2500

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KEY:

	DESIGN FRL
	EXISTING FRL
	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE

P01	SN	IM	MD	05/08/16
FIRST ISSUE				
P02	YP	IM	CM	15/03/17
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B



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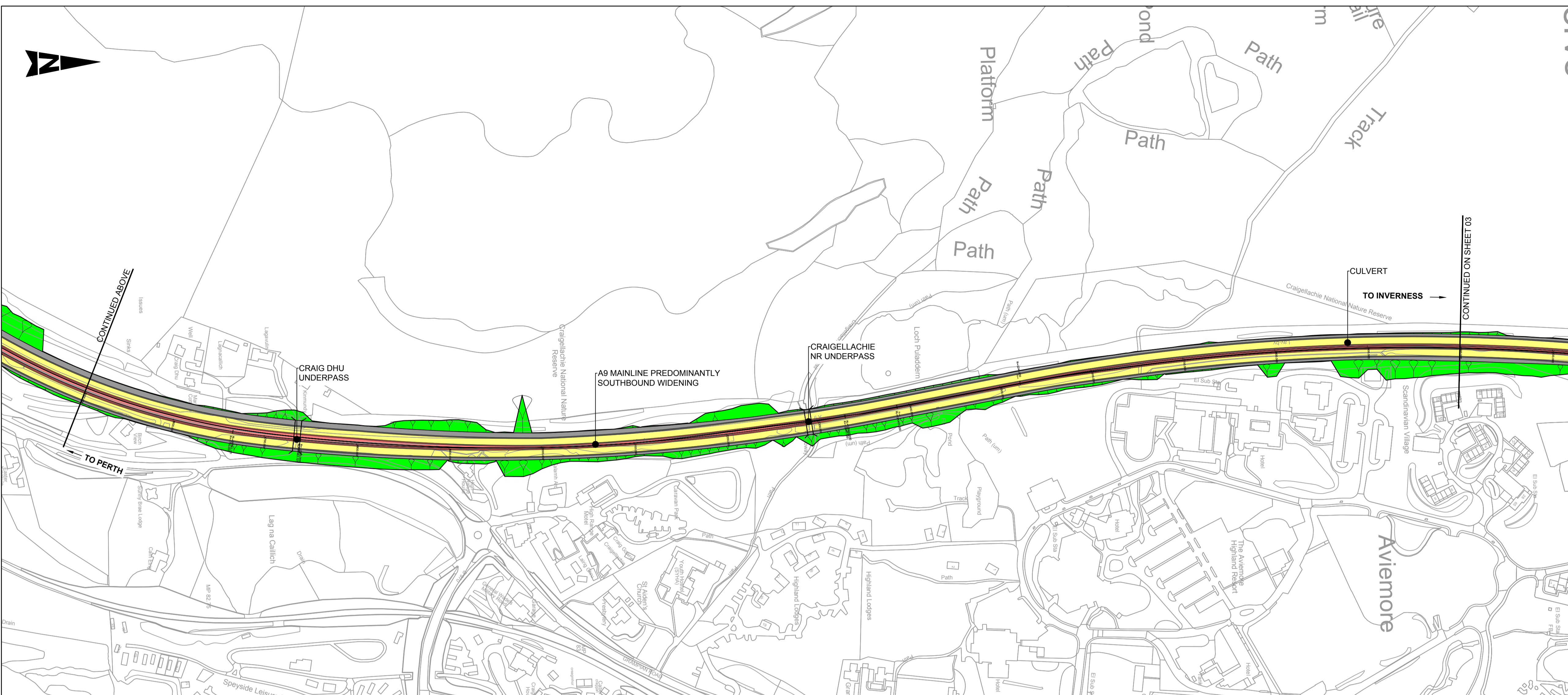
**FIGURE 5.1
MAINLINE OPTION 1 PLAN AND PROFILE
SHEET 3 OF 17**

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Drawing Number	A9P11 - AMJ - HML - E_ML000_ZZ - DR - RD - 0003				P02
Project	Originator	Volume	Revision		
Location	Type	Role	Number		

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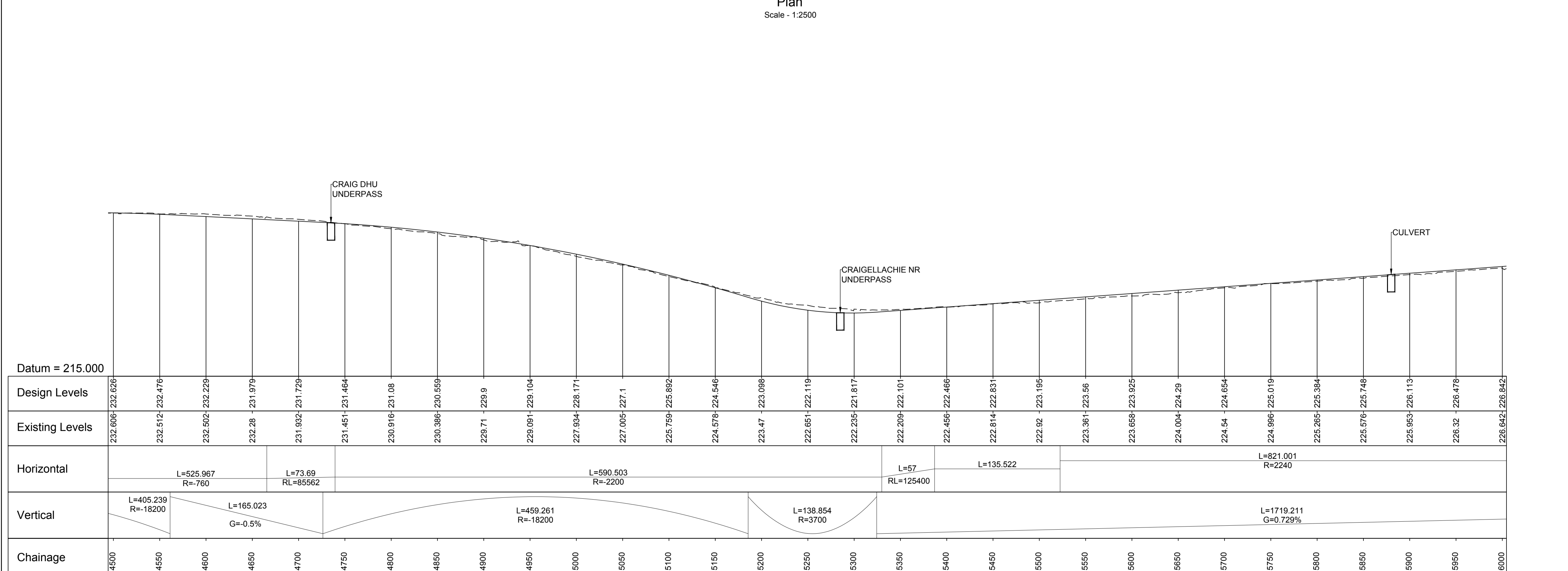
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Plan
Scale - 1:2500

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- KEY:**
- DESIGN FRL
 - EXISTING FRL
 - EARTHWORKS
 - VERGE
 - CARRIAGEWAY
 - CENTRAL RESERVE



Horizontal Scale - 1:2500, Vertical Scale - 1:250

P01	SN	IM	MD	05/08/16
FIRST ISSUE				
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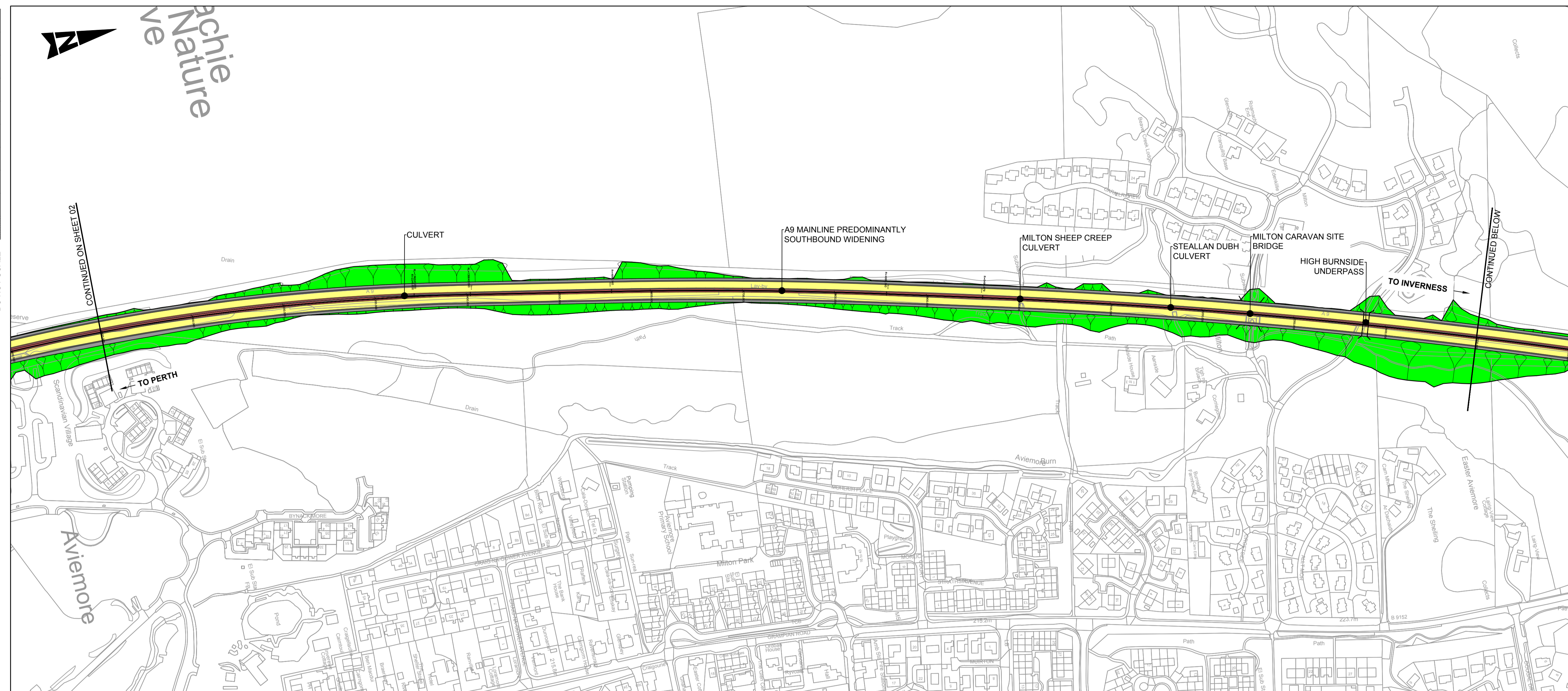


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FIGURE 5.1 MAINLINE OPTION 1 PLAN AND PROFILE SHEET 4 OF 17				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	YP	IM	CM	RG
Original Size	Date	Date	Date	Date
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Drawing Number				Revision
Project				P02
A9P11 - AMJ - HML - E_ML000_ZZ - DR - RD - 0004				
Location	Type	Role	Number	

Plotted: Mar 15, 2017 - 2:37pm by: PISK10179

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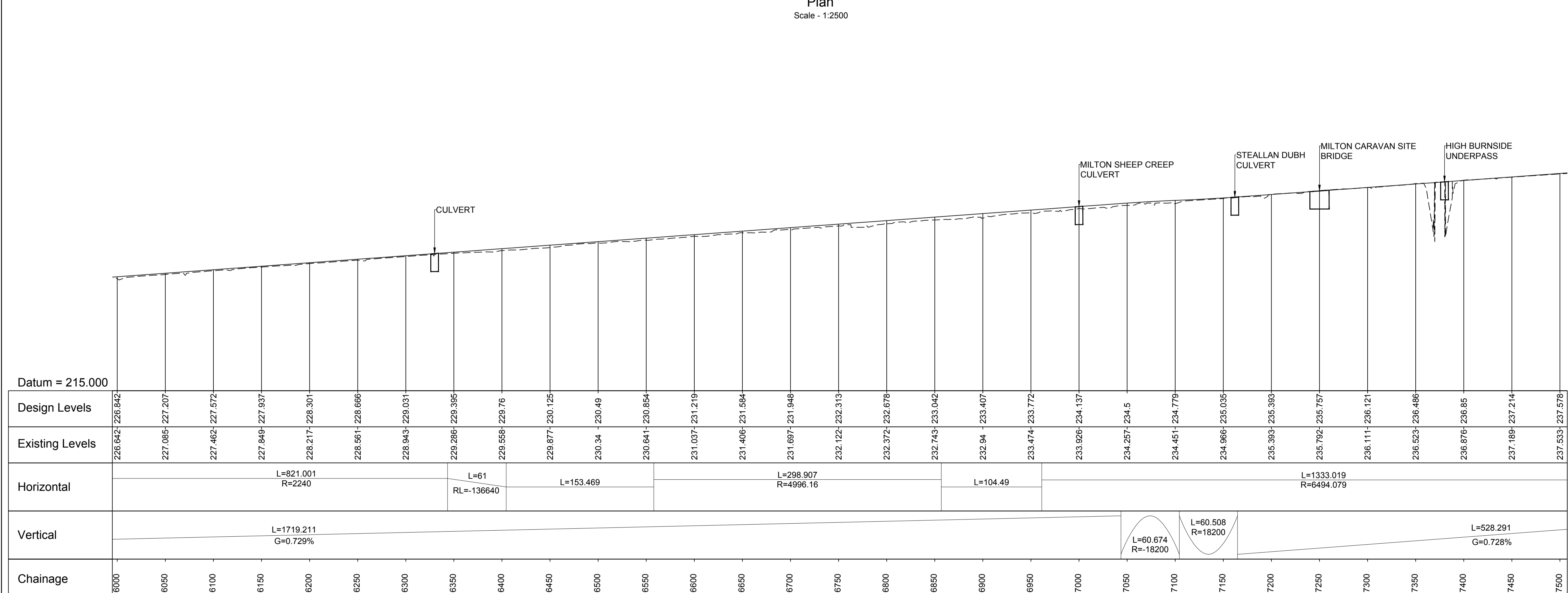


Plan
Scale - 1:2500

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KEY:

	DESIGN FRL
	EXISTING FRL
	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE



Horizontal Scale - 1:2500, Vertical Scale - 1:250

P01	SN	IM	MD	05/08/16
FIRST ISSUE				
P02	YP	IM	CM	15/03/17
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Description				
Drawing Status				Suitability
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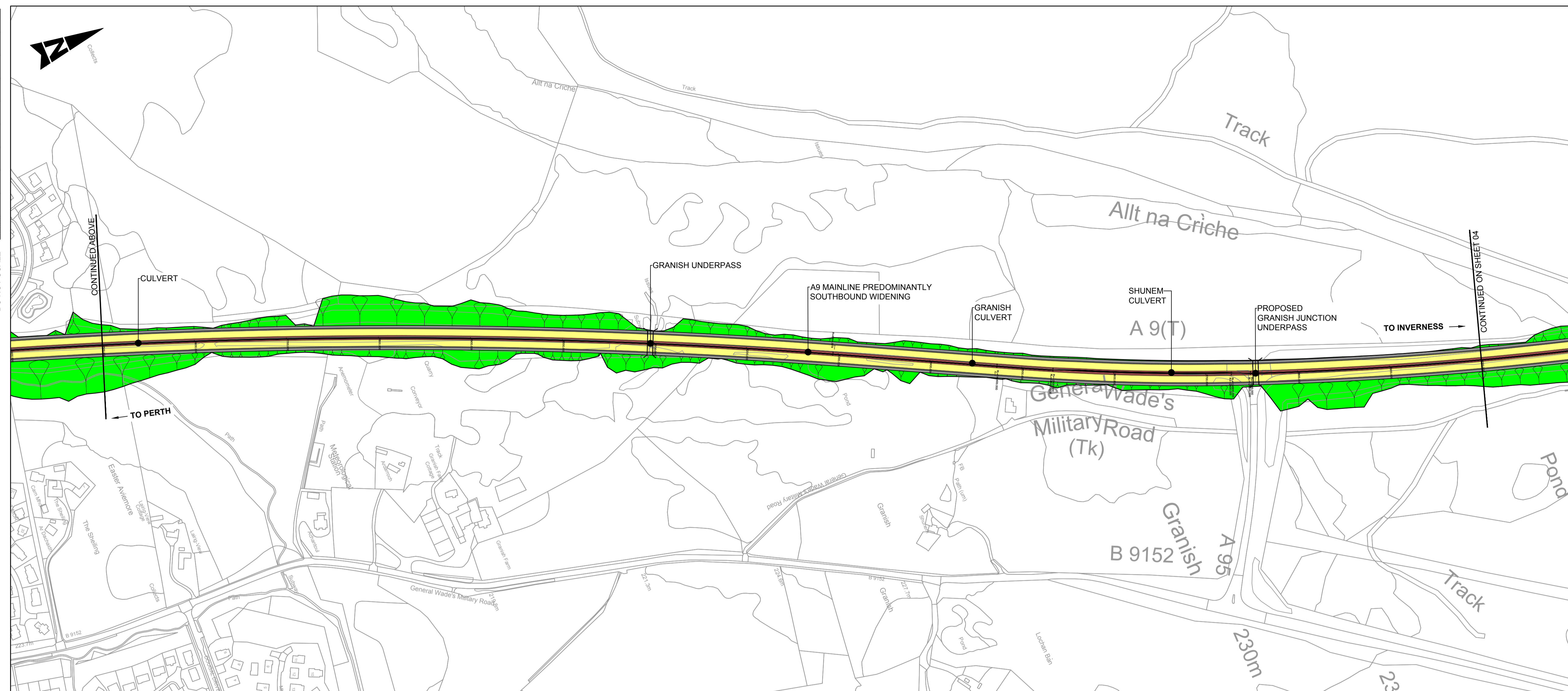


Drawing Title					
FIGURE 5.1 MAINLINE OPTION 1 PLAN AND PROFILE SHEET 5 OF 17					
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Drawing Number	Project	Originator	Volume	Revision	
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E_ML000_ZZ - DR - RD - 0005					
Location	Type	Role	Number		

Plotted: Mar 15, 2017 - 2:37pm by: PISK1079

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Millimetres
DO NOT SCALE



Plan
Scale - 1:2500

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KEY:

	DESIGN FRL
	EXISTING FRL
	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE

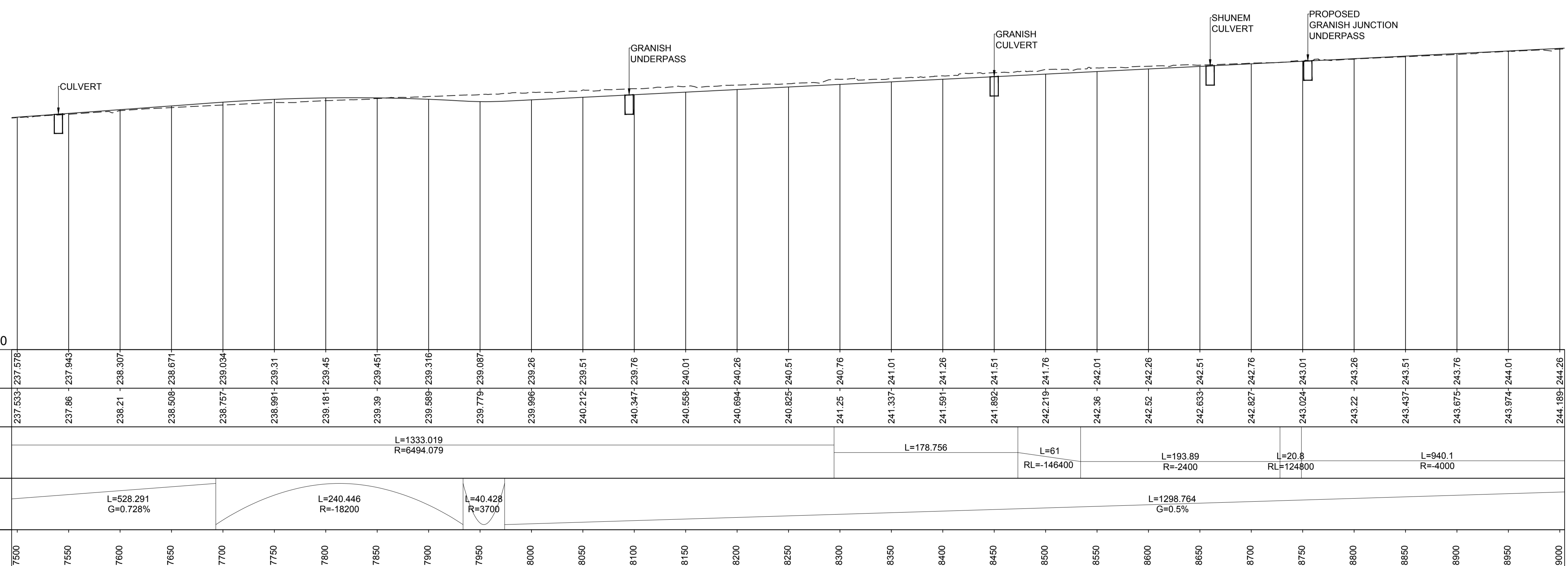
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FIRST ISSUE				
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FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B



Drawing Title

**FIGURE 5.1
MAINLINE OPTION 1 PLAN AND PROFILE
SHEET 6 OF 17**

Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	YP	IM	CM	RG
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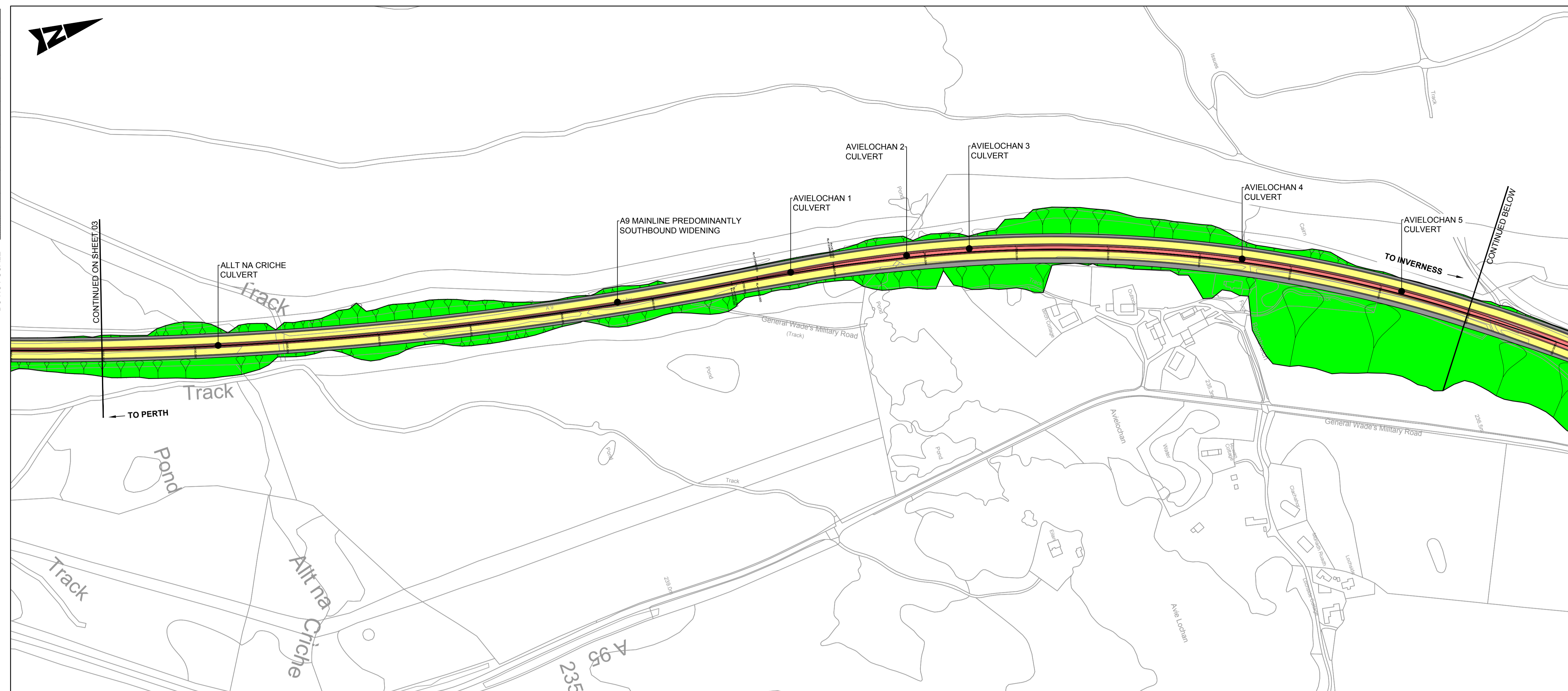
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Vertical	L=528.291 G=0.728% L=240.446 R=18200 L=40.428 R=3700 L=1298.764 G=0.5%
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Millimetres
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Plan
Scale - 1:2500

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KEY:

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	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE

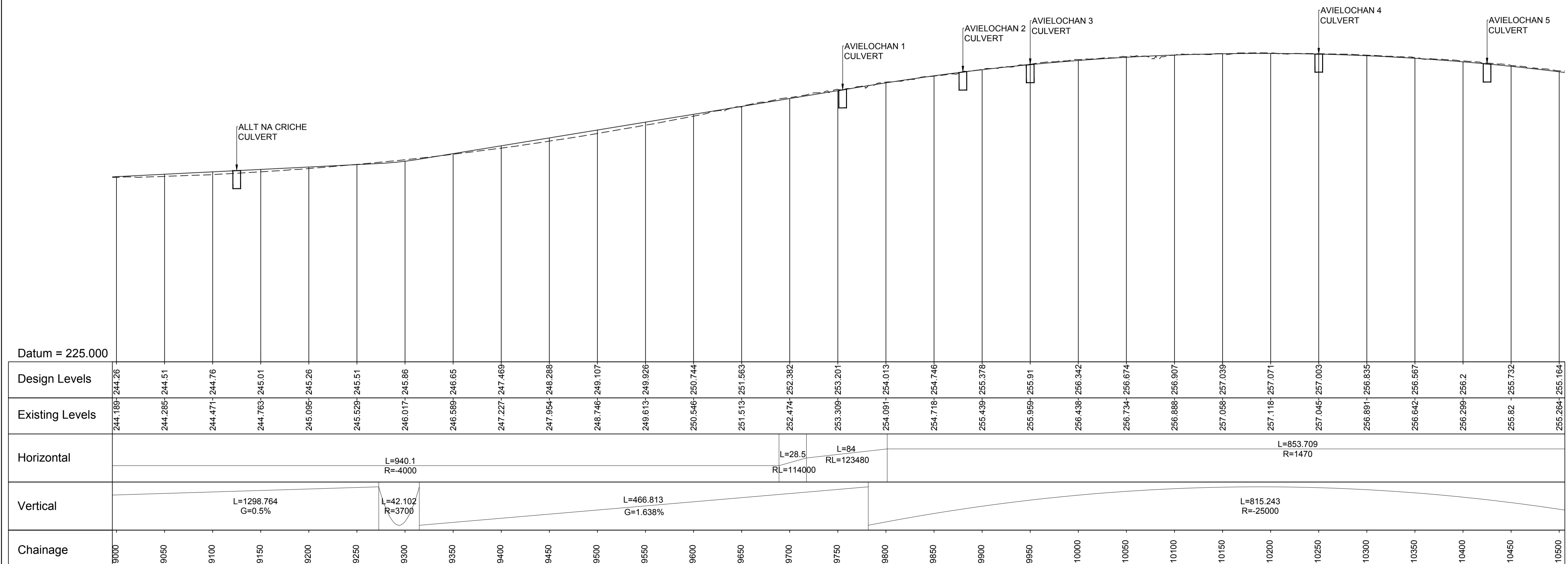
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FIRST ISSUE				
P02	YP	IM	CM	15/03/17
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
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Drawing Status				Suitability
FINAL				B



