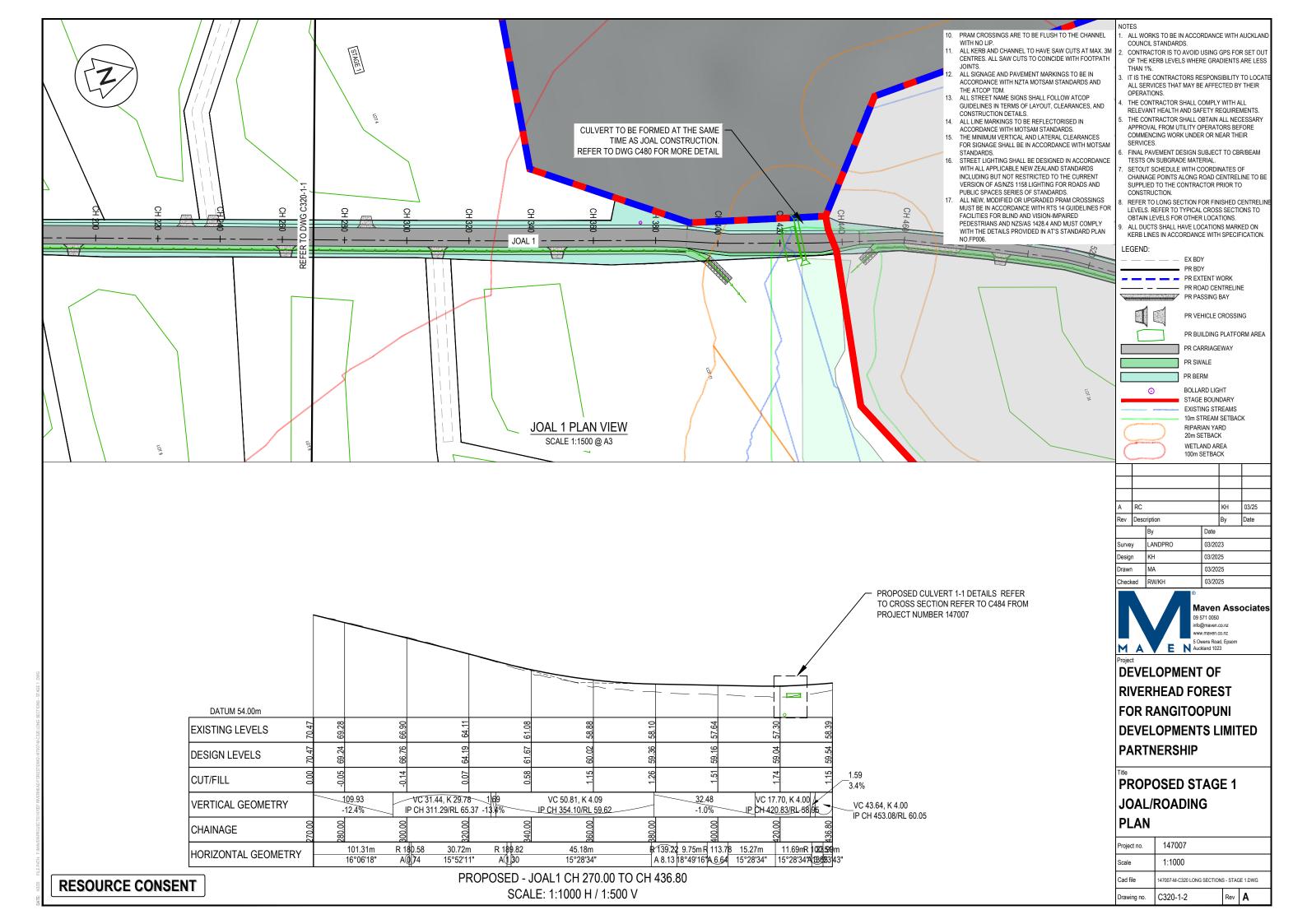
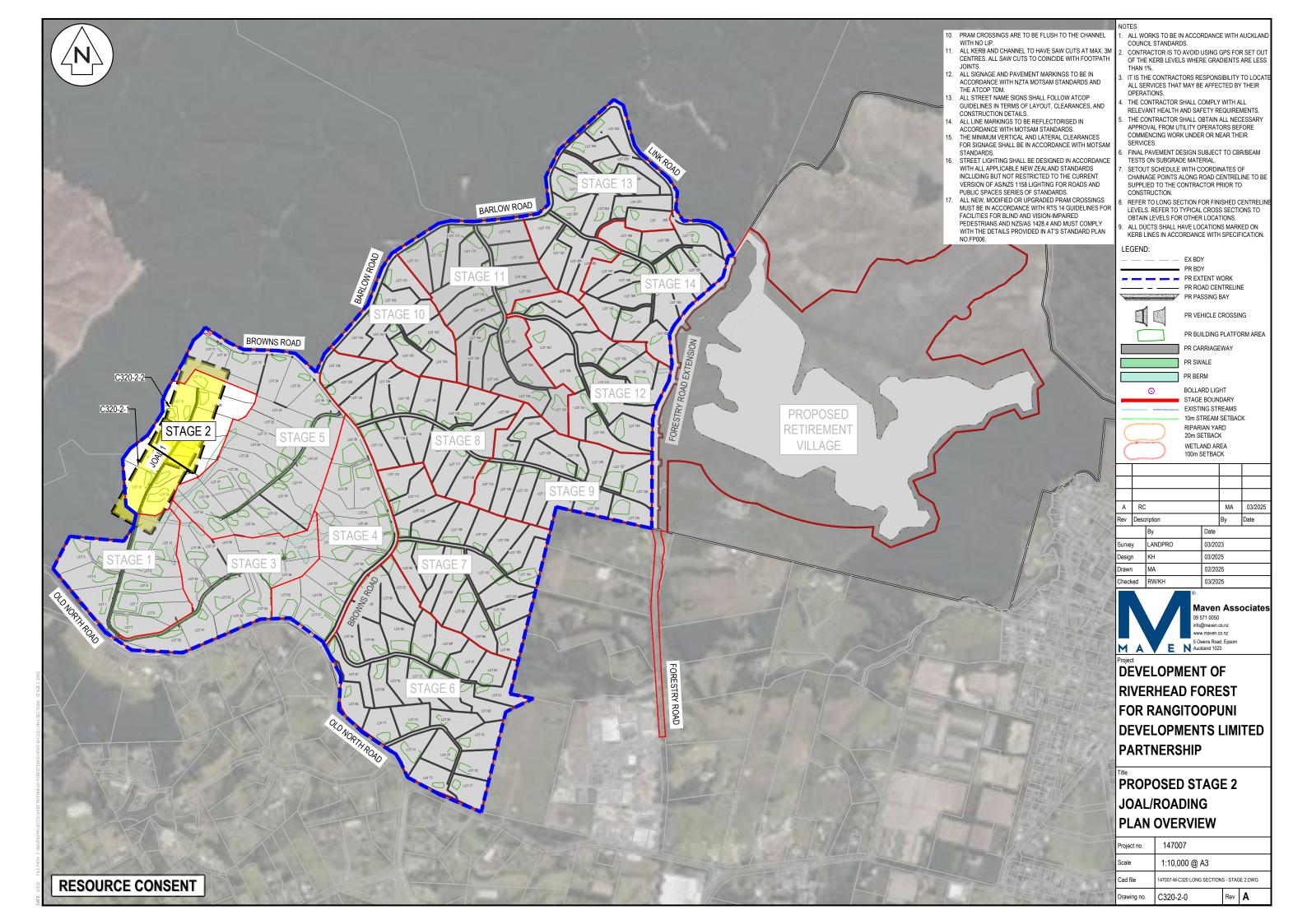
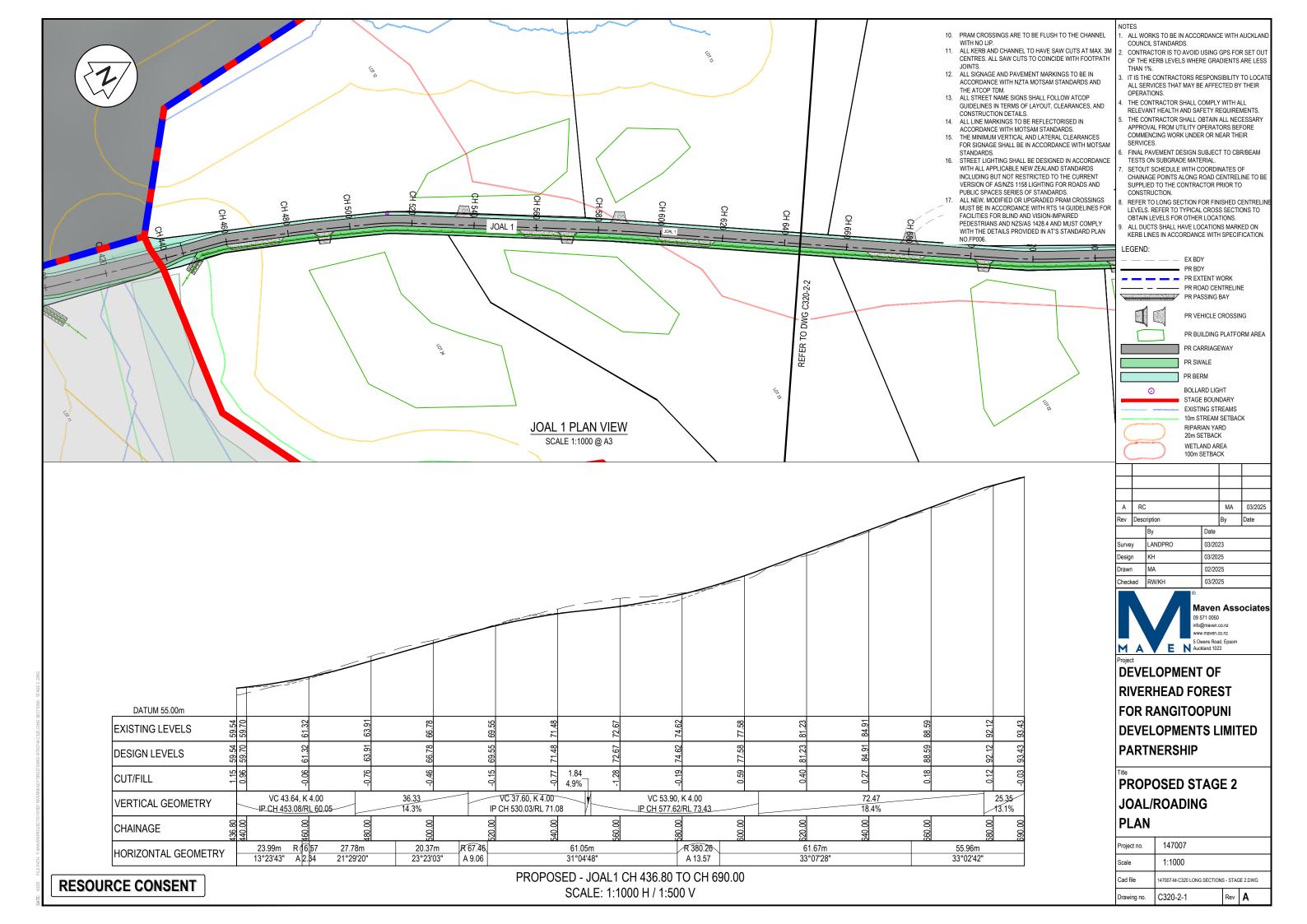


