

DRAWING NUMBER	DRAWING TITLE
R-001	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PROPOSED DESIGNATION & INDICATIVE ALIGNMENT NOTES AND LEGEND - SHEET 1 OF 1
R-100	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET LAYOUT (1:5000) - SHEET 1 OF 1
R-101	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 1 OF 9
R-102	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 2 OF 9
R-103	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 3 OF 9
R-104	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 4 OF 9
R-105	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 5 OF 9
R-106	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 6 OF 9
R-107	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 7 OF 9
R-108	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 8 OF 9
R-109	PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN - SHEET 9 OF 9
R-130	SOUTHBOUND ALIGNMENT MCS0 - SHEET LAYOUT PLAN (1:5000) - SHEET 1 OF 1
R-131	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONG SECTION - SHEET 1 OF 9
R-132	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONG SECTION - SHEET 2 OF 9
R-133	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONG SECTION - SHEET 3 OF 9
R-134	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONG SECTION - SHEET 4 OF 9
R-135	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONG SECTION - SHEET 5 OF 9
R-136	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONG SECTION - SHEET 6 OF 9
R-137	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONG SECTION - SHEET 7 OF 9
R-138	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONG SECTION - SHEET 8 OF 9
R-139	SOUTHBOUND ALIGNMENT MCS0 - PLAN AND LONG SECTION - SHEET 9 OF 9
R-181	TYPICAL CROSS SECTIONS - SHEET 1 OF 2
R-182	TYPICAL CROSS SECTIONS - SHEET 2 OF 2

### LEGEND

**ROAD PLAN - INDICATIVE ALIGNMENT**

PROPOSED DESIGNATION BOUNDARY

MAIN ALIGNMENT CONTROL STRING AND CHAINAGE

LOCAL ROADS AND INTERCHANGES CONTROL STRING AND CHAINAGE

FILL SLOPES  
ROAD ALIGNMENT  
CUT SLOPE  
CUT SLOPE WITH BENCH

BRIDGE / VIADUCT / OVERPASS STRUCTURE

TUNNEL STRUCTURE

POTENTIAL SOIL DISPOSAL SITE

RETAINING STRUCTURE

**EXISTING FEATURES**

STATE HIGHWAY

P2WK EARTHWORKS FOOTPRINT & ALIGNMENT

P2WK DESIGNATION BOUNDARY

EXISTING SH1 DESIGNATION

RIVER / STREAM / WATERCOURSE

PROPERTY BOUNDARIES

CONTOURS (10m INTERVALS)

NORTH AUCKLAND RAIL LINE

**SERVICES**

FIRST GAS 160mm DIA MEDIUM PRESSURE MAIN

FIRST GAS 50mm DIA HIGH PRESSURE MAIN

REFINING NZ FUELS 200mm DIA LINE & FIRST GAS 240mm DIA HIGH PRESSURE GAS MAIN WITHIN DESIGNATION

TRANSPOWER 110kV TRANSMISSION LINE

WATERCARE WATERMAIN

110 KV TRANSMISSION LINE TOWER

110 KV TRANSMISSION LINE INTERMEDIATE POLE

### GENERAL NOTES

1. THE ALIGNMENT IS INDICATIVE ONLY.
2. ALL MEASUREMENTS ARE IN METRES UNLESS OTHERWISE STATED.
3. ALL NAMED ROADS SHALL BE ASSUMED TO BE PUBLIC UNLESS STATED OTHERWISE.
4. AERIAL IMAGE FROM AUCKLAND COUNCIL AERIAL SURVEY, 2012.
5. DIGITAL TERRAIN MODEL IS COMBINED FROM AERIAL SURVEY (AUG 2010) & AUCKLAND COUNCIL LIDAR DATA TO NZTM PROJECTION.
6. EXISTING PROPERTY BOUNDARIES SOURCED FROM LINZ, MARCH 2017 UPDATE.
7. ALL STREAMS WILL BE BRIDGED, CULVERTED AND/OR DIVERTED. REFER SW SERIES FOR INDICATIVE CULVERTS AND DIVERSION LOCATIONS.
8. ALL SOIL DISPOSAL SITE LOCATIONS AND SHAPES ARE INDICATIVE ONLY FOR ALL DRAWINGS, AND ARE NOT LOCATED IN THE BED OF A PERMANENT OR INTERMITTENT WATERCOURSE.

### SERVICES NOTES

1. POWER DISTRIBUTION AND COMMUNICATION CABLING (i.e. VECTOR, CHORUS, SPARK, VODAFONE) ROUTES ARE NOT SHOWN. AFFECTED ASSETS WILL BE RELOCATED OR PROTECTED.
2. THE SERVICES SHOWN SHOULD BE CONSIDERED INDICATIVE ONLY AND ARE BASED ON RECORDS SUPPLIED BY THE UTILITY COMPANIES. PRIVATE SERVICES AND CONNECTIONS ARE NOT SHOWN.

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No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Checked	Approved	Date