Drawing Title

**FIGURE 5.1
MAINLINE OPTION 1 PLAN AND PROFILE
SHEET 7 OF 17**

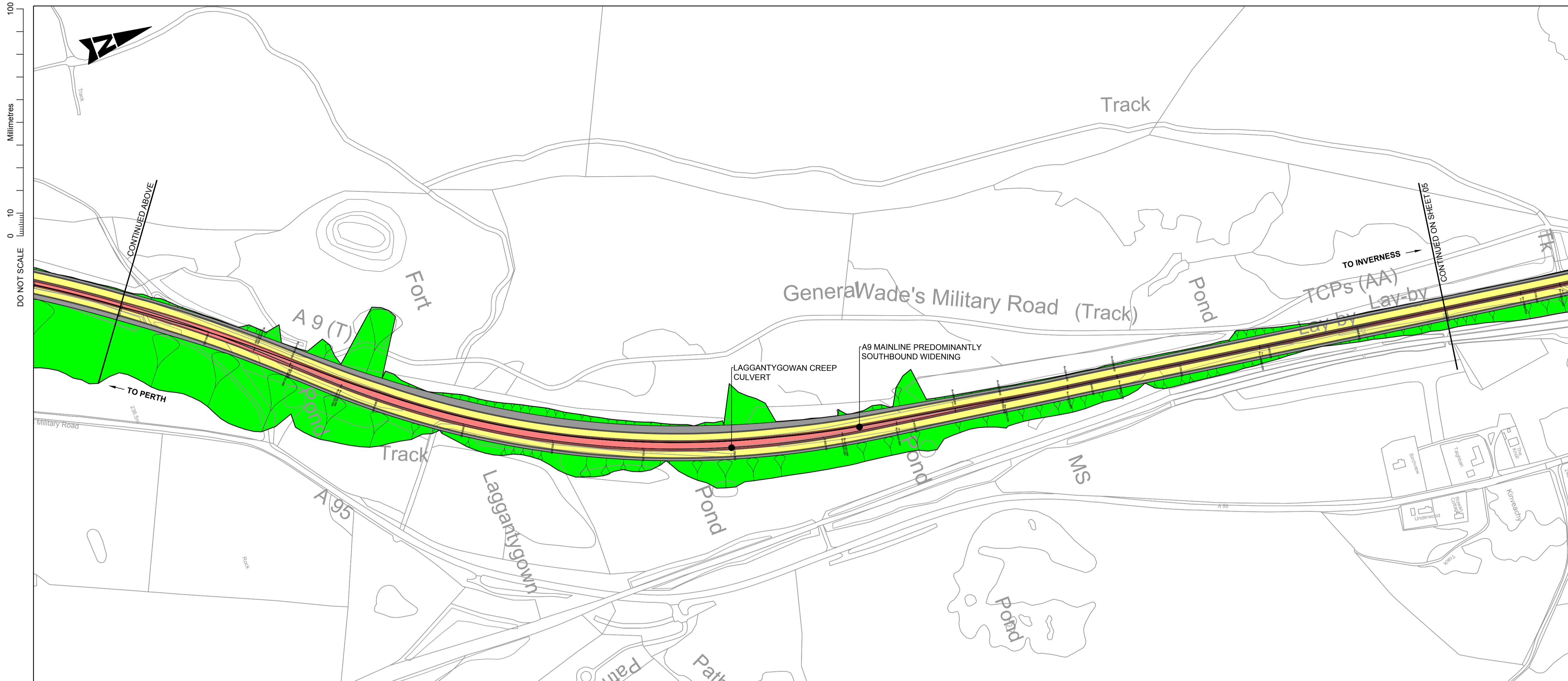
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Location	Type	Role	Number						



Horizontal Scale - 1:2500, Vertical Scale - 1:250

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Plan
Scale - 1:2500

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	CARRIAGEWAY
	CENTRAL RESERVE

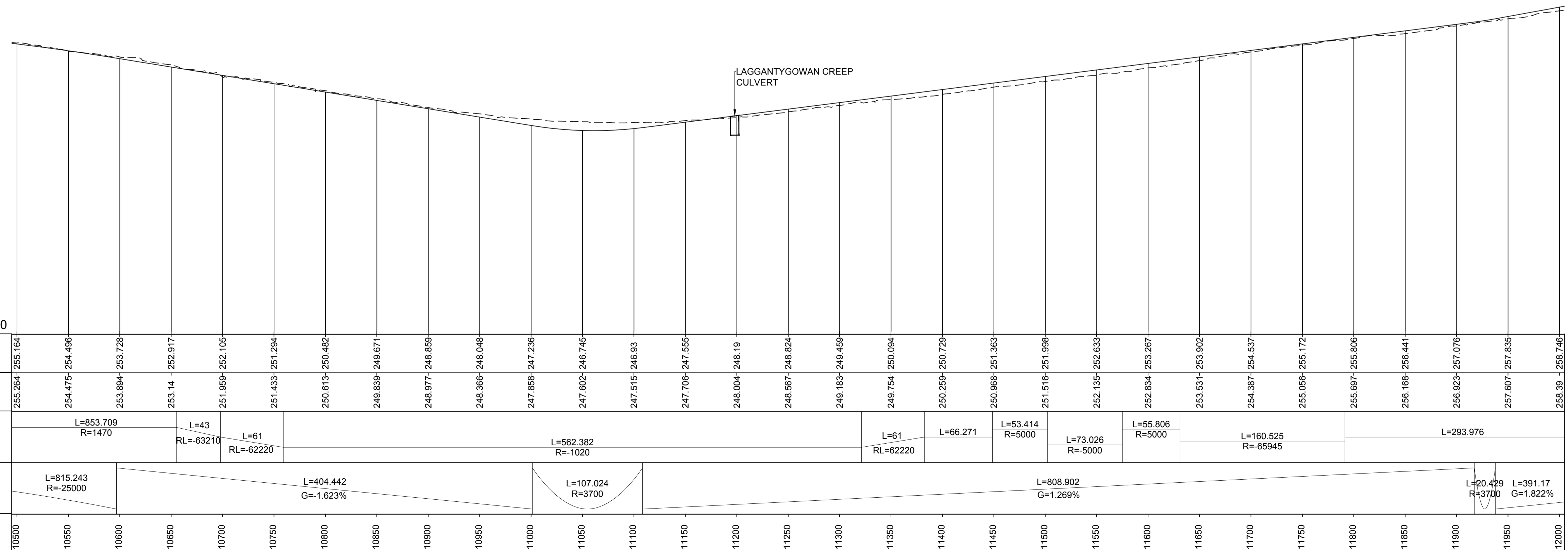
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FIRST ISSUE				
P02	YP	IM	CM	15/03/17
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B



Drawing Title

**FIGURE 5.1
MAINLINE OPTION 1 PLAN AND PROFILE
SHEET 8 OF 17**

Scale	AS SHOWN	Designed / Drawn	YP	Checked	IM	Approved	CM	Authorised	RG
Original Size	A1	Date	14/03/17	Date	15/03/17	Date	15/03/17	Date	15/03/17
Drawing Number	Project		Originator	Volume		Revision			
E_ML000_ZZ - DR - RD - 0008		A9P11 - AMJ - HML -				P02			
Location	Type	Role	Number						

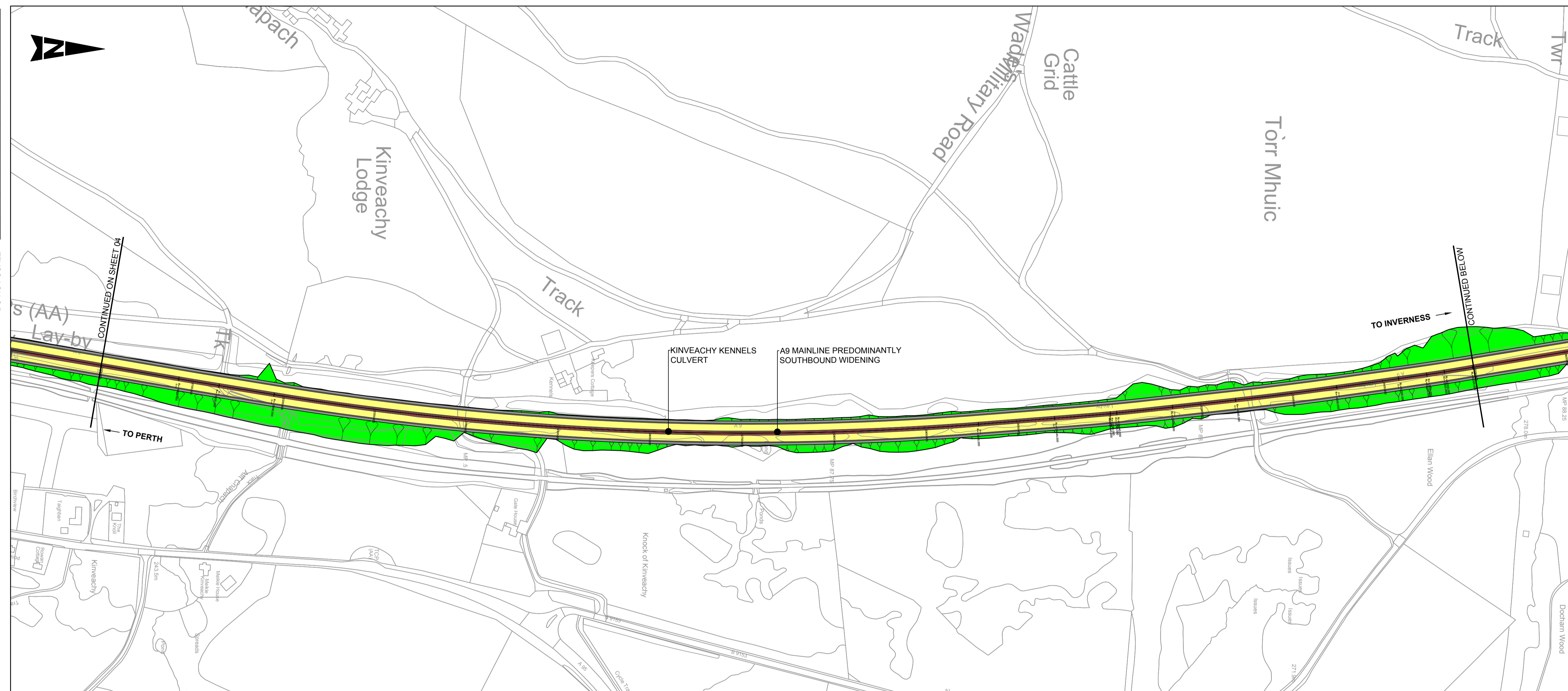


Horizontal Scale - 1:2500, Vertical Scale - 1:250

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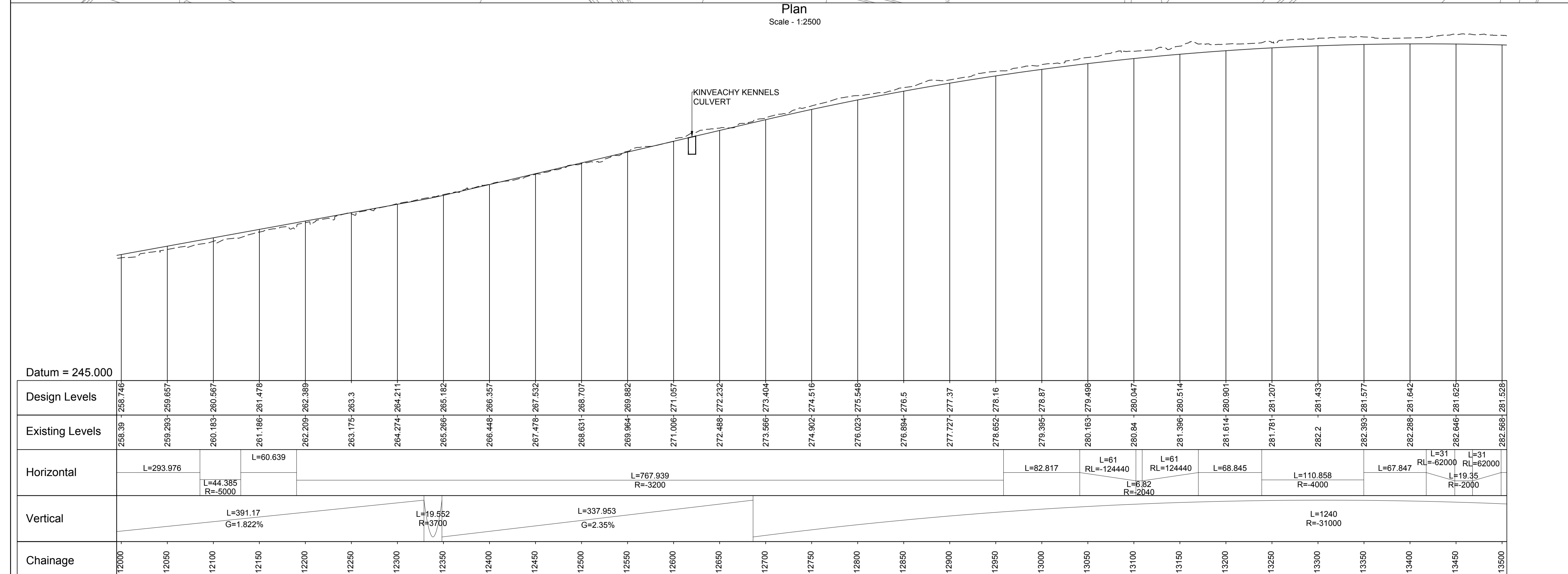
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Millimetres
DO NOT SCALE



- NOTES:**
1. ALL DESIGN WORKS ARE IN ACCORDANCE THE DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB) FOR A CATEGORY 7A DUAL CARRIAGEWAY.
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KEY:

	DESIGN FRL
	EXISTING FRL
	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE



Horizontal Scale - 1:2500, Vertical Scale - 1:250

P01	SN	IM	MD	05/08/16
FIRST ISSUE				
P02	YP	IM	CM	15/03/17
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B

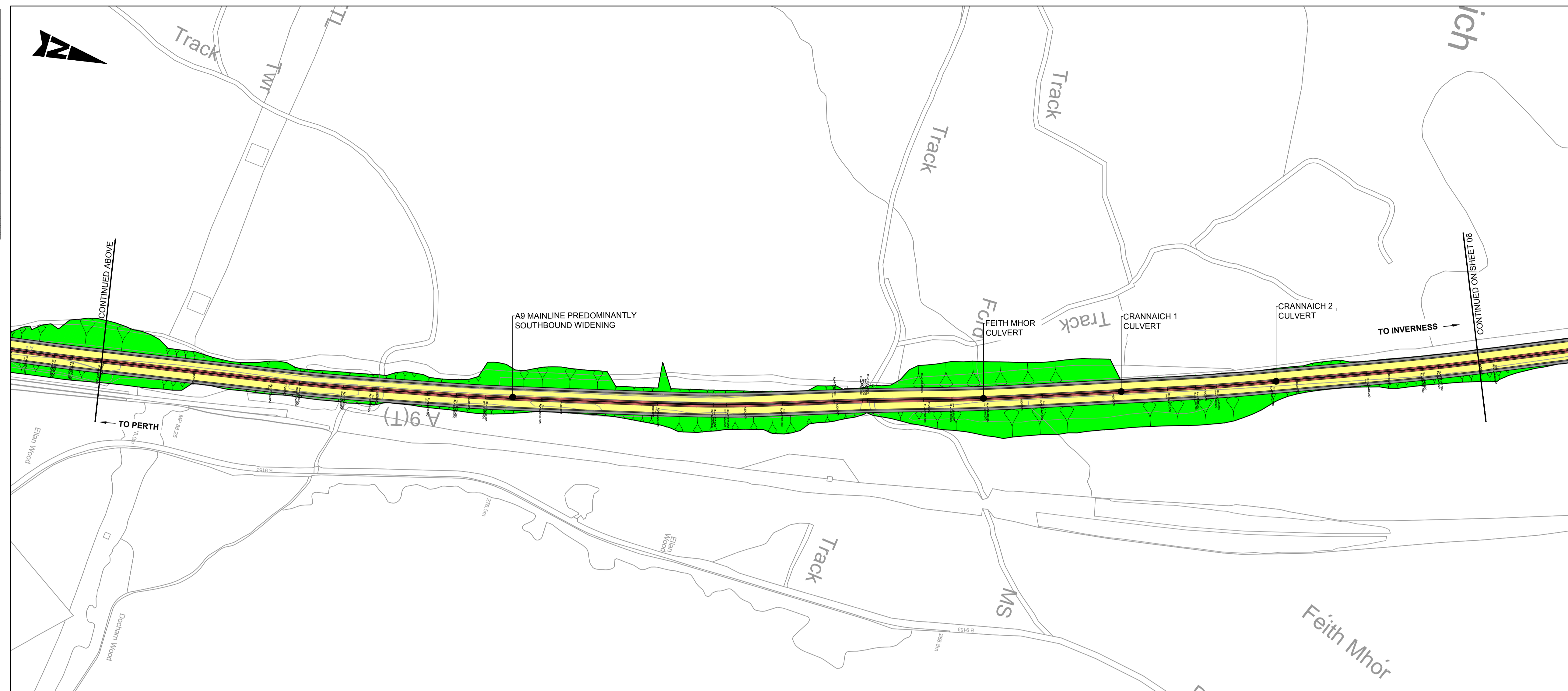


Drawing Title				
FIGURE 5.1 MAINLINE OPTION 1 PLAN AND PROFILE SHEET 9 OF 17				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	YP	IM	CM	RG
Original Size	Date	Date	Date	Date
A1	14/03/17	15/03/17	15/03/17	15/03/17
Drawing Number				Revision
Project				
Originator				Volume
A9P11 - AMJ - HML -				P02
E_ML000_ZZ - DR - RD - 0009				
Location	Type	Role	Number	

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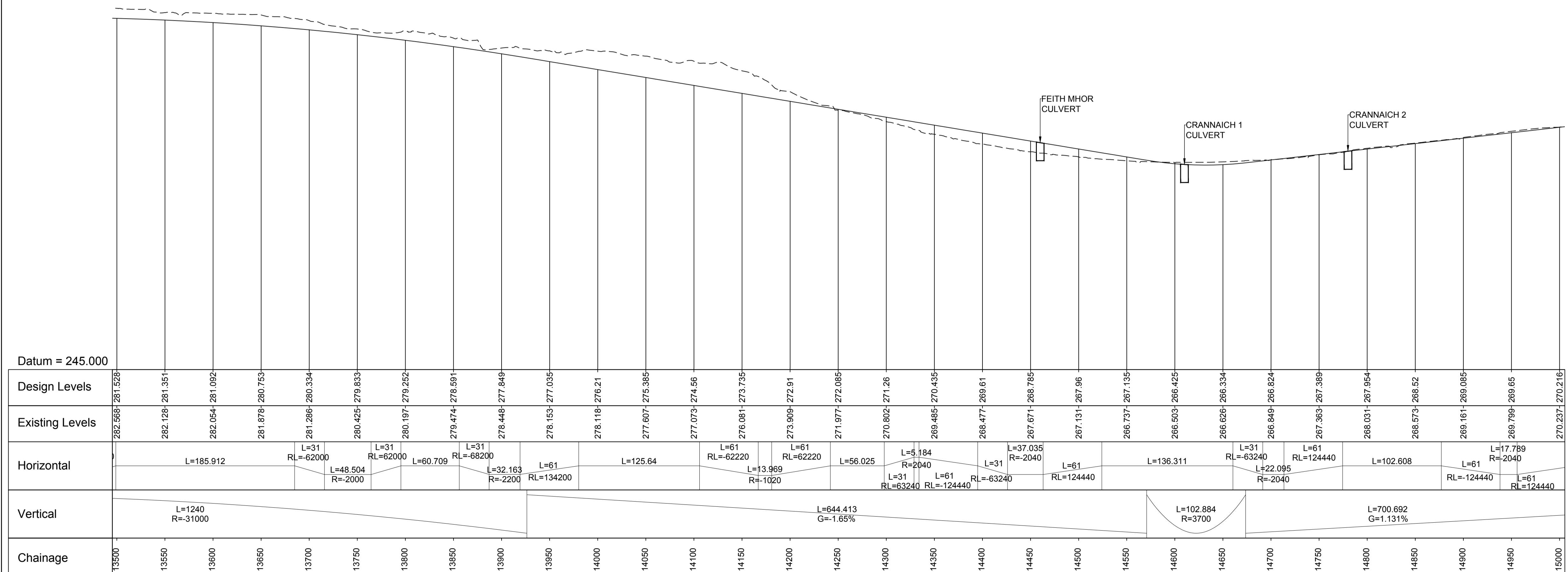
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Millimetres
DO NOT SCALE



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- KEY:**
- DESIGN FRL
 - - - EXISTING FRL
 - EARTHWORKS
 - VERGE
 - CARRIAGEWAY
 - CENTRAL RESERVE

Plan
Scale - 1:2500



Horizontal Scale - 1:2500, Vertical Scale - 1:250

P01	SN	IM	MD	05/08/16
FIRST ISSUE				
P02	YP	IM	CM	15/03/17
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B

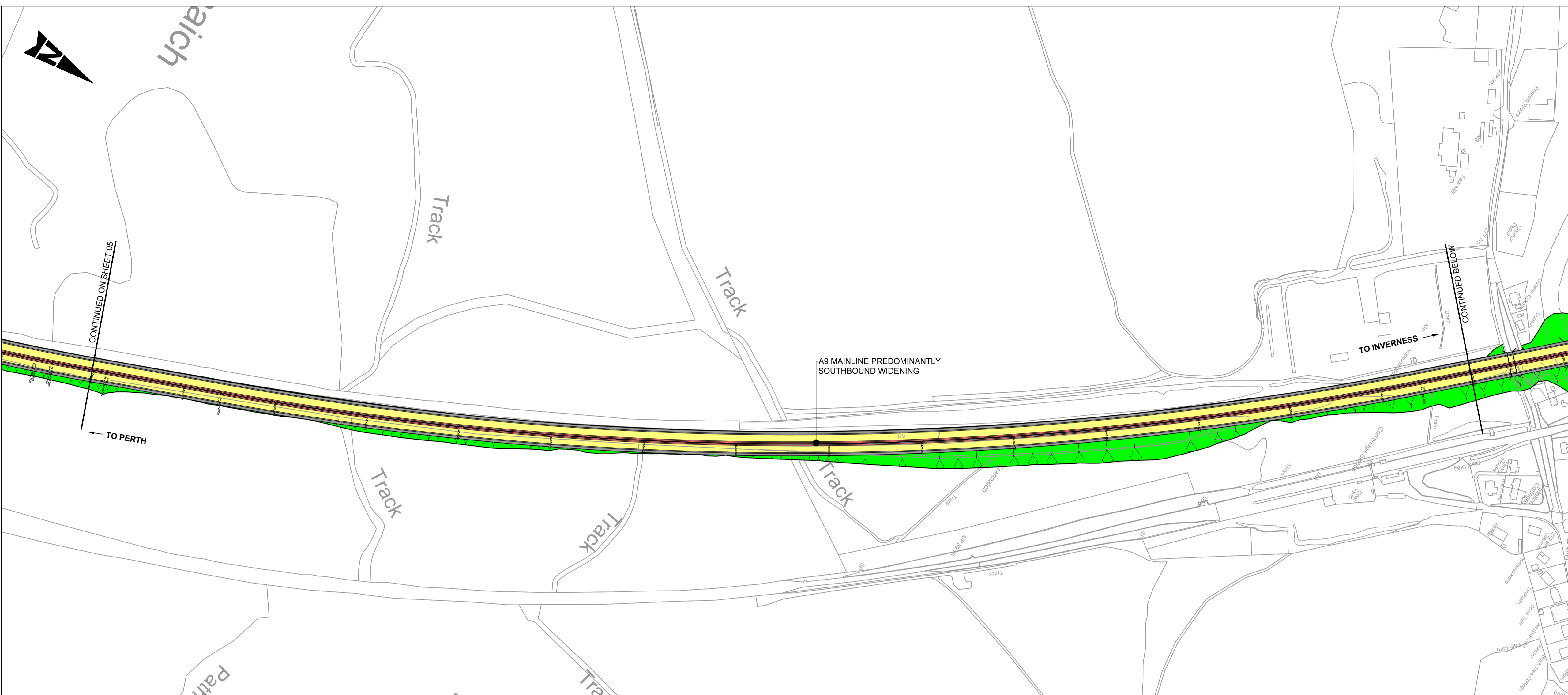


Drawing Title				
FIGURE 5.1 MAINLINE OPTION 1 PLAN AND PROFILE SHEET 10 OF 17				
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AS SHOWN	YP	IM	CM	RG
Original Size	Date	Date	Date	Date
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Drawing Number				Revision
Project				
Originator				Volume
A9P11 - AMJ - HML -				P02
E_ML000_ZZ - DR - RD - 0010				
Location	Type	Role	Number	

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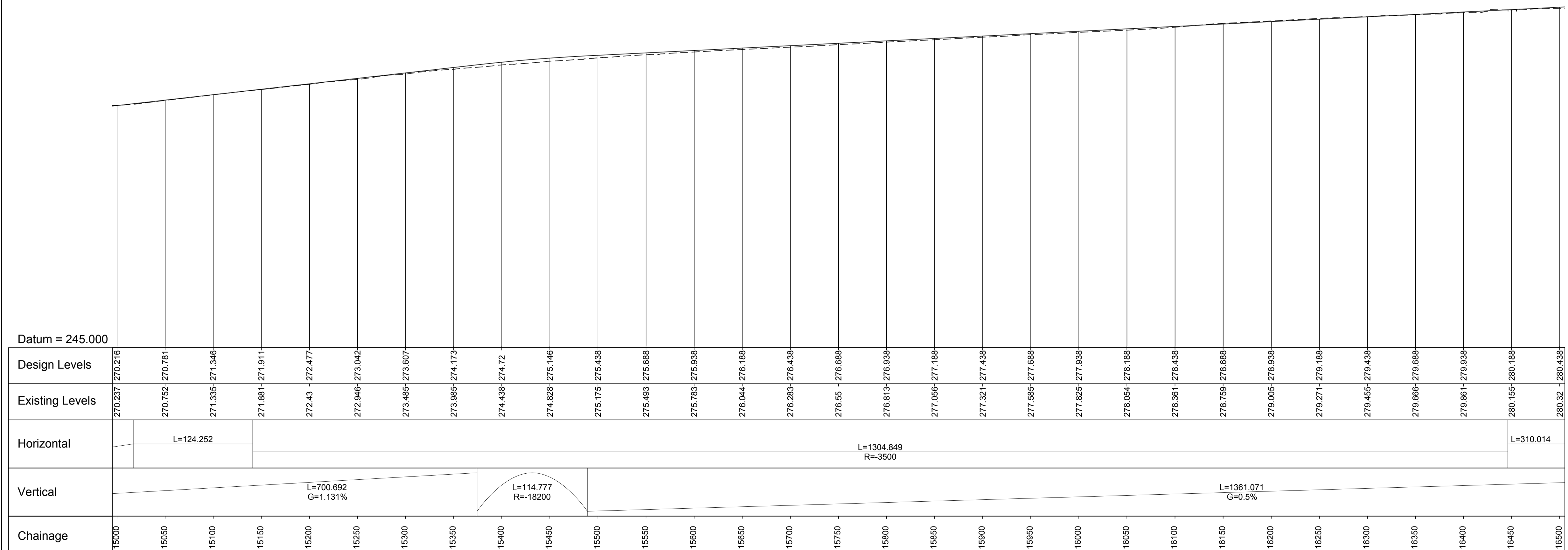