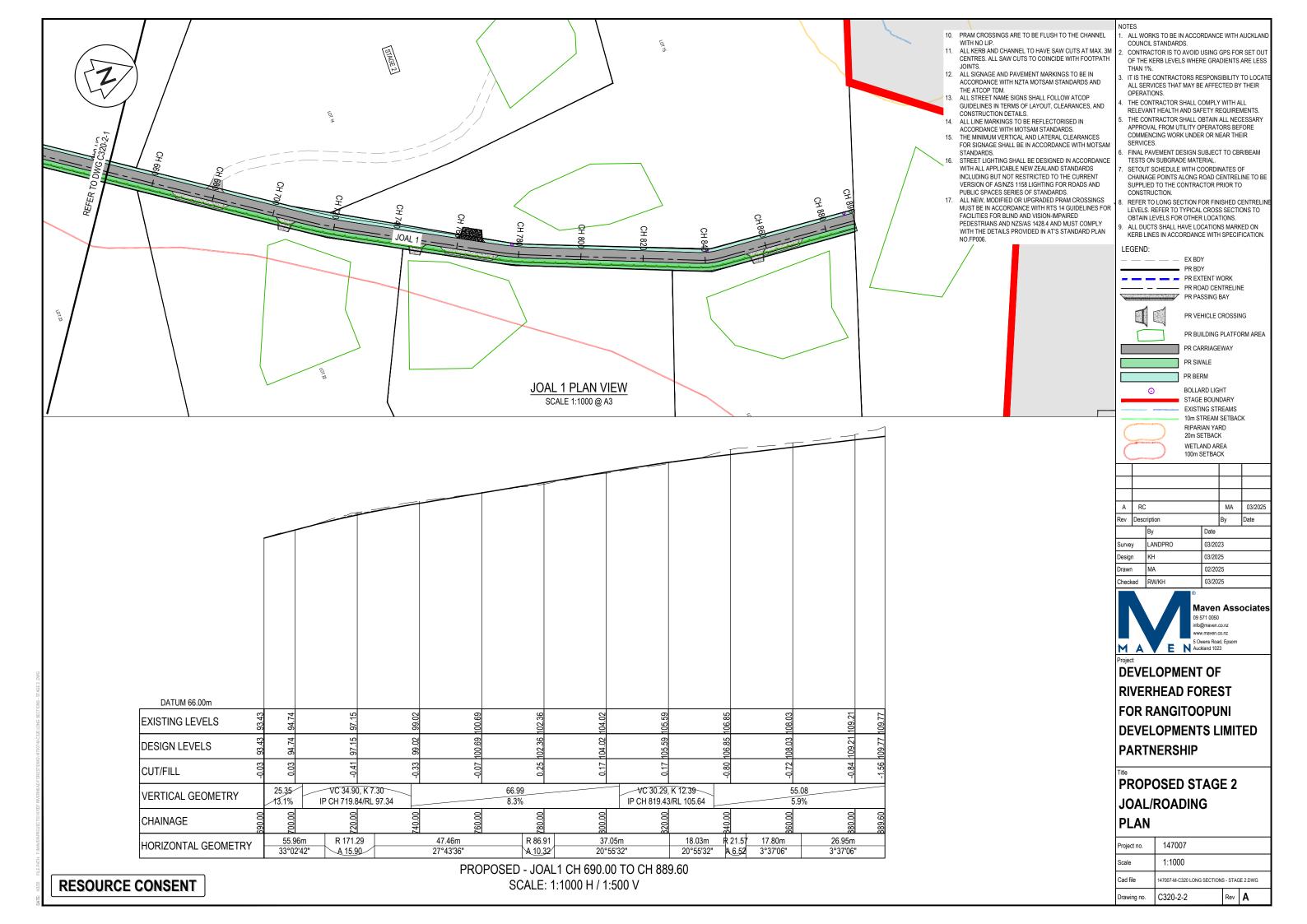
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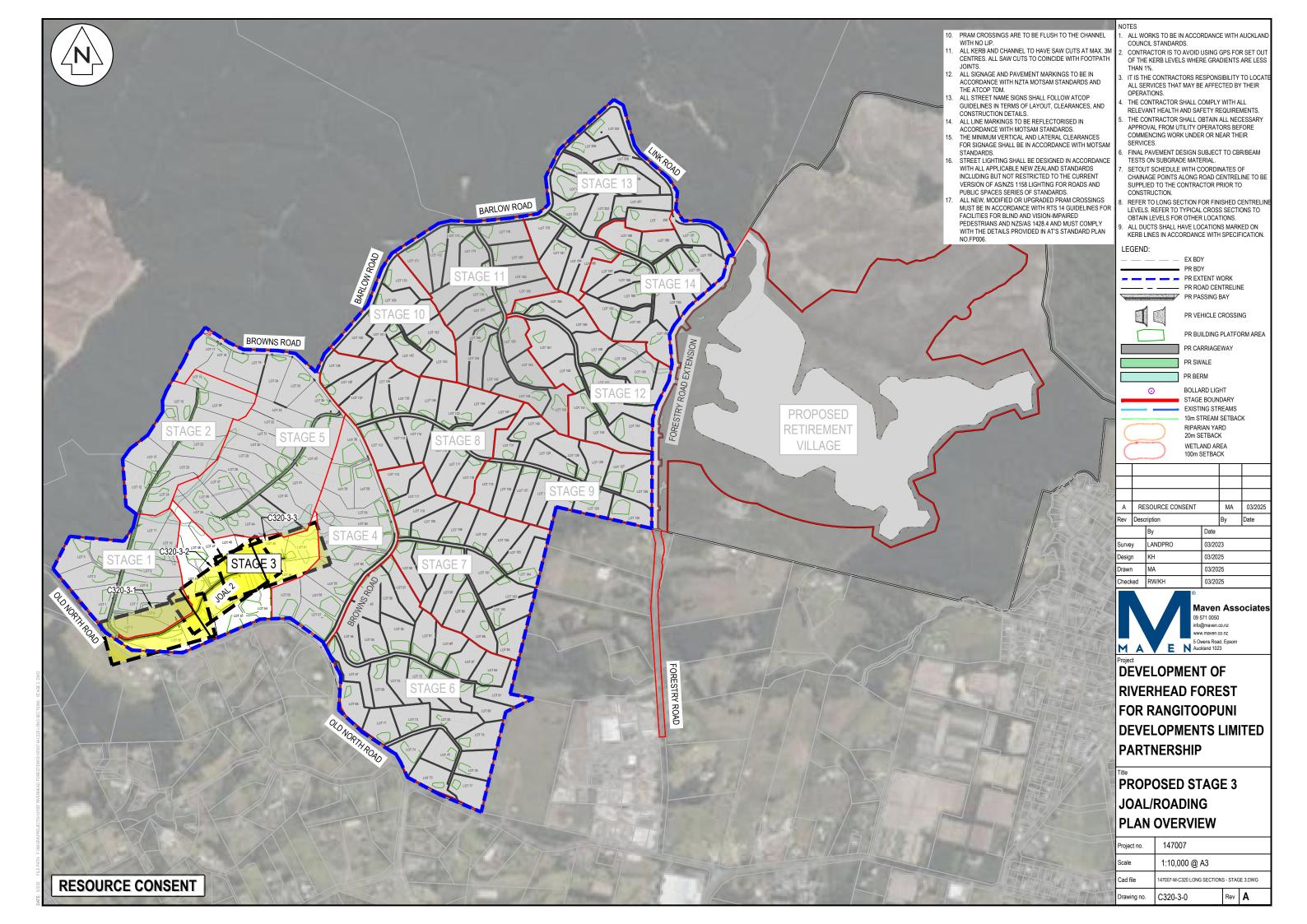
Drawing no.	C320-1-1	Rev	Α		
Cad file	147007-M-C320 LONG SECTIONS - STAGE 1.DWG				
Scale	1:1000				
Project no.	147007				

