

LOT 711 DP1128593, 3810 PRINCES HIGHWAY, GRIEGS FLAT. 15 LOT RURAL RESIDENTIAL SUBDIVISION CONCEPT DESIGN FOR DEVELOPMENT APPLICATION

CLIENT: GRAEME PAYTEN
DA: TBA
LGA: BEGA VALLEY SHIRE COUNCIL

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bermagui nsw 2546

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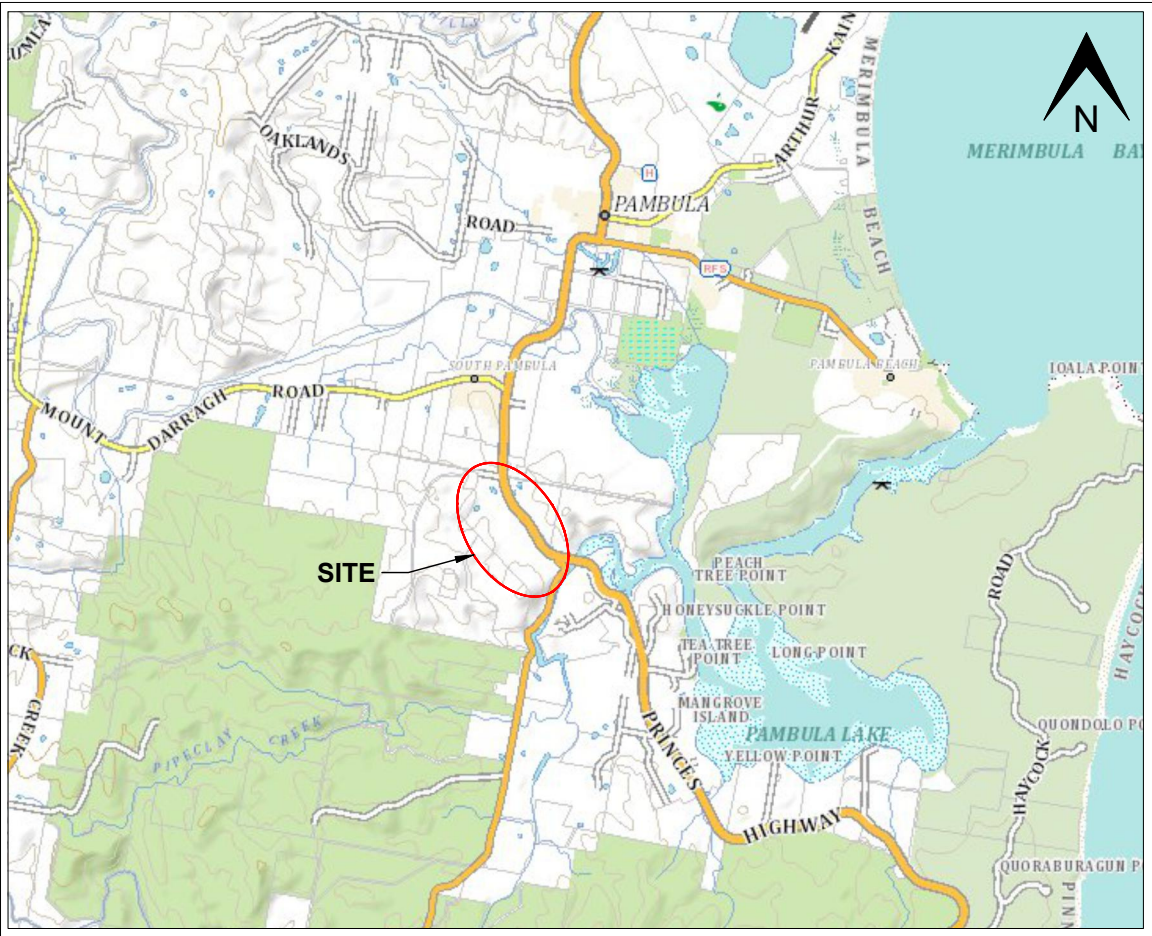
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DRAWING SCHEDULE

2110-P00TTL	TITLE SHEET & DRAWING SCHEDULE
2110-P01GA	GENERAL ARRANGEMENT
2110-P02NTS	NOTES & LEGEND
2110-P05TYPX	TYPICAL SECTIONS
2110-P10RHP	ROAD HIERARCHY PLAN
2110-P11LS	ROAD 1 - LONGITUDINAL SECTION
2110-P12LS	ROAD 2 - LONGITUDINAL SECTION - SHEET 1
2110-P13LS	ROAD 2 - LONGITUDINAL SECTION - SHEET 2
2110-P14LS	ROAD 3 - LONGITUDINAL SECTION
2110-P15LS	ROW - LONGITUDINAL SECTION
2110-P16LS	FT 1 - LONGITUDINAL SECTION - SHEET 1
2110-P17LS	FT 1 - LONGITUDINAL SECTION - SHEET 2
2110-P50SW	STORMWATER CATCHMENT PLAN
2110-P51SW	STORMWATER ARRANGEMENT