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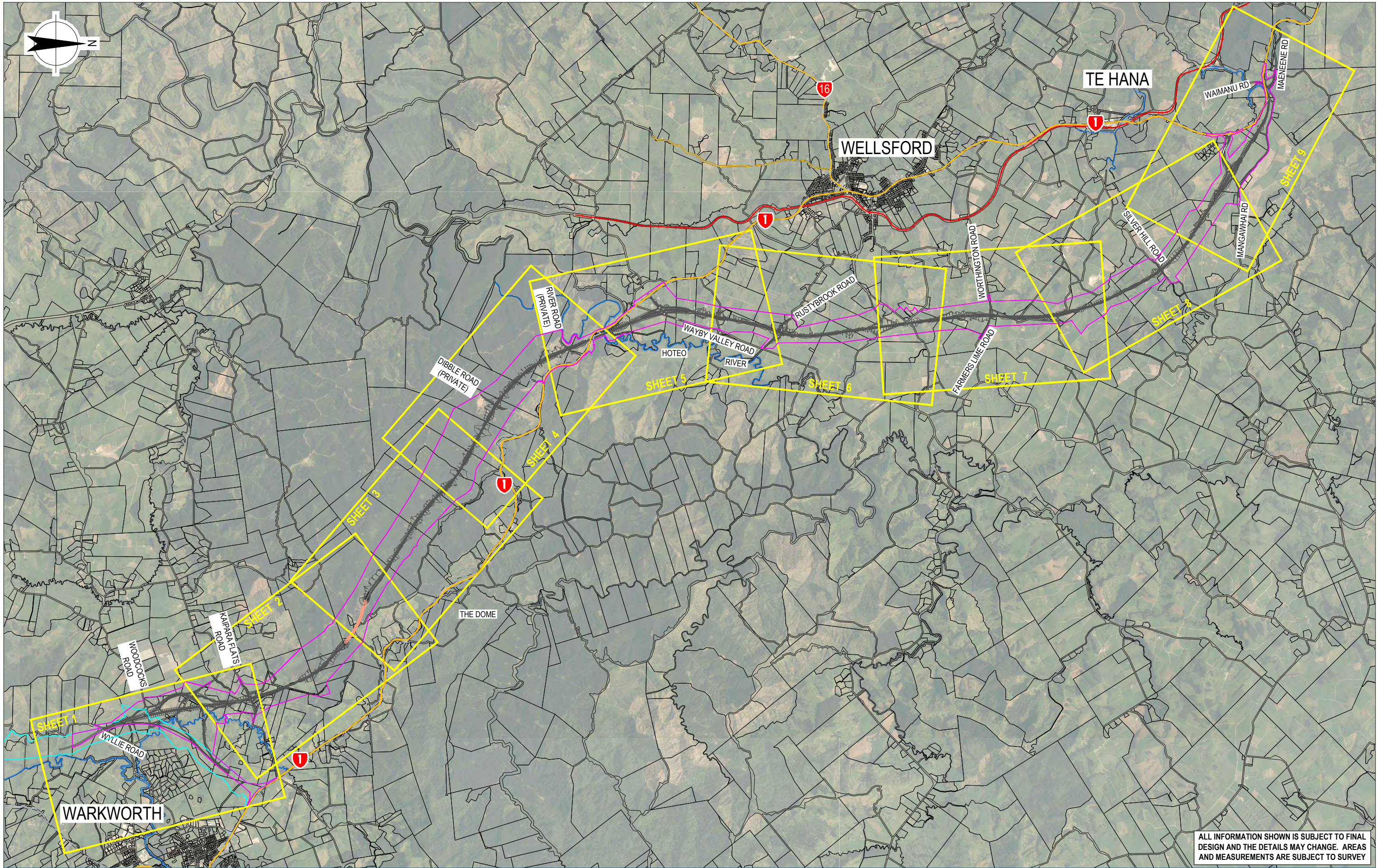
Drawn WAS	Drafting FCW*	Designed IH	Design Check FCW*
Approved BN*		Date JULY 2019	
Scale NTS		This Drawing must not be used for Construction unless signed as Approved	

Project **WARKWORTH TO WELLSFORD PROJECT**

Title **PROPOSED DESIGNATION & INDICATIVE ALIGNMENT NOTES AND LEGEND**

Contract: **PA4156** Drawing No: **R-001** Sheet: **1 OF 1** Rev: **0**





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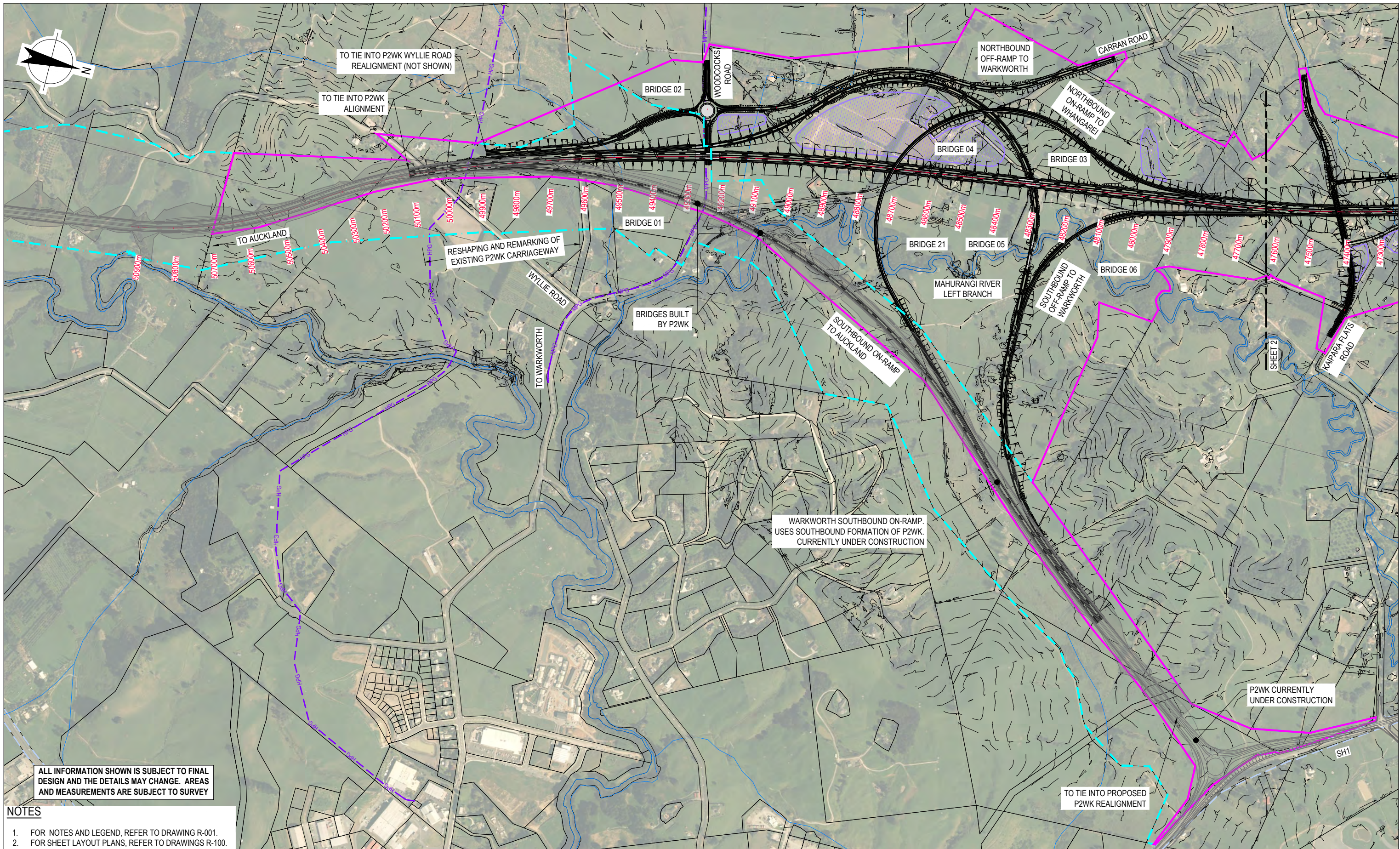