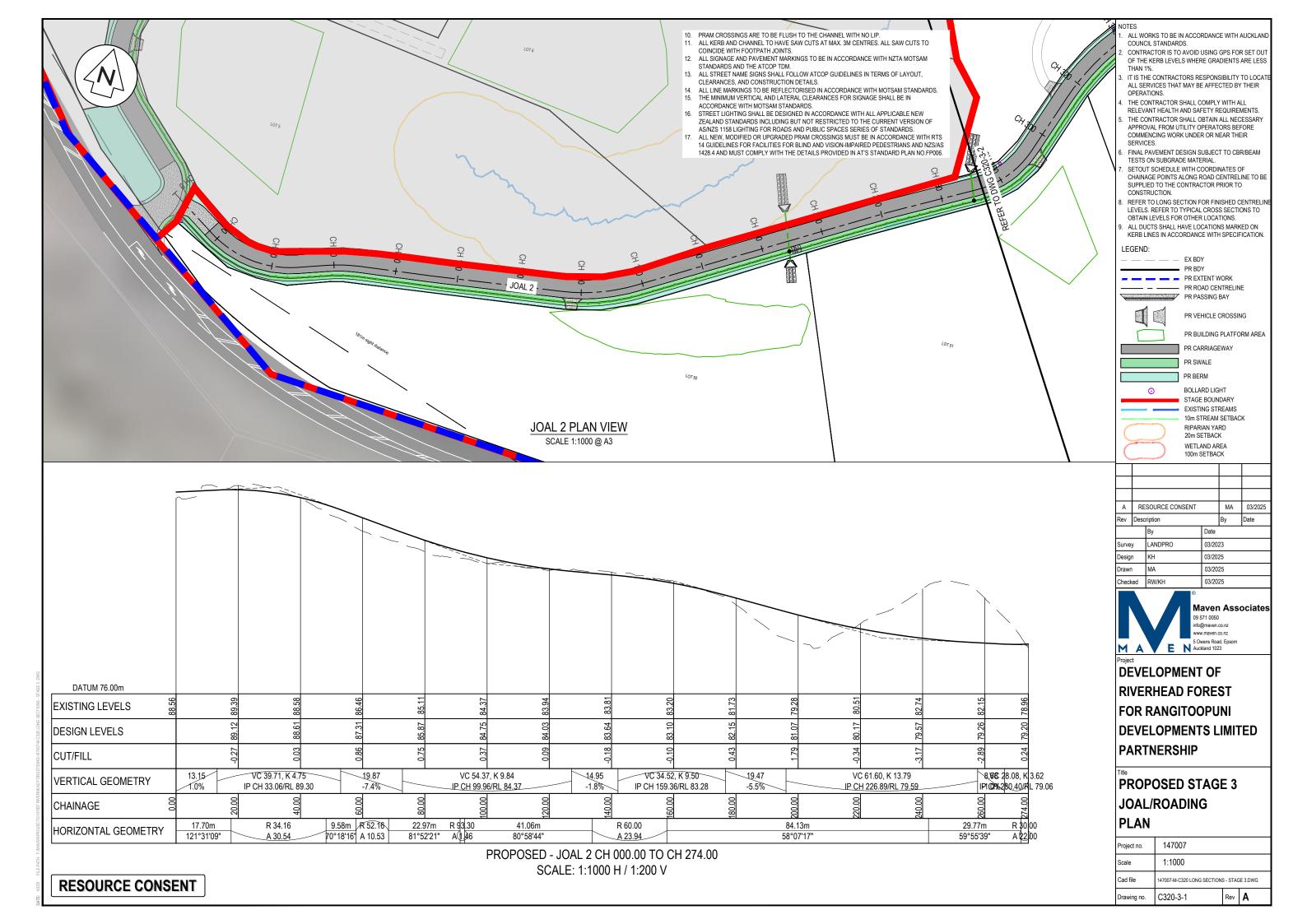


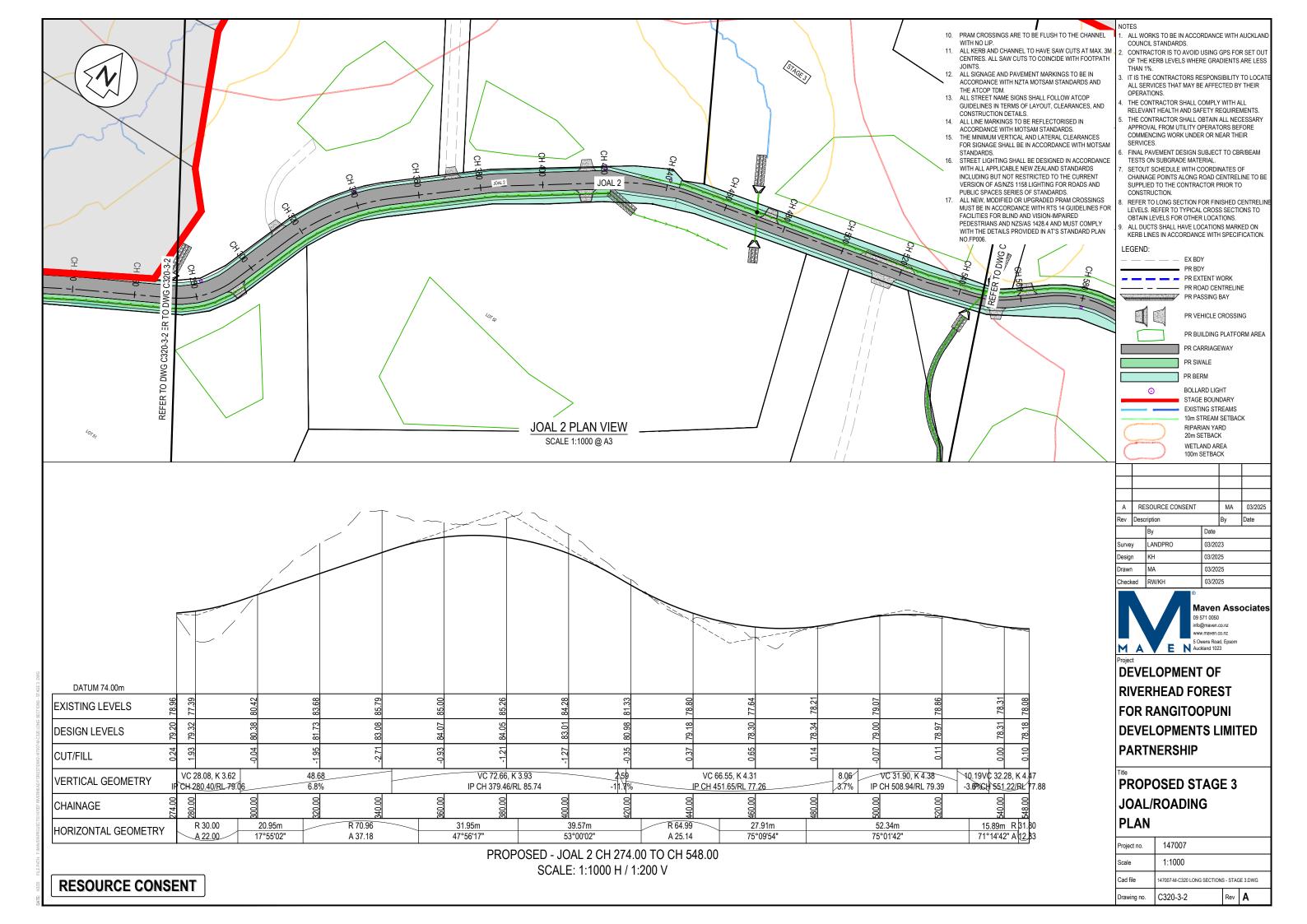


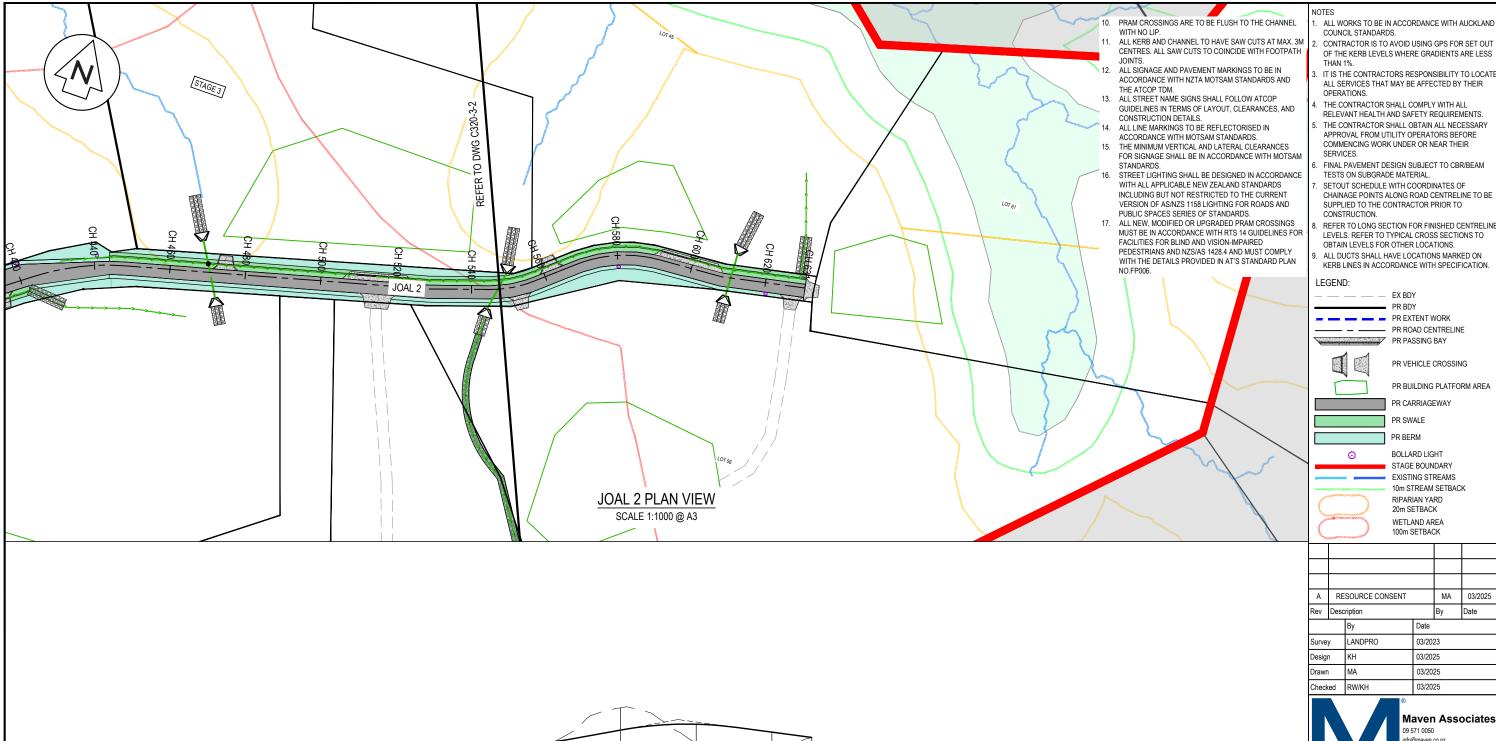












							\		
DATUM 74.00m									
EXISTING LEVELS	78.08	78.10		80.10		78.23		78.14	78.53
DESIGN LEVELS	78.18	78.26		78.93		79.24		78.82	78.53
CUT/FILL	0.10	0.16		-1.17		1.01		0.68	0.00
VERTICAL GEOMETRY	ΙP	VC 32.28, I CH-551.22/		12.42 8 3.7%		0.77, K 4 95.16/RL		Α `).00 .7%
CHAINAGE	548.00	260.00		580.00		900.009		620.00	630.54
HORIZONTAL GEOMETRY			1.63m °01'47"	R 35 A 22	_	16.8 86°0		22.2 78°2	

PROPOSED - JOAL 2 CH 548.00 TO CH 630.54

SCALE: 1:1000 H / 1:200 V

RESOURCE CONSENT

147007 Project no. 1:1000 Cad file 47007-M-C320 LONG SECTIONS - STAGE 3.DWG

C320-3-3

DEVELOPMENTS LIMITED

PROPOSED STAGE 3

ww.maven.co.nz

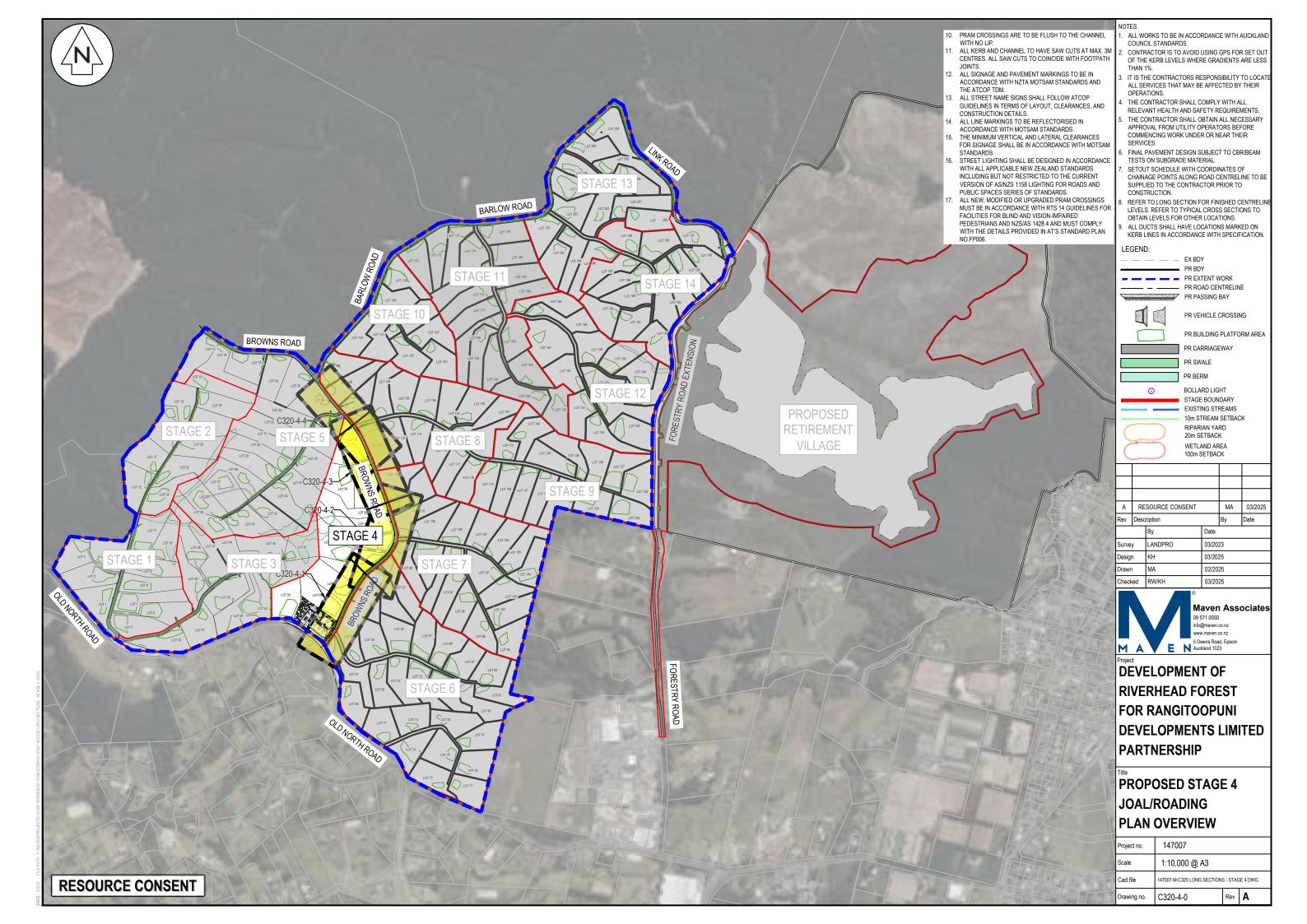
DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI

PARTNERSHIP

JOAL/ROADING

PLAN

Drawing no.





PROPOSED - BROWNS ROAD CH 000.00 TO CH 274.00 SCALE: 1:1000 H / 1:500 V

A 17.35

35°40'03"

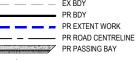
29°56'09'

RESOURCE CONSENT

38°58'14"

A 40.89

- ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAN
- CONTRACTOR IS TO AVOID USING GPS FOR SET OU OF THE KERB LEVELS WHERE GRADIENTS ARE LESS
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- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVAL FROM UTILITY OPERATORS BEFORE COMMENCING WORK UNDER OR NEAR THEIR
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- SETOUT SCHEDULE WITH COORDINATES OF CHAINAGE POINTS ALONG ROAD CENTRELINE TO BE SUPPLIED TO THE CONTRACTOR PRIOR TO
- REFER TO LONG SECTION FOR FINISHED CENTRELIN LEVELS. REFER TO TYPICAL CROSS SECTIONS TO OBTAIN LEVELS FOR OTHER LOCATIONS.
- ALL DUCTS SHALL HAVE LOCATIONS MARKED ON KERB LINES IN ACCORDANCE WITH SPECIFICATION.







PR SWALE PR BERM

> **BOLLARD LIGHT** STAGE BOUNDARY EXISTING STREAMS

10m STREAM SETBACK RIPARIAN YARD 20m SETBACK

WETLAND AREA 100m SETBACK

RESOURCE CONSENT MA 03/2025 03/2023 03/2025 03/2025

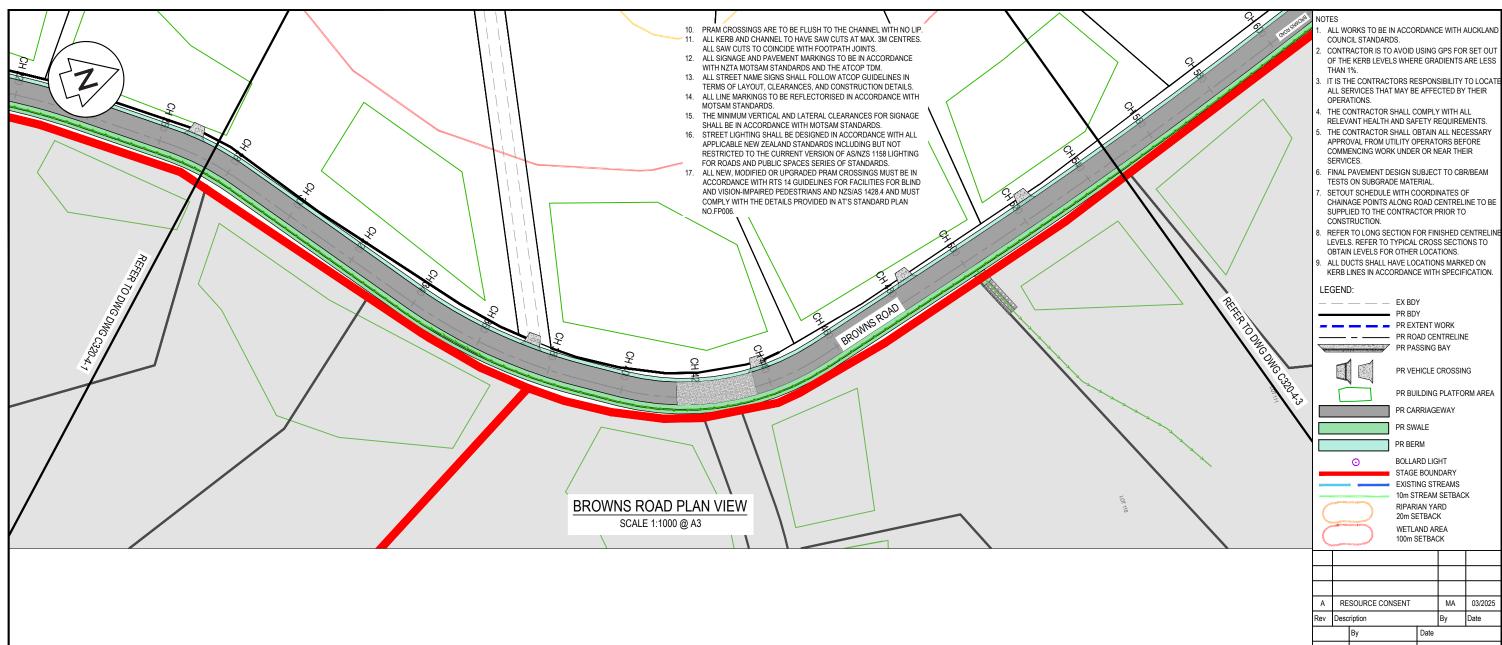
03/2025



DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI **DEVELOPMENTS LIMITED**

PROPOSED STAGE 4 JOAL/ROADING

Project no.	147007					
Scale	1:1000					
Cad file	147007-M-C320 LONG SECTIONS - STAGE 4.DWG					
Drawing no.	C320-4-1 Rev A					