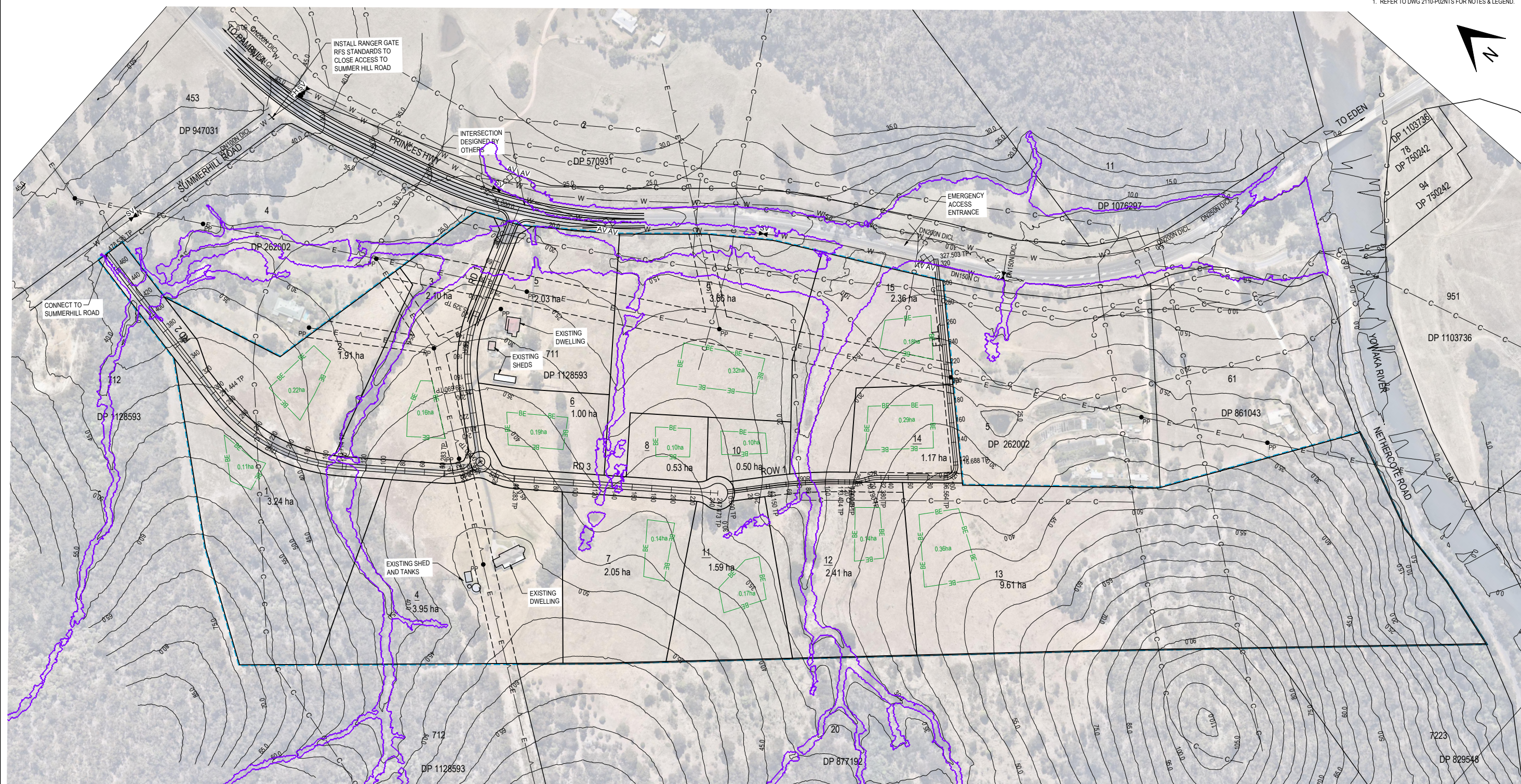


LOCALITY PLAN
N.T.S

Date: Thursday, 2 December 2021 9:53:51 AM

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G1. ALL WORKS DESIGNED WITH REFERENCE TO:
AUS-SPEC1 – DEVELOPMENT DESIGN SPECIFICATION AS AMENDED BY BEGA VALLEY SHIRE COUNCIL
BEGA VALLEY DEVELOPMENT CONTROL PLAN 2013 – AMENDED JULY 2016

G2. THESE DRAWINGS ILLUSTRATE THE CONCEPT DESIGN OF THE NECESSARY CIVIL ASSET NETWORKS TO SERVICE THE PROPOSED DEVELOPMENT TO INFORM THE ASSESSMENT OF THE DEVELOPMENT APPLICATION FOR SUBDIVISION OF LOT 711 DP1128593, 3810 PRINCES HIGHWAY, GRIEFS FLAT.