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Approved BN*	Date JULY 2019		
Scale 1:30,000-A1, 1:60,000-A3	This Drawing must not be used for Construction unless signed as Approved		Original Size <b>A1</b>

Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>			
Title	<b>PROPOSED DESIGNATION &amp; INDICATIVE ALIGNMENT PLAN - SHEET LAYOUT</b>			
Contract:	<b>PA4156</b>	Drawing No:	<b>R-100</b>	Sheet: 1 of 1
Rev:	<b>1</b>			

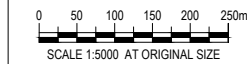




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**NOTES**

- FOR NOTES AND LEGEND, REFER TO DRAWING R-001.
- FOR SHEET LAYOUT PLANS, REFER TO DRAWINGS R-100.



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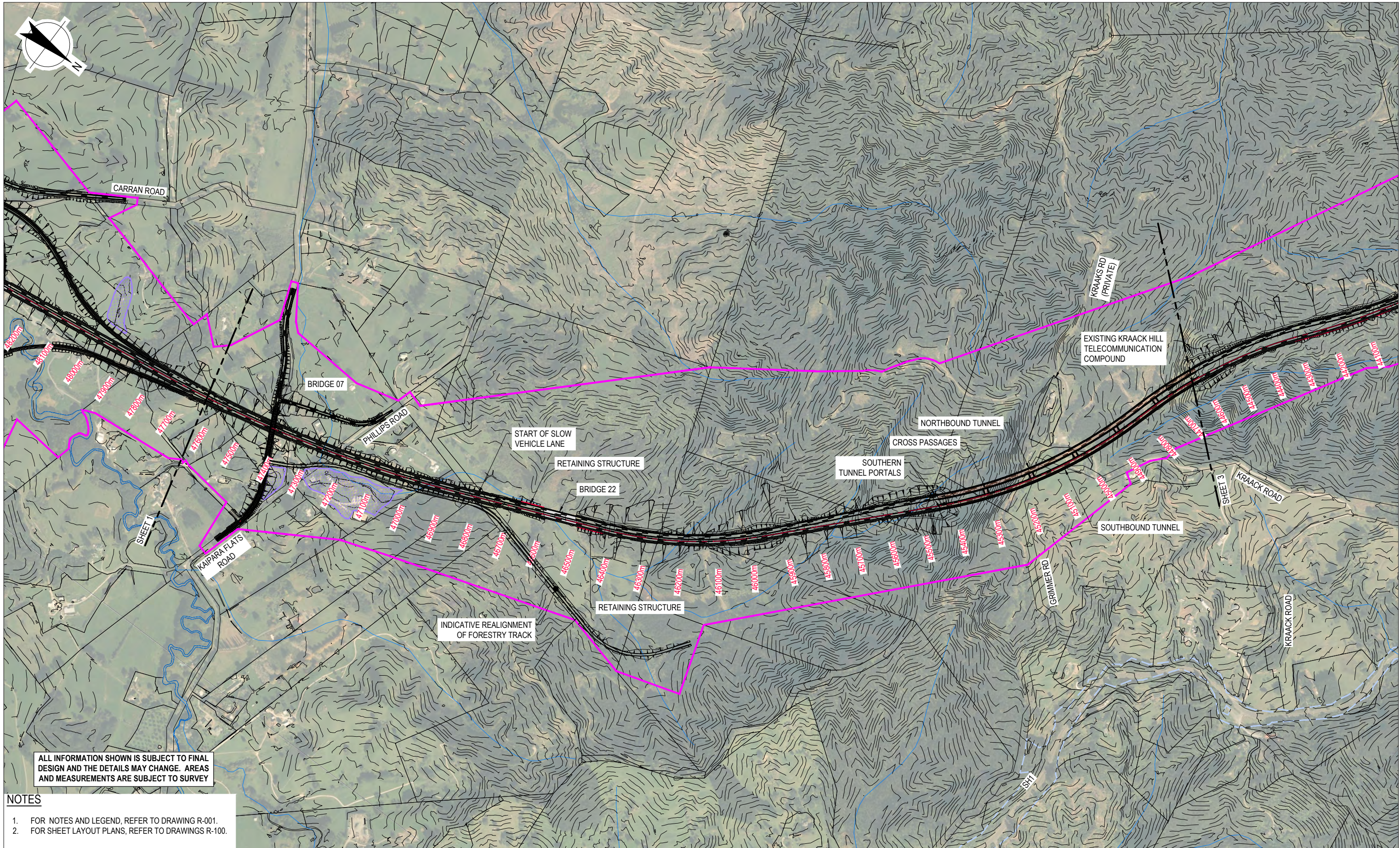
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Approved BN*	Date JULY 2019		
Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved		Original Size <b>A1</b>

Project **WARKWORTH TO WELLSFORD PROJECT**

Title **PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN**

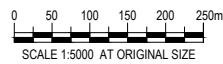
Contract: **PA4156** Drawing No: **R-101** Sheet: **1 of 9** Rev: **0**





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  - FOR SHEET LAYOUT PLANS, REFER TO DRAWINGS R-100.