Plan
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KEY:

	DESIGN FRL
	EXISTING FRL
	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE



	15000	15050	15100	15150	15200	15250	15300	15350	15400	15450	15500	15550	15600	15650	15700	15750	15800	15850	15900	15950	16000	16050	16100	16150	16200	16250	16300	16350	16400	16450	16500					
Datum = 245.000																																				
Design Levels	270.237	270.781	271.346	271.881	272.477	272.946	273.042	273.485	273.607	273.985	274.173	274.438	274.72	275.146	275.438	275.688	275.938	276.188	276.438	276.688	276.938	277.188	277.438	277.688	277.938	278.188	278.438	278.688	278.938	291.005	279.188	279.438	279.688	279.938	280.188	280.438
Existing Levels	270.237	270.781	271.335	271.881	272.43	272.946	273.042	273.485	273.607	273.985	274.173	274.438	274.72	275.146	275.438	275.688	275.938	276.188	276.438	276.688	276.938	277.188	277.438	277.688	277.938	278.188	278.438	278.688	278.938	279.005	279.188	279.438	279.688	279.938	280.188	280.438
Horizontal	L=124.252		L=1304.849 R=3500												L=310.014																					
Vertical	L=700.692 G=1.131%					L=114.777 R=18200		L=1361.071 G=0.5%																												
Chainage	15000	15050	15100	15150	15200	15250	15300	15350	15400	15450	15500	15550	15600	15650	15700	15750	15800	15850	15900	15950	16000	16050	16100	16150	16200	16250	16300	16350	16400	16450	16500					

Horizontal Scale - 1:2500, Vertical Scale - 1:250

P01	SN	IM	MD	05/08/16
FIRST ISSUE				
P02	YP	IM	CM	15/03/17
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B

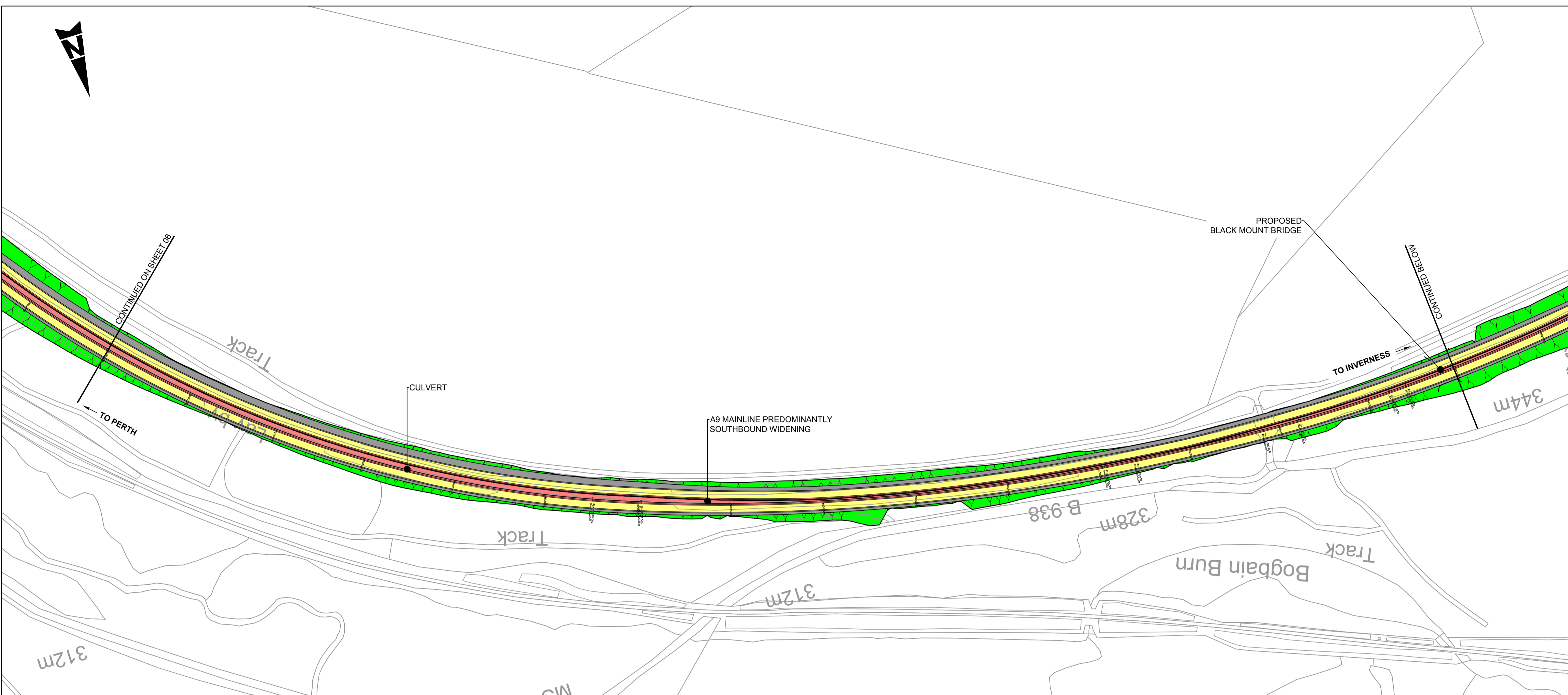


Drawing Title					
FIGURE 5.1 MAINLINE OPTION 1 PLAN AND PROFILE SHEET 11 OF 17					
Scale	AS SHOWN	Designed / Drawn	Checked	Approved	Authorised
Original Size	A1	YP	IM	CM	RG
Date	14/03/17	Date	15/03/17	Date	15/03/17
Drawing Number		Project		Revision	
A9P11 - AMJ - HML -		E_ML000_ZZ - DR - RD - 0011		P02	
Location	Type	Role	Number		

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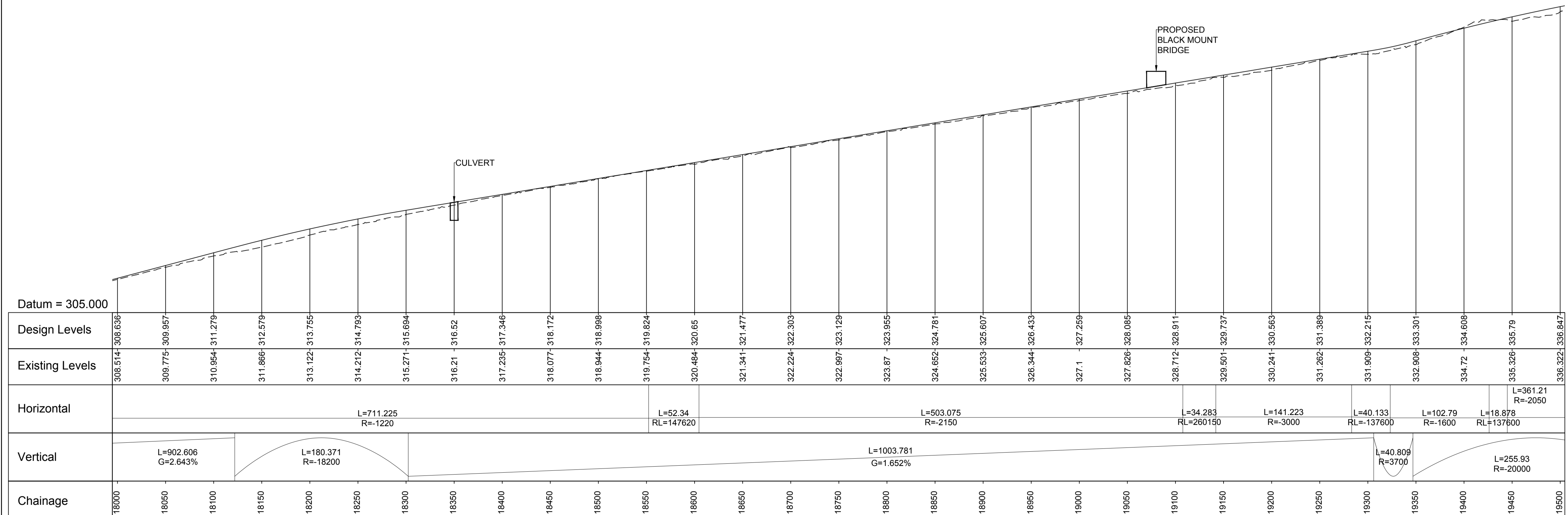


Plan
Scale - 1:2500

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KEY:

	DESIGN FRL
	EXISTING FRL
	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE



Horizontal Scale - 1:2500, Vertical Scale - 1:250

P01	SN	IM	MD	05/08/16
FIRST ISSUE				
P02	YP	IM	CM	15/03/17
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
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Drawing Status				Suitability
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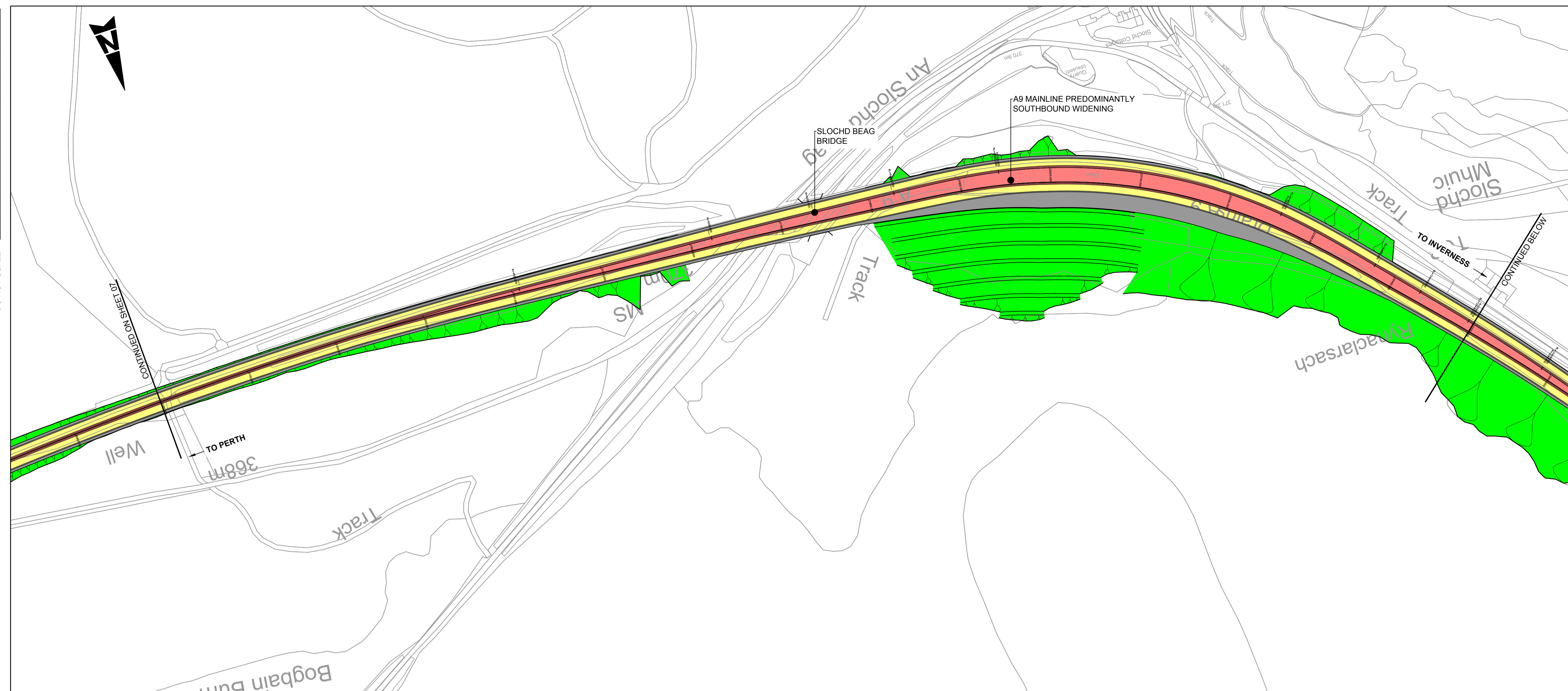


Drawing Title				
FIGURE 5.1 MAINLINE OPTION 1 PLAN AND PROFILE SHEET 13 OF 17				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	YP	IM	CM	RG
Original Size	Date	Date	Date	Date
A1	14/03/17	15/03/17	15/03/17	15/03/17
Drawing Number				Revision
Project				P02
Originator				Volume
A9P11 - AMJ - HML -				
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Location	Type	Role	Number	

Plotted: Mar 15, 2017 - 2:42pm by: PISK1079

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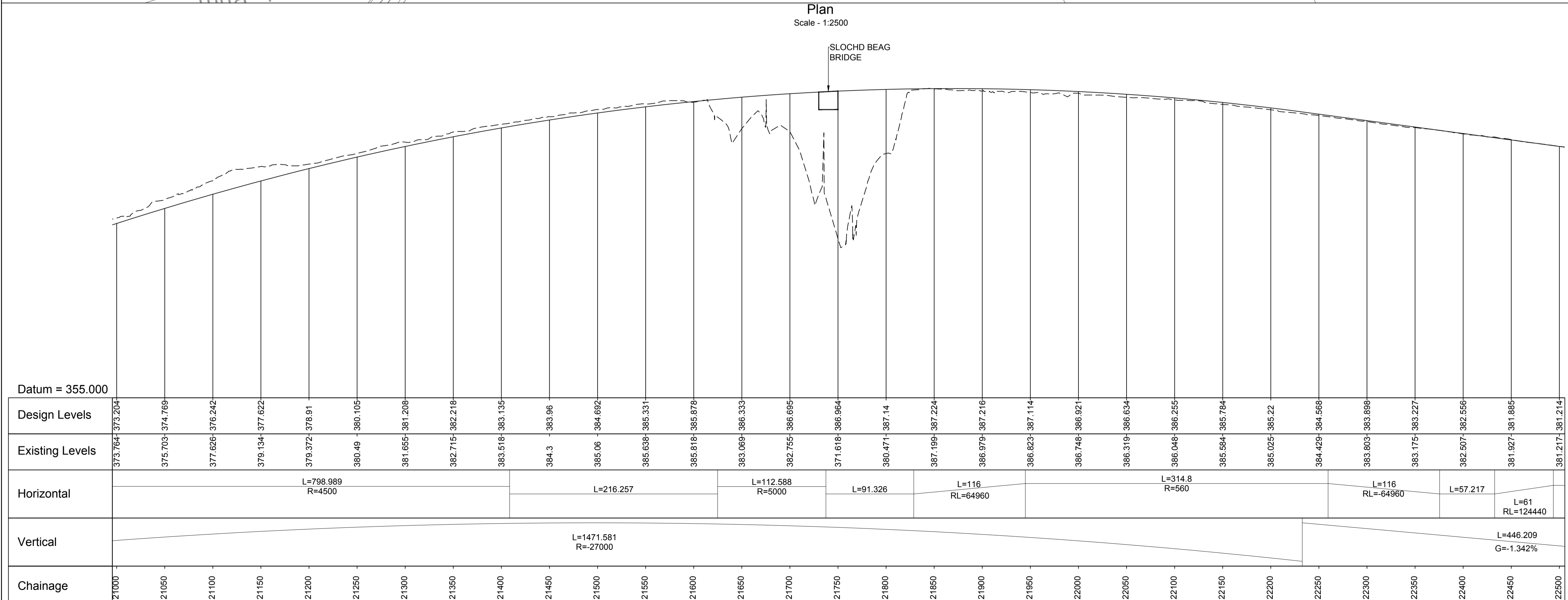


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KEY:

	DESIGN FRL
	EXISTING FRL
	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE

Plan
Scale - 1:2500



Chainage	Horizontal	Vertical
21000 - 21150	L=798.989 R=4500	L=1471.581 R=27000
21150 - 21250	L=216.257	
21250 - 21350	L=112.588 R=5000	L=446.209 G=-1.342%
21350 - 21450	L=91.326	
21450 - 21550	L=116 RL=64960	
21550 - 21650	L=314.8 R=560	L=61 RL=124440
21650 - 21750	L=116 RL=64960	
21750 - 21850	L=57.217	L=61 RL=124440
21850 - 21950	L=61 RL=124440	
21950 - 22050	L=61 RL=124440	

Horizontal Scale - 1:2500, Vertical Scale - 1:250

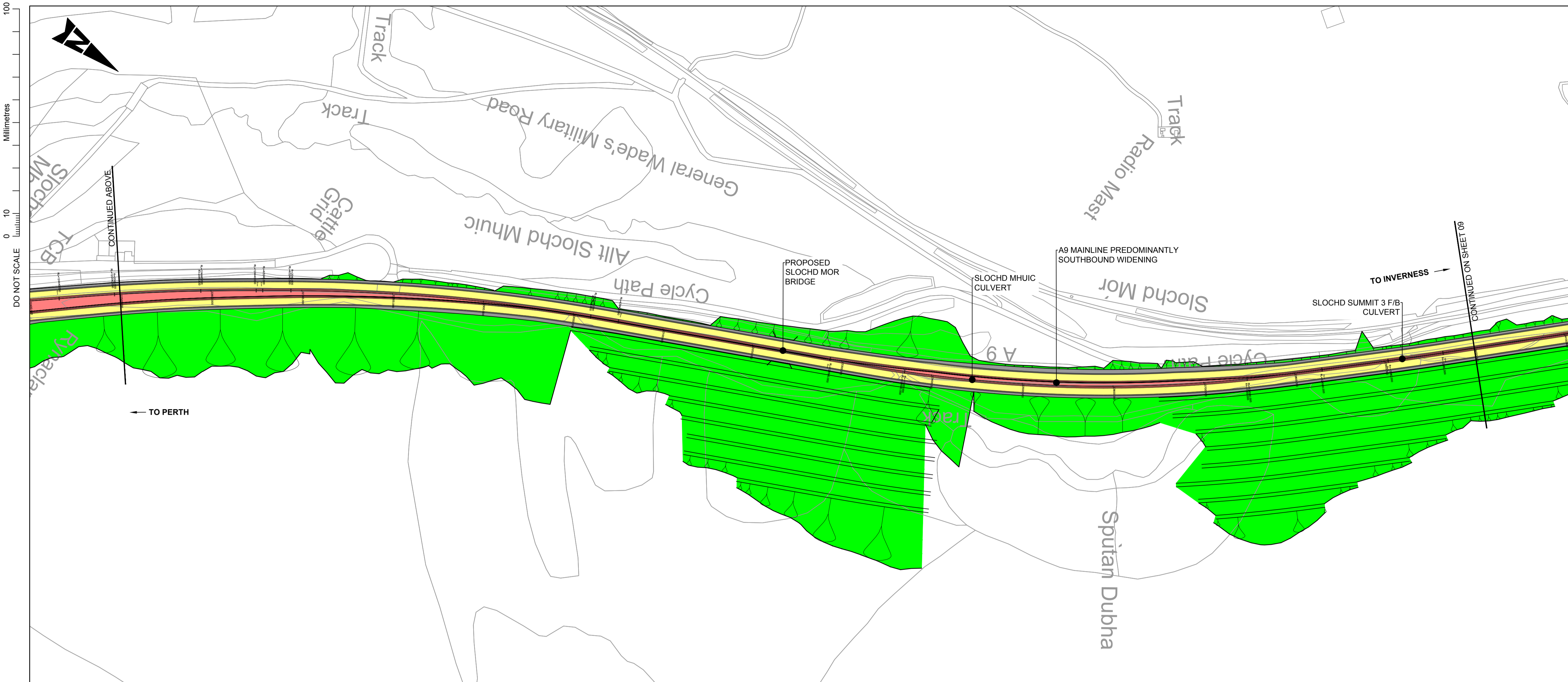
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FIRST ISSUE				
P02	YP	IM	CM	15/03/17
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B



Drawing Title				
FIGURE 5.1 MAINLINE OPTION 1 PLAN AND PROFILE SHEET 15 OF 17				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	YP	IM	CM	RG
Original Size	Date	Date	Date	Date
A1	14/03/17	15/03/17	15/03/17	15/03/17
Drawing Number				Revision
A9P11 - AMJ - HML - E_ML000_ZZ - DR - RD - 0015				P02
Location	Type	Role	Number	

Plotted: Mar 15, 2017 - 2:44pm by: PISK1079

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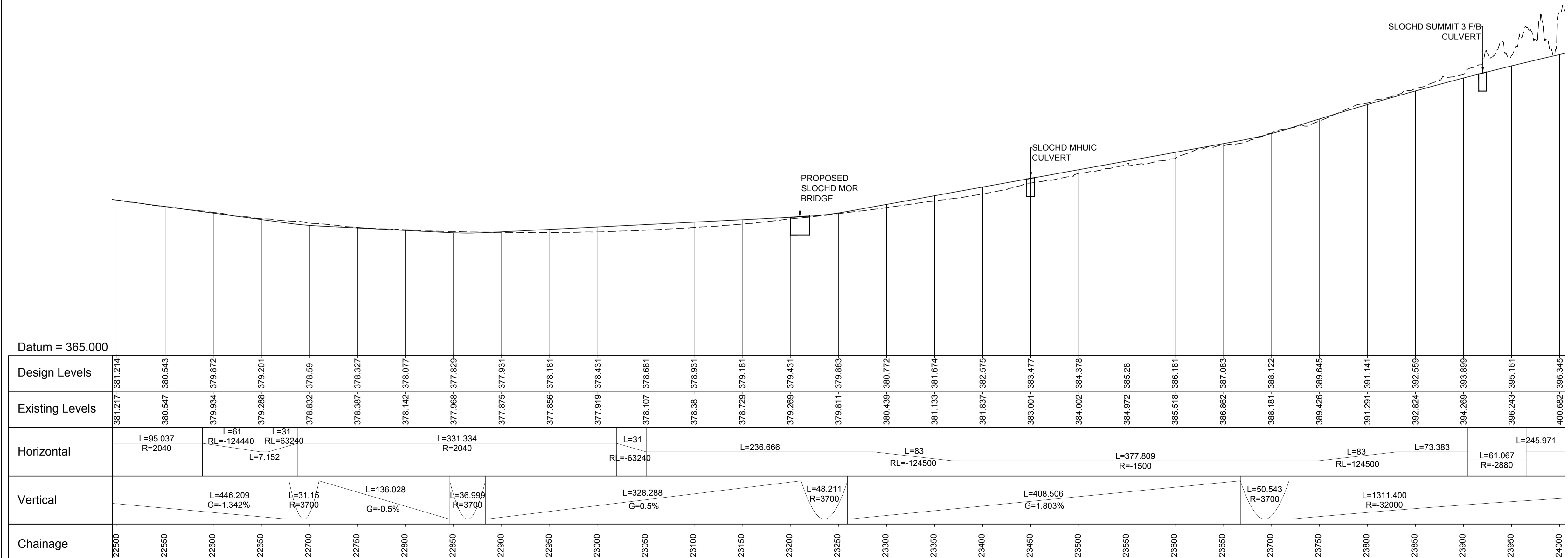


Plan
Scale - 1:2500

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	EARTHWORKS
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Horizontal Scale - 1:2500, Vertical Scale - 1:250

P01	SN	IM	MD	05/08/16
FIRST ISSUE				
P02	YP	IM	CM	15/03/17
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
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Drawing Status				Suitability
FINAL				B

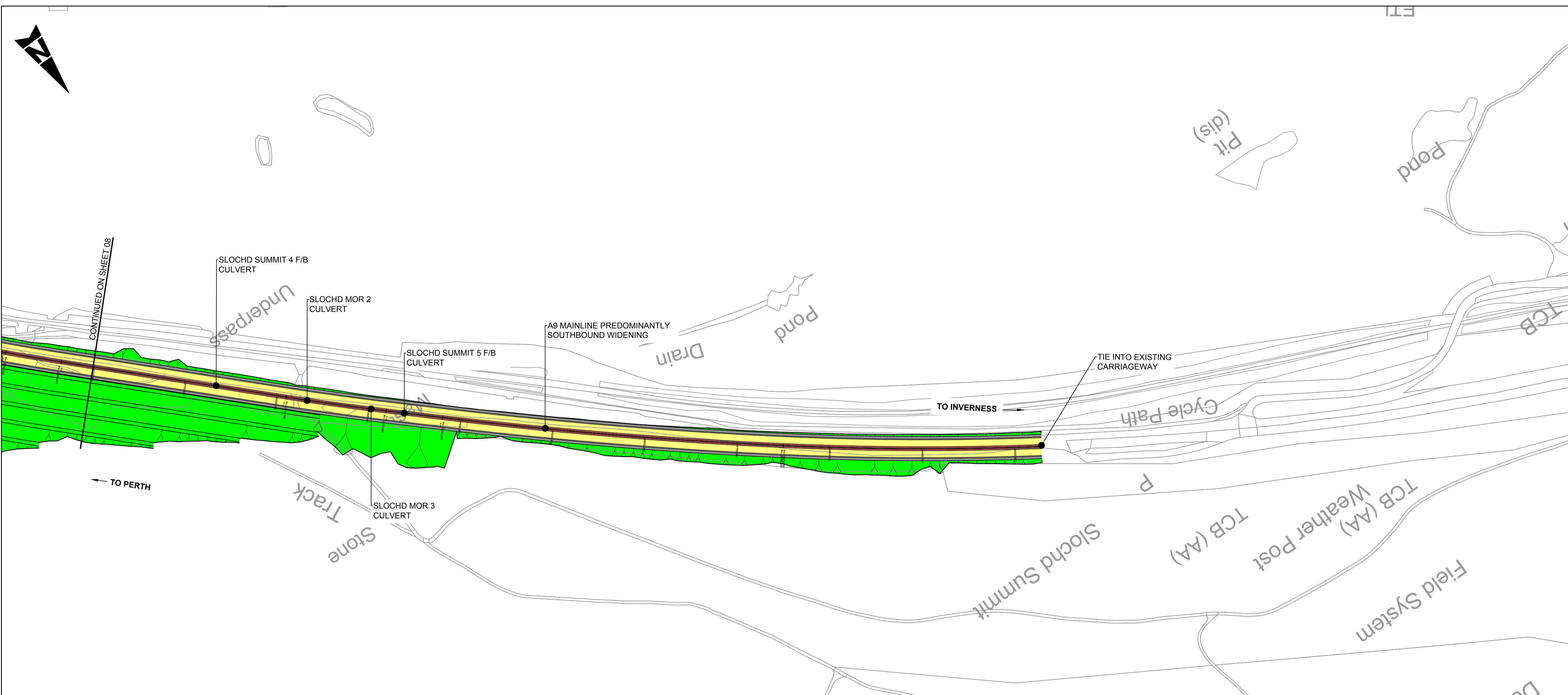


Drawing Title					
FIGURE 5.1 MAINLINE OPTION 1 PLAN AND PROFILE SHEET 16 OF 17					
Scale	Designed / Drawn	Checked	Approved	Authorised	
AS SHOWN	YP	IM	CM	RG	
Original Size	Date	Date	Date	Date	Date
A1	14/03/17	15/03/17	15/03/17	15/03/17	15/03/17
Drawing Number		Project	Originator	Volume	Revision
E_ML000_ZZ - DR - RD - 0016		A9P11 - AMJ - HML -			P02
Location	Type	Role	Number		