DATUM 90.00m														
EXISTING LEVELS	99.24	98.83	98.15	97.45	98.96	96.43	96.50	99.96	96.11	94.89	94.13	93.87	94.17	94.84
DESIGN LEVELS	99.34	98.99	98.38	97.68	86.98	79.96	96.37	96.18	95.94	95.28	94.43	93.98	94.27	94.90
CUT/FILL	0.00	0.00	0.00	0.00	00.0	0.00	00:0	0.00	0.00	0.00	00.0	0.00	0.00	0.00
VERTICAL GEOMETRY	73.7 -1.0			45.73		VC 15.00, K 6.00 CH 368.34/RL 96.69		57.06 -1.0%		24.00, K 7.33 444.91/RL 95.93	22.01 -4.3%	VC 40.00 IP CH 498.9		120. <u>53</u> 3.1%
CHAINAGE	274.00		320.00	340.00	00.098	380.00	400.00	420.00	440.00	460.00	- 480.00	200.00	- 520.00	540.00
HORIZONTAL GEOMETR	Y R 72.0 A 20.3		55.48m 51°51'55"			R 138.00 A 50.16	11.04m 31°02'24"		R 67.19 A 55.86		42.08n 343°24'2			298.05 102.51

RESOURCE CONSENT

PROPOSED - BROWNS ROAD CH 274.00 TO CH 548.00 SCALE: 1:1000 H / 1:500 V

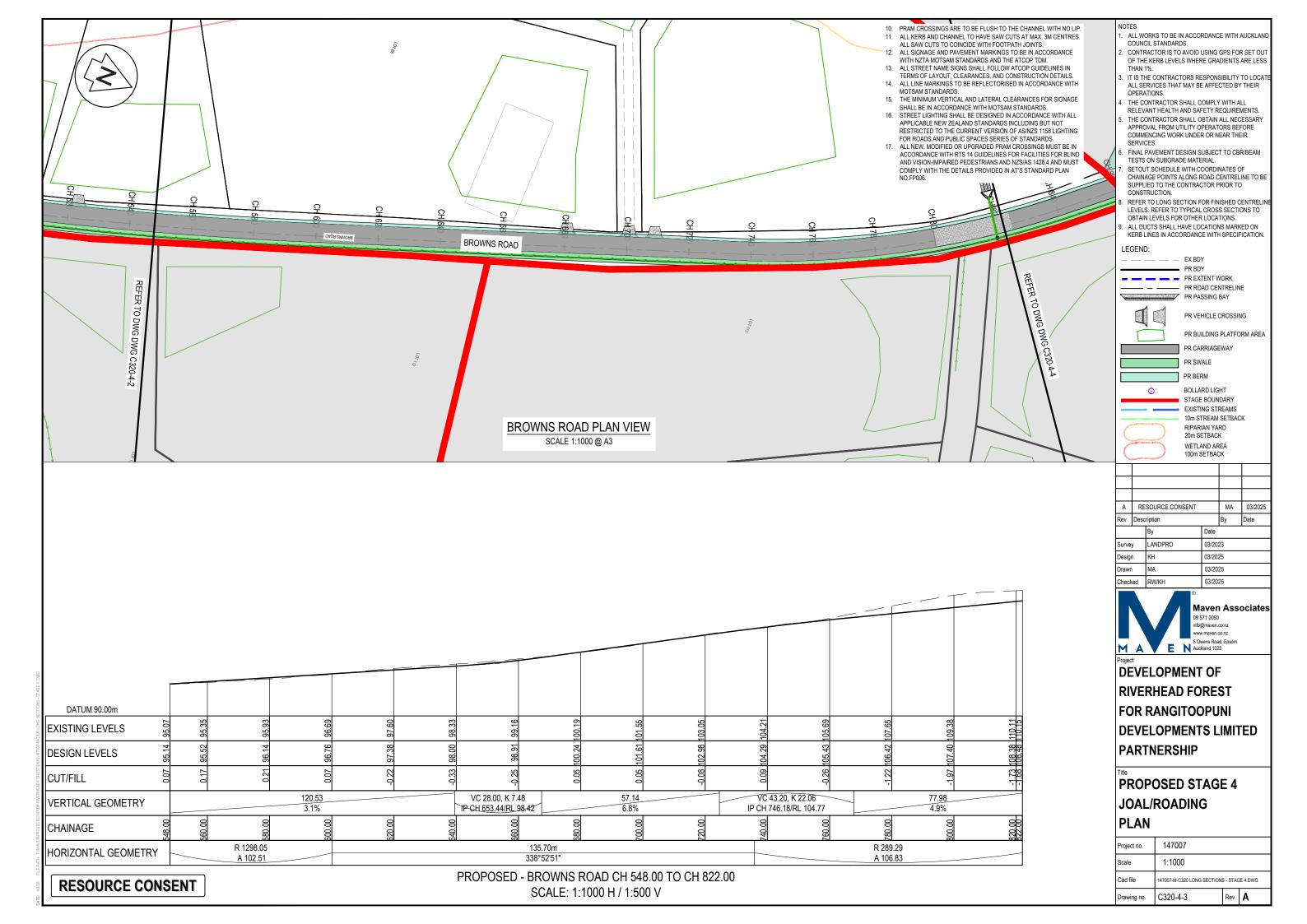
Survey LANDPRO 03/2023 03/2025 MA 03/2025 03/2025



DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI **DEVELOPMENTS LIMITED PARTNERSHIP**

PROPOSED STAGE 4 JOAL/ROADING **PLAN**

Project no.	147007					
Scale	1:1000 147007-M-C320 LONG SECTIONS - STAGE 4.DWG					
Cad file						
Drawing no.	C320-4-2	Rev	Α			