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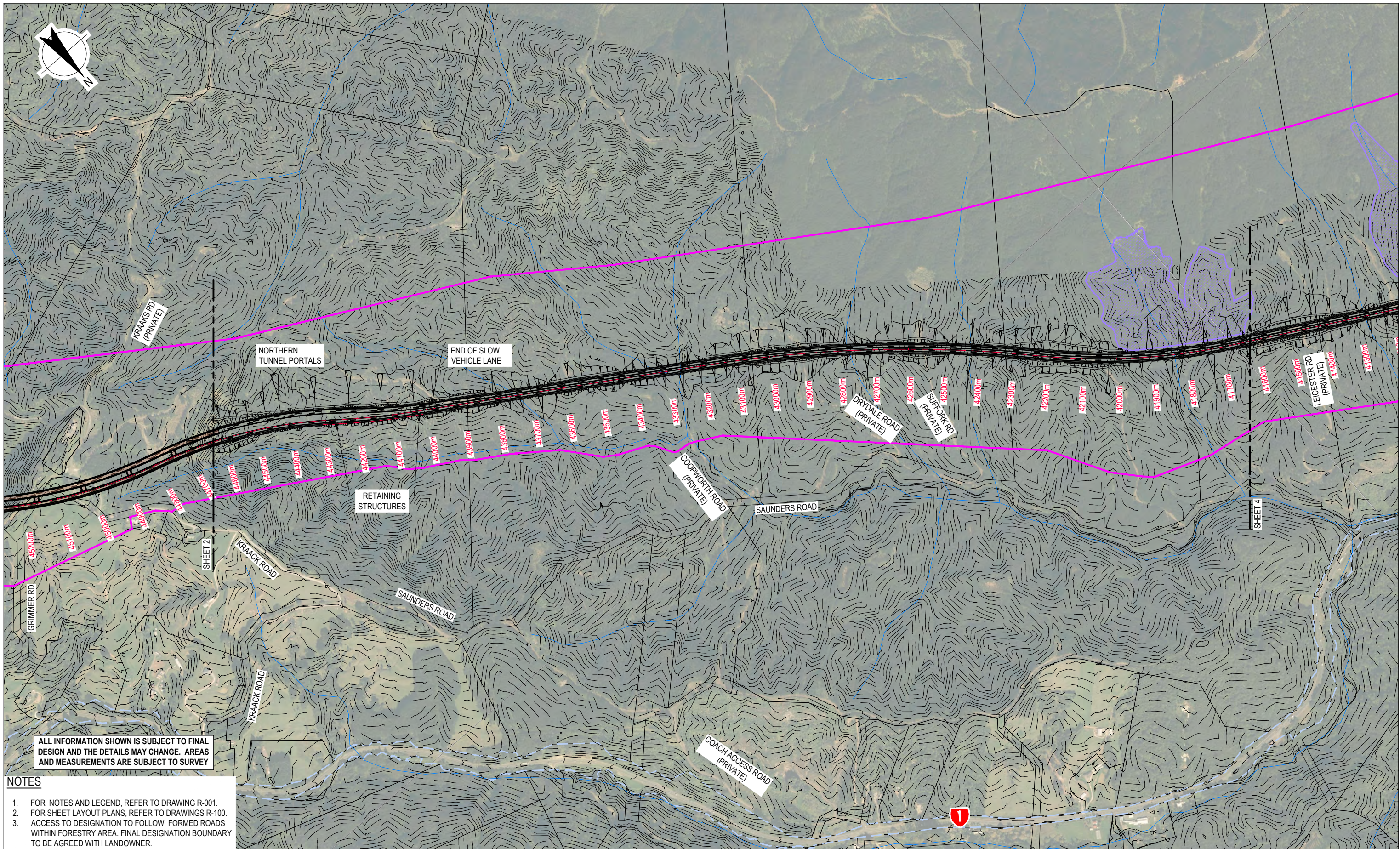


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Approved BN*		Date JULY 2019	
Scale AS SHOWN		This Drawing must not be used for Construction unless signed as Approved	
			Original Size <b>A1</b>

Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>		
Title	<b>PROPOSED DESIGNATION &amp; INDICATIVE ALIGNMENT PLAN</b>		
Contract:	PA4156	Drawing No:	R-102
Sheet:	2 OF 9	Rev:	0

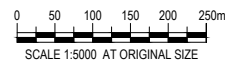




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**NOTES**

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- FOR SHEET LAYOUT PLANS, REFER TO DRAWINGS R-100.
- ACCESS TO DESIGNATION TO FOLLOW FORMED ROADS WITHIN FORESTRY AREA. FINAL DESIGNATION BOUNDARY TO BE AGREED WITH LANDOWNER.