SV3. SURVEY DETAILS – HEIGHT DATUM – PM 2396 AHD

U1. EXISTING SERVICES HAVE BEEN DIGITISED FROM AVAILABLE DATA (DBYD - JOB 30196025) PROVIDED BY THE UTILITY AUTHORITIES, SITE SURVEY AND PARTIAL SITE RECONNAISSANCE. ACCURATENESS AND COMPLETENESS IS NOT GUARANTEED.

LOT NO., DP NO.

JOINT DEFLECTION - VERTICAL

SEWER FUTURE MAINS

STORMWATER FUTURE MAINS

TRENCH STOP SCOUR STOP SPACING AS NOTED

HIGH END RISER, FLUSHING POINT

GAS

STATE SURVEY MARK

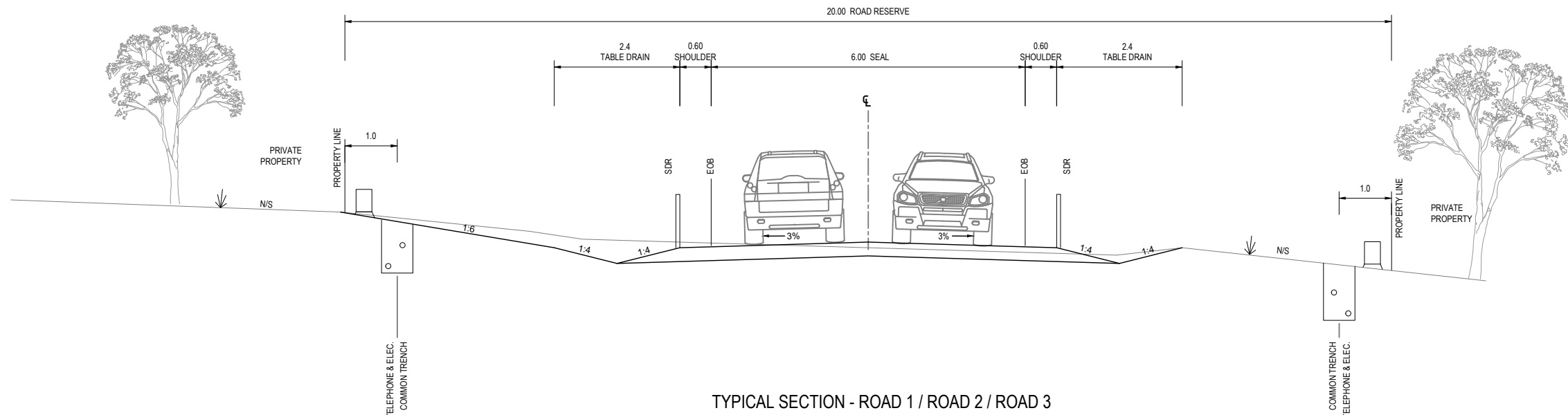
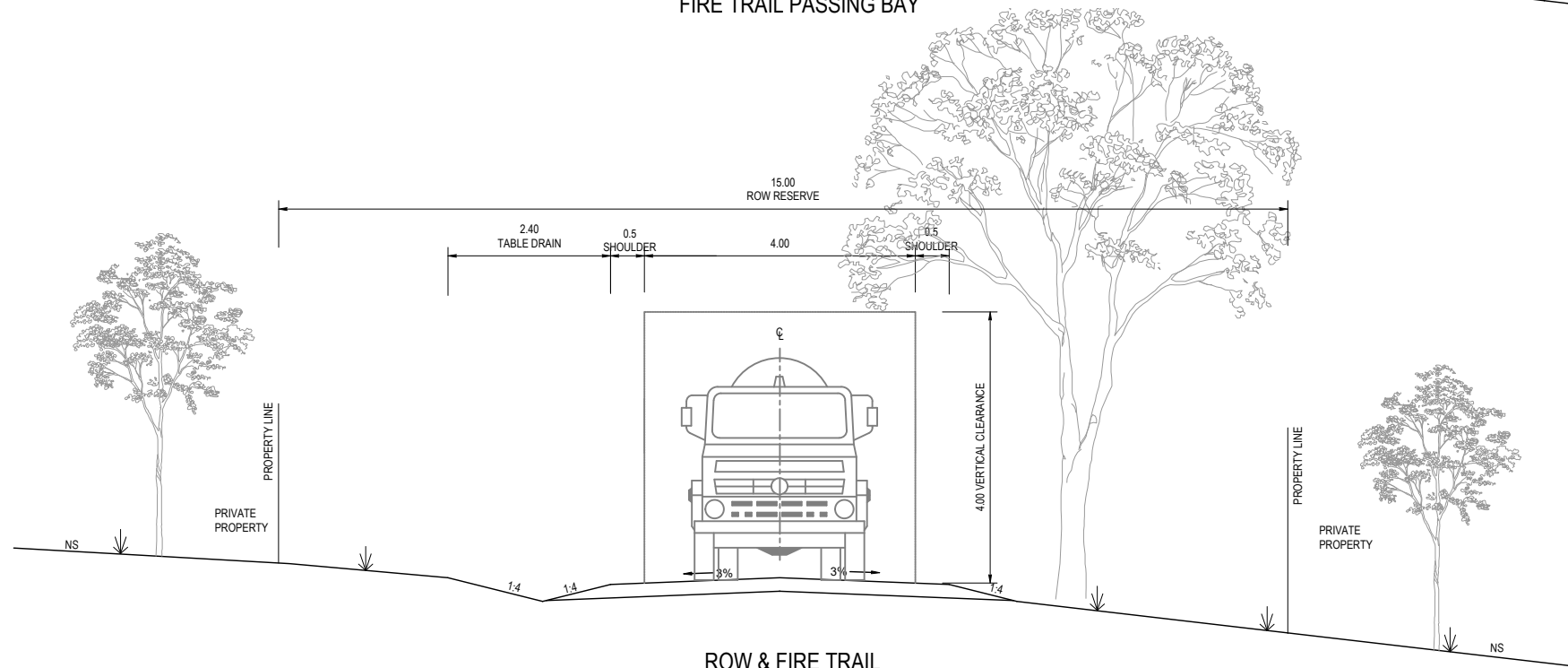
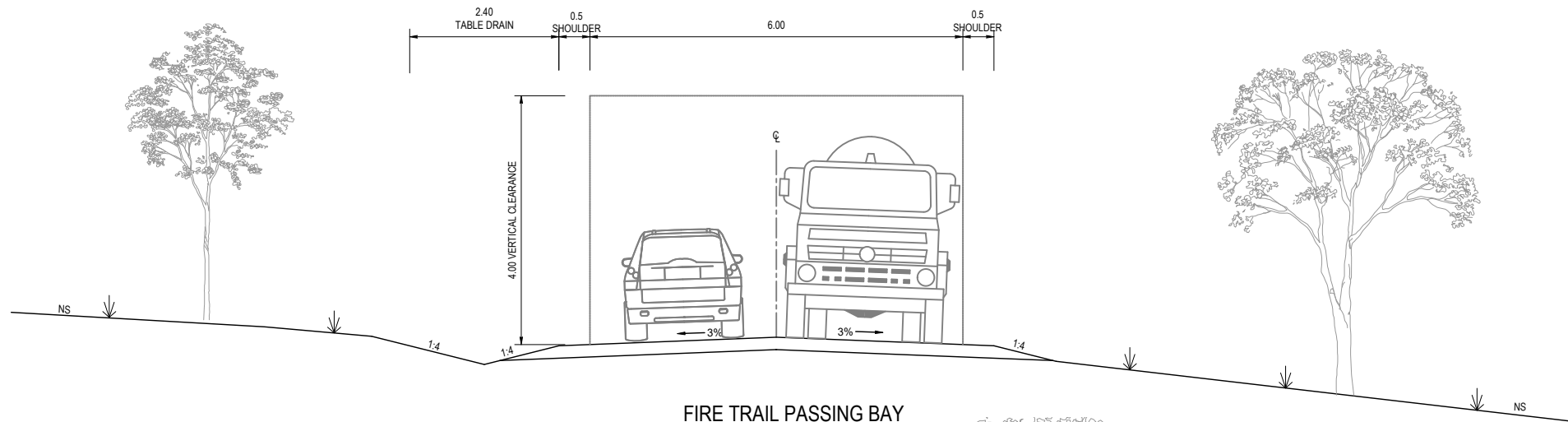
PIPE GRADE (%)