Plotted: Mar 15, 2017 - 2:44pm by: PISK1079

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Millimetres
DO NOT SCALE



Plan
Scale - 1:2500

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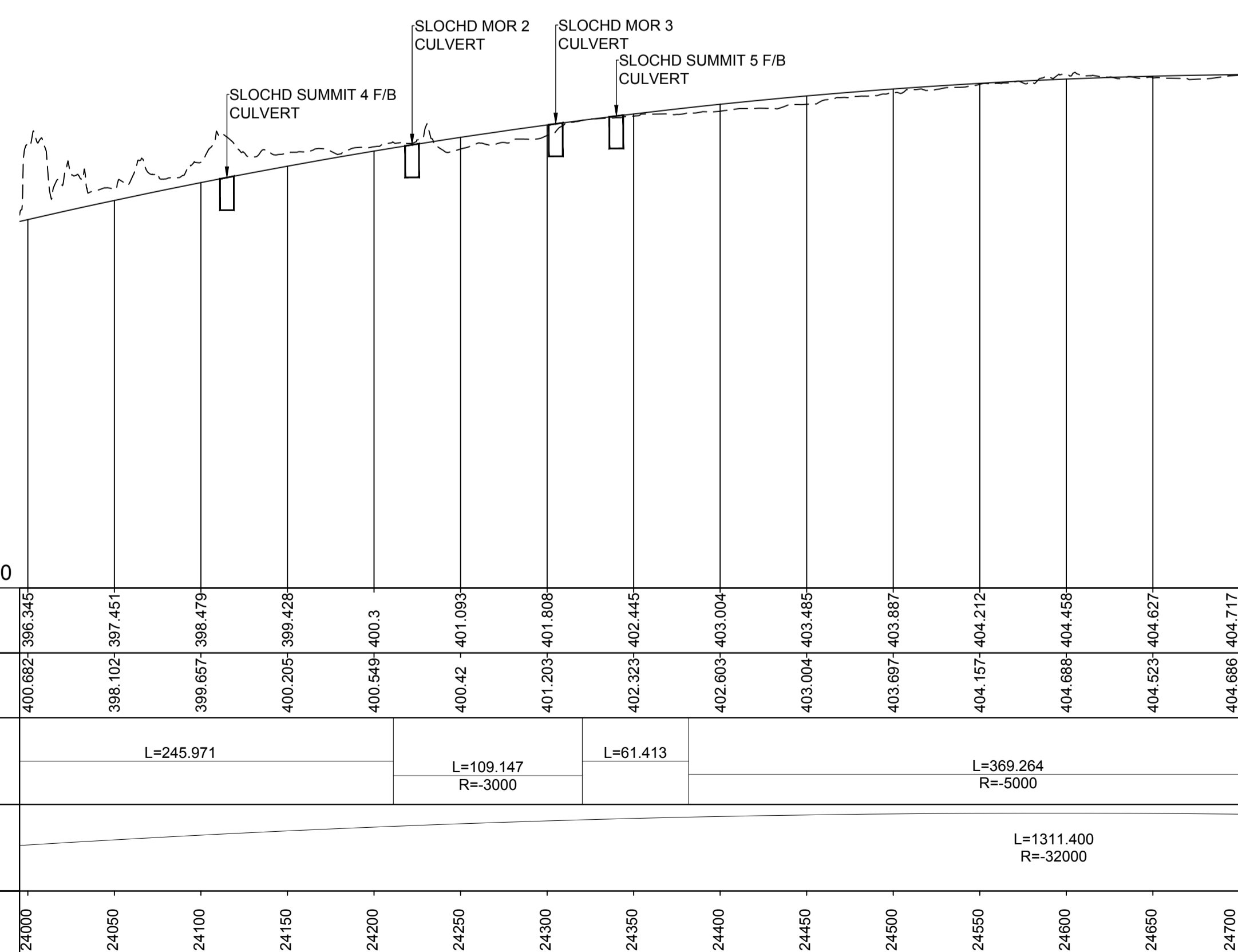
KEY:

	DESIGN FRL
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	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE

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FIRST ISSUE				
P02	YP	IM	CM	15/03/17
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B



Drawing Title				
FIGURE 5.1 MAINLINE OPTION 1 PLAN AND PROFILE SHEET 17 OF 17				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	YP	IM	CM	RG
Original Size	Date	Date	Date	Date
A1	14/03/17	15/03/17	15/03/17	15/03/17
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	A9P11 - AMJ - HML -			P02
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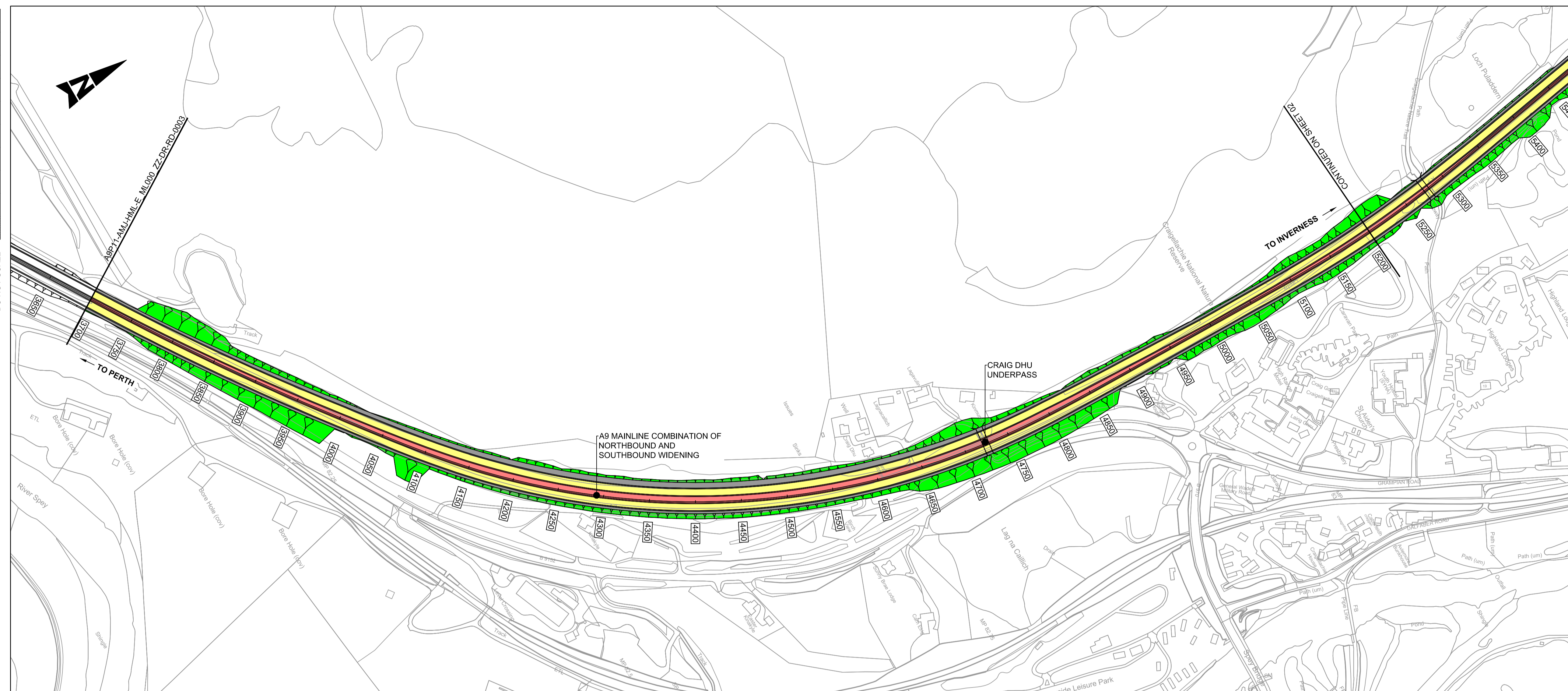


Horizontal Scale - 1:2500, Vertical Scale - 1:250

Plotted: Mar 15, 2017 - 2:46pm by: PISK1079

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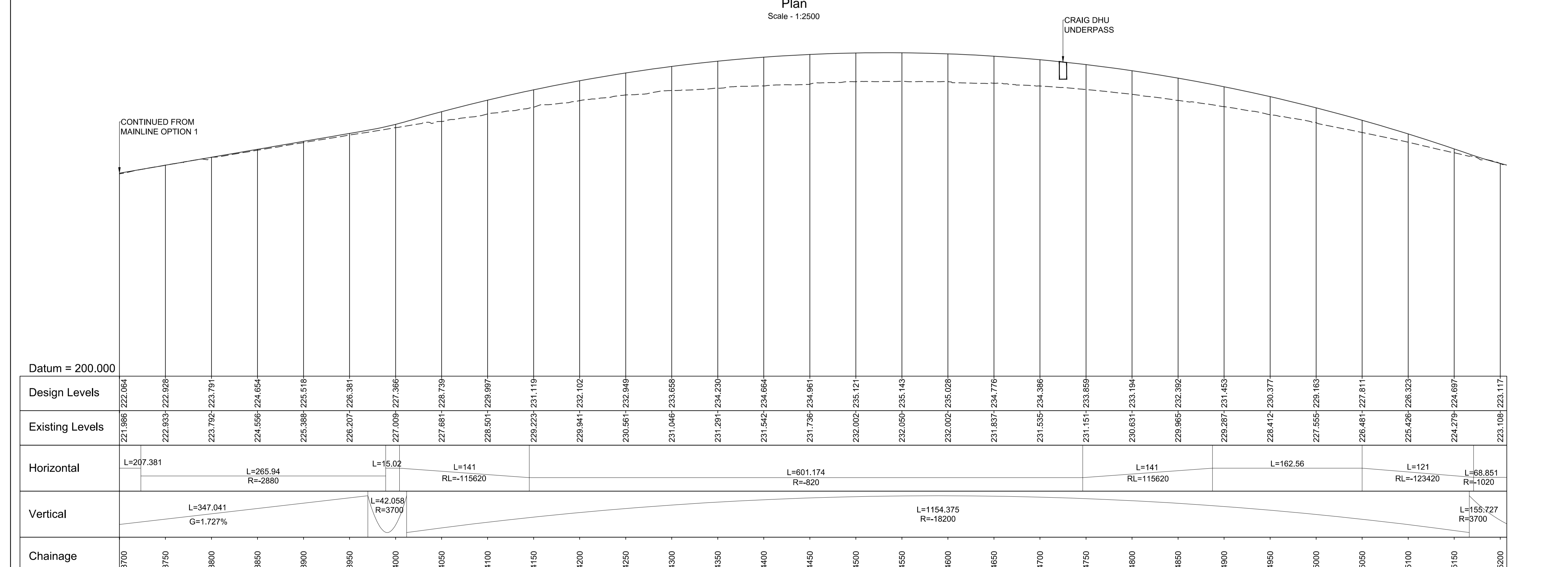
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Plan
Scale - 1:2500

- NOTES:
1. ALL DESIGN WORKS ARE IN ACCORDANCE THE DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB) FOR A CATEGORY 7A DUAL CARRIAGEWAY.
 2. THE NEW A9 MAINLINE IS DESIGNED TO A DESIGN SPEED OF 120AKPH IN THE LINE WITH THE REQUIREMENTS OF TD 9/93: HIGHWAY LINK DESIGN.
 3. THE NEW A9 MAINLINE CARRIAGEWAY IS DESIGNED IN LINE WITH THE REQUIREMENTS OF TD 27/05: CROSS-SECTIONS AND HEADROOMS.
 4. EARTHWORKS FOR MAINLINE OPTIONS ARE SHOWN AT NOMINAL 1V:3H INCLINE WITH APPLICATION OF VARYING GRADIENT, COMMON ACROSS ALL OPTIONS TO TAKE DUE CONSIDERATION OF LANDSCAPE 'FIT' WHERE OTHER CONSTRAINTS DO NOT PRESENT LIMITATION.
 5. VERGE AND CENTRAL RESERVE WIDENED FOR VISIBILITY PURPOSES AND ARE SUBJECT TO REFINEMENT DEPENDANT ON PROMOTED JUNCTION LOCATIONS.
 6. HORIZONTAL AND VERTICAL ALIGNMENT ILLUSTRATED SHOULD NOT BE CONSIDERED EXHAUSTIVE.
 7. SOUTHBOUND WIDENING: THE EXISTING A9 CARRIAGEWAY FORMS THE NEW D2AP NORTHBOUND CARRIAGEWAY. ADJUSTMENTS TO THE EXISTING CARRIAGEWAY ARE REQUIRED TO MEET CROSS SECTIONAL AND GEOMETRICAL REQUIREMENTS.
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- KEY:
- DESIGN FRL
 - - - EXISTING FRL
 - EARTHWORKS
 - VERGE
 - CARRIAGEWAY
 - CENTRAL RESERVE



Horizontal Scale - 1:2500, Vertical Scale - 1:250

P01	SN	AS	MD	05/08/16
FIRST ISSUE				
P02	CO	IM	EM	29/03/17
FINAL ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B

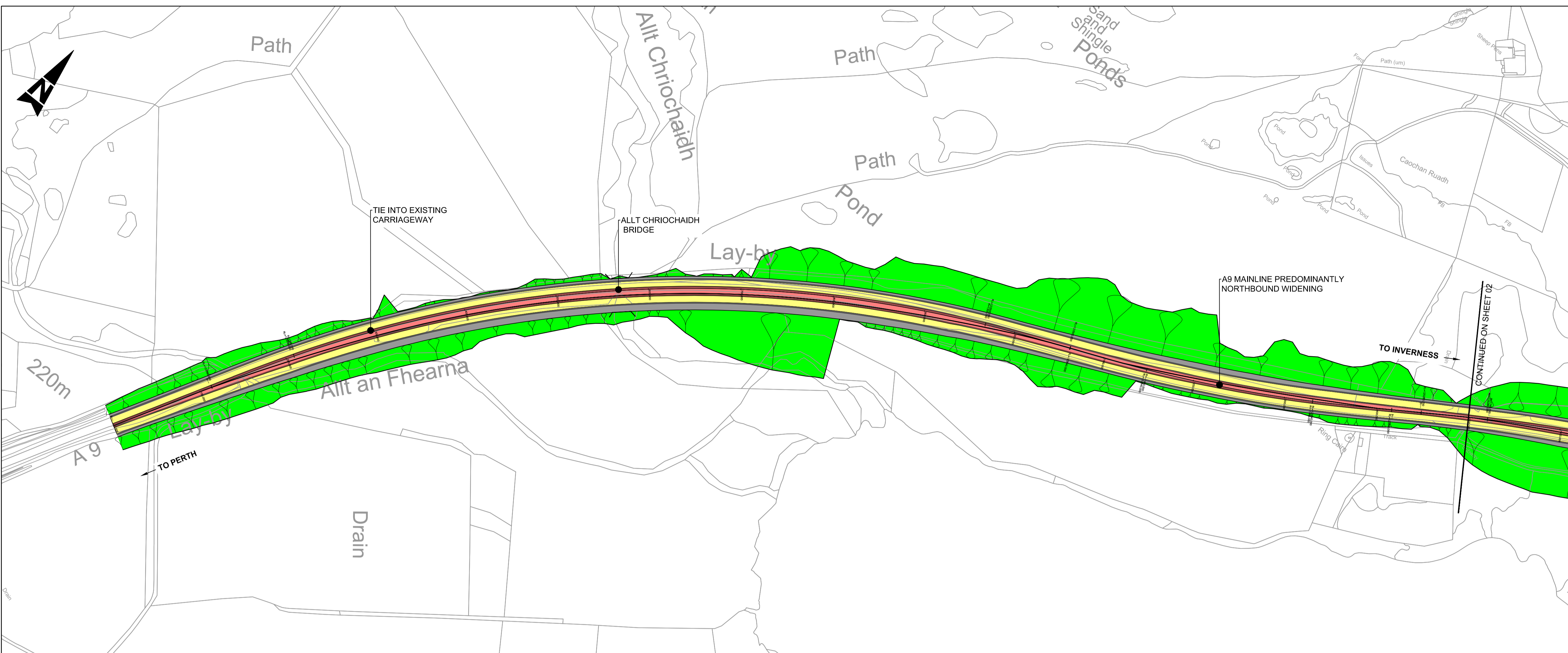


Drawing Title				
FIGURE 5.2 MAINLINE OPTION 1A PLAN AND PROFILE SHEET 1 OF 2				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CO	IM	EM	CM
Original Size	Date	Date	Date	Date
A1	28/03/17	29/03/17	29/03/17	29/03/17
Drawing Number	Project	Originator	Volume	Revision
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Location	Type	Role	Number	

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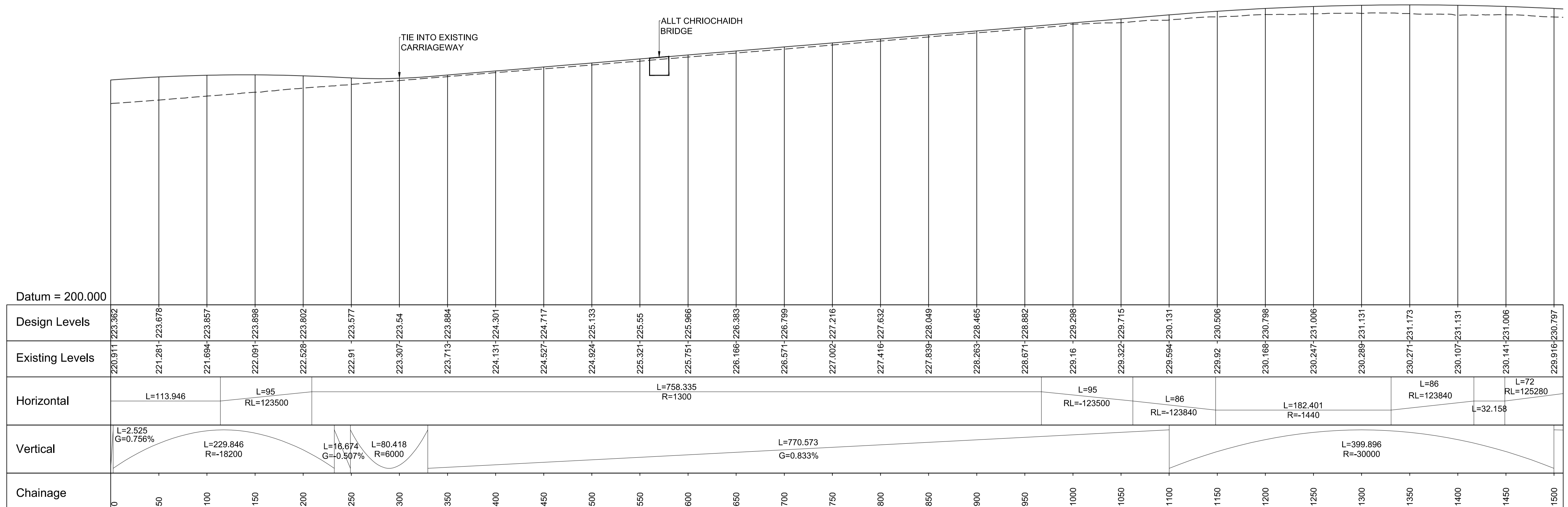


- NOTES:**
1. ALL DESIGN WORKS ARE IN ACCORDANCE THE DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB) FOR A CATEGORY 7A DUAL CARRIAGEWAY.
 2. THE NEW A9 MAINLINE IS DESIGNED TO A DESIGN SPEED OF 120AKPH IN THE LINE WITH THE REQUIREMENTS OF TD 9/93: HIGHWAY LINK DESIGN.
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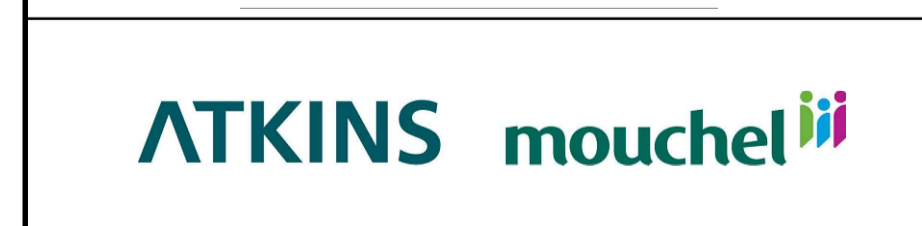
- DESIGN FRL
- - - EXISTING FRL
- EARTHWORKS
- VERGE
- CARRIAGEWAY
- CENTRAL RESERVE

Plan
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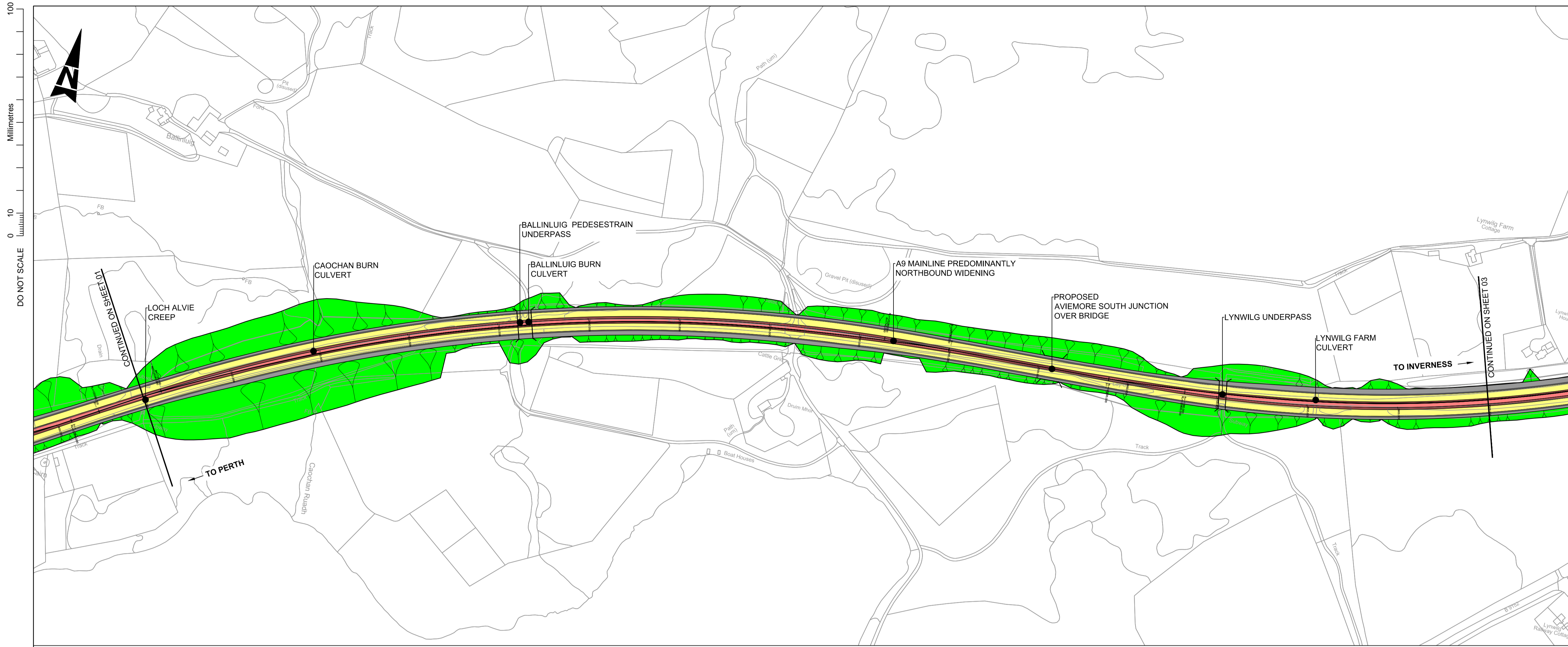
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FIRST ISSUE				
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FINAL ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B



Drawing Title				
FIGURE 5.3 MAINLINE OPTION 2 PLAN AND PROFILE SHEET 1 OF 17				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CO	IM	EM	CM
Original Size	Date	Date	Date	Date
A1	28/03/17	29/03/17	29/03/17	29/03/17
Drawing Number		Originator	Volume	Revision
F_ML000_ZZ - DR - RD - 0001		A9P11 - AMJ - HML -		P02
Location	Type	Role	Number	

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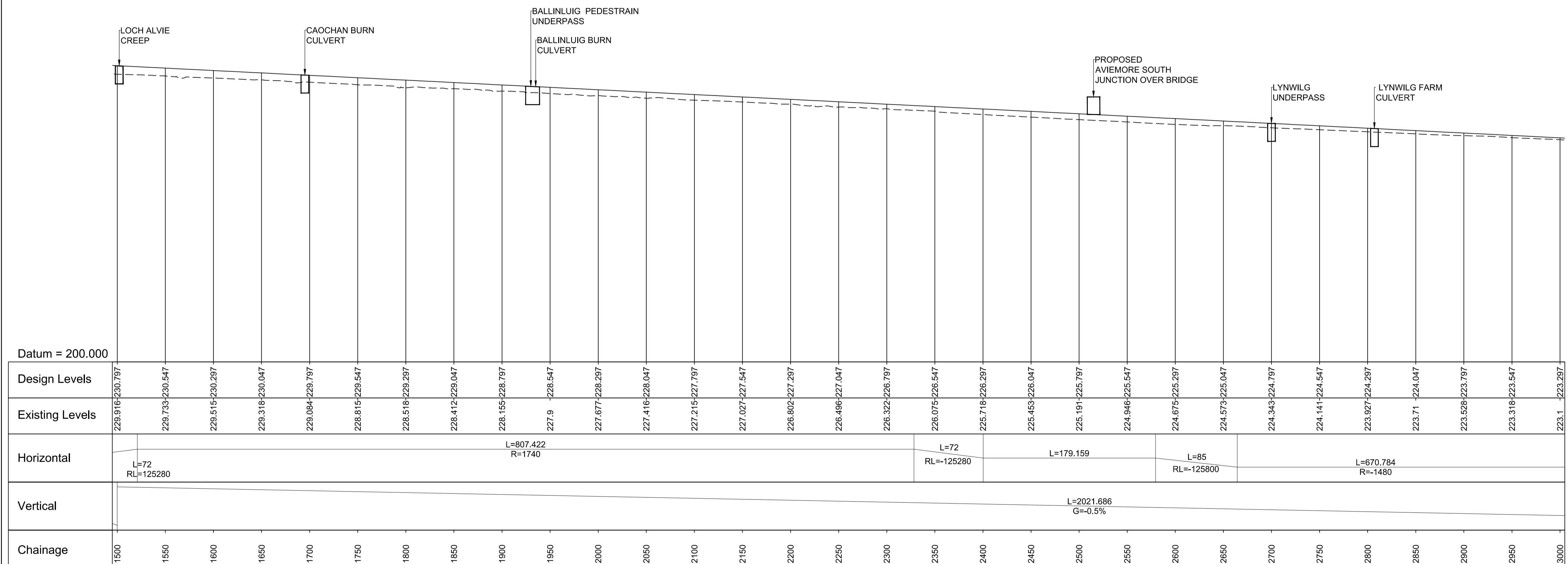