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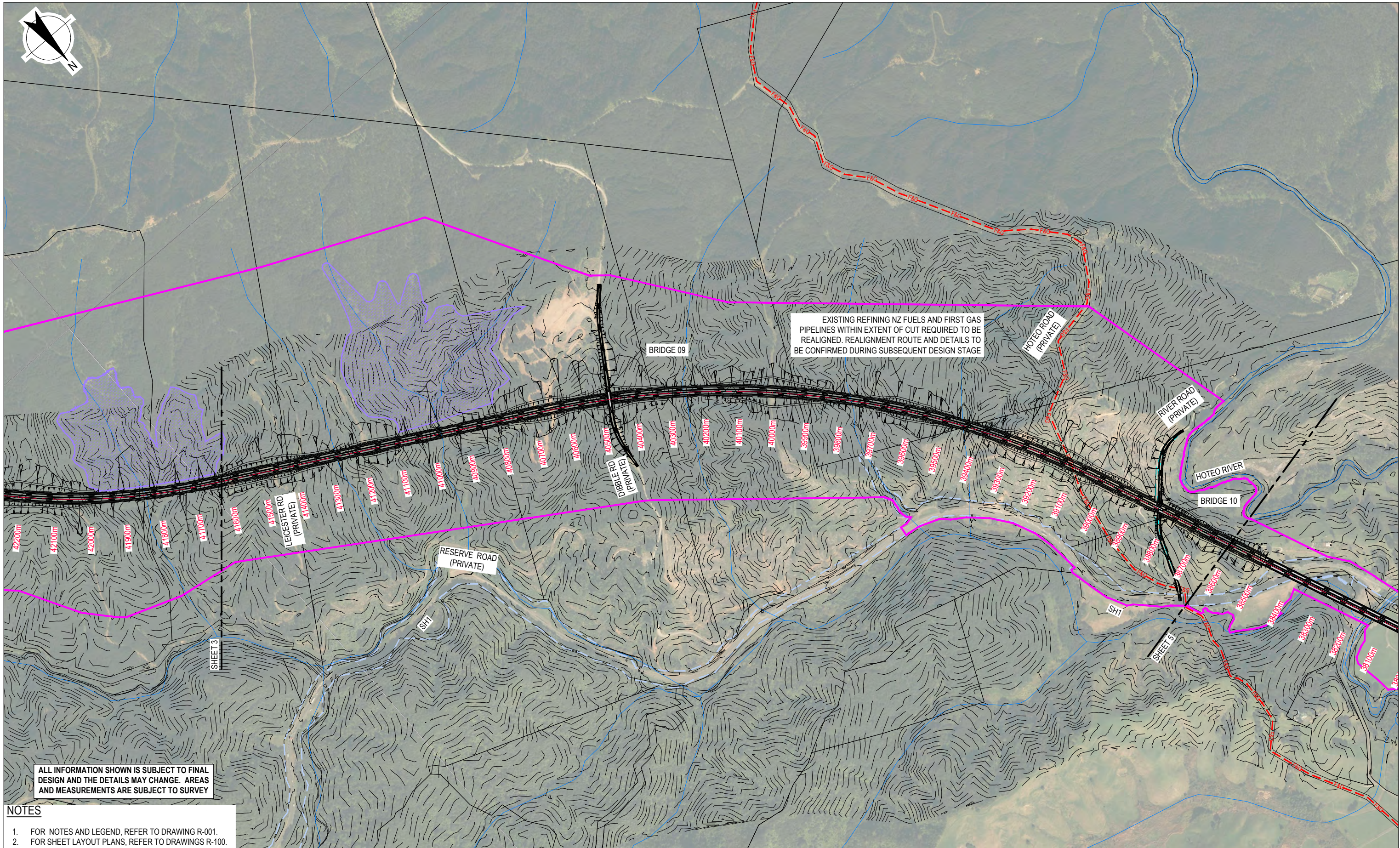


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Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>		
Title	<b>PROPOSED DESIGNATION &amp; INDICATIVE ALIGNMENT PLAN</b>		
Contract:	PA4156	Drawing No:	R-103
Sheet:	3 OF 9	Rev:	0

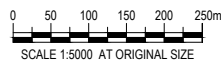




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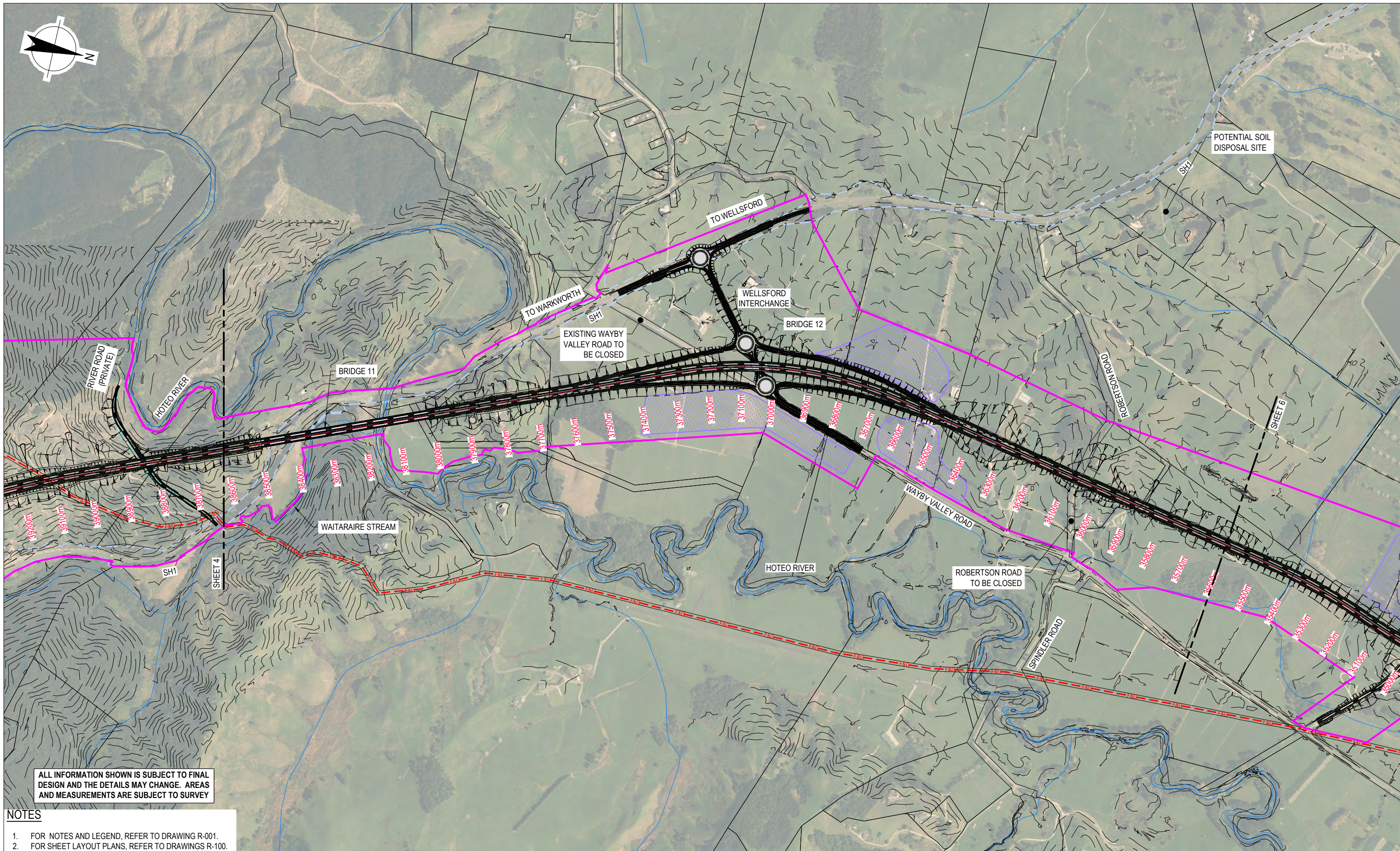
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Project **WARKWORTH TO WELLSFORD PROJECT**

Title **PROPOSED DESIGNATION & INDICATIVE ALIGNMENT PLAN**

Contract: **PA4156** Drawing No: **R-104** Sheet: **4 OF 9** Rev: **0**

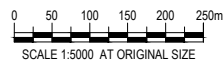




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2. FOR SHEET LAYOUT PLANS, REFER TO DRAWINGS R-100.