KERB & GUTTER
LAYBACK KERB

KG

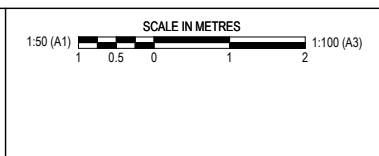
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-	INITIAL ISSUE	VAO	WP	VAO	VAO
No.	REVISION	DESIGNED	DRAWN	CHECKED	APPROVED

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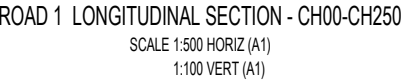
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Survey datum: FM 2396 AHD
Date: 3/08/2021
Coordinate system: GDA94 MGA55

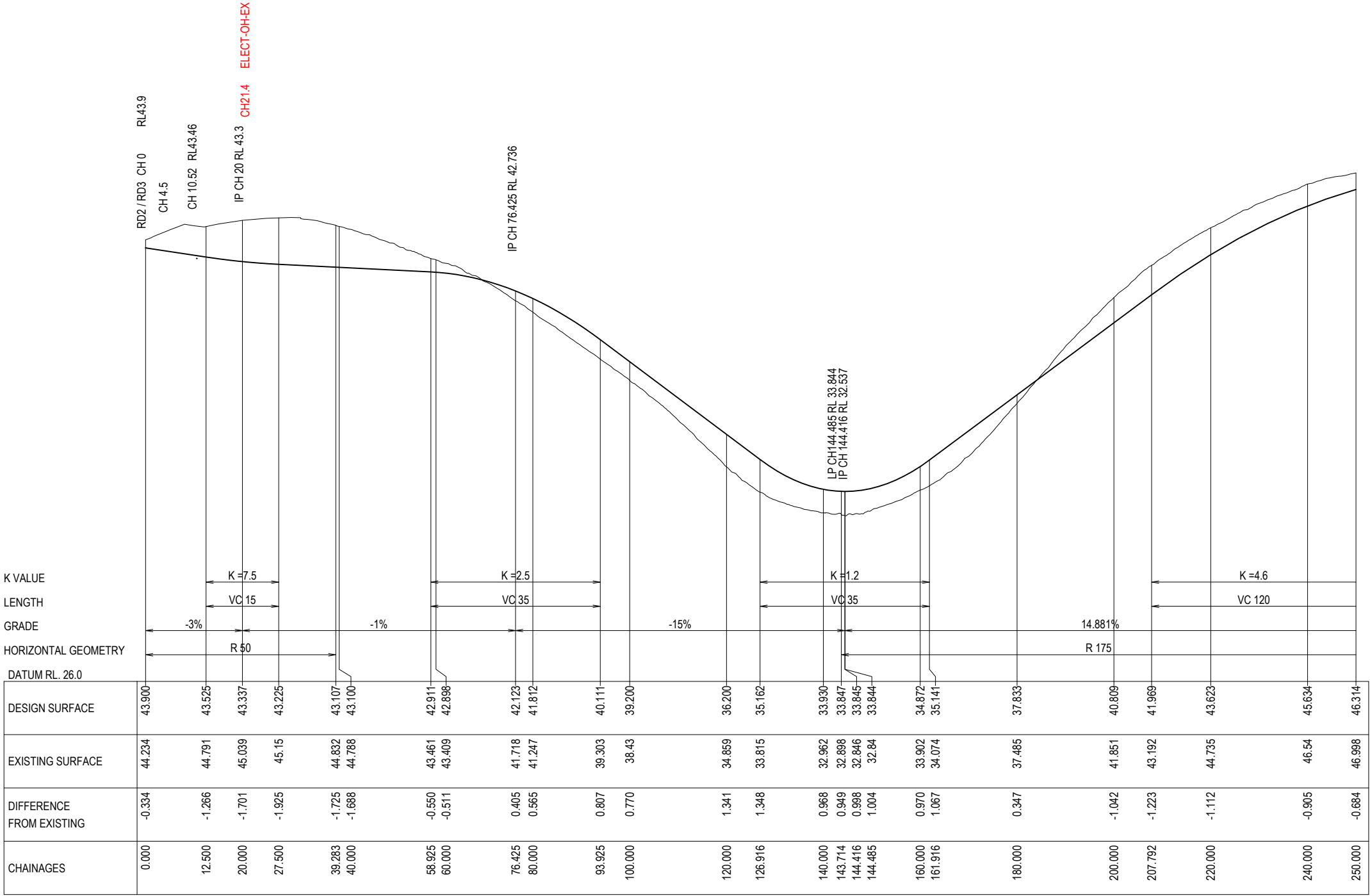
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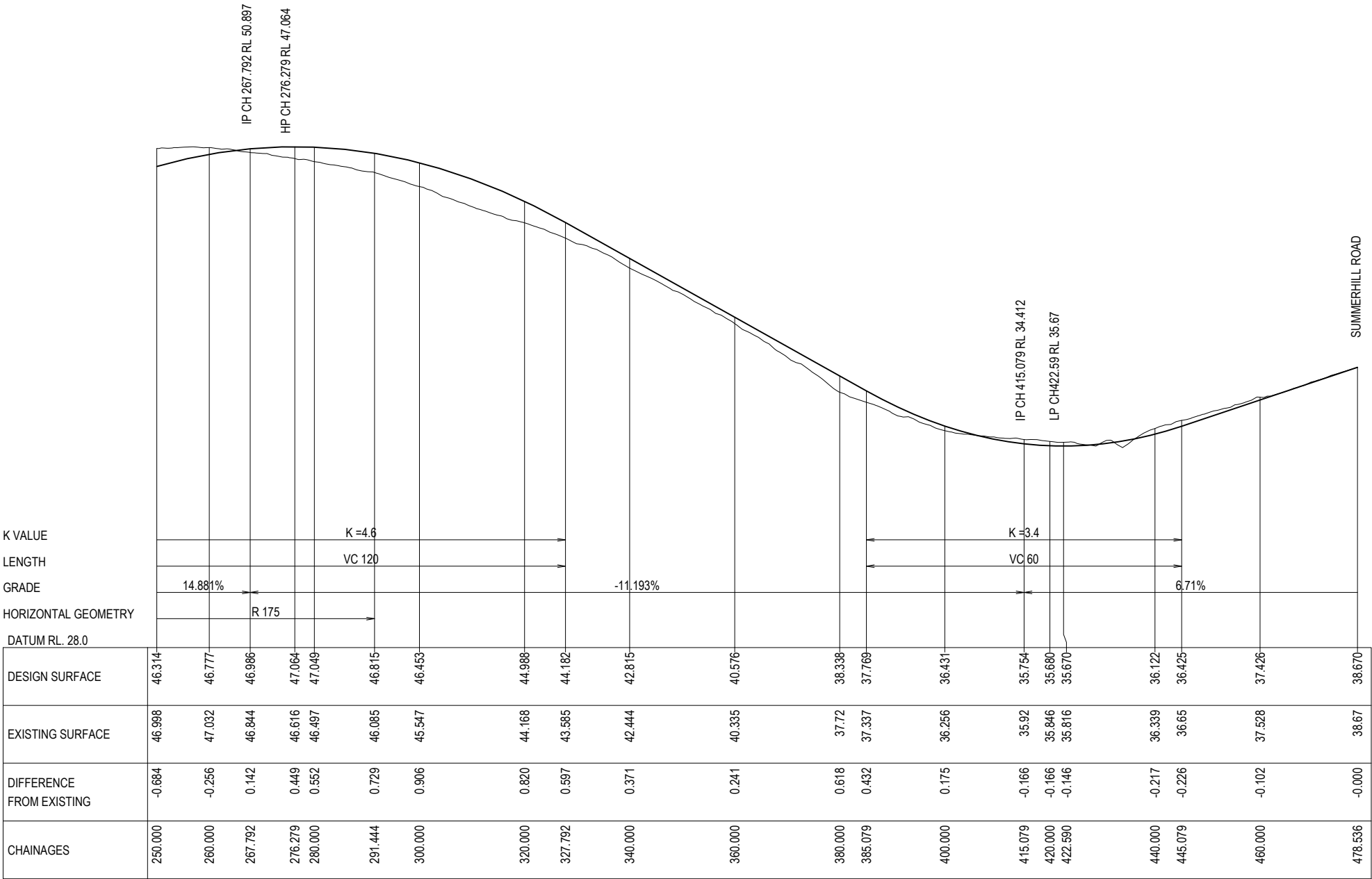
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CLIENT	GRAEME PAYTEN
PROJECT	LOT 711, DP1128593, 3810 PRINCES HWY, GRIEGS FLAT
TITLE	TYPICAL SECTIONS
DRAWING NUMBER	2110-P05TYPX
AMENDMENT:	