Project
DEVELOPMENT OF
RIVERHEAD FOREST
FOR RANGITOOPUNI
DEVELOPMENTS LIMITED

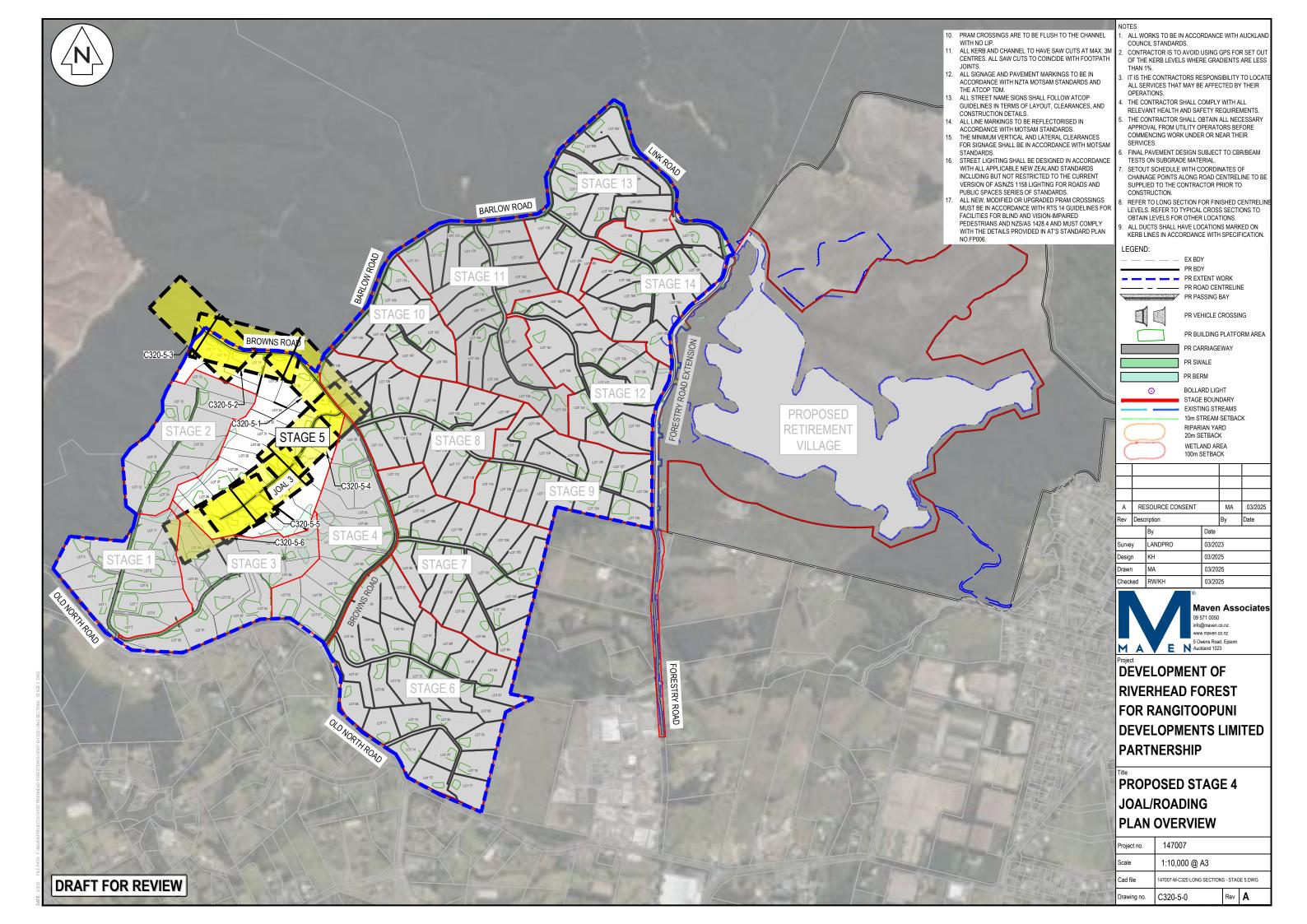
PARTNERSHIP

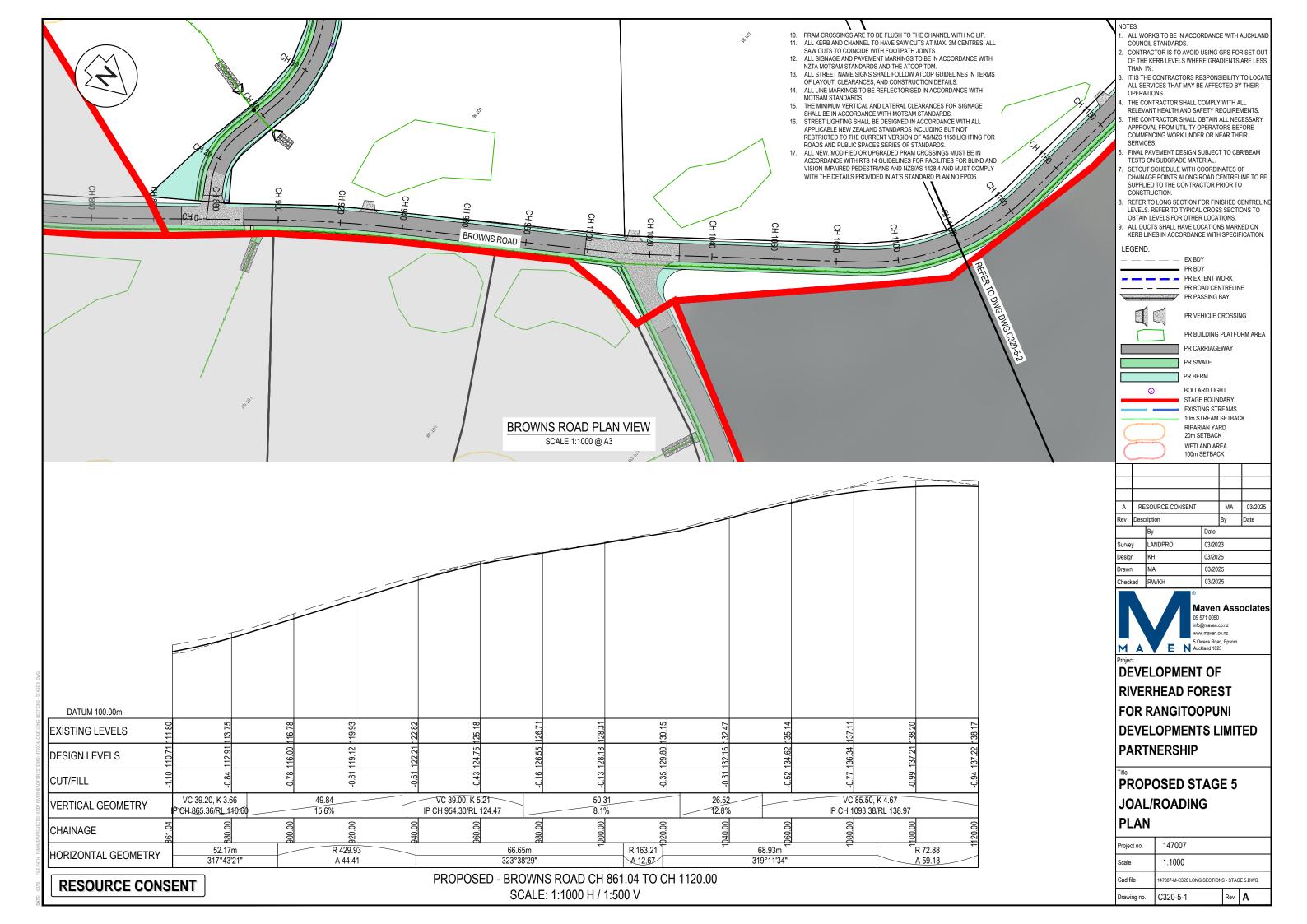
PROPOSED STAGE 4 JOAL/ROADING PLAN

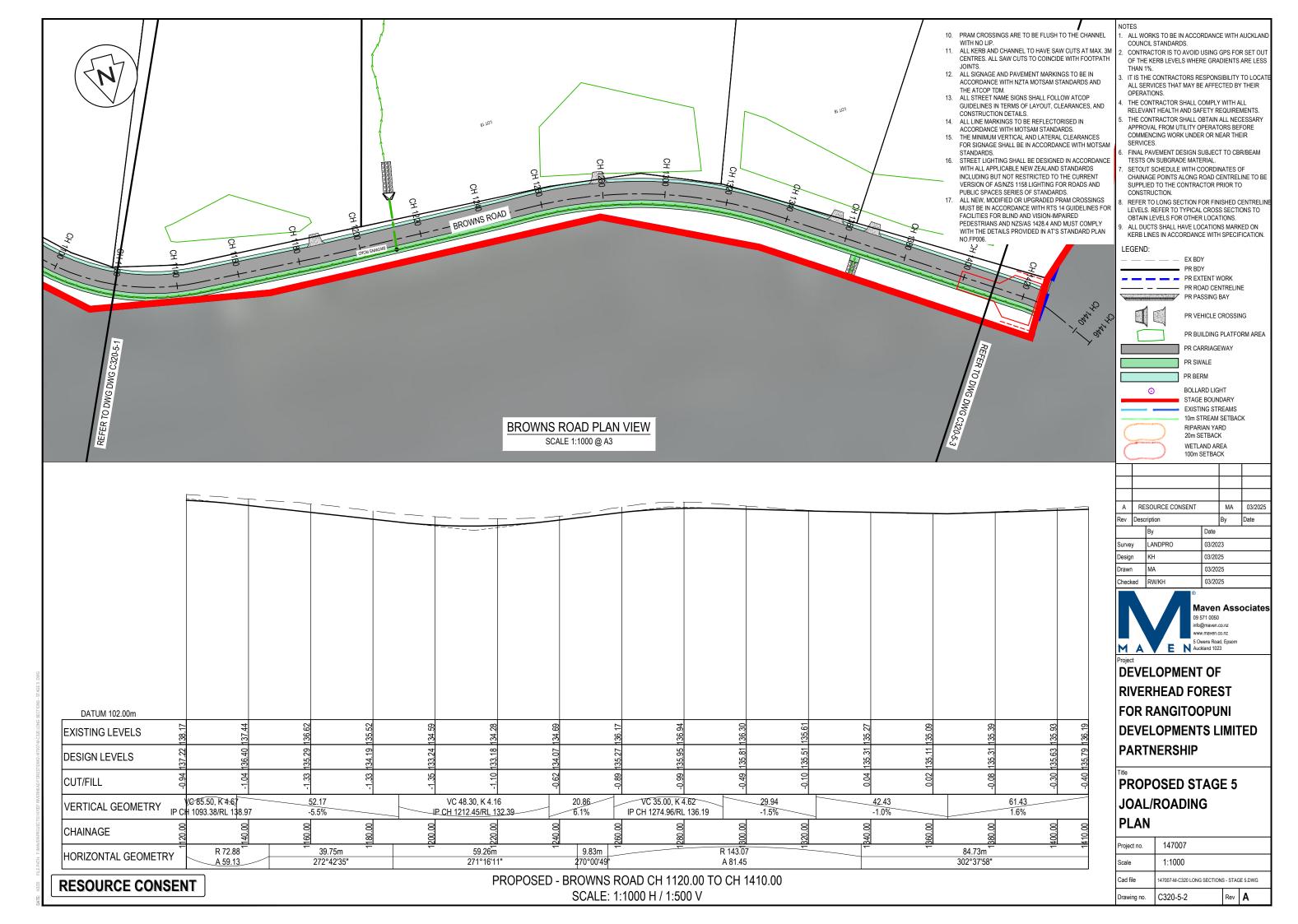
Project no.	147007					
Scale	1:1000					
Cad file	147007-M-C320 LONG SECTIONS - STAGE 4.DWG					
Drawing no.	C320-4-4	Rev	Α			

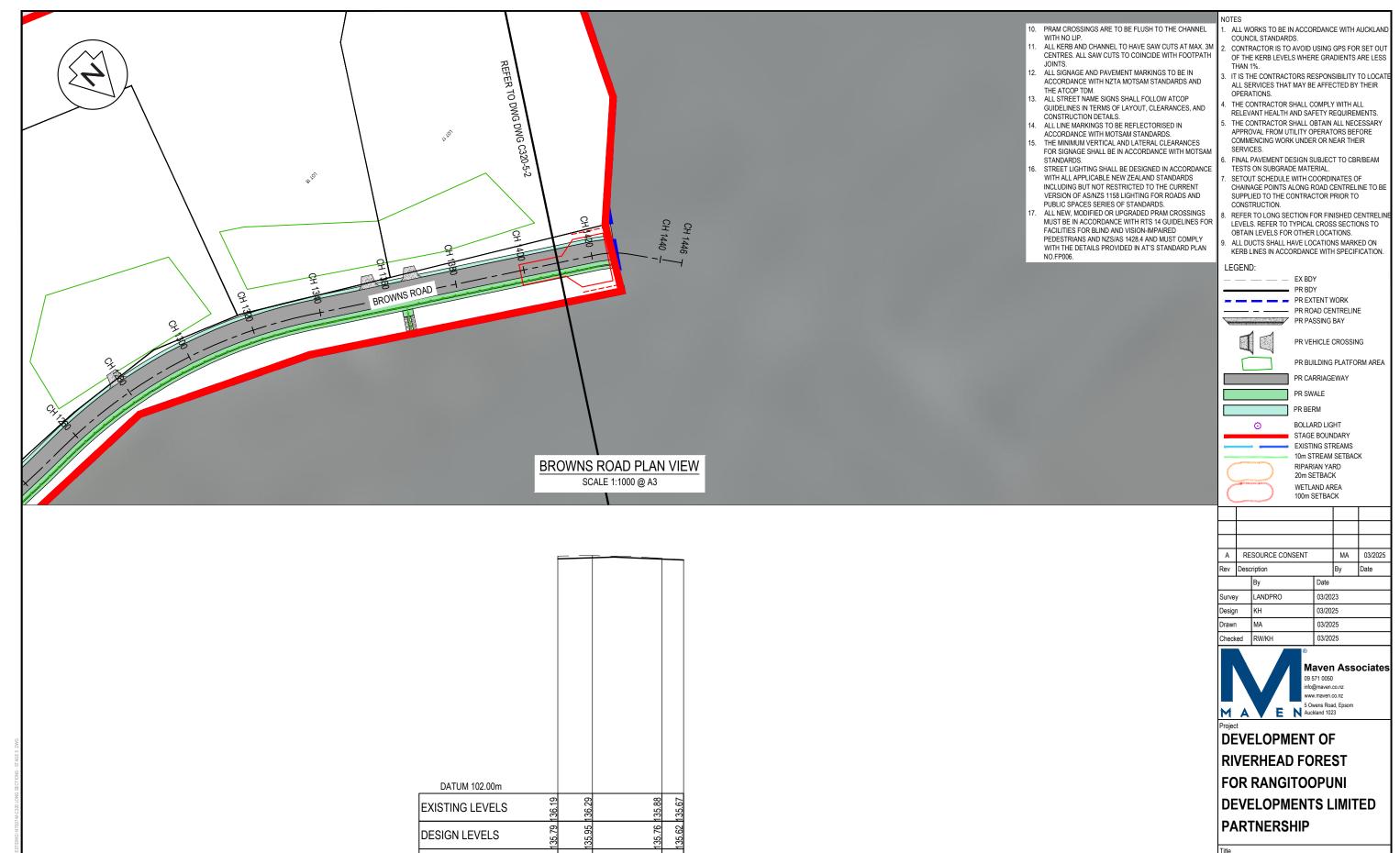
DATUM 90.00m EXISTING LEVELS -111.80 DESIGN LEVELS -110.71 CUT/FILL --1.10 VC 39.20, K 3.6 VERTICAL GEOMETRY 4.9% IP CH 865.36/RL 110.60 CHAINAGE --861.04 R 289.29 52.17m HORIZONTAL GEOMETRY A 106.83 317°43'21"

PROPOSED - BROWNS ROAD CH 822.00 TO CH 861.04 SCALE: 1:1000 H / 1:500 V









PROPOSED STAGE 5
JOAL/ROADING
PLAN

 Project no.
 147007

 Scale
 1:1000

 Cad file
 147007-M-C320 LONG SECTIONS - STAGE 5.DWG

 Drawing no.
 C320-5-3

 Rev
 A

PROPOSED - BROWNS ROAD CH 1410.00 TO CH 1446.26 SCALE: 1:1000 H / 1:500 V

302°37'58" A 8.85 323°50'42"