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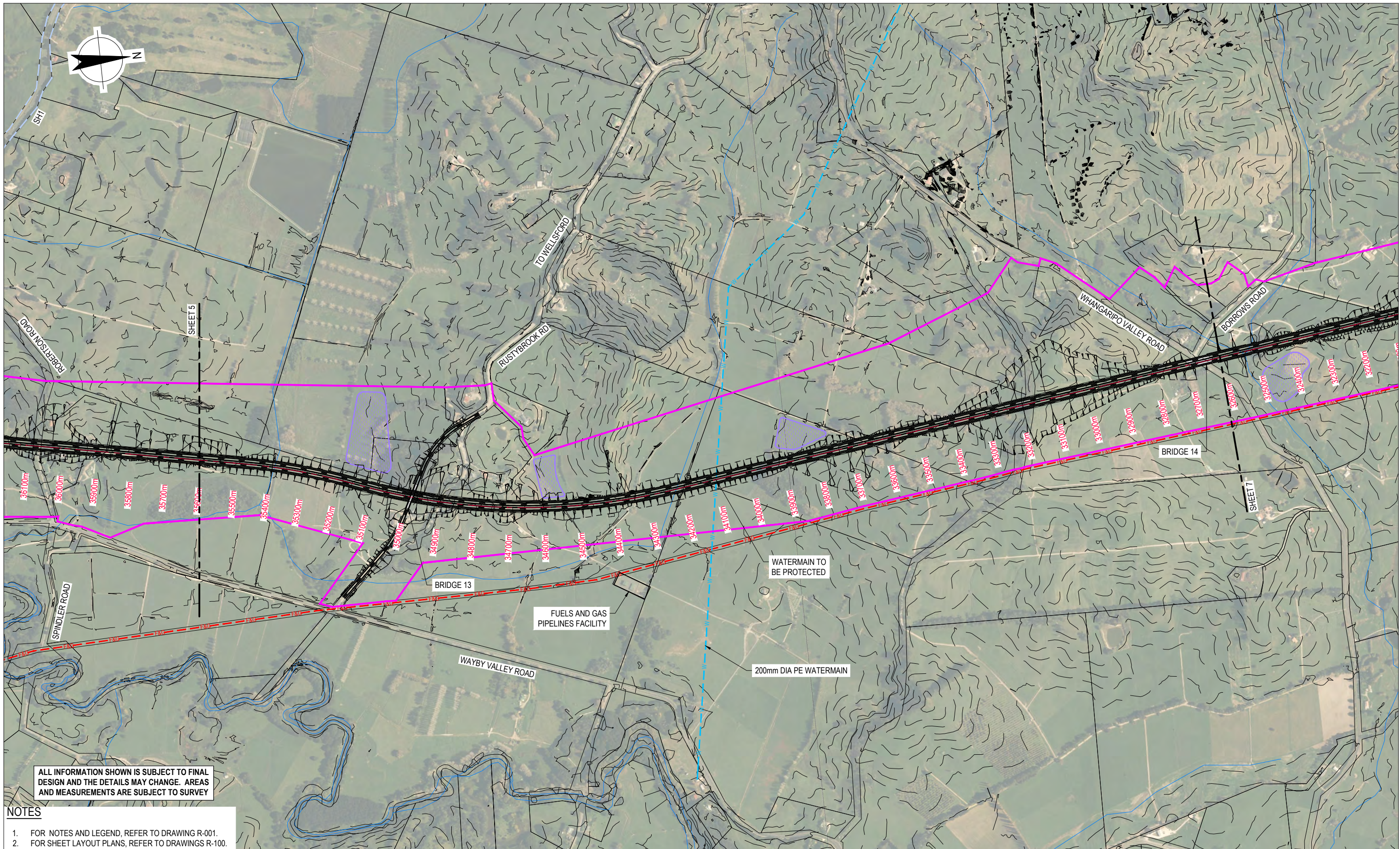


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Approved BN*		Date JULY 2019	
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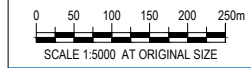
Project <b>WARKWORTH TO WELLSFORD PROJECT</b>			
Title <b>PROPOSED DESIGNATION &amp; INDICATIVE ALIGNMENT PLAN</b>			
Contract: <b>PA4156</b>	Drawing No: <b>R-105</b>	Sheet: <b>5 OF 9</b>	Rev: <b>0</b>





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- NOTES**
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  - FOR SHEET LAYOUT PLANS, REFER TO DRAWINGS R-100.