Plan
Scale - 1:2500

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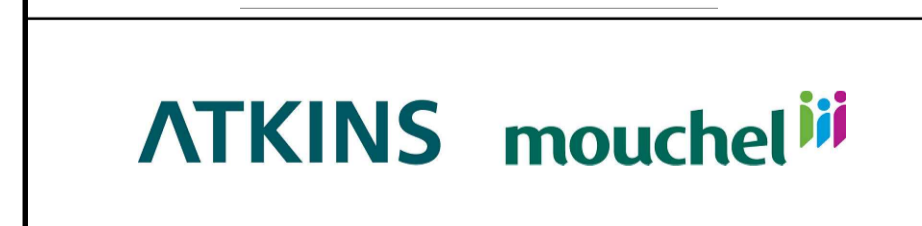
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	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE



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FIRST ISSUE				
P02	CO	IM	EM	29/03/17
FINAL ISSUE				
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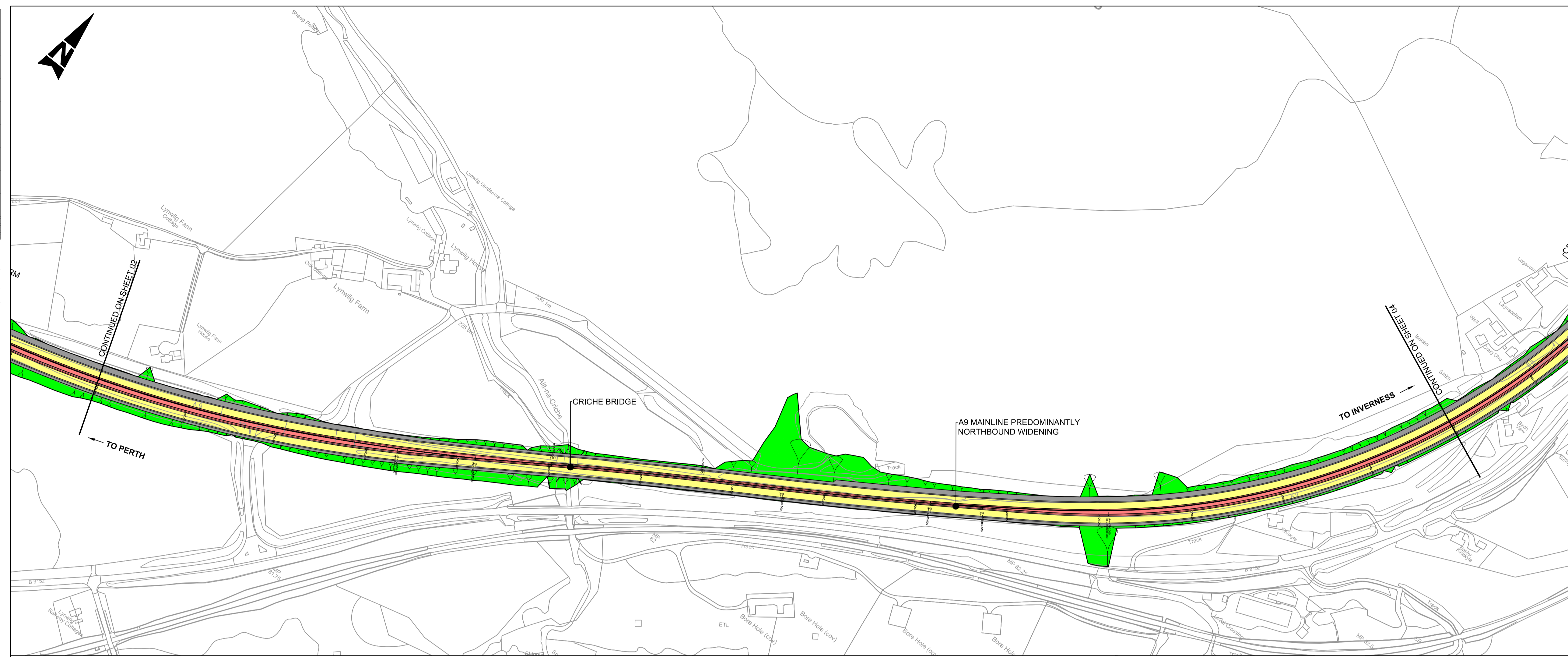


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FIGURE 5.3 MAINLINE OPTION 2 PLAN AND PROFILE SHEET 2 OF 17					
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AS SHOWN	CO	IM	EM	CM	
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A9P11 - AMJ - HML -		F_ML000_ZZ - DR - RD - 0002			P02
Location	Type	Role	Number		

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DO NOT SCALE



Plan
Scale - 1:2500

- NOTES:**
1. ALL DESIGN WORKS ARE IN ACCORDANCE THE DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB) FOR A CATEGORY 7A DUAL CARRIAGEWAY.
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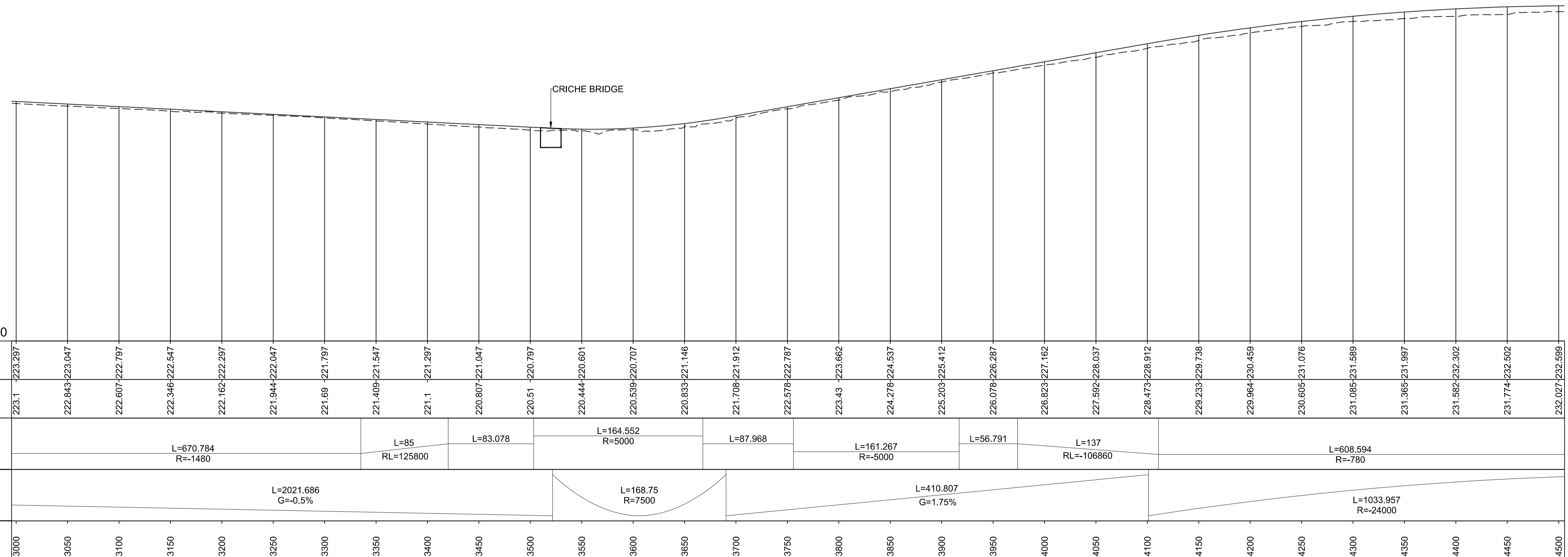
KEY:

	DESIGN FRL
	EXISTING FRL
	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE

P01	SN	IM	MD	05/08/16
FIRST ISSUE				
P02	CO	IM	EM	29/03/17
FINAL ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B



Drawing Title				
FIGURE 5.3 MAINLINE OPTION 2 PLAN AND PROFILE SHEET 3 OF 17				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CO	IM	EM	CM
Original Size	Date	Date	Date	Date
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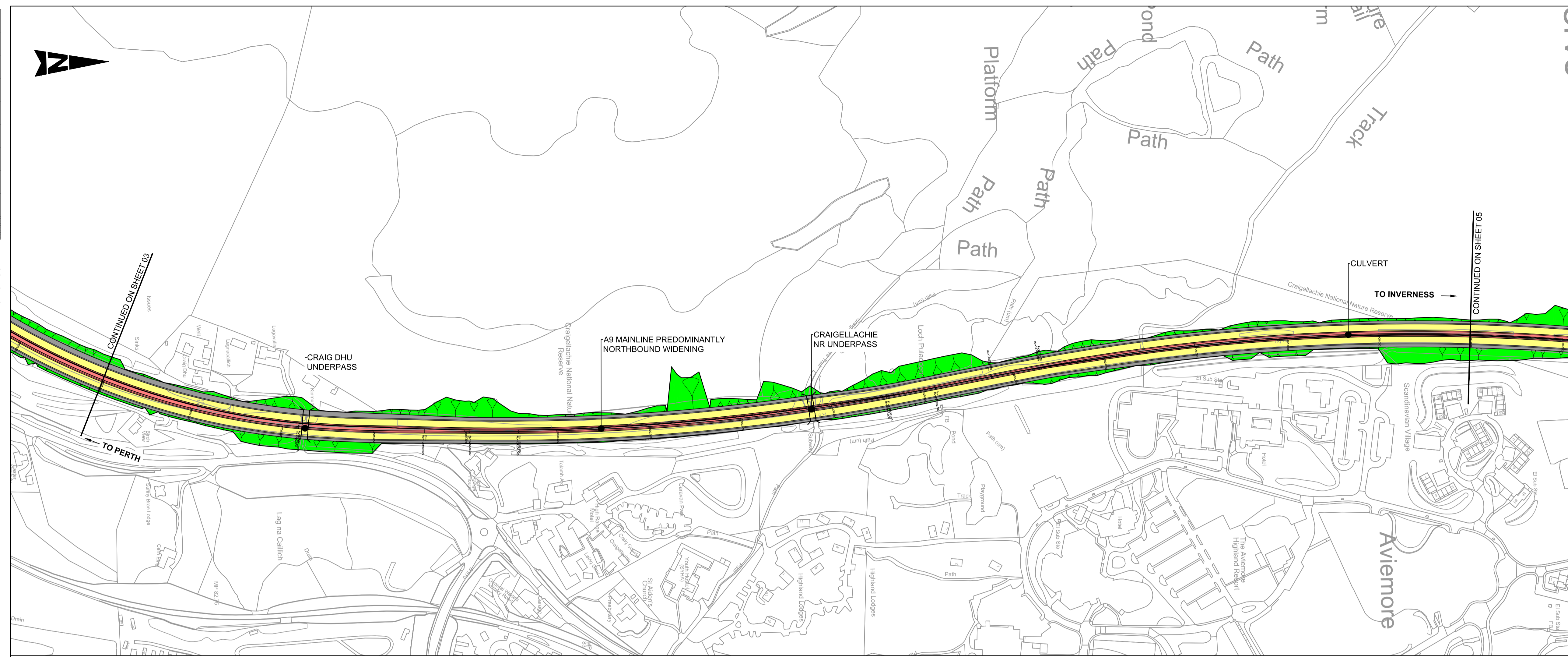


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Plan
Scale - 1:2500

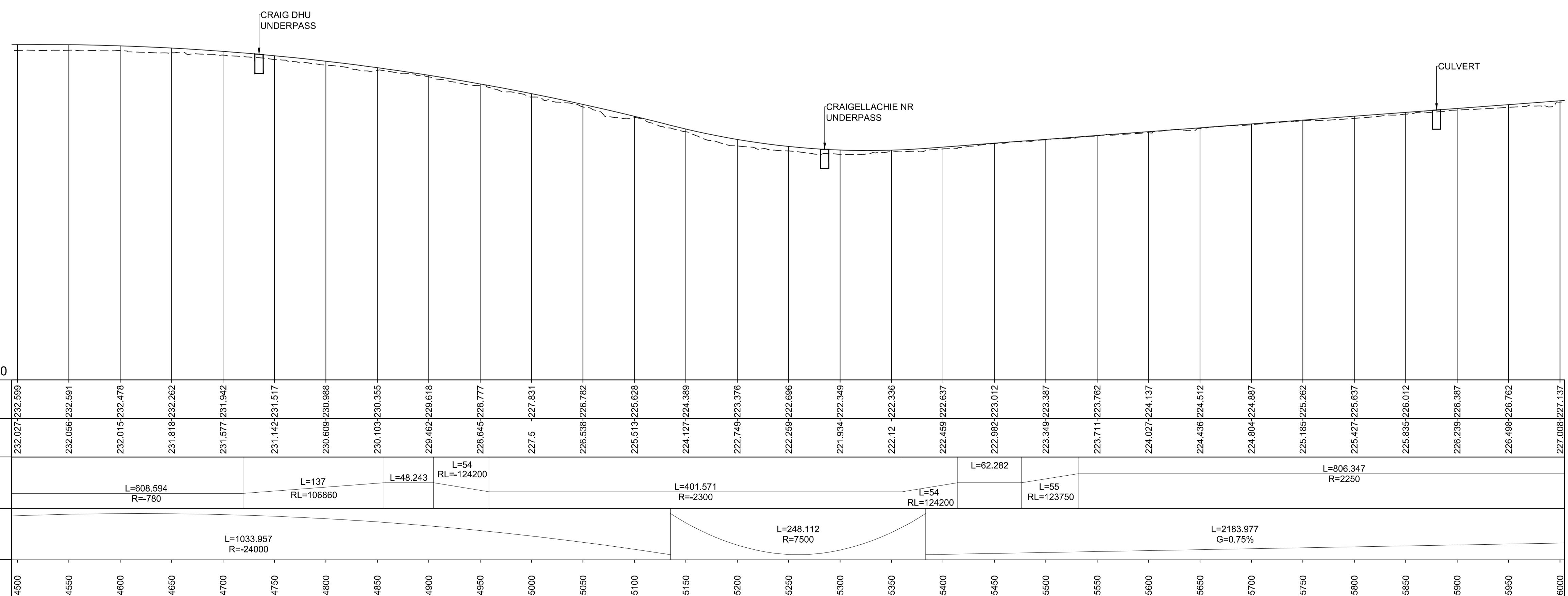
- NOTES:**
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- KEY:**
- DESIGN FRL
 - - - EXISTING FRL
 - EARTHWORKS
 - VERGE
 - CARRIAGEWAY
 - CENTRAL RESERVE

P01	SN	IM	MD	05/08/16
FIRST ISSUE				
P02	CO	IM	EM	29/03/17
FINAL ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B



Drawing Title					
FIGURE 5.3 MAINLINE OPTION 2 PLAN AND PROFILE SHEET 4 OF 17					
Scale	Designed / Drawn	Checked	Approved	EM	Authorised
AS SHOWN	CO	IM	EM	CM	CM
Original Size	Date	Date	Date	Date	Date
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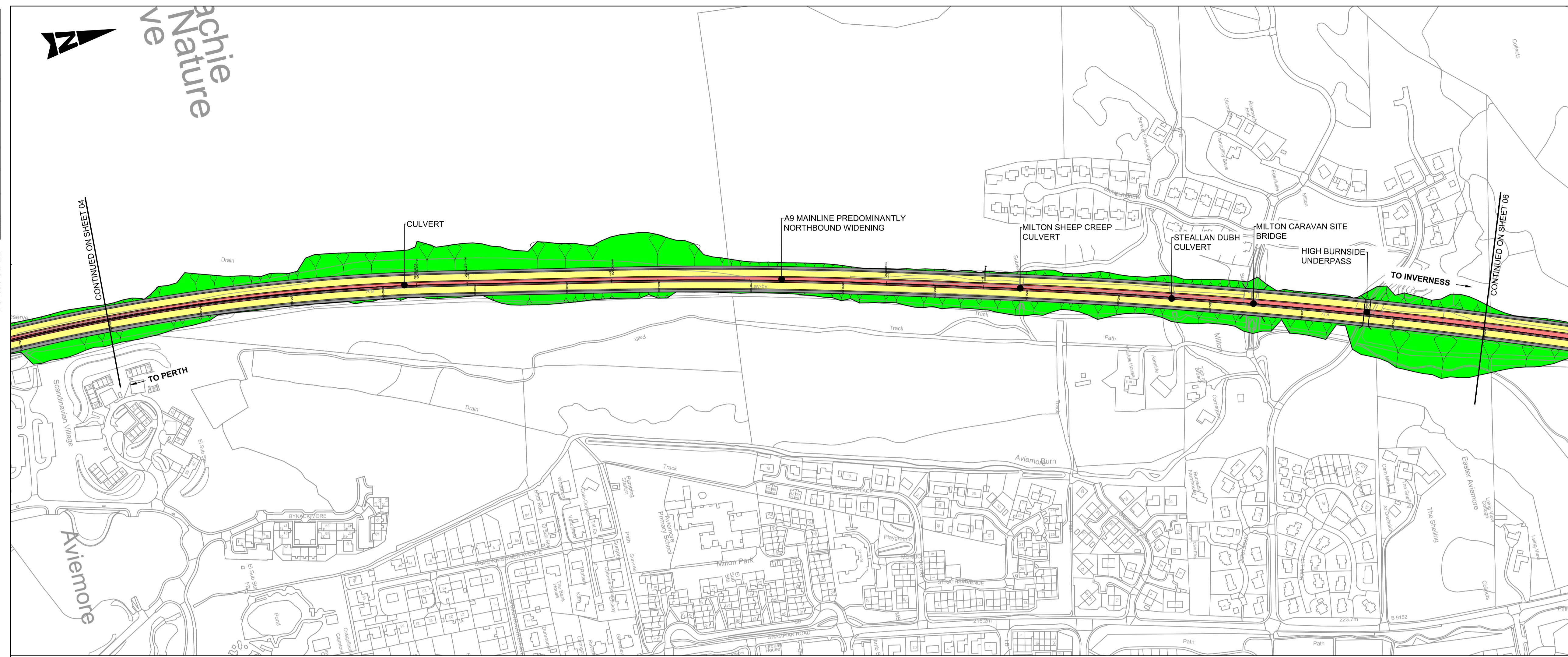


Horizontal Scale - 1:2500, Vertical Scale - 1:250

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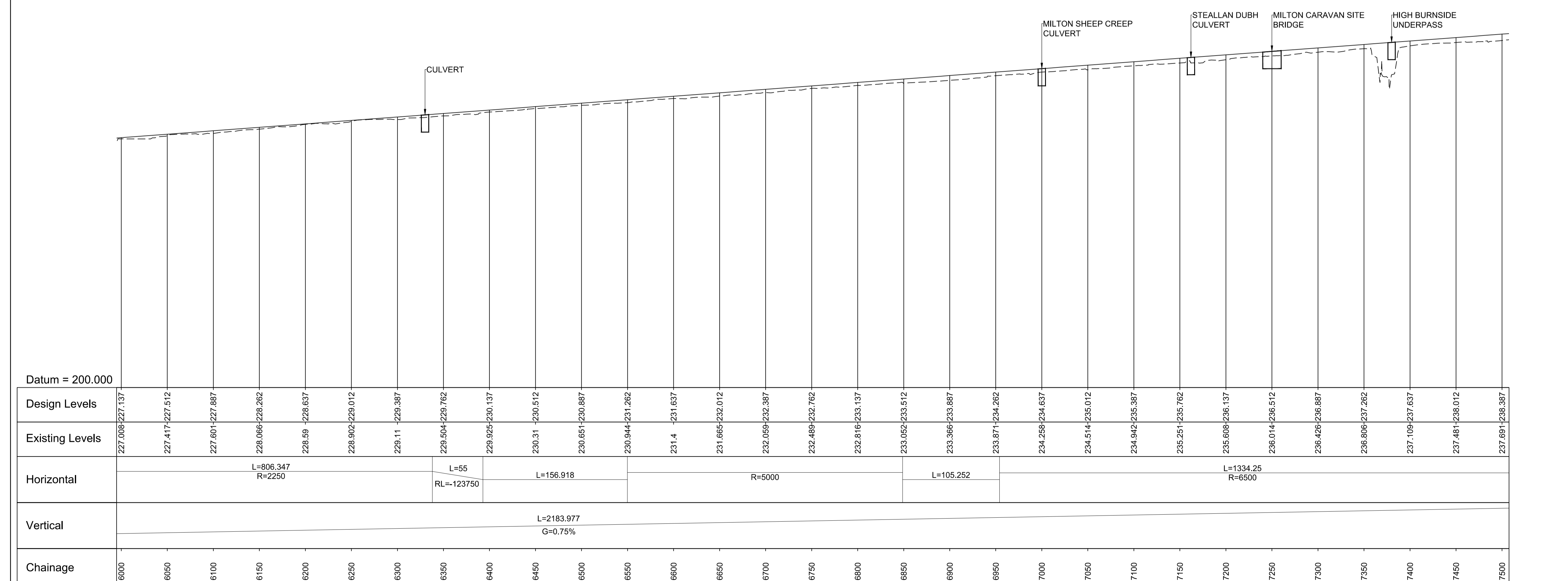
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Plan
Scale - 1:2500

- NOTES:**
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- KEY:**
- DESIGN FRL
 - - - EXISTING FRL
 - █ EARTHWORKS
 - █ VERGE
 - █ CARRIAGEWAY
 - █ CENTRAL RESERVE



Horizontal Scale - 1:2500, Vertical Scale - 1:250

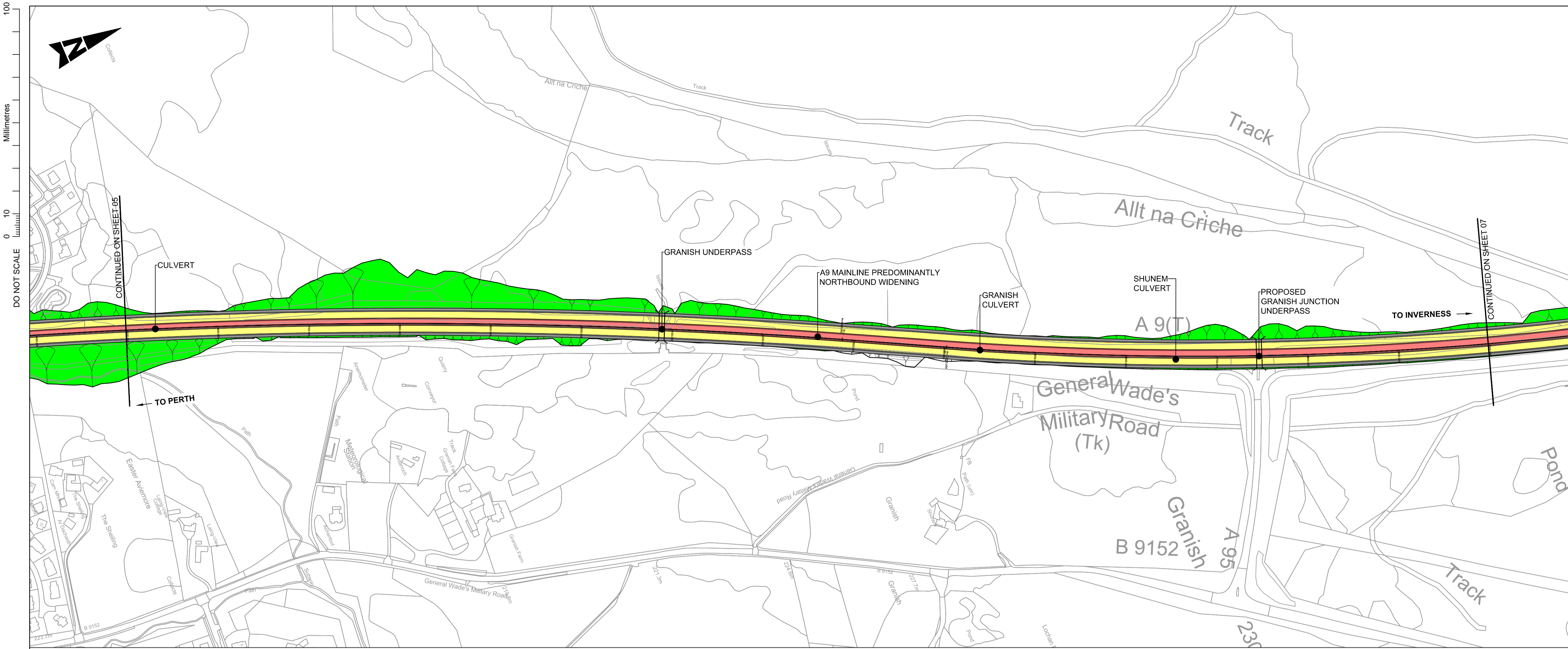
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FINAL ISSUE				
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Description				
Drawing Status				Suitability
FINAL				B



Drawing Title				
FIGURE 5.3 MAINLINE OPTION 2 PLAN AND PROFILE SHEET 5 OF 17				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CO	IM	EM	CM
Original Size	Date	Date	Date	Date
A1	28/03/17	29/03/17	29/03/17	29/03/17
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Location		F_ML000_ZZ - DR - RD - 0005		
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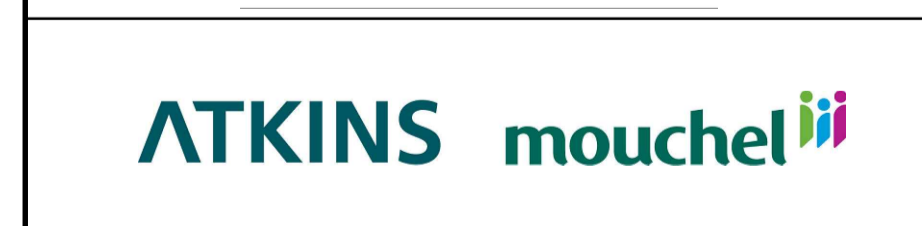