19.99

-2.2%

15.74m

61.43

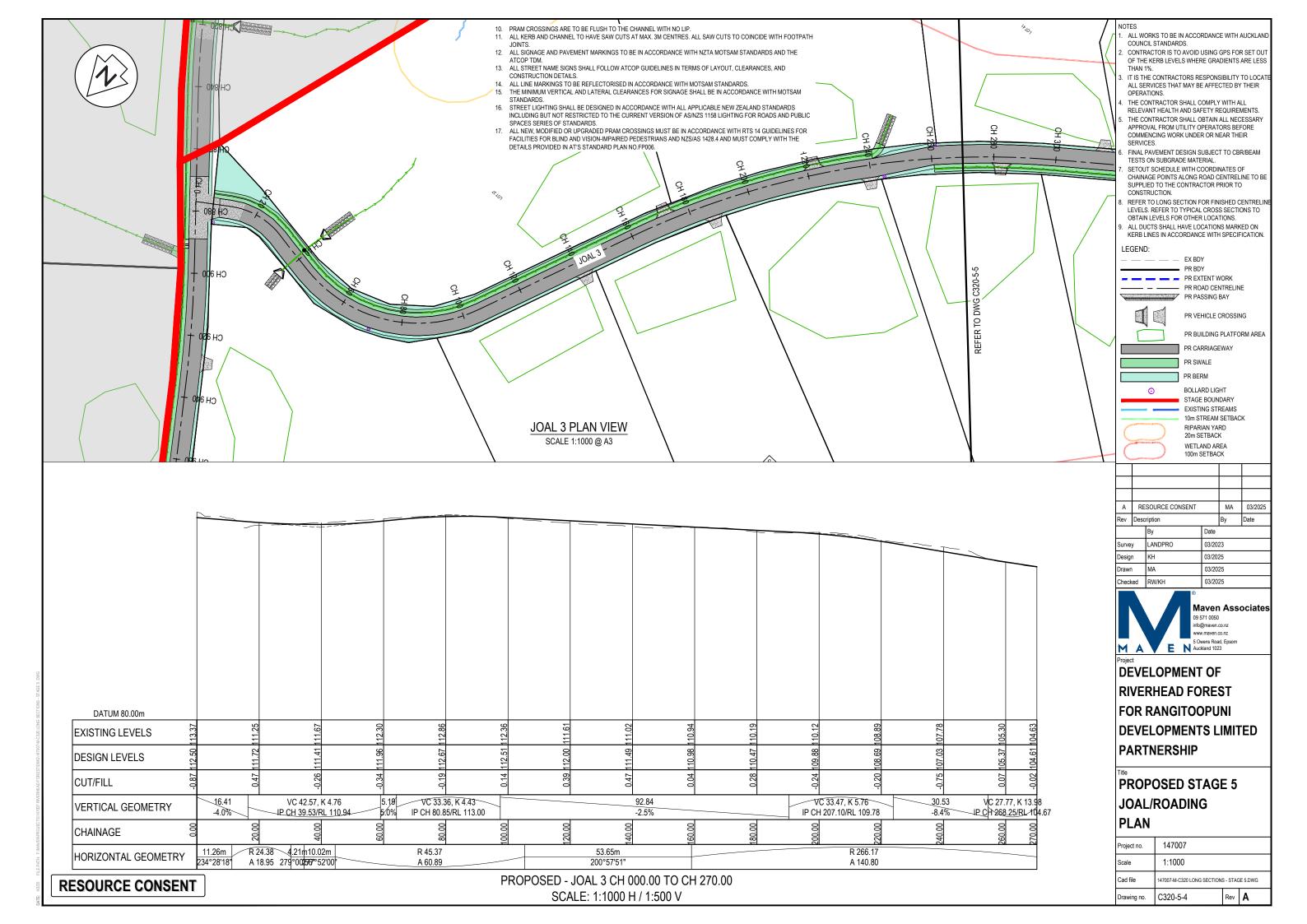
84.73m R 23.90

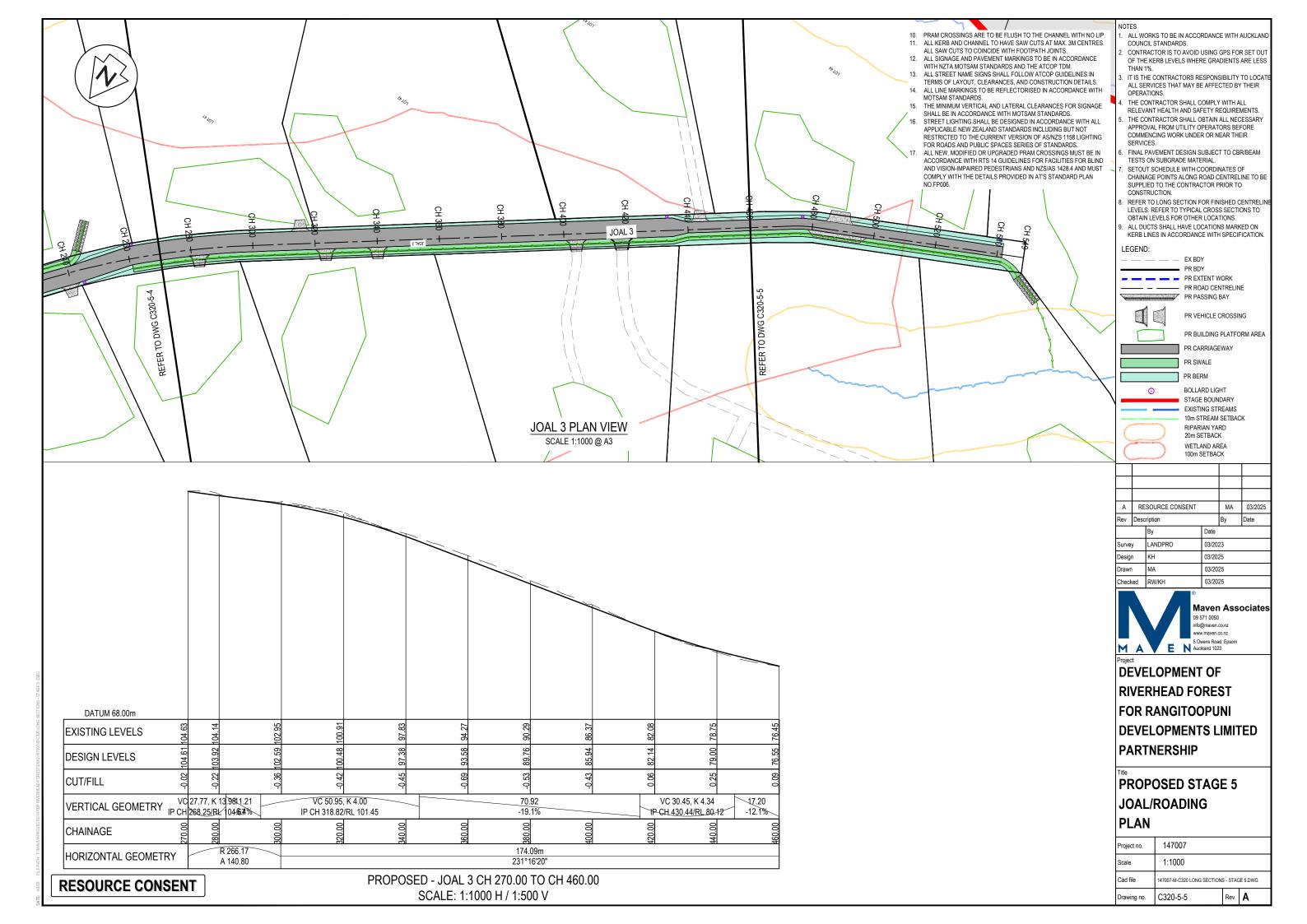
CUT/FILL

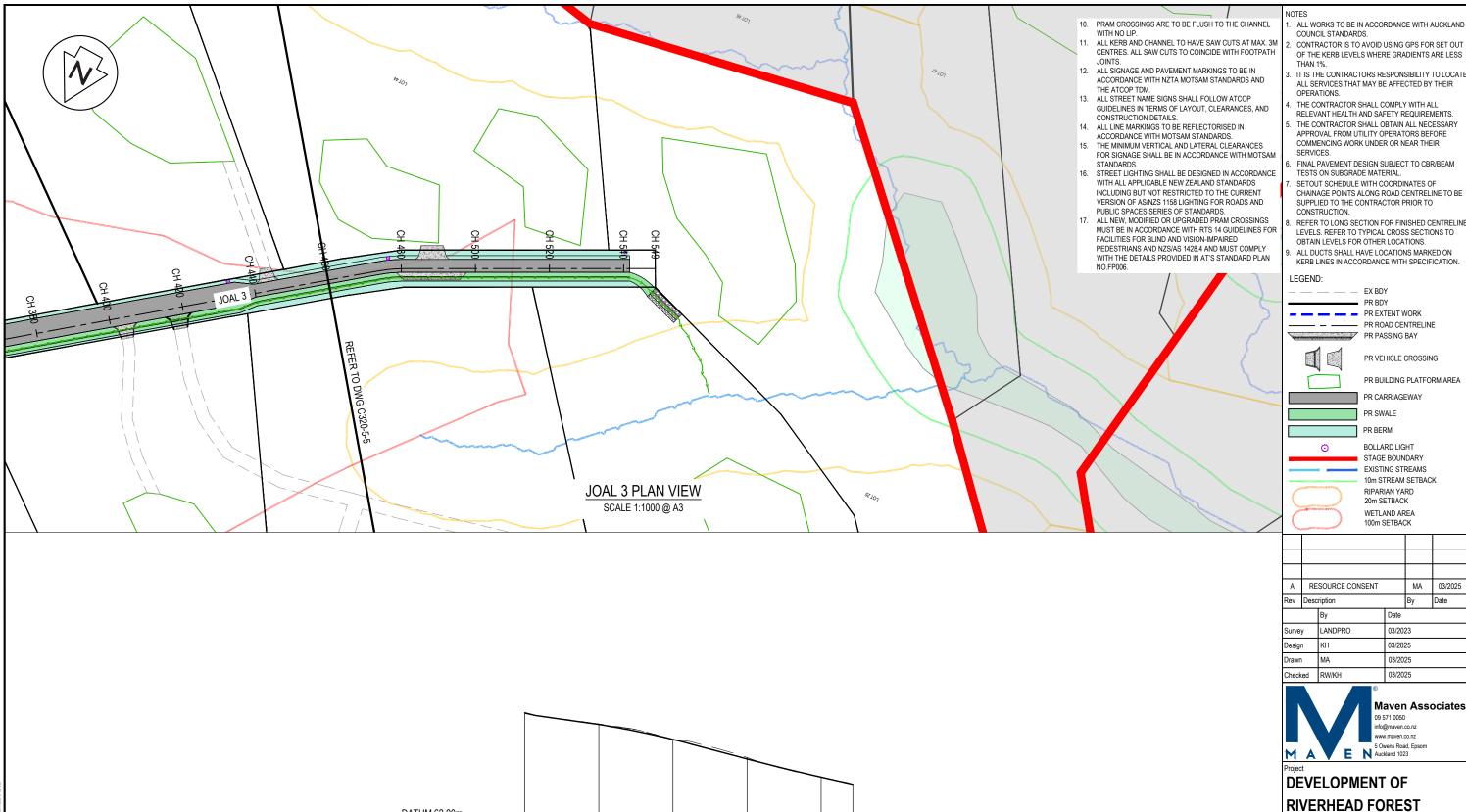
CHAINAGE

VERTICAL GEOMETRY

HORIZONTAL GEOMETRY







DATUM 62.00m EXISTING LEVELS DESIGN LEVELS CUT/FILL 17,20 13.20 VC 29.02, K 4.61 12.65 VC 20.00, K 10.68 10.83 VERTICAL GEOMETRY 12.1% -7.1% IP CH 490.58/RL 74.25 -13.3% IF CH-527.74/RL-69.29-11.5% CHAINAGE

174.09m R 37.98

231°16'20" A 6.86

HORIZONTAL GEOMETRY

RESOURCE CONSENT

PROPOSED - JOAL 3 CH 460.00 TO CH 548.56 SCALE: 1:1000 H / 1:500 V

67.83m

241°37'33"