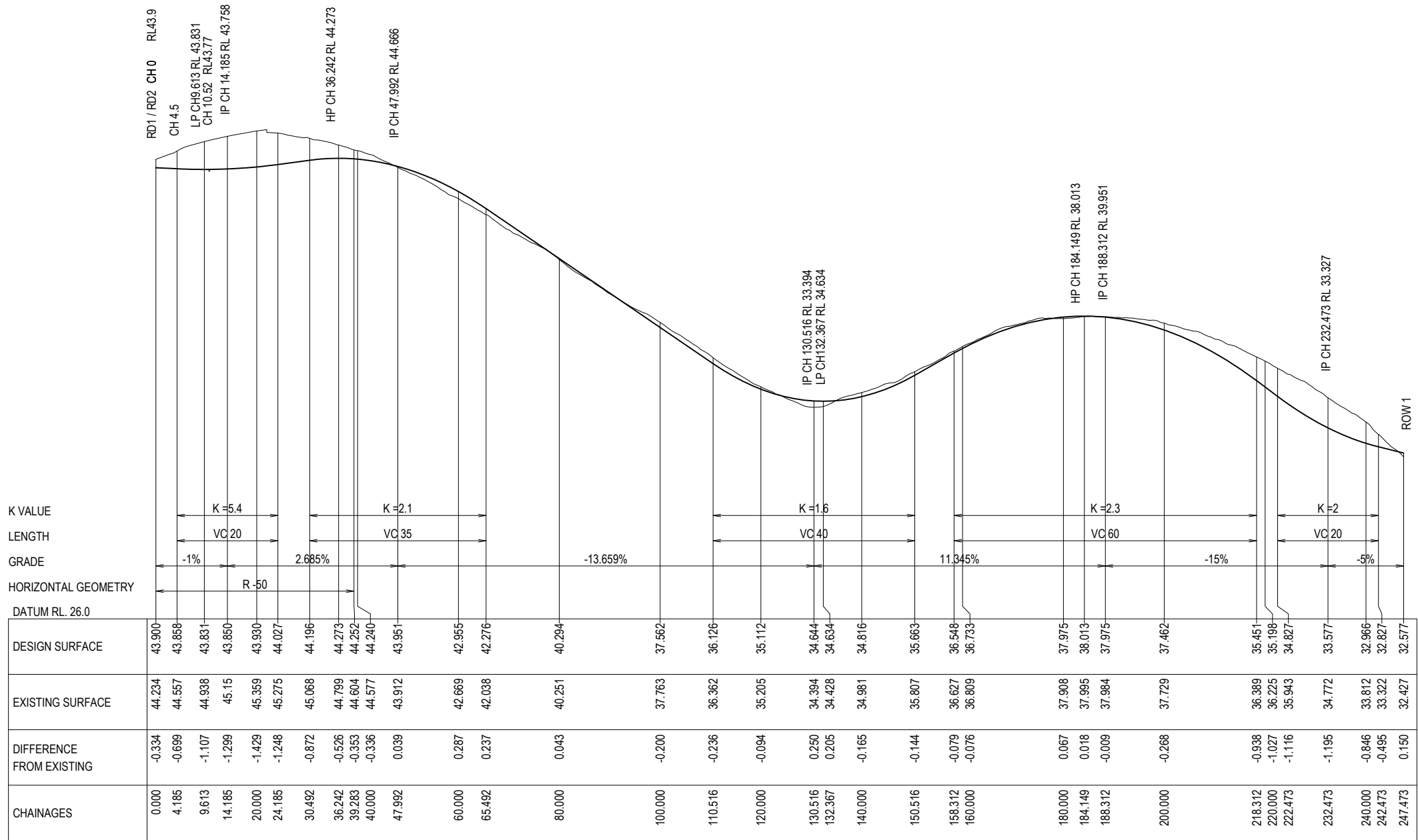
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ROAD 2 LONGITUDINAL SECTION - CH00-CH260
SCALE 1:500 HORIZ (A1)
1:100 VERT (A1)