Plan
Scale - 1:2500

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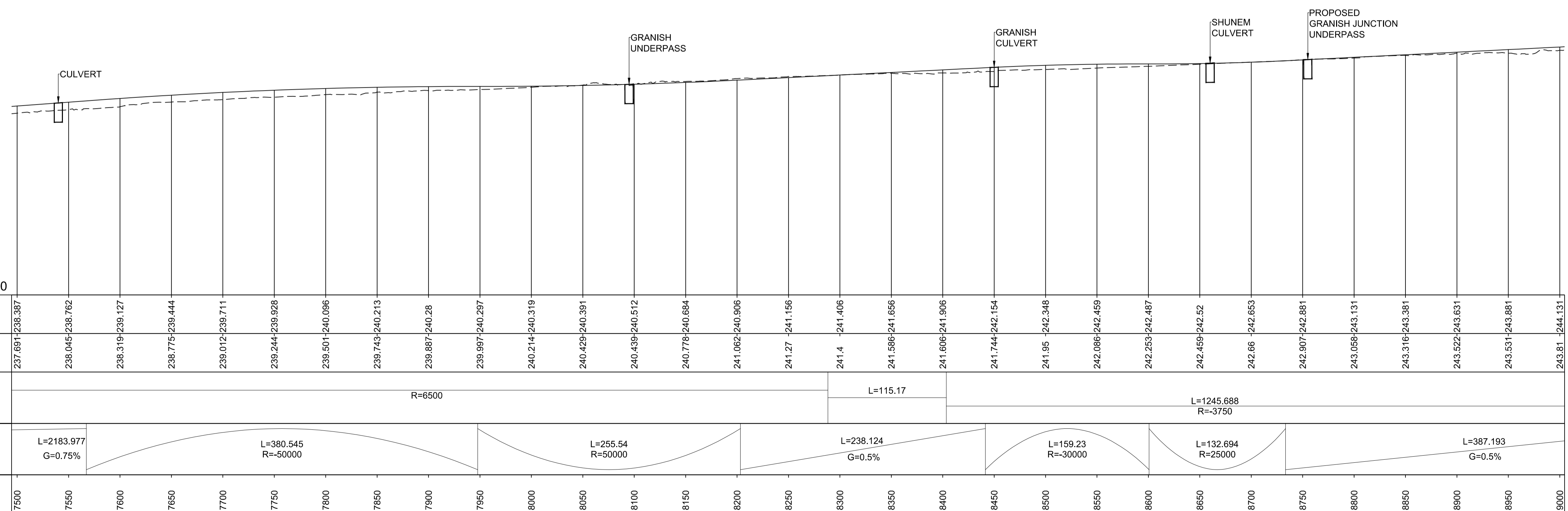
- KEY:**
- DESIGN FRL
 - - - EXISTING FRL
 - EARTHWORKS
 - VERGE
 - CARRIAGEWAY
 - CENTRAL RESERVE

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FIRST ISSUE				
P02	CO	IM	EM	29/03/17
FINAL ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
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Drawing Status				Suitability
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**FIGURE 5.3
MAINLINE OPTION 2 PLAN AND PROFILE
SHEET 6 OF 17**

Scale	AS SHOWN	Designed / Drawn	CO	Checked	IM	Approved	EM	Authorised	CM
Original Size	A1	Date	28/03/17	Date	29/03/17	Date	29/03/17	Date	29/03/17
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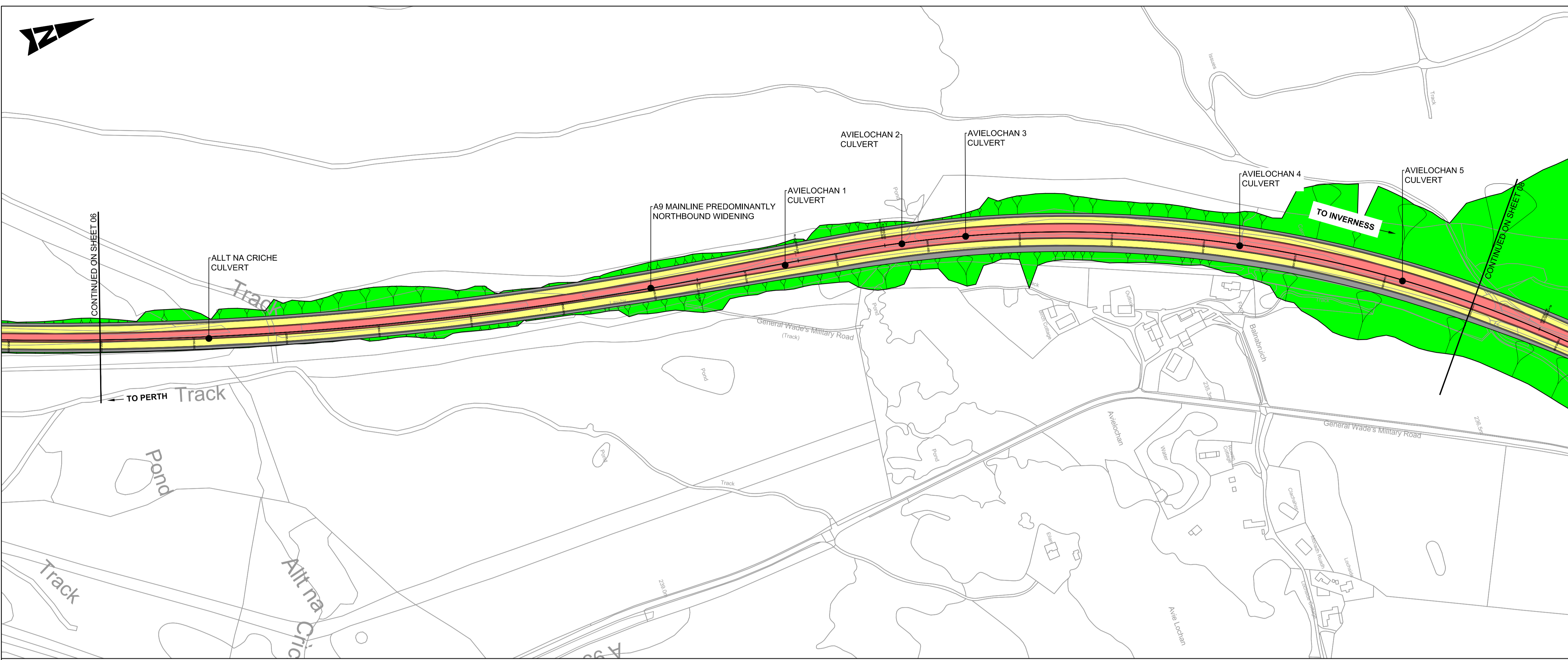


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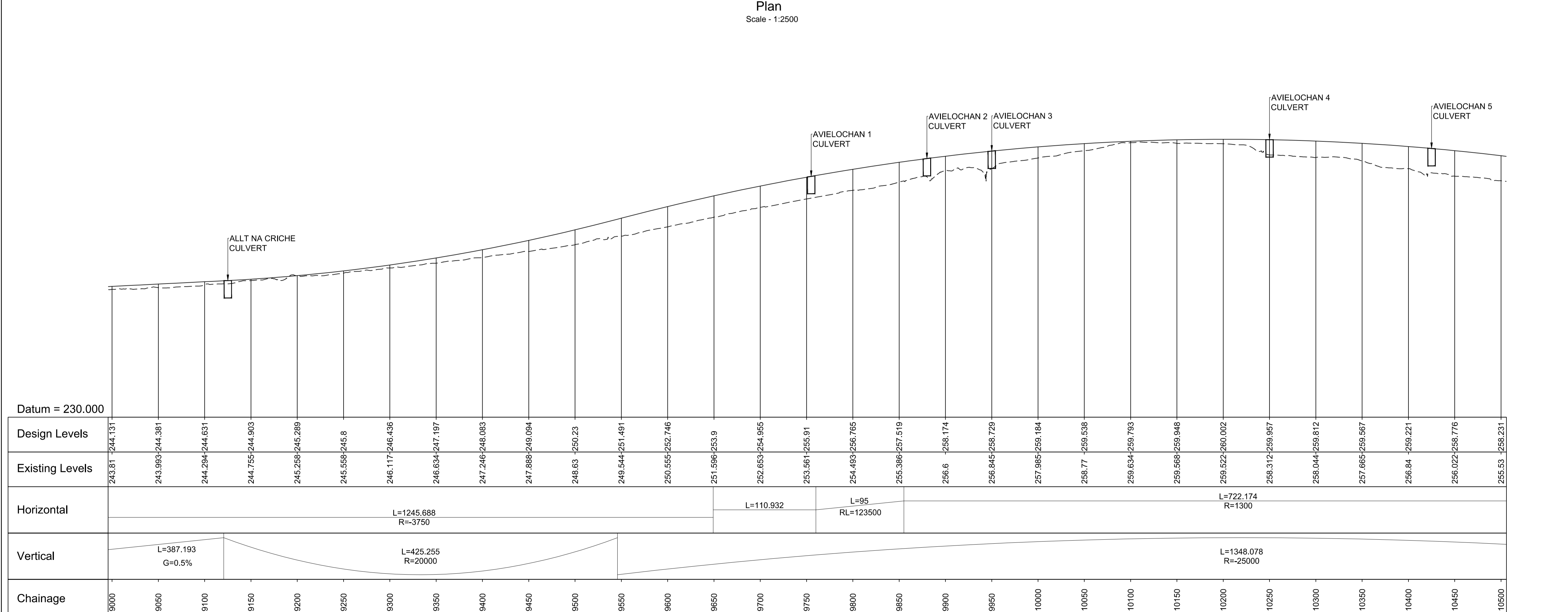


Plan
Scale - 1:2500

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 - SOUTHBOUND WIDENING: THE EXISTING A9 CARRIAGEWAY FORMS THE NEW D2AP NORTHBOUND CARRIAGEWAY. ADJUSTMENTS TO THE EXISTING CARRIAGEWAY ARE REQUIRED TO MEET CROSS SECTIONAL AND GEOMETRICAL REQUIREMENTS.
 - NORTHBOUND WIDENING: THE EXISTING A9 CARRIAGEWAY FORMS THE NEW D2AP SOUTHBOUND CARRIAGEWAY. ADJUSTMENTS TO THE EXISTING CARRIAGEWAY ARE REQUIRED TO MEET CROSS SECTIONAL AND GEOMETRICAL REQUIREMENTS.

KEY:

	DESIGN FRL
	EXISTING FRL
	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE



Horizontal Scale - 1:2500, Vertical Scale - 1:250

P01	SN	IM	MD	05/08/16
FIRST ISSUE				
P02	CO	IM	EM	29/03/17
FINAL ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
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FINAL				B

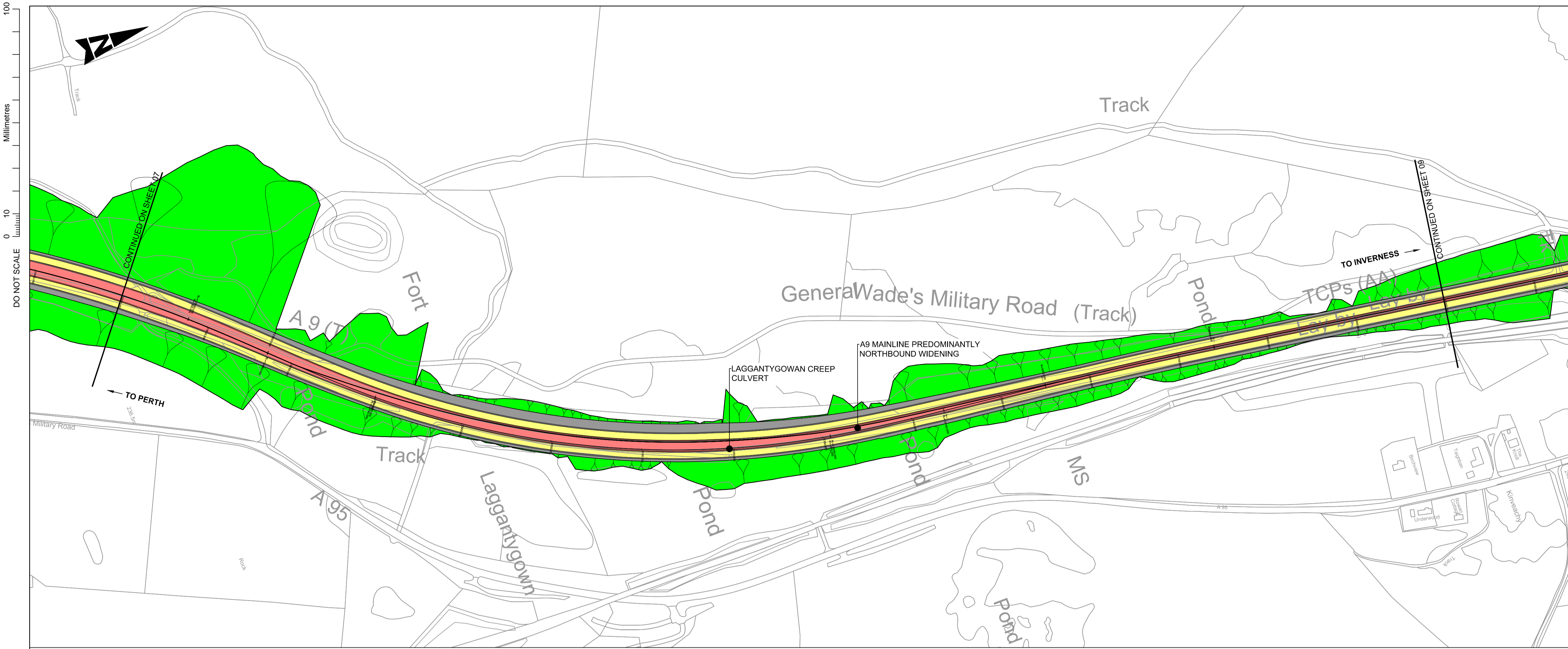


**FIGURE 5.3
MAINLINE OPTION 2 PLAN AND PROFILE
SHEET 7 OF 17**

Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CO	IM	EM	CM
Original Size	Date	Date	Date	Date
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Drawing Number	Project	Originator	Volume	Revision
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F_ML000_ZZ - DR - RD - 0007				
Location	Type	Role	Number	

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Plan
Scale - 1:2500

- NOTES:**
1. ALL DESIGN WORKS ARE IN ACCORDANCE THE DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB) FOR A CATEGORY 7A DUAL CARRIAGEWAY.
 2. THE NEW A9 MAINLINE IS DESIGNED TO A DESIGN SPEED OF 120AKPH IN THE LINE WITH THE REQUIREMENTS OF TD 9/93: HIGHWAY LINK DESIGN.
 3. THE NEW A9 MAINLINE CARRIAGEWAY IS DESIGNED IN LINE WITH THE REQUIREMENTS OF TD 27/05: CROSS-SECTIONS AND HEADROOMS.
 4. EARTHWORKS FOR MAINLINE OPTIONS ARE SHOWN AT NOMINAL 1V:3H INCLINE WITH APPLICATION OF VARYING GRADIENT. COMMON ACROSS ALL OPTIONS TO TAKE DUE CONSIDERATION OF LANDSCAPE 'FIT' WHERE OTHER CONSTRAINTS DO NOT PRESENT LIMITATION.
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 7. SOUTHBOUND WIDENING: THE EXISTING A9 CARRIAGEWAY FORMS THE NEW D2AP NORTHBOUND CARRIAGEWAY. ADJUSTMENTS TO THE EXISTING CARRIAGEWAY ARE REQUIRED TO MEET CROSS SECTIONAL AND GEOMETRICAL REQUIREMENTS.
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KEY:

	DESIGN FRL
	EXISTING FRL
	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE

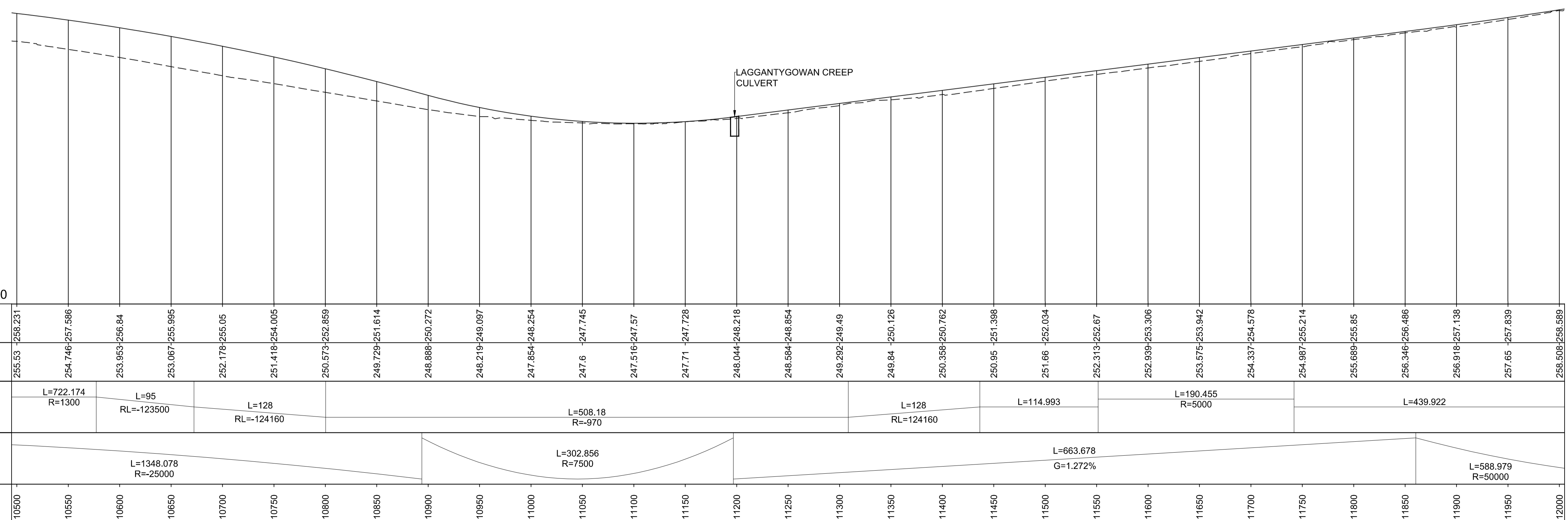
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FIRST ISSUE				
P02	CO	IM	EM	29/03/17
FINAL ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B



Drawing Title

FIGURE 5.3
MAINLINE OPTION 2 PLAN AND PROFILE
SHEET 8 OF 17

Scale	AS SHOWN	Designed / Drawn	CO	Checked	IM	Approved	EM	Authorised	CM
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A9P11 - AMJ - HML -			F_ML000_ZZ - DR - RD - 0008			P02			
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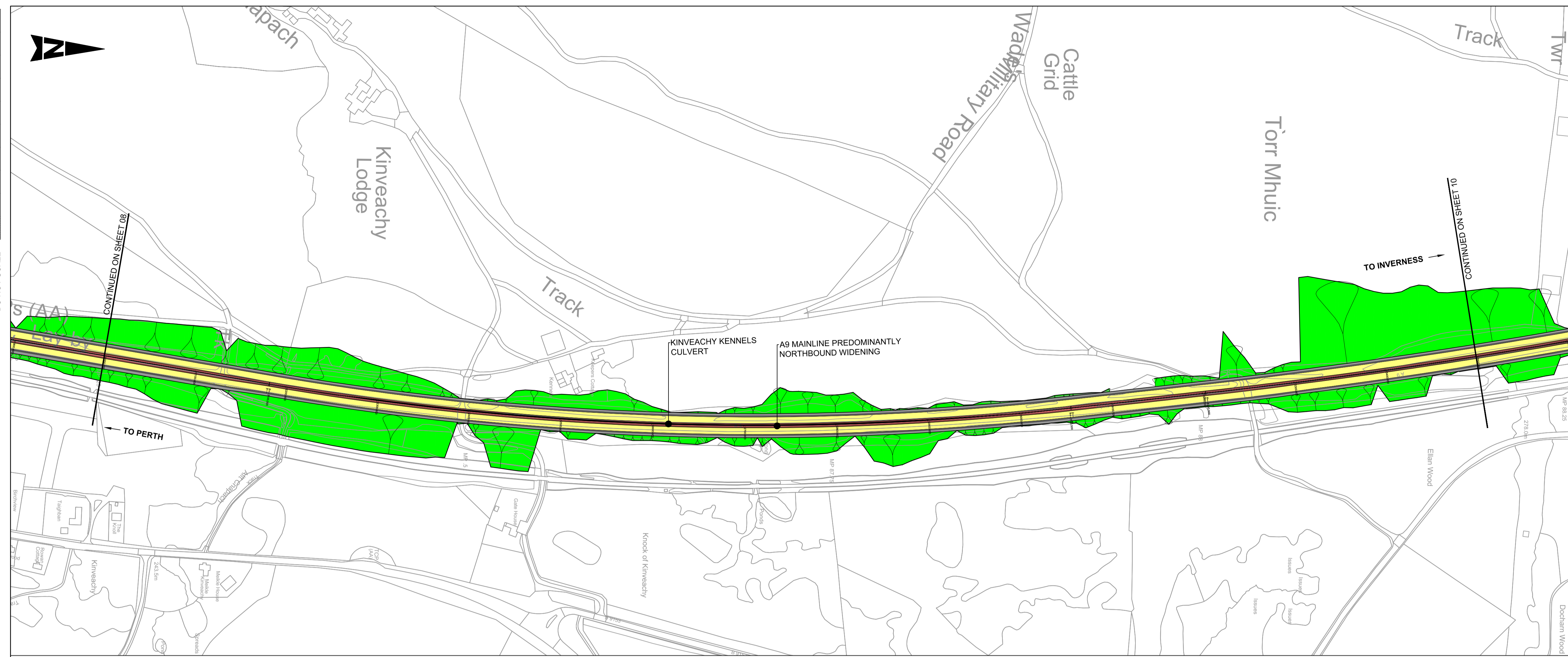


Horizontal Scale - 1:2500, Vertical Scale - 1:250

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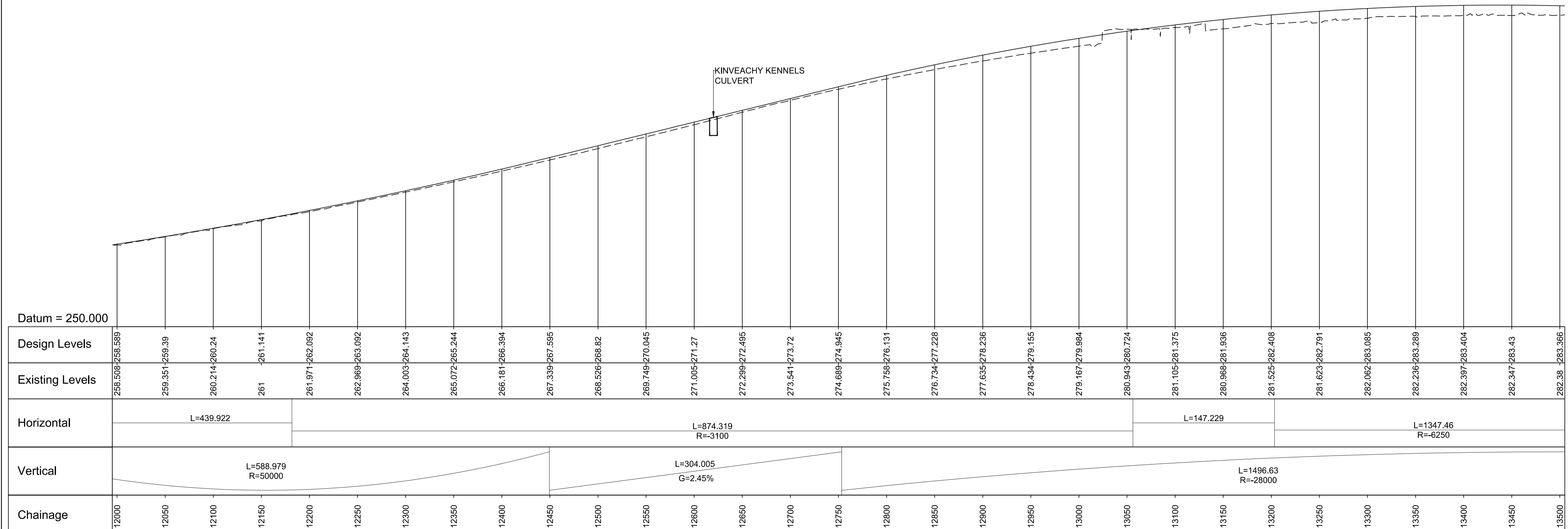
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DO NOT SCALE



Plan
Scale - 1:2500

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- KEY:**
- DESIGN FRL
 - - - EXISTING FRL
 - EARTHWORKS
 - VERGE
 - CARRIAGEWAY
 - CENTRAL RESERVE



Datum = 250.000

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12000	256.508/256.569	259.351/259.39	L=439.922	L=588.979 R=50000
12050	260.214/260.24	261		
12100	261.971/262.092	262.969/263.092	L=874.319 R=3100	L=304.005 G=2.45%
12150	264.003/264.143	265.072/265.244		
12200	266.181/266.394	267.339/267.595	L=147.229	L=1496.63 R=28000
12250	268.526/268.82	271.005/271.27		
12300	269.749/270.045	272.299/272.495	L=1347.46 R=6250	
12350	273.541/273.72	274.689/274.945		
12400	275.759/276.131	276.734/277.228		
12450	277.635/278.236	278.434/279.155		
12500	279.167/279.984	280.943/280.724		
12550	281.105/281.375	281.525/282.408		
12600	280.969/281.936	281.623/282.791		
12650	281.525/282.408	282.062/283.085		
12700	282.236/283.289	282.397/283.404		
12750	282.347/283.43	282.38/-283.366		

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Horizontal Scale - 1:2500, Vertical Scale - 1:250