PROPOSED STAGE 5 JOAL/ROADING

PARTNERSHIP

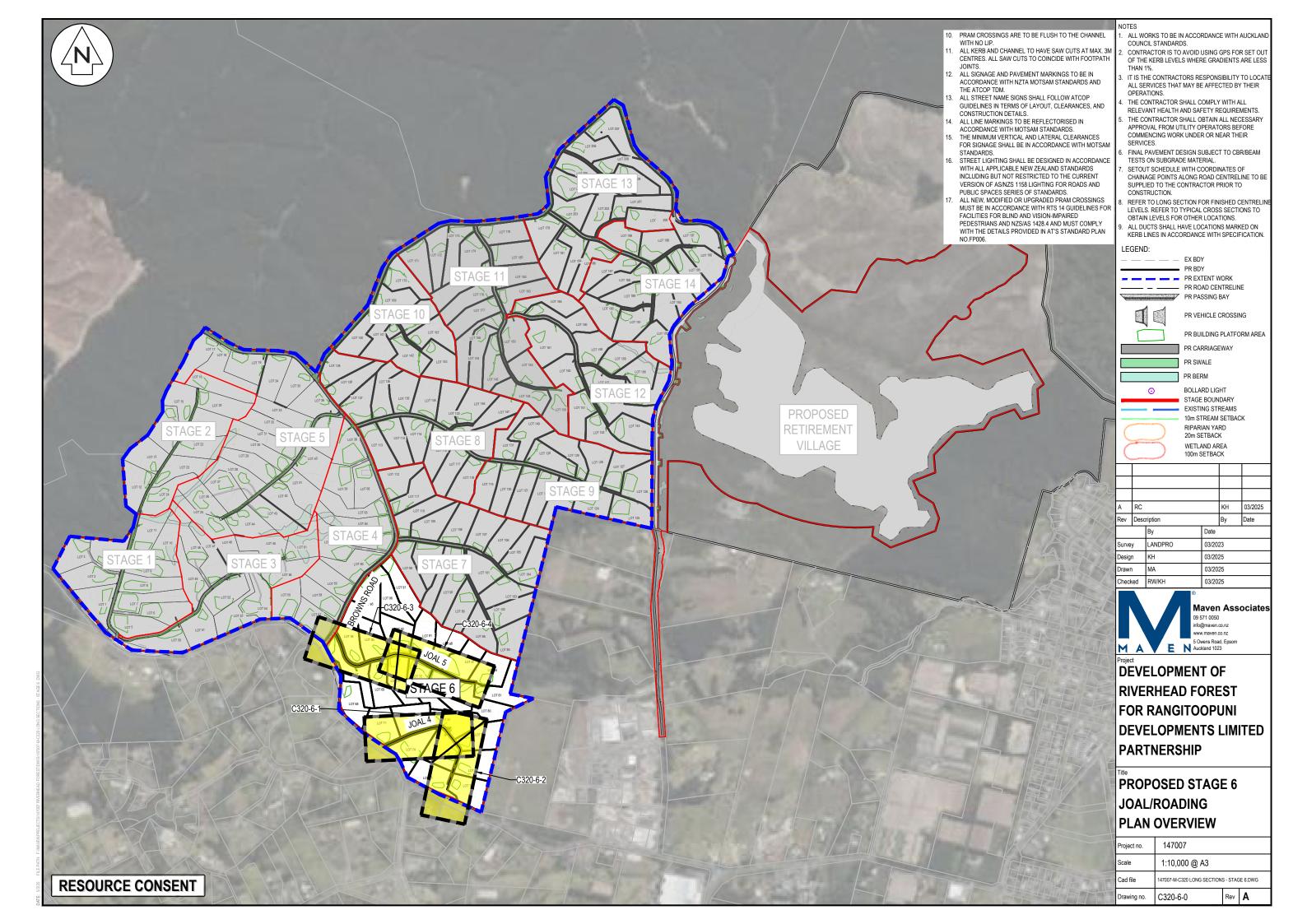
FOR RANGITOOPUNI

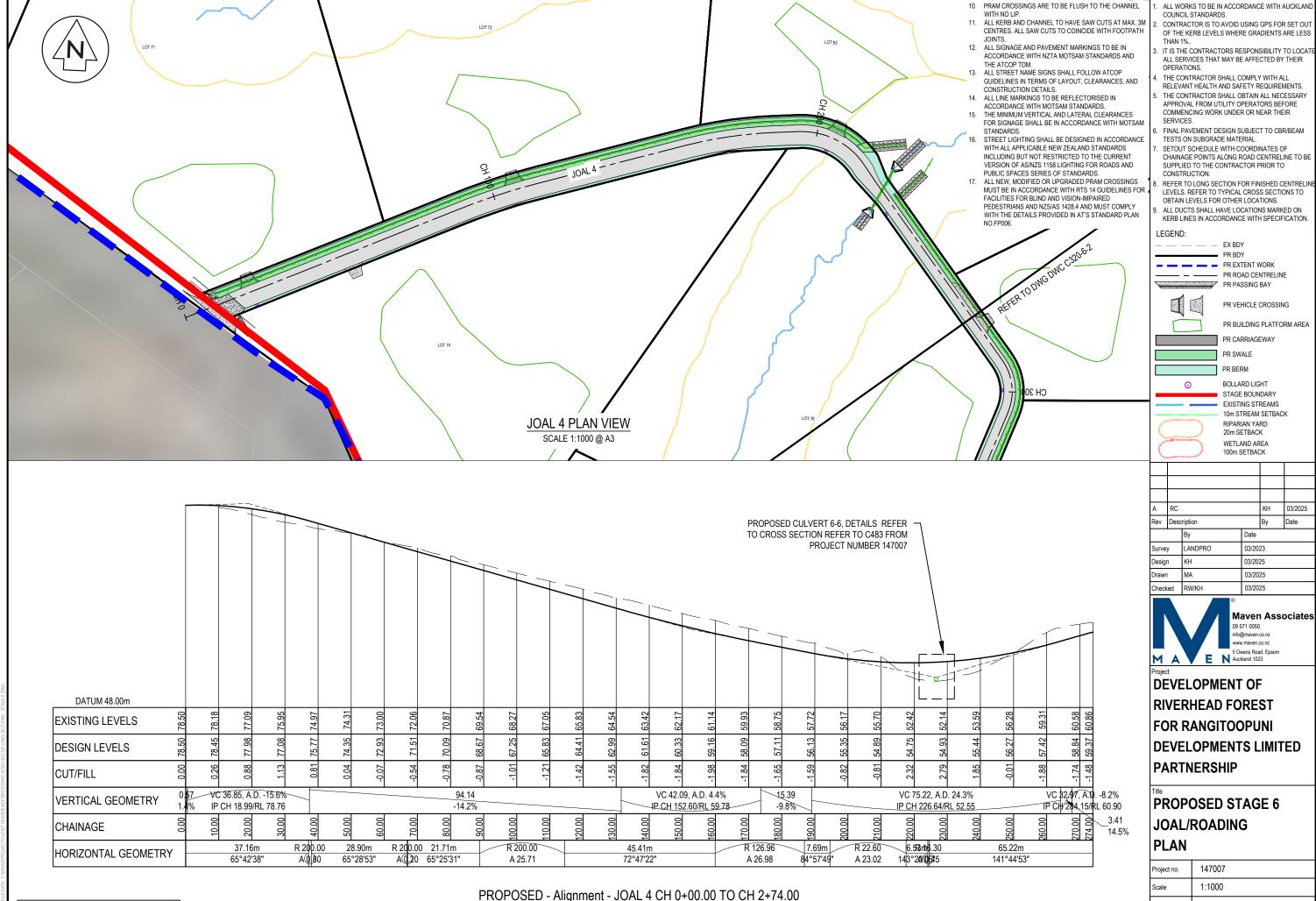
DEVELOPMENTS LIMITED

PLAN

147007 Project no. 1:1000 Cad file 47007-M-C320 LONG SECTIONS - STAGE 5.DWG C320-5-6

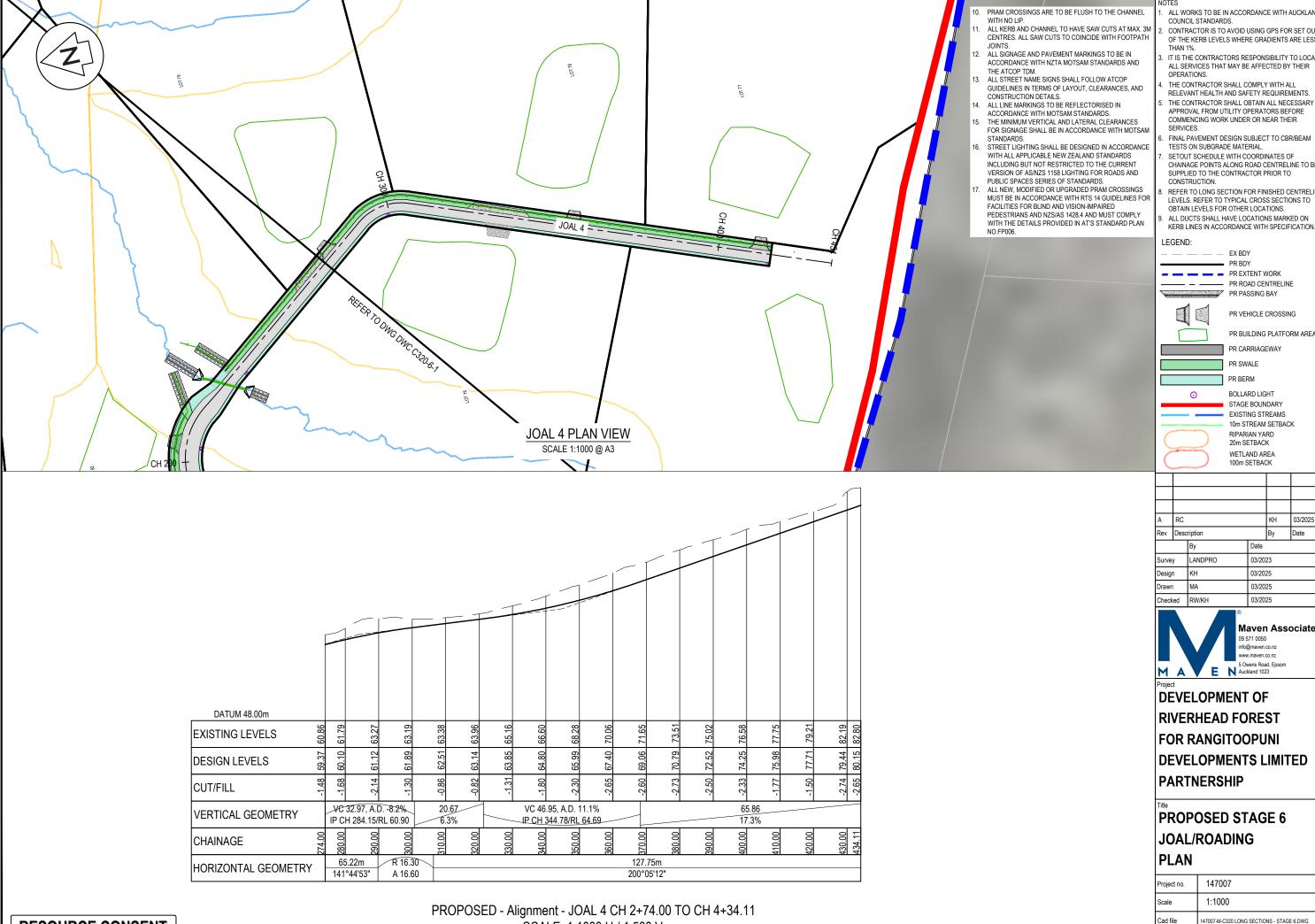
Date





SCALE: 1:1000 H / 1:500 V

47007-M-C320 LONG SECTIONS - STAGE 6.DWG C320-6-1



SCALE: 1:1000 H / 1:500 V

- ALL WORKS TO BE IN ACCORDANCE WITH ALICKLAN
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- ALL DUCTS SHALL HAVE LOCATIONS MARKED ON

■ PR BDY PR EXTENT WORK - PR ROAD CENTRELINE PR PASSING BAY

PR VEHICLE CROSSING

PR CARRIAGEWAY

PR SWALE PR BERM

> BOLLARD LIGHT STAGE BOUNDARY EXISTING STREAMS

10m STREAM SETBACK RIPARIAN YARD 20m SETBACK

WETLAND AREA 100m SETBACK

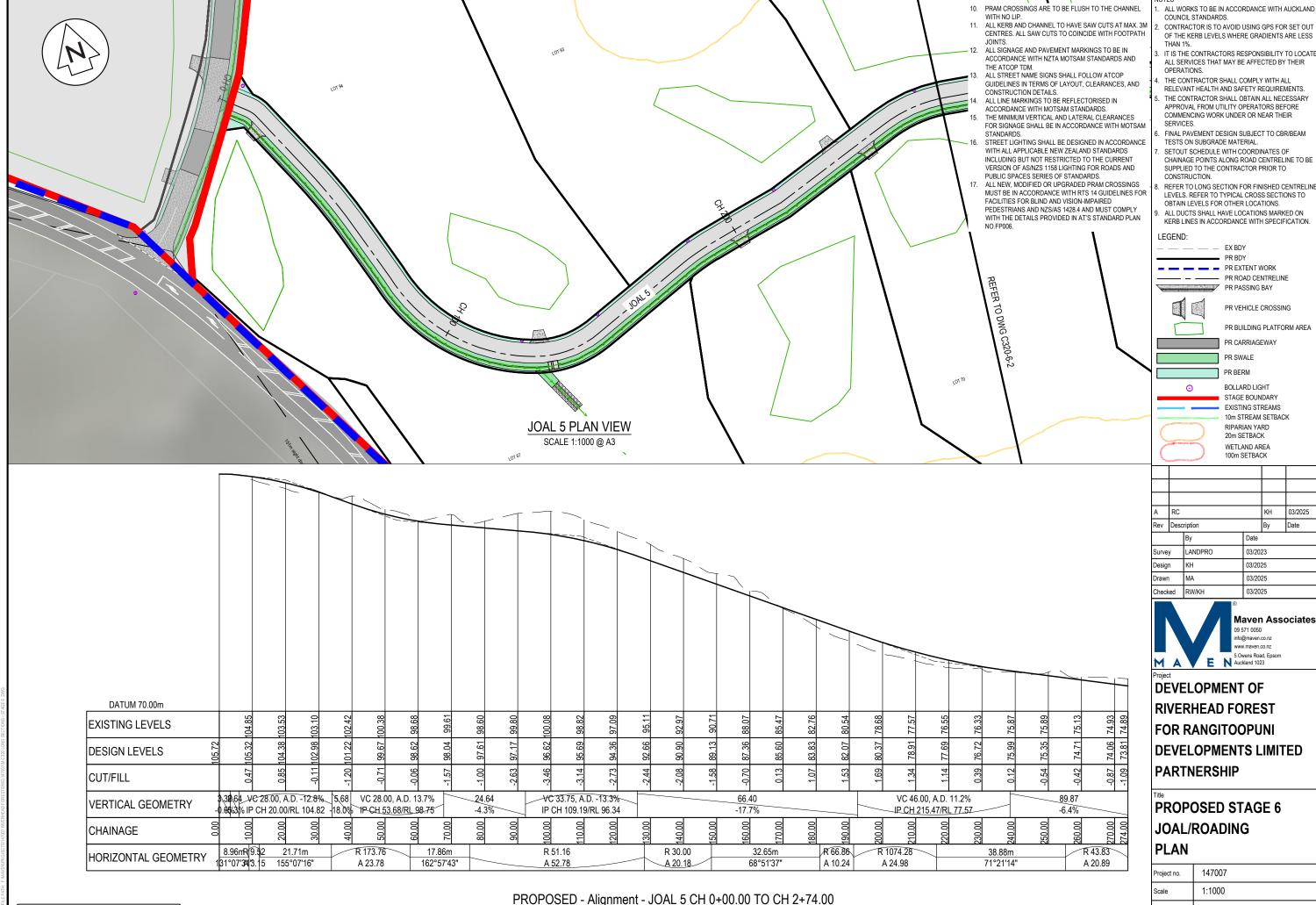
KH 03/2025 03/2023 03/2025 03/2025 03/2025



DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI **DEVELOPMENTS LIMITED**

PROPOSED STAGE 6 JOAL/ROADING

Project no.	147007					
Scale	1:1000					
Cad file	147007-M-C320 LONG SECTIONS - STAGE 6.DWG					
Drawing no.	C320-6-2	Rev	Α			



PROPOSED - Alignment - JOAL 5 CH 0+00.00 TO CH 2+74.00 SCALE: 1:1000 H / 1:500 V

- ALL WORKS TO BE IN ACCORDANCE WITH ALICKLAN
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- IT IS THE CONTRACTORS RESPONSIBILITY TO LOCAT
- THE CONTRACTOR SHALL COMPLY WITH ALL
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVAL FROM UTILITY OPERATORS BEFORE COMMENCING WORK UNDER OR NEAR THEIR
- FINAL PAVEMENT DESIGN SUBJECT TO CBR/BEAM
- SETOUT SCHEDULE WITH COORDINATES OF CHAINAGE POINTS ALONG ROAD CENTRELINE TO BI SUPPLIED TO THE CONTRACTOR PRIOR TO
- REFER TO LONG SECTION FOR FINISHED CENTRELIN LEVELS. REFER TO TYPICAL CROSS SECTIONS TO OBTAIN LEVELS FOR OTHER LOCATIONS.
- ALL DUCTS SHALL HAVE LOCATIONS MARKED ON