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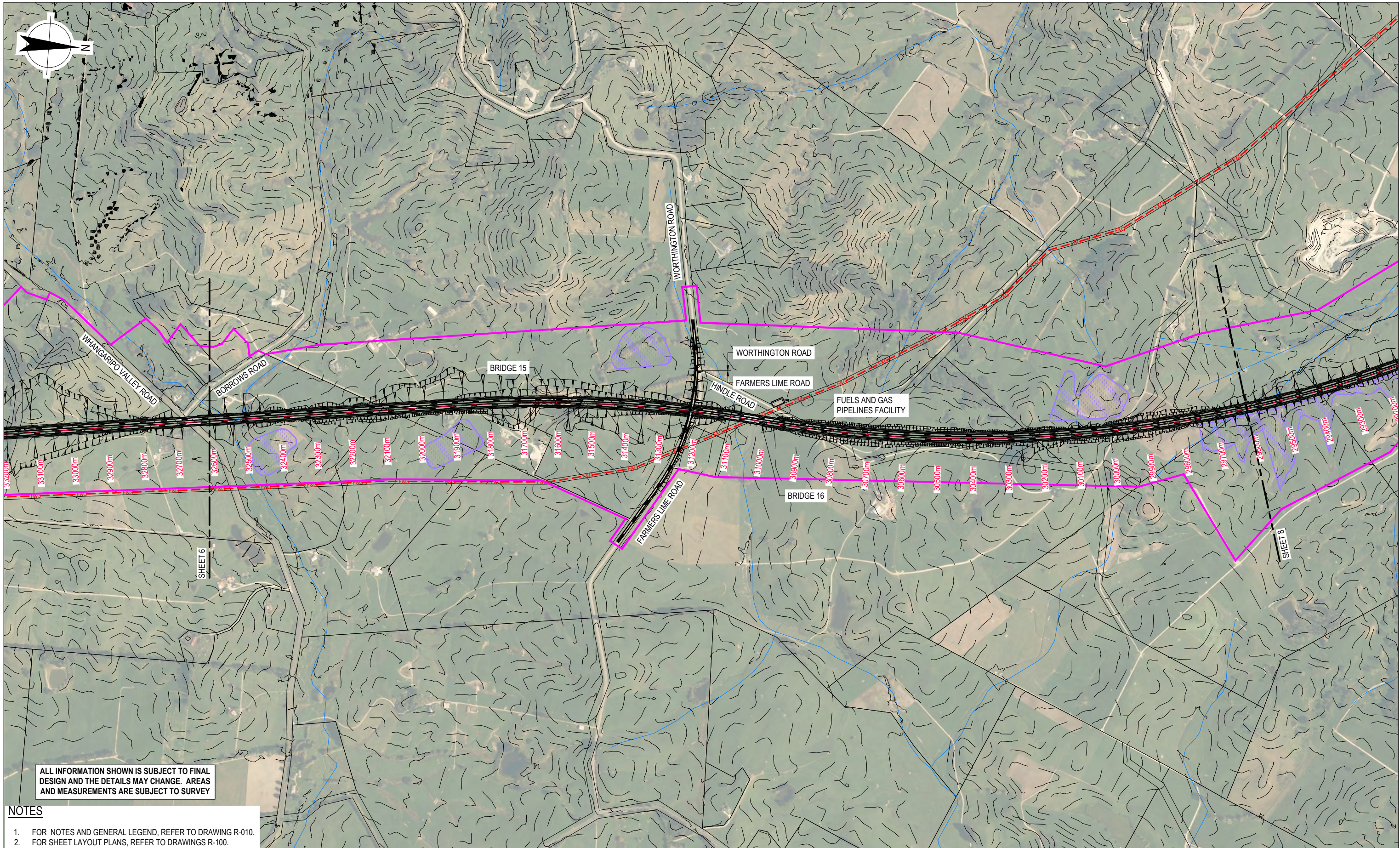


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Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>		
Title	<b>PROPOSED DESIGNATION &amp; INDICATIVE ALIGNMENT PLAN</b>		
Contract:	PA4156	Drawing No:	R-106
Sheet:	6 OF 9	Rev:	0

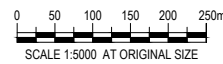




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- FOR SHEET LAYOUT PLANS, REFER TO DRAWINGS R-100.



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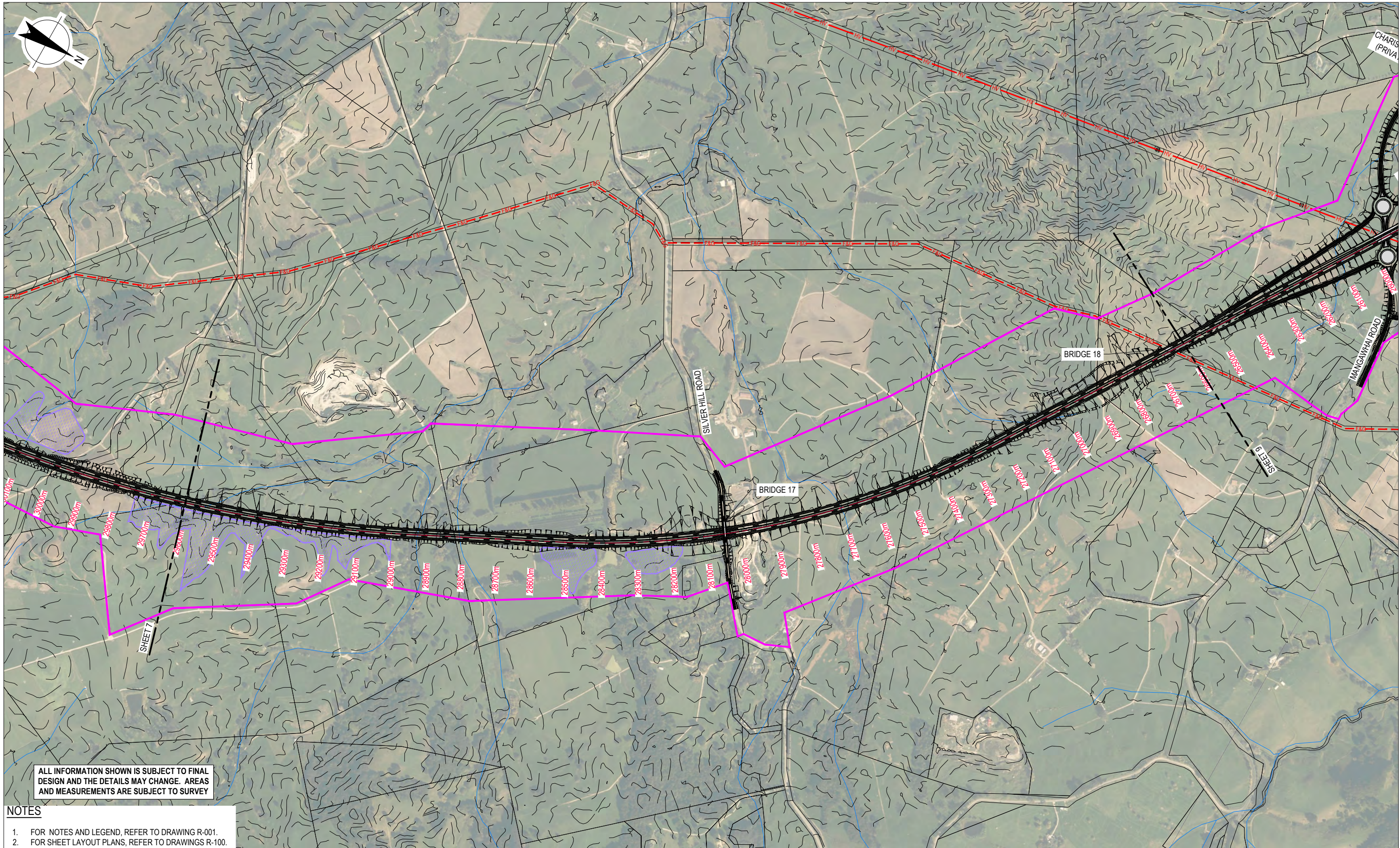