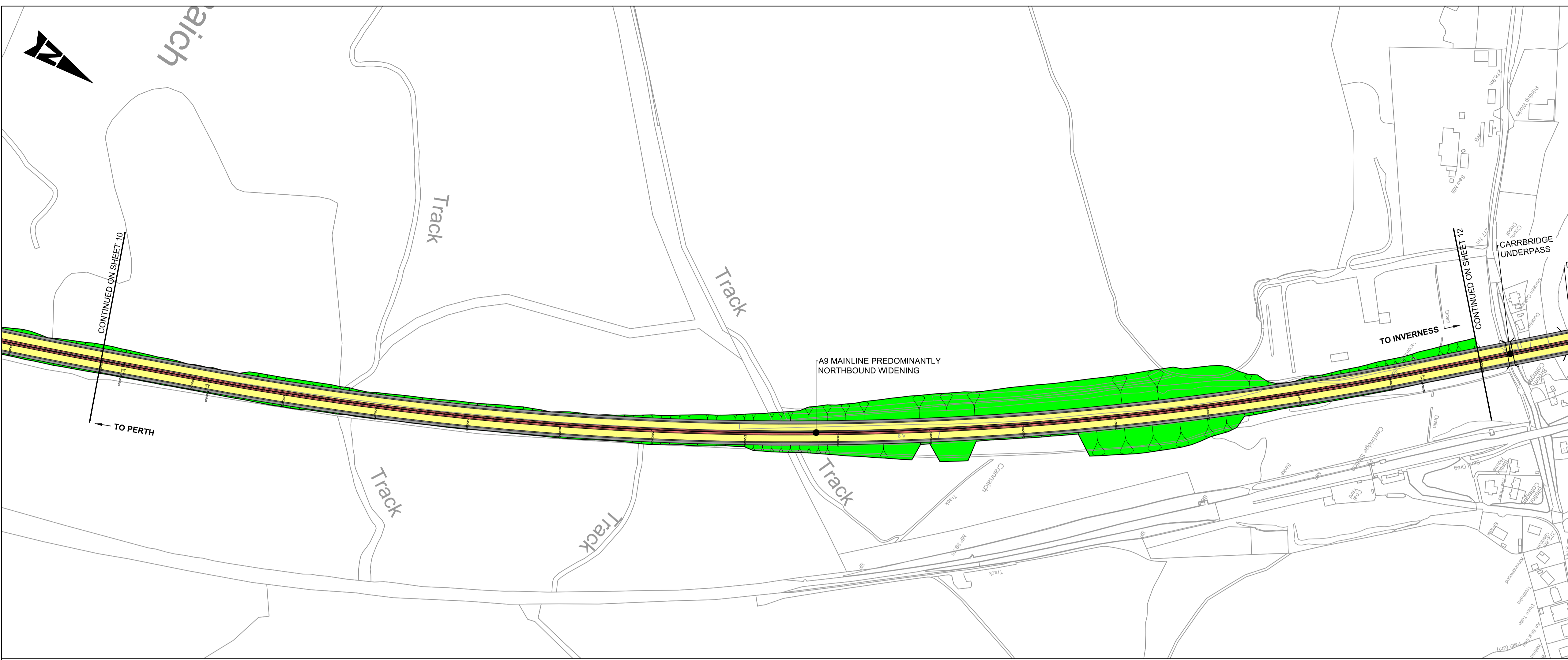
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FIRST ISSUE				
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FINAL ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B



Drawing Title					
FIGURE 5.3 MAINLINE OPTION 2 PLAN AND PROFILE SHEET 9 OF 17					
Scale	Designed / Drawn	Checked	Approved	Authorised	
AS SHOWN	CO	IM	EM	CM	
Original Size	Date	Date	Date	Date	
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Location	Type	Role	Number		

Plotted: Mar 29, 2017 - 10:38am by: CONELL

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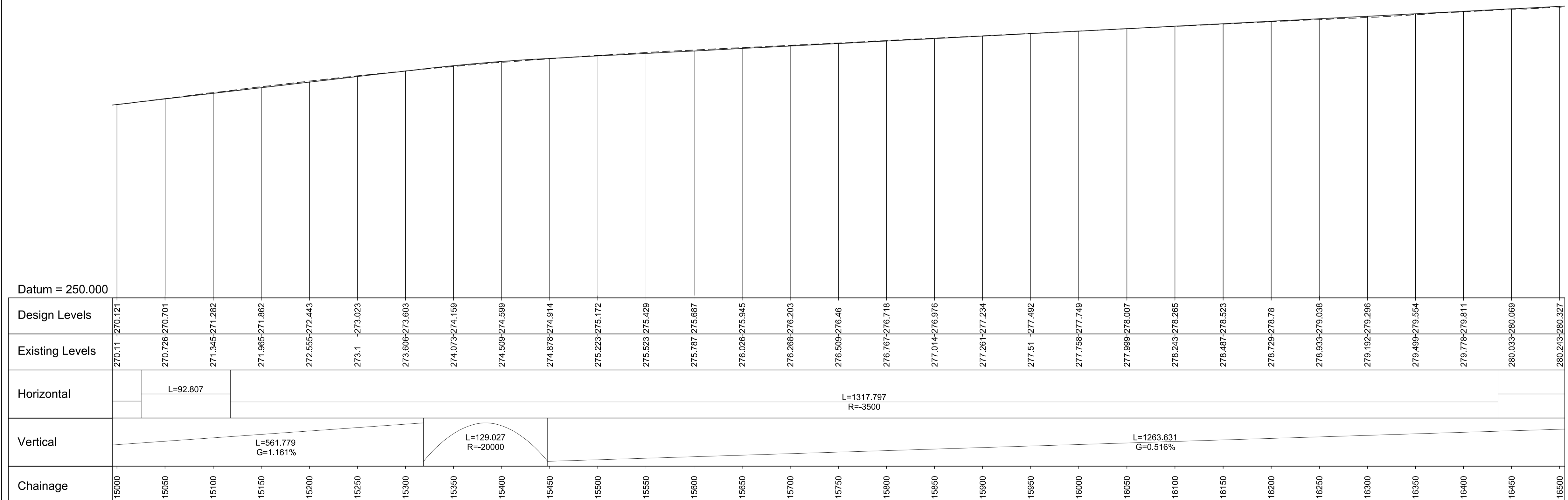


Plan
Scale - 1:2500

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KEY:

	DESIGN FRL
	EXISTING FRL
	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE



Horizontal Scale - 1:2500, Vertical Scale - 1:250

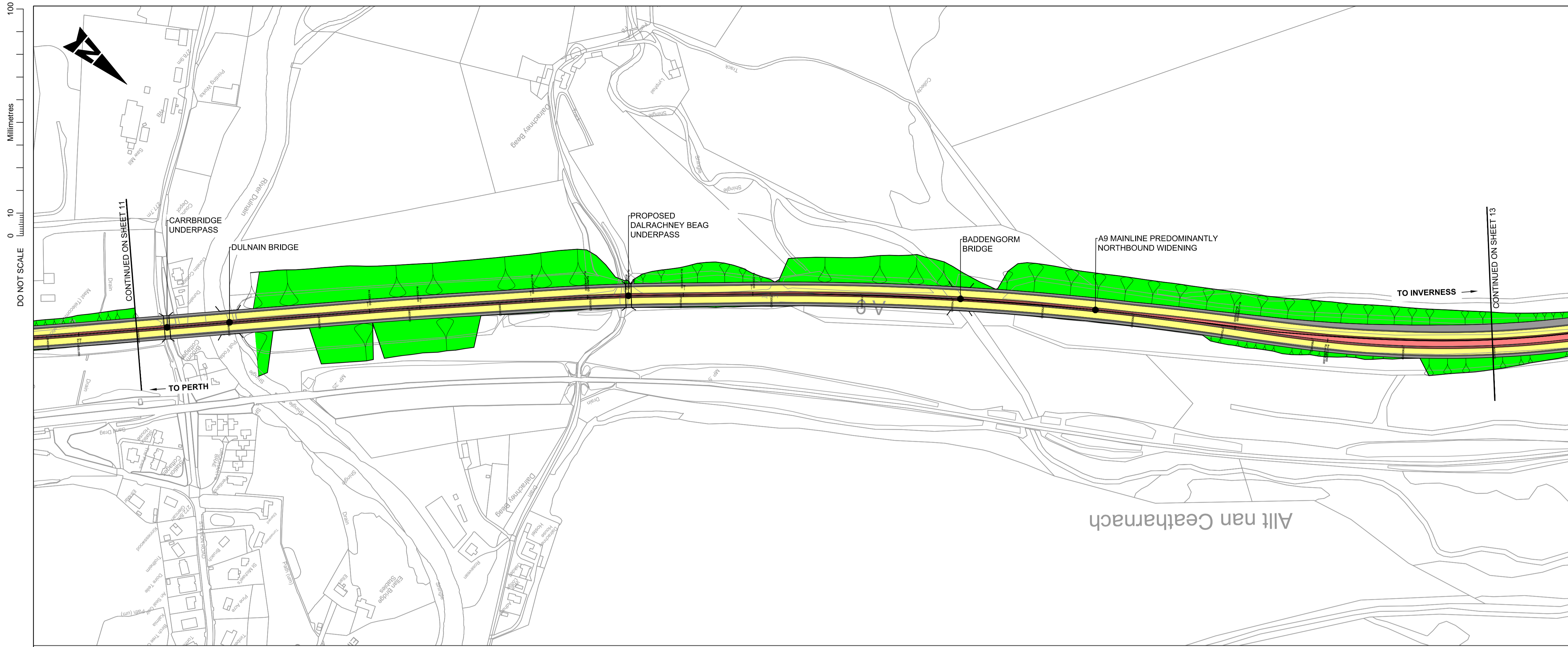
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FIRST ISSUE				
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FINAL ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B



Drawing Title					
FIGURE 5.3 MAINLINE OPTION 2 PLAN AND PROFILE SHEET 11 OF 17					
Scale	Designed / Drawn	Checked	Approved	Authorised	
AS SHOWN	CO	IM	EM	CM	
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Location	Type	Role	Number		

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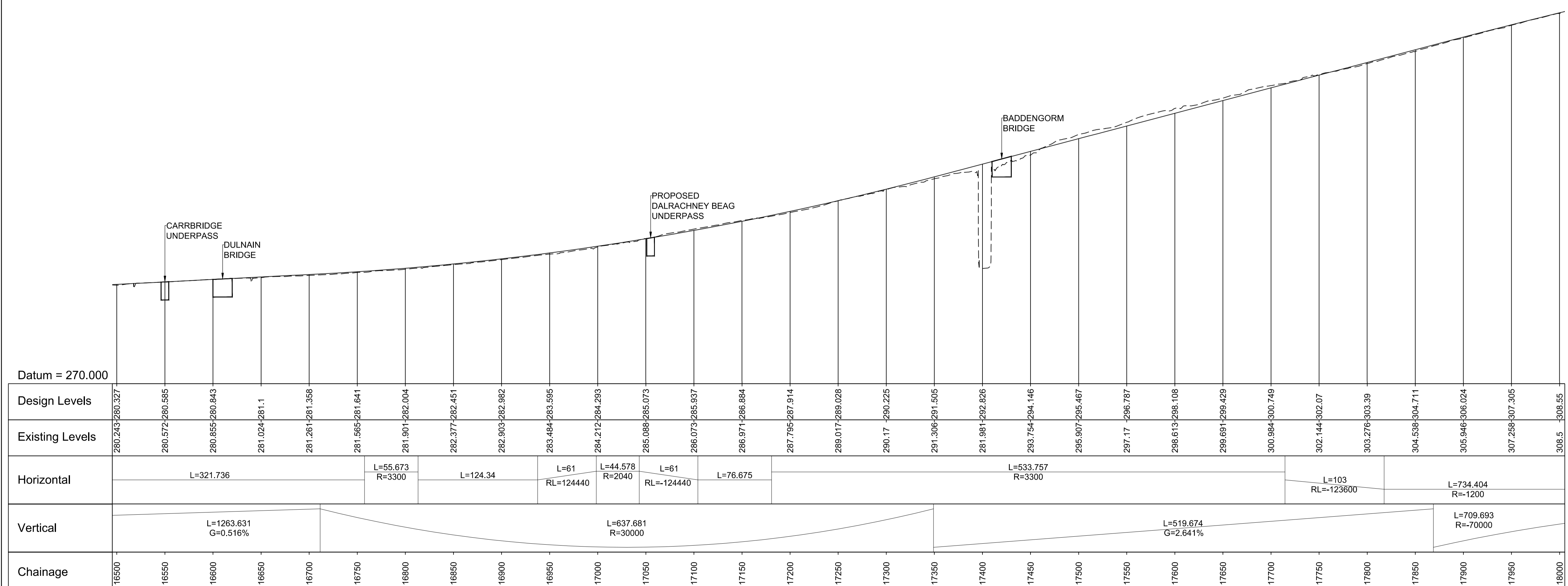


Plan
Scale - 1:2500

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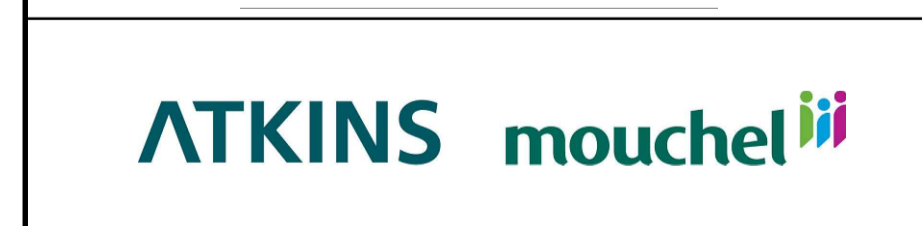
KEY:

	DESIGN FRL
	EXISTING FRL
	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE



Horizontal Scale - 1:2500, Vertical Scale - 1:250

P01	SN	IM	MD	05/08/16
FIRST ISSUE				
P02	CO	IM	EM	29/03/17
FINAL ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
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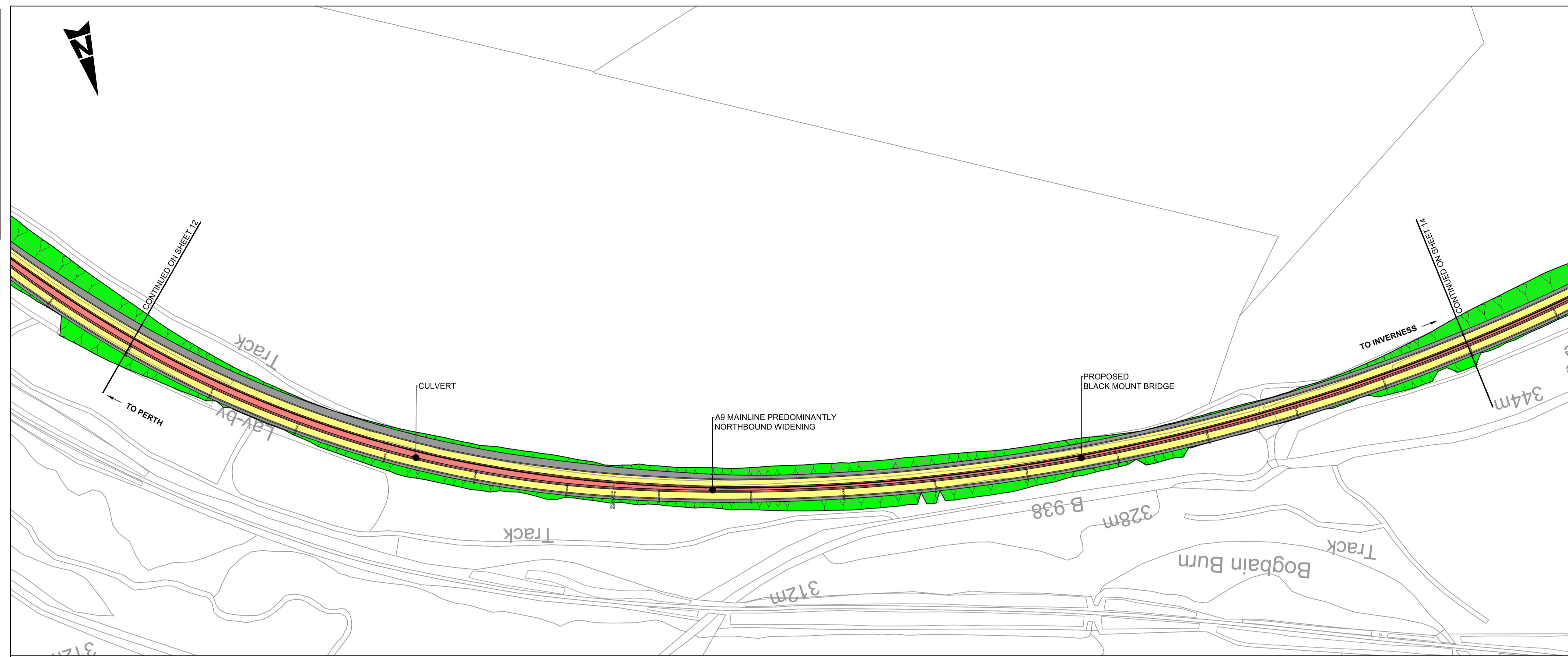


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FIGURE 5.3 MAINLINE OPTION 2 PLAN AND PROFILE SHEET 12 OF 17					
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Location	Type	Role	Number		

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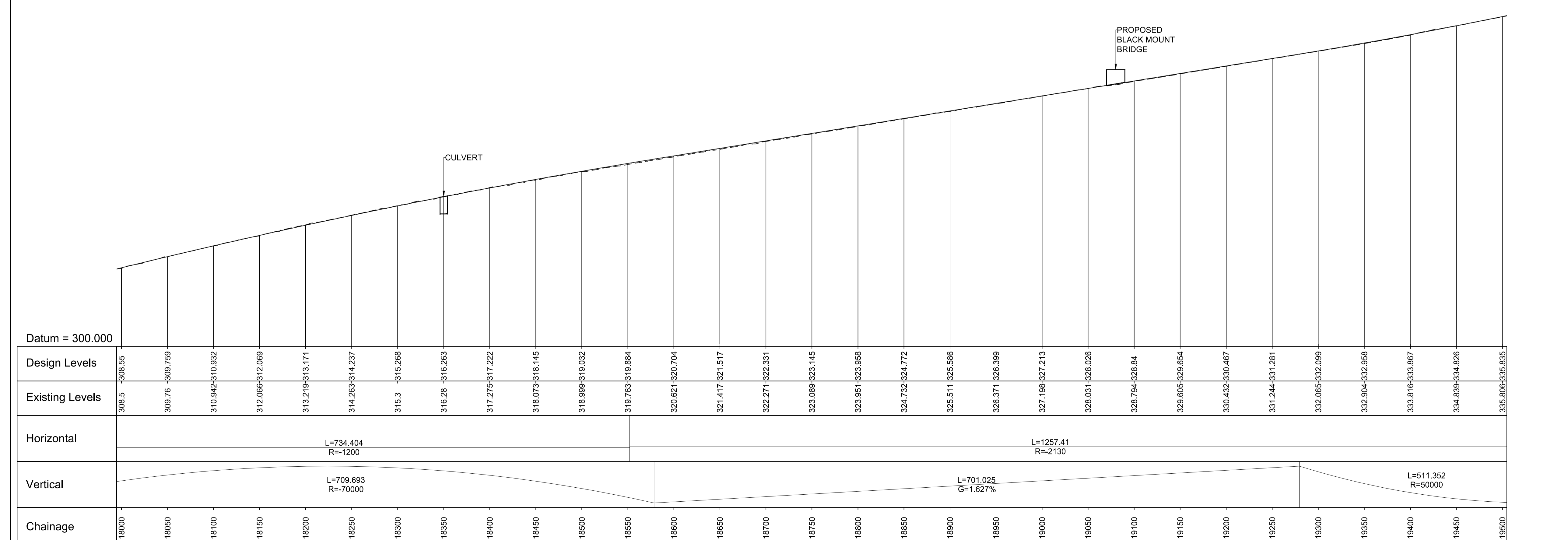


Plan
Scale - 1:2500

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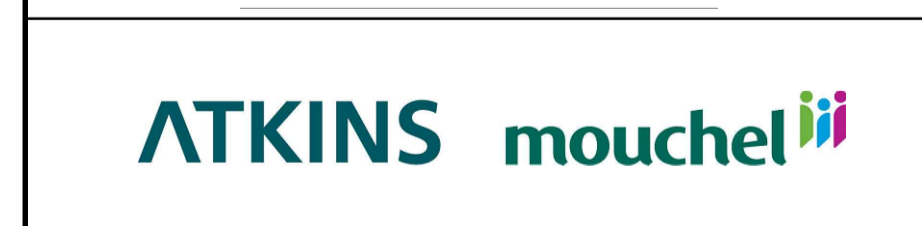
KEY:

	DESIGN FRL
	EXISTING FRL
	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE



Horizontal Scale - 1:2500, Vertical Scale - 1:250

P01	SN	IM	MD	05/08/16
FIRST ISSUE				
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FINAL ISSUE				
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FINAL				B

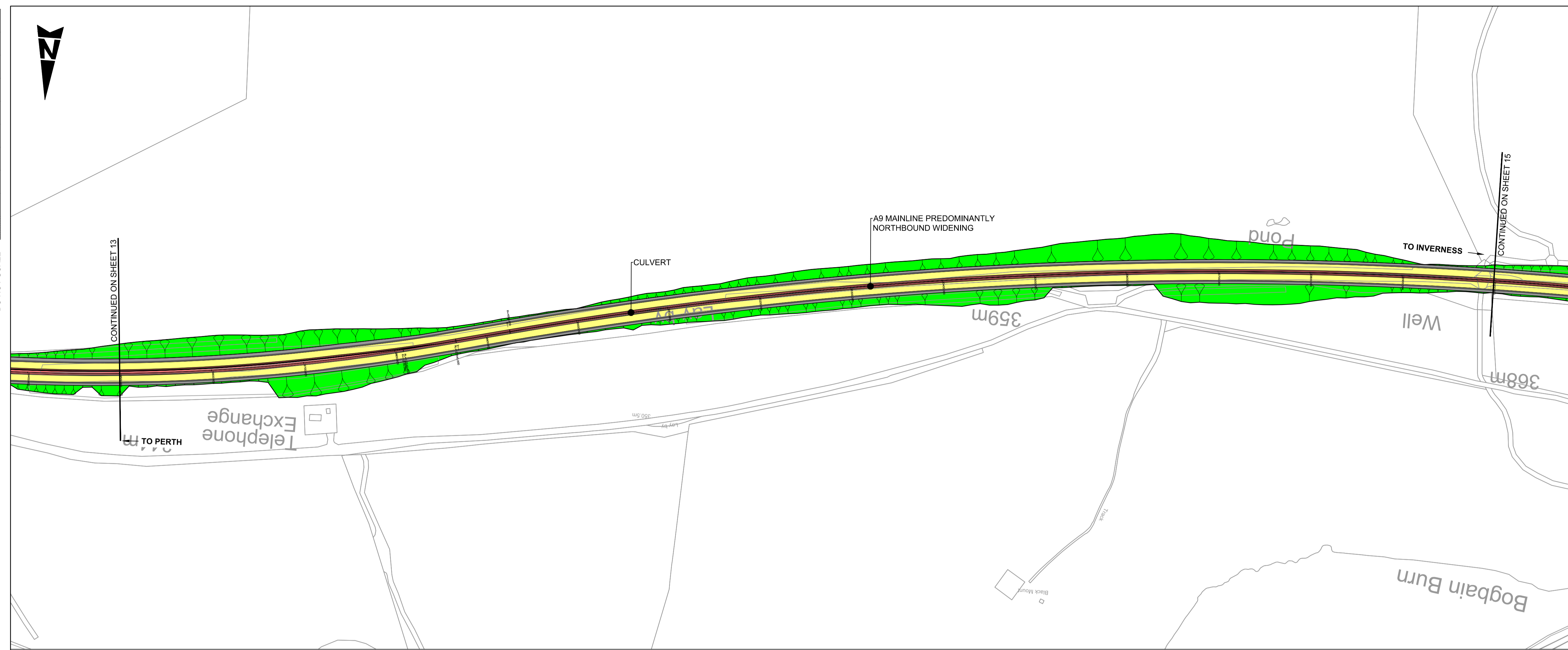


Drawing Title					
FIGURE 5.3 MAINLINE OPTION 2 PLAN AND PROFILE SHEET 13 OF 17					
Scale	Designed / Drawn	Checked	Approved	Authorised	
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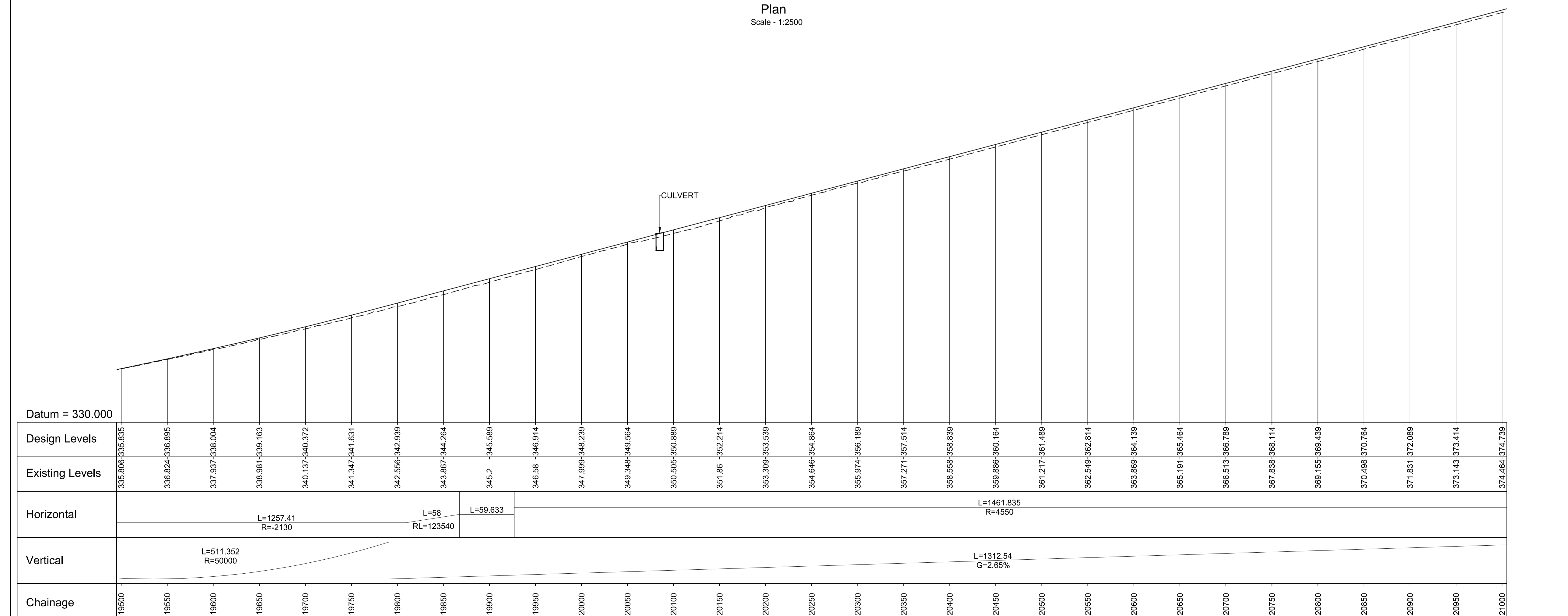
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DO NOT SCALE



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KEY:

	DESIGN FRL
	EXISTING FRL
	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE



Horizontal	Vertical
<p>L=1257.41 R=2130</p> <p>L=58 RL=123540</p> <p>L=59.633</p> <p>L=1461.835 R=4550</p>	<p>L=511.352 R=50000</p> <p>L=1312.54 G=2.65%</p>