PR EXTENT WORK — PR ROAD CENTRELINE PR PASSING BAY

PR VEHICLE CROSSING

STAGE BOUNDARY EXISTING STREAMS 10m STREAM SETBACK RIPARIAN YARD

20m SETBACK WETLAND AREA 100m SETBACK

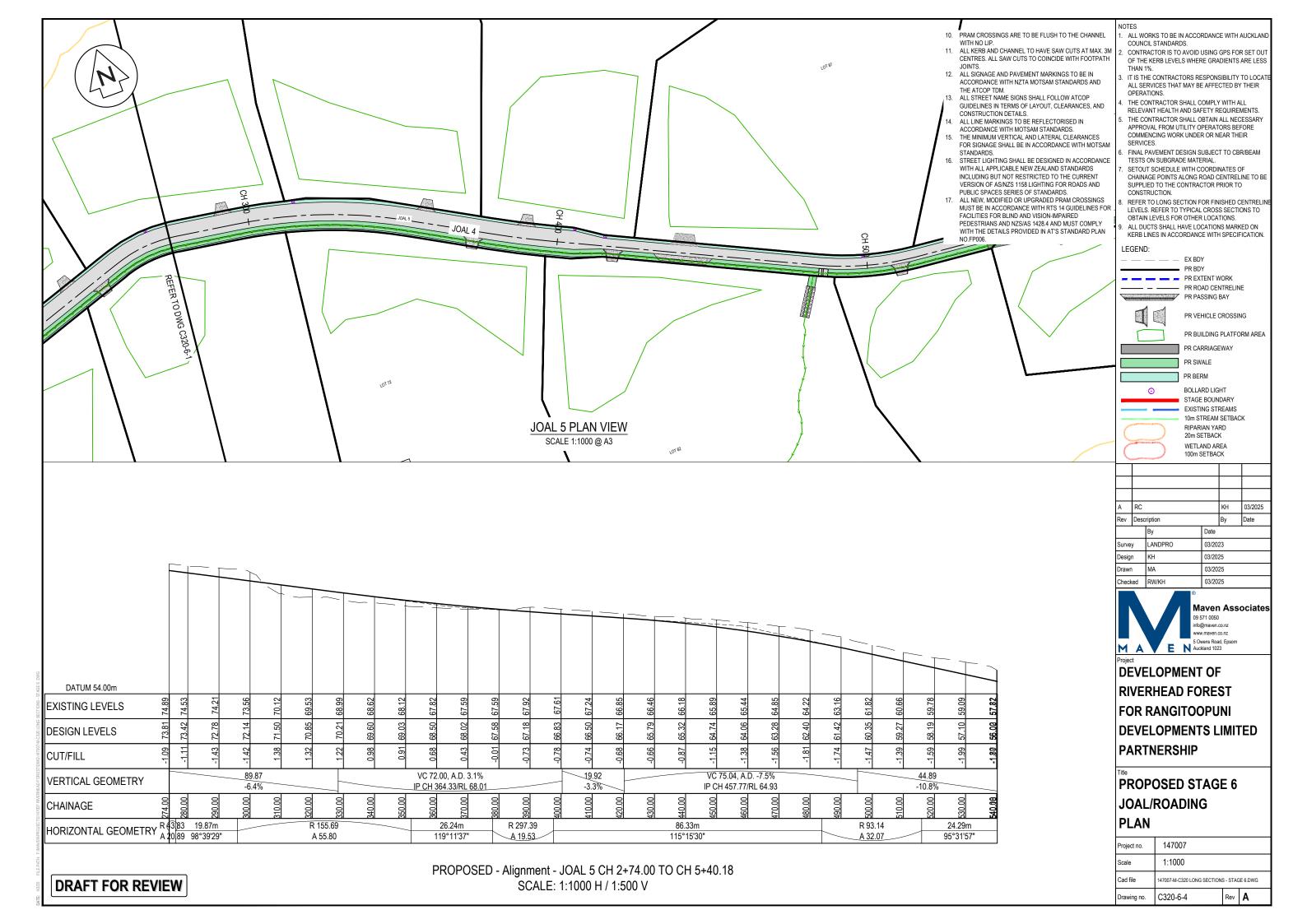
кн 03/2025

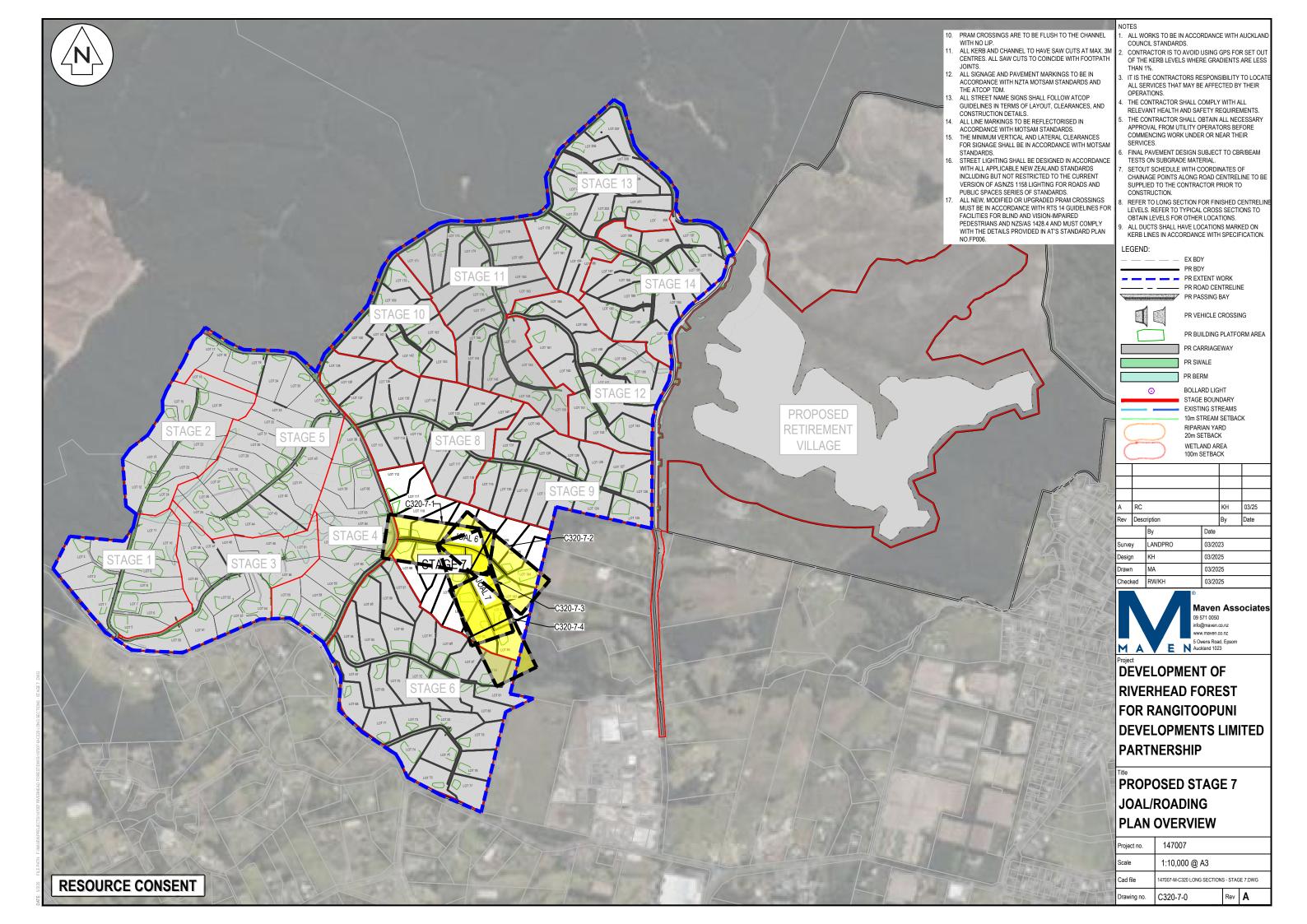
03/2023 03/2025 03/2025 03/2025

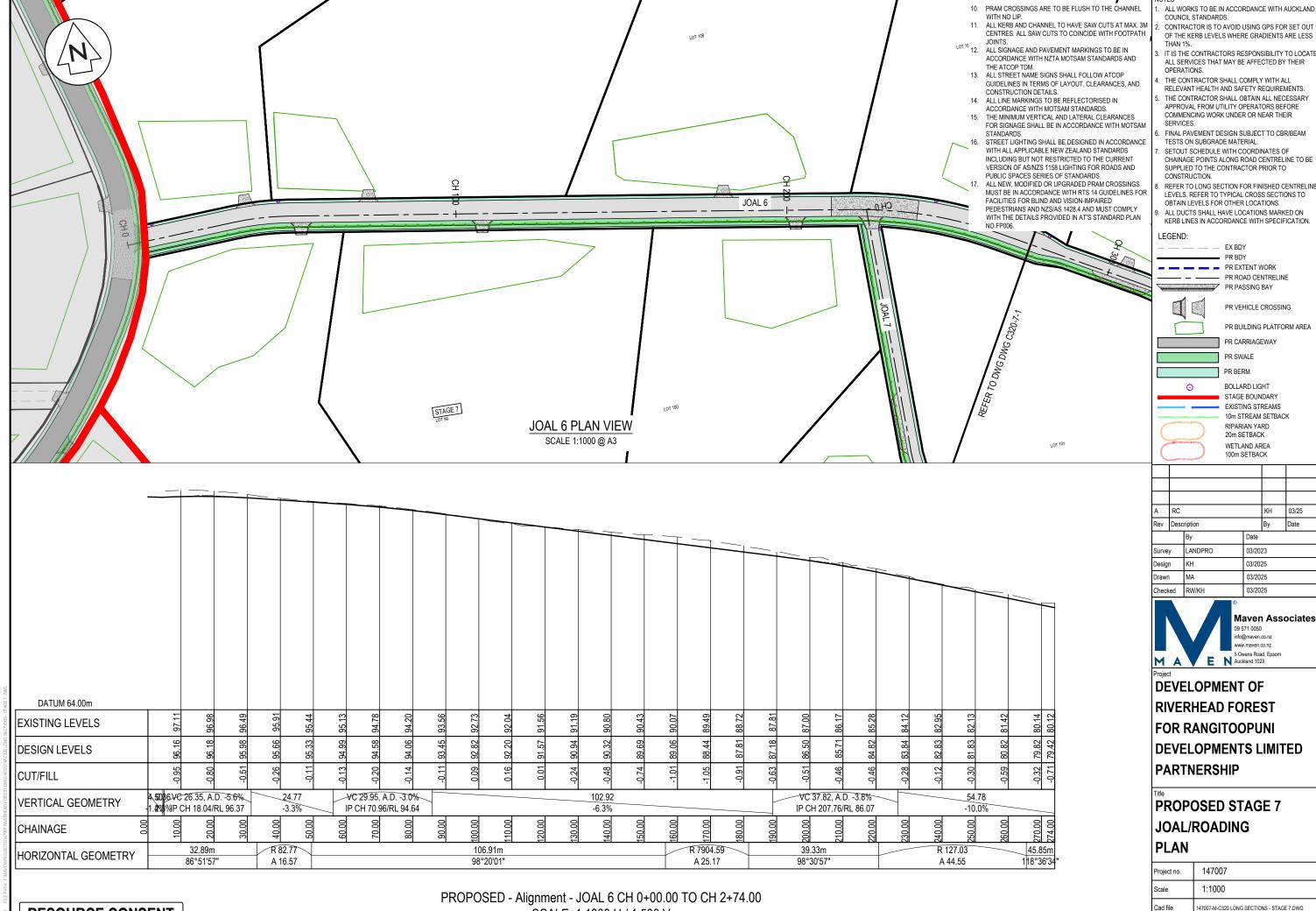
RIVERHEAD FOREST FOR RANGITOOPUNI **DEVELOPMENTS LIMITED**

PROPOSED STAGE 6

47007-M-C320 LONG SECTIONS - STAGE 6.DWG C320-6-3





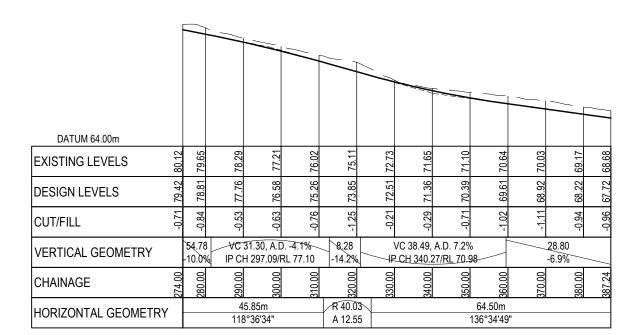


RESOURCE CONSENT

SCALE: 1:1000 H / 1:500 V

C320-7-1



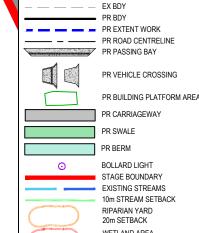


PROPOSED - Alignment - JOAL 6 CH 2+74.00 TO CH 3+87.24

SCALE: 1:1000 H / 1:500 V

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KERB LINES IN ACCORDANCE WITH SPECIFICATION.



Α	RC			KH	03/25		
Rev	Desc	ription		Ву	Date		
		Ву	Date				
Survey		LANDPRO	03/20	3/2023			
Design		КН	03/2025				
Drawn Checked		MA	03/2025				
		RW/KH	03/2025				



DEVELOPMENT OF RIVERHEAD FOREST FOR RANGITOOPUNI **DEVELOPMENTS LIMITED PARTNERSHIP**

PROPOSED STAGE 7 JOAL/ROADING **PLAN**

Project no.	147007					
Scale	1:1000					
Cad file	147007-M-C320 LONG SECTIONS - STAGE 7.DWG					
Drawing no.	C320-7-2	Rev	Α			