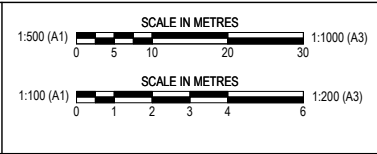
ROAD 2 LONGITUDINAL SECTION - CH250-CH END
SCALE 1:500 HORIZ (A1)
1:1:0 VERT (A1)



ROAD 3 LONGITUDINAL SECTION - CH00-CH END
SCALE 1:500 HORIZ (A1)
1:100 VERT (A1)

-	INITIAL ISSUE	PIB	WP	VAO	VAO
No.	REVISION	DESIGNED	DRAWN	CHECKED	APPROVED
					DATE

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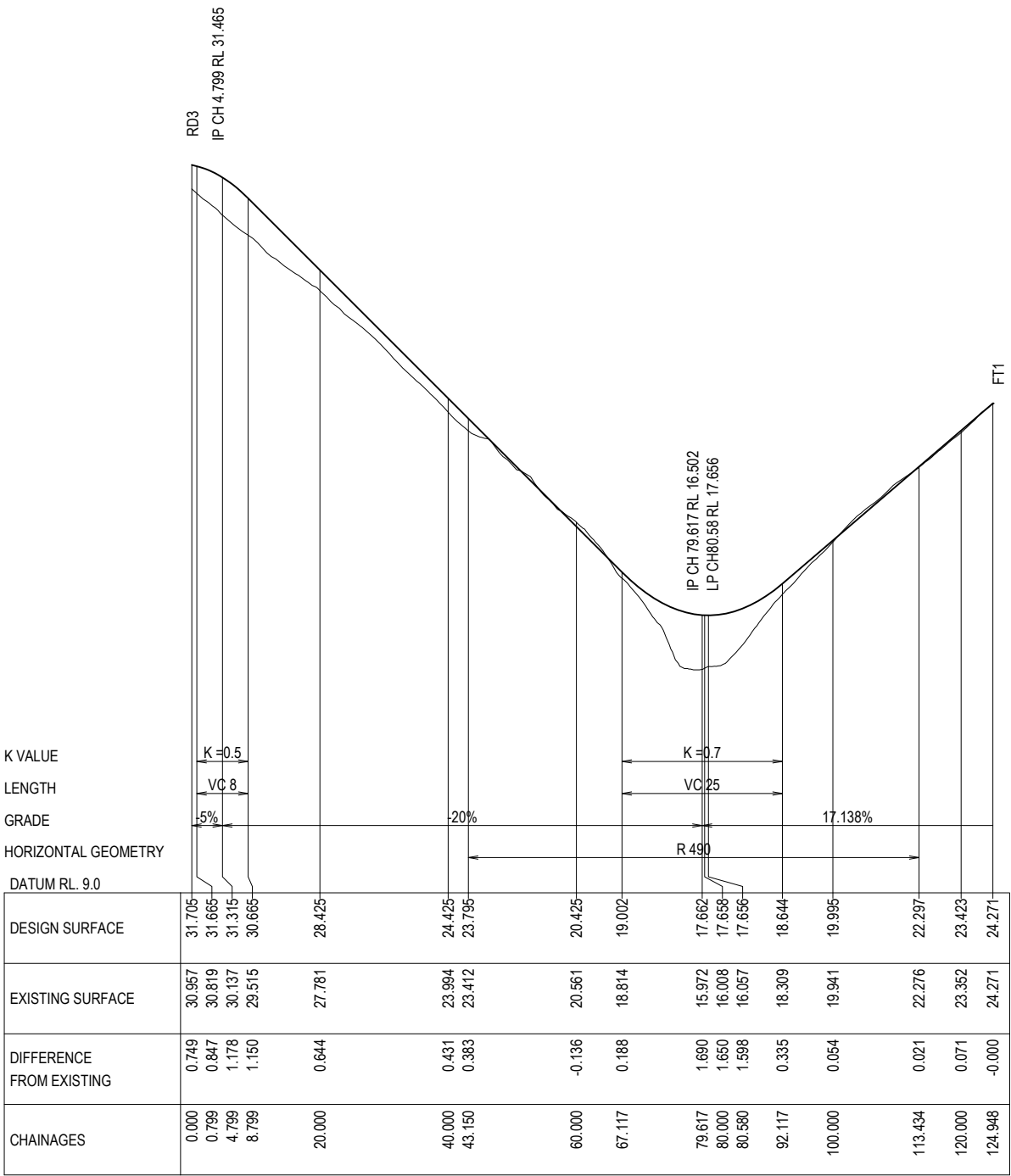
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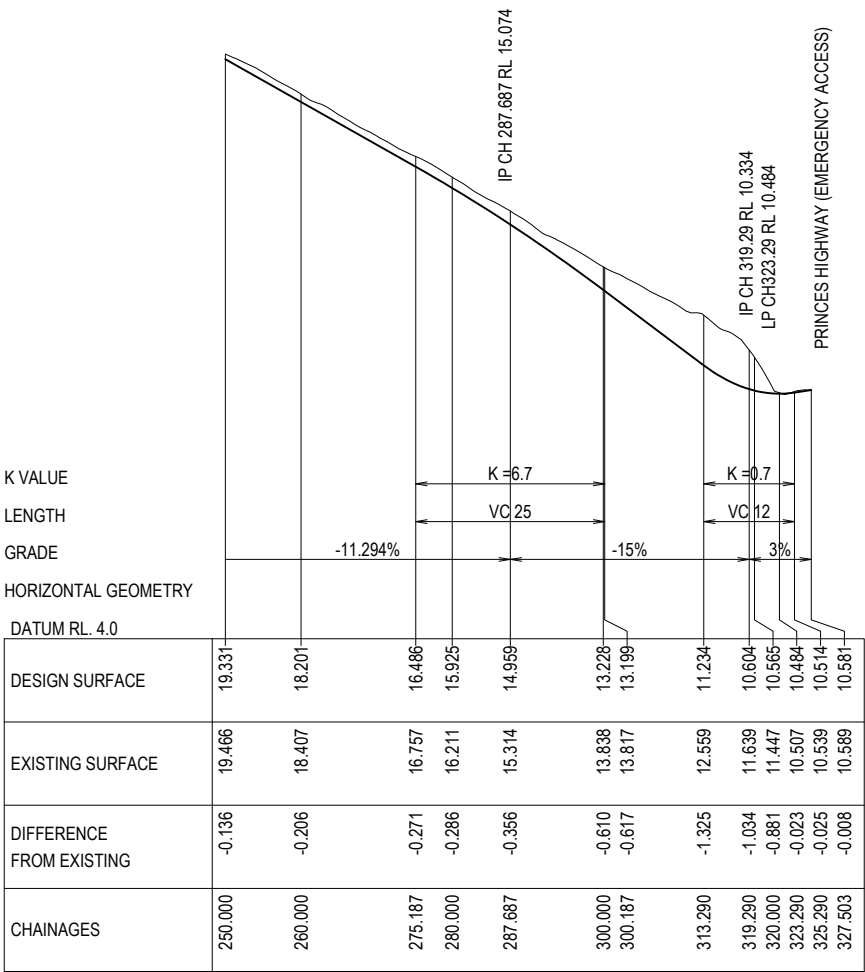
CLIENT PROJECT TITLE	GRAEME PAYTEN LOT 711, DP1128593, 3810 PRINCES HWY, GRIEGS FLAT
DRAWING NUMBER	ROAD 3 - LONGITUDINAL SECTION 2110-P14LS
AMENDMENT:	