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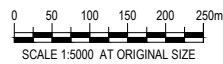
Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>		
Title	<b>PROPOSED DESIGNATION &amp; INDICATIVE ALIGNMENT PLAN</b>		
Contract:	PA4156	Drawing No:	R-107
Sheet:	7 OF 9	Rev:	0





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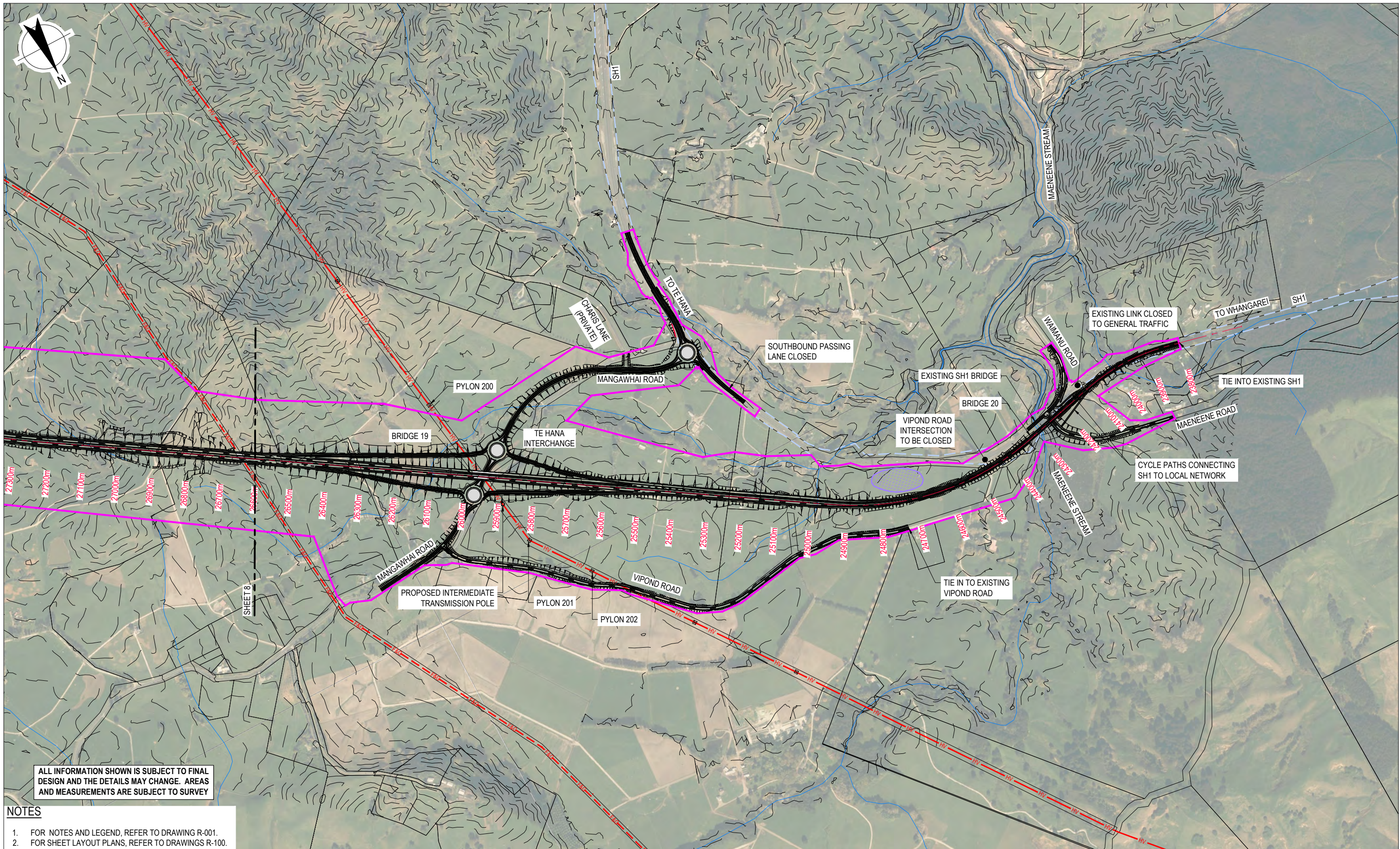


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Approved BN*		Date JULY 2019	
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Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>		
Title	<b>PROPOSED DESIGNATION &amp; INDICATIVE ALIGNMENT PLAN</b>		
Contract:	PA4156	Drawing No:	R-108
Sheet:	8 OF 9	Rev:	0

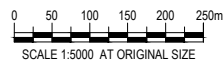




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Approved BN*		Date JULY 2019	
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Project	<b>WARKWORTH TO WELLSFORD PROJECT</b>		
Title	<b>PROPOSED DESIGNATION &amp; INDICATIVE ALIGNMENT PLAN</b>		
Contract:	PA4156	Drawing No:	R-109
Sheet:	9 OF 9	Rev:	0