Horizontal Scale - 1:2500, Vertical Scale - 1:250

P01	SN	IM	MD	05/08/16
FIRST ISSUE				
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FINAL ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
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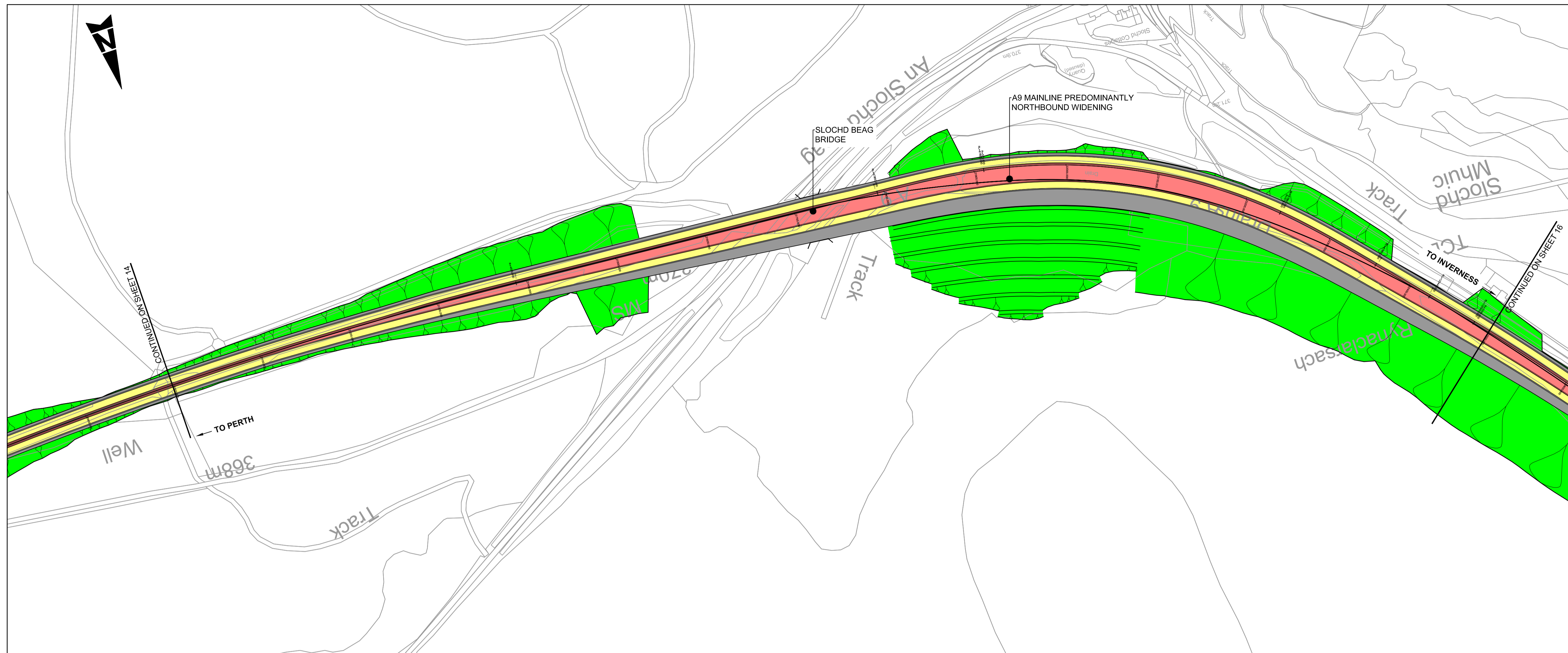


Drawing Title					
FIGURE 5.3 MAINLINE OPTION 2 PLAN AND PROFILE SHEET 14 OF 17					
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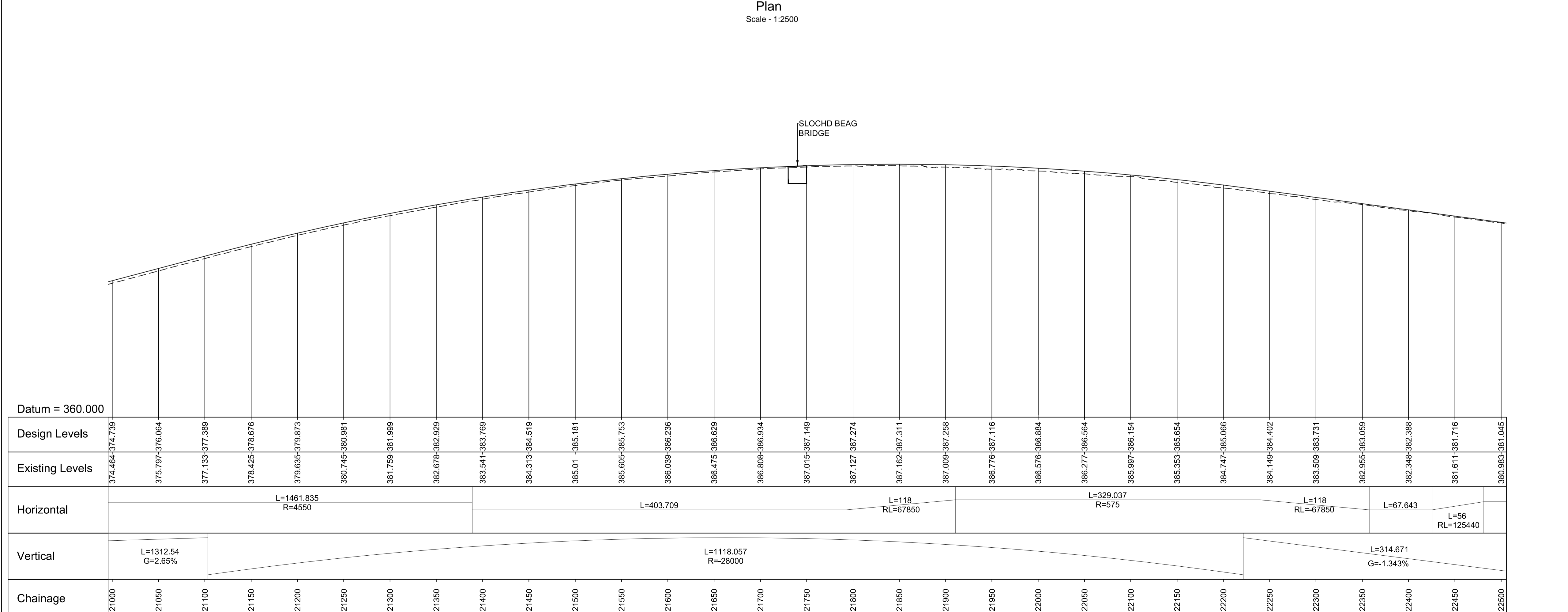


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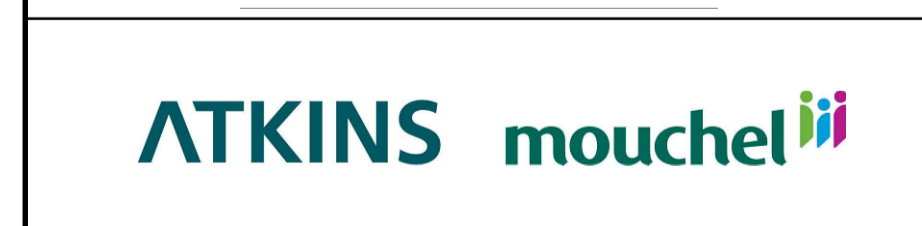
	DESIGN FRL
	EXISTING FRL
	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE



Chainage	21000	21050	21100	21150	21200	21250	21300	21350	21400	21450	21500	21550	21600	21650	21700	21750	21800	21850	21900	21950	22000	22050	22100	22150	22200	22250	22300	22350	22400	22450	22500																													
Datum = 360.000																																																												
Design Levels	374.464	374.739																																																										
Existing Levels	375.797	376.064	377.133	377.389	378.425	378.676	379.635	379.873	380.745	380.981	381.759	381.999	382.676	382.929	383.541	383.769	384.313	384.519	385.01	385.181	385.605	385.753	386.039	386.236	386.475	386.629	386.806	386.934	387.015	387.149	387.127	387.274	387.162	387.311	387.009	387.258	386.776	387.116	386.576	386.884	386.277	386.564	385.997	386.154	385.353	385.654	384.747	385.066	384.149	384.402	383.509	383.731	382.955	383.059	382.346	382.388	381.611	381.716	380.983	381.045
Horizontal	L=1461.835 R=4550				L=403.709				L=118 RL=67850				L=329.037 R=575				L=118 RL=67850				L=67.643		L=56 RL=125440																																					
Vertical	L=1312.54 G=2.65%												L=1118.057 R=28000										L=314.671 G=-1.343%																																					

Horizontal Scale - 1:2500, Vertical Scale - 1:250

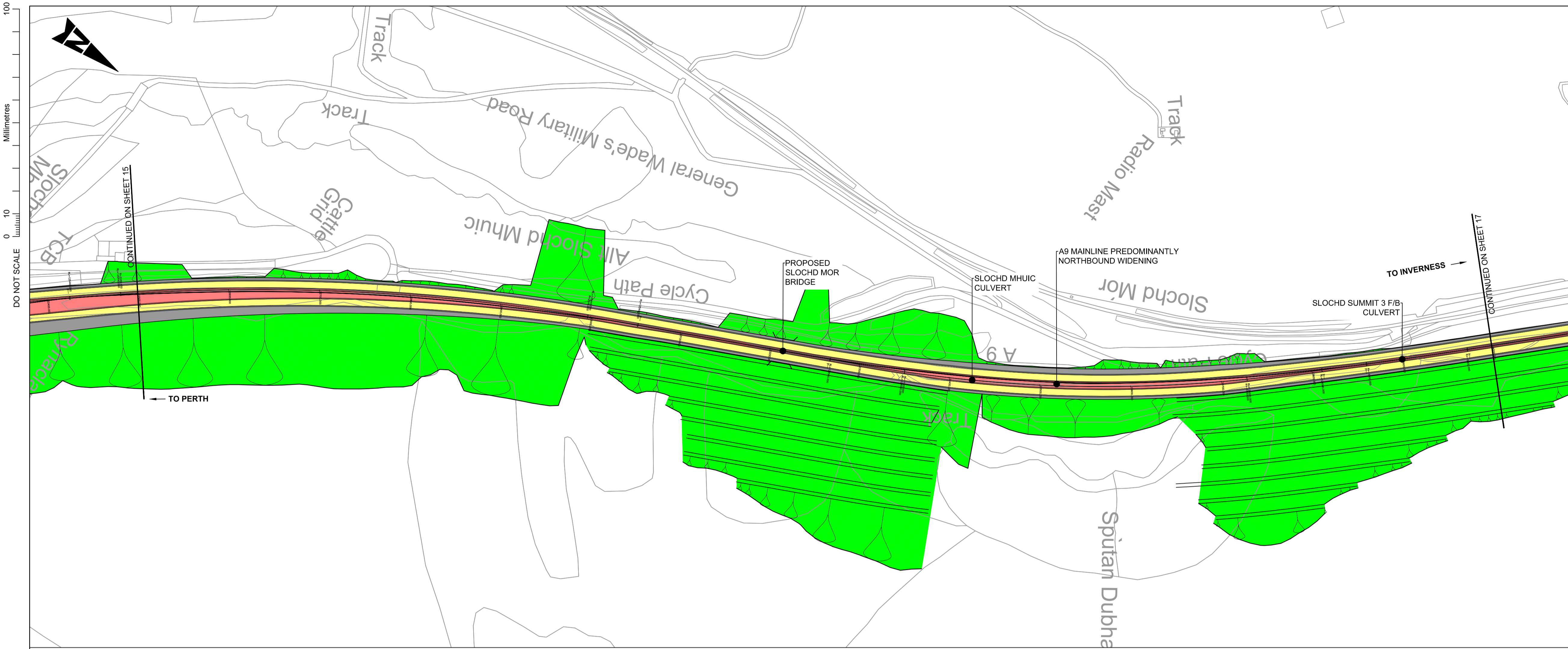
P01	SN	IM	MD	05/08/16
FIRST ISSUE				
P02	CO	IM	EM	29/03/17
FINAL ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Subtality
FINAL				B



Drawing Title					
FIGURE 5.3 MAINLINE OPTION 2 PLAN AND PROFILE SHEET 15 OF 17					
Scale	Designed / Drawn	Checked	Approved	Authorised	
AS SHOWN	CO	IM	EM	CM	
Original Size	Date	Date	Date	Date	
A1	28/03/17	29/03/17	29/03/17	29/03/17	
Drawing Number	Project	Originator	Volume	Revision	
	A9P11 - AMJ - HML -			P02	
	F_FL000_ZZ - DR - RD - 0015				
Location	Type	Role	Number		

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Plan
Scale - 1:2500

- NOTES:**
- ALL DESIGN WORKS ARE IN ACCORDANCE THE DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB) FOR A CATEGORY 7A DUAL CARRIAGEWAY.
 - THE NEW A9 MAINLINE IS DESIGNED TO A DESIGN SPEED OF 120AKPH IN THE LINE WITH THE REQUIREMENTS OF TD 9/93: HIGHWAY LINK DESIGN.
 - THE NEW A9 MAINLINE CARRIAGEWAY IS DESIGNED IN LINE WITH THE REQUIREMENTS OF TD 27/05: CROSS-SECTIONS AND HEADROOMS.
 - EARTHWORKS FOR MAINLINE OPTIONS ARE SHOWN AT NOMINAL 1V:3H INCLINE WITH APPLICATION OF VARYING GRADIENT. COMMON ACROSS ALL OPTIONS TO TAKE DUE CONSIDERATION OF LANDSCAPE 'FIT' WHERE OTHER CONSTRAINTS DO NOT PRESENT LIMITATION.
 - VERGE AND CENTRAL RESERVE WIDENED FOR VISIBILITY PURPOSES AND ARE SUBJECT TO REFINEMENT DEPENDANT ON PROMOTED JUNCTION LOCATIONS.
 - HORIZONTAL AND VERTICAL ALIGNMENT ILLUSTRATED SHOULD NOT BE CONSIDERED EXHAUSTIVE.
 - SOUTHBOUND WIDENING: THE EXISTING A9 CARRIAGEWAY FORMS THE NEW D2AP NORTHBOUND CARRIAGEWAY. ADJUSTMENTS TO THE EXISTING CARRIAGEWAY ARE REQUIRED TO MEET CROSS SECTIONAL AND GEOMETRICAL REQUIREMENTS.
 - NORTHBOUND WIDENING: THE EXISTING A9 CARRIAGEWAY FORMS THE NEW D2AP SOUTHBOUND CARRIAGEWAY. ADJUSTMENTS TO THE EXISTING CARRIAGEWAY ARE REQUIRED TO MEET CROSS SECTIONAL AND GEOMETRICAL REQUIREMENTS.

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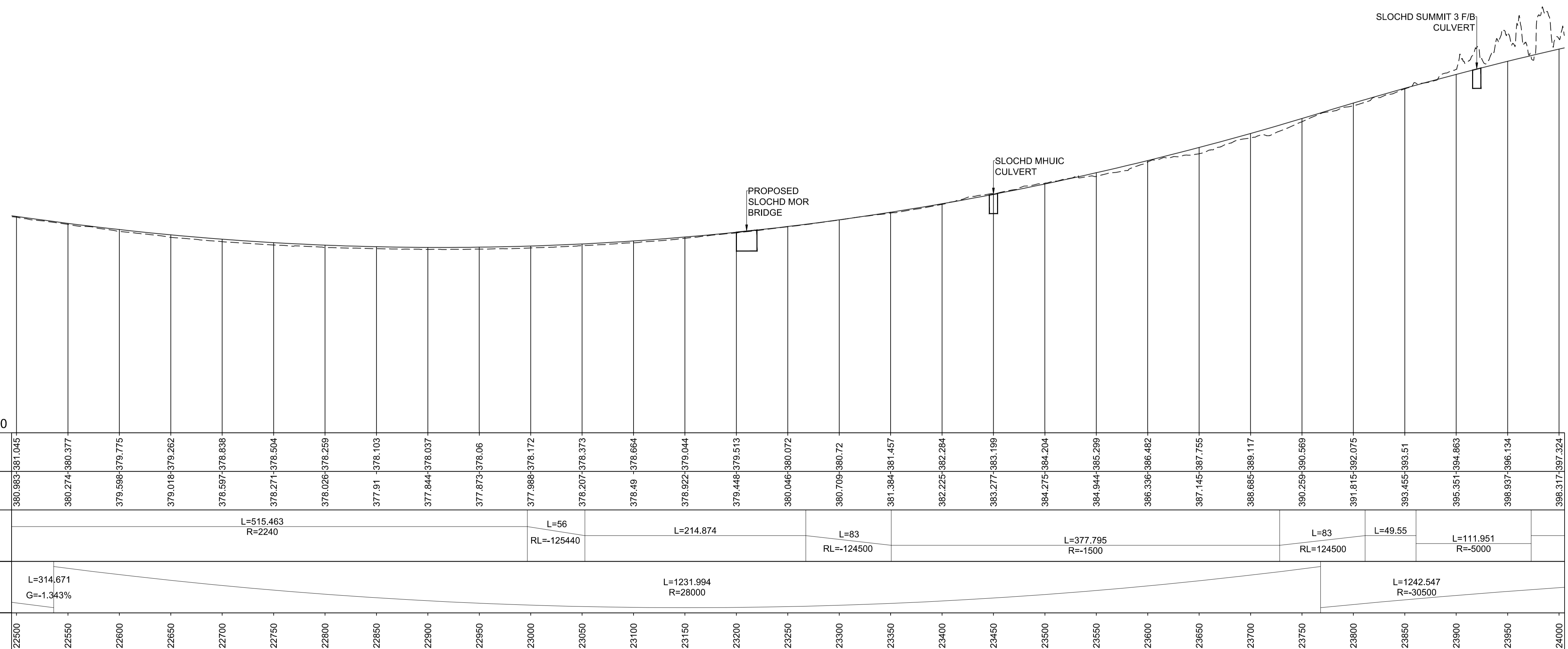
	DESIGN FRL
	EXISTING FRL
	EARTHWORKS
	VERGE
	CARRIAGEWAY
	CENTRAL RESERVE

P01	SN	IM	MD	05/08/16
FIRST ISSUE				
P02	CO	IM	EM	29/03/17
FINAL ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B



**FIGURE 5.3
MAINLINE OPTION 2 PLAN AND PROFILE
SHEET 16 OF 17**

Scale	AS SHOWN	Designed / Drawn	CO	Checked	IM	Approved	EM	Authorised	CM
Original Size	A1	Date	28/03/17	Date	29/03/17	Date	29/03/17	Date	29/03/17
Drawing Number	Project		Originator		Volume		Revision		
A9P11 - AMJ - HML -			F_ML000_ZZ - DR - RD - 0016			P02			
Location	Type	Role	Number						

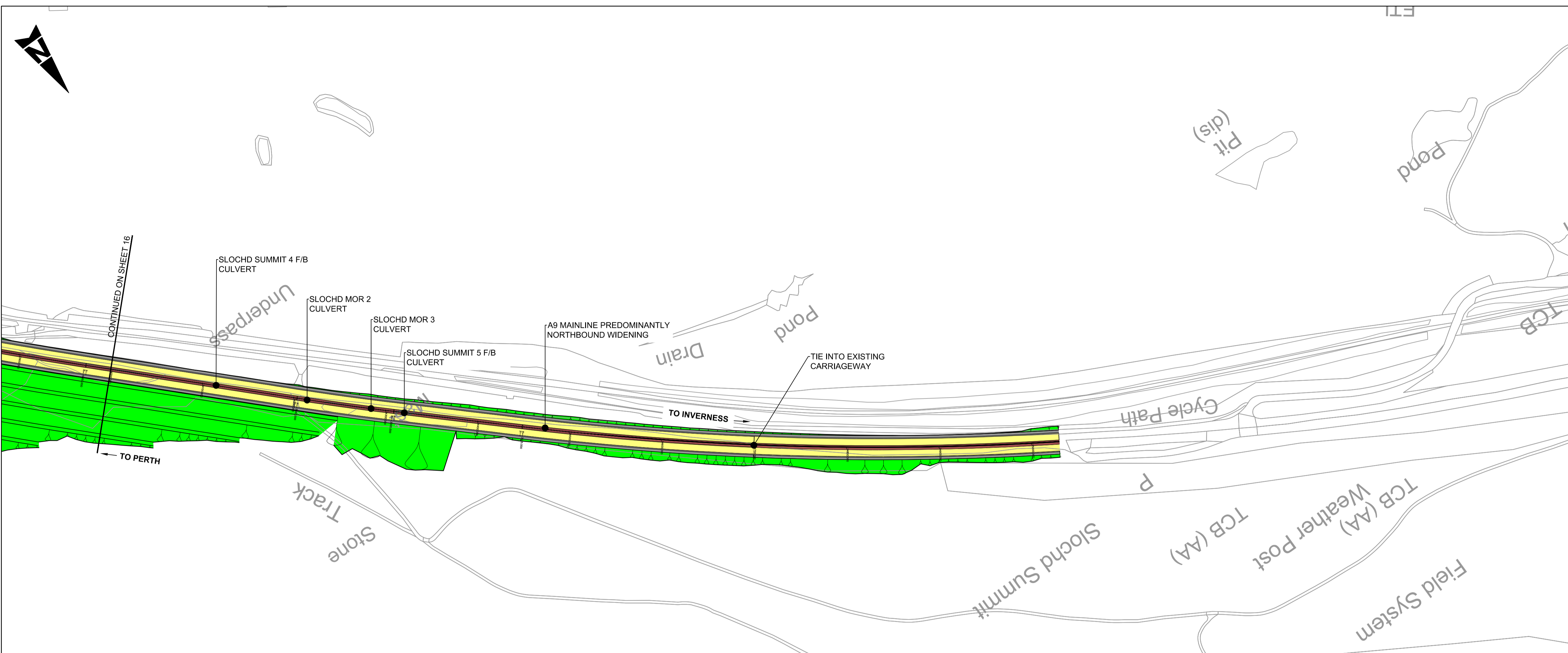


Horizontal Scale - 1:2500, Vertical Scale - 1:250

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100
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Millimetres
DO NOT SCALE

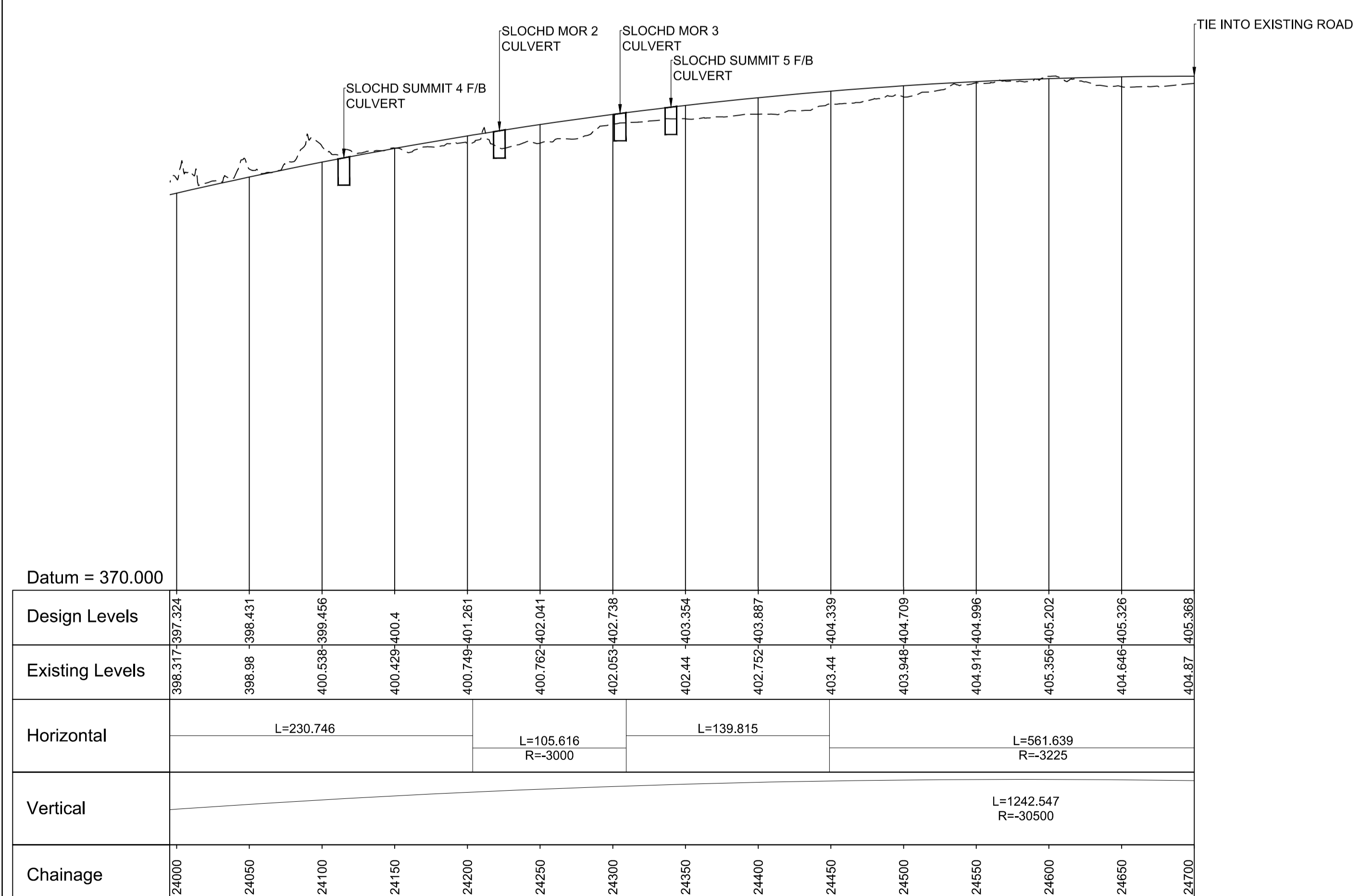


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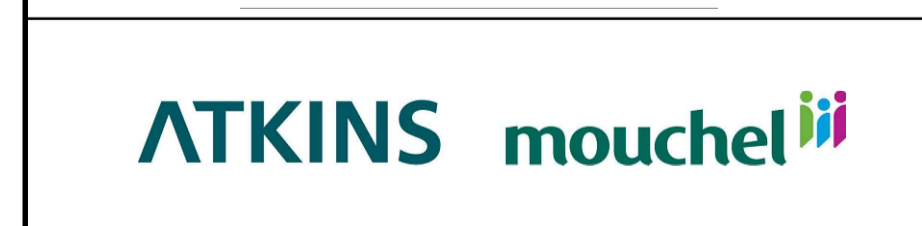
- DESIGN FRL
- - - EXISTING FRL
- EARTHWORKS
- VERGE
- CARRIAGEWAY
- CENTRAL RESERVE

Plan
Scale - 1:2500



Horizontal Scale - 1:2500, Vertical Scale - 1:250

P01	SN	IM	MD	05/08/16
FIRST ISSUE				
P02	CO	IM	EM	29/03/17
FINAL ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B



Drawing Title				
FIGURE 5.3 MAINLINE OPTION 2 PLAN AND PROFILE SHEET 17 OF 17				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CO	IM	EM	CM
Original Size	Date	Date	Date	Date
A1	28/03/17	29/03/17	29/03/17	29/03/17
Drawing Number	Project	Originator	Volume	Revision
	A9P11 - AMJ - HML -			P02
	F_ML000_ZZ - DR - RD - 0017			
Location	Type	Role	Number	

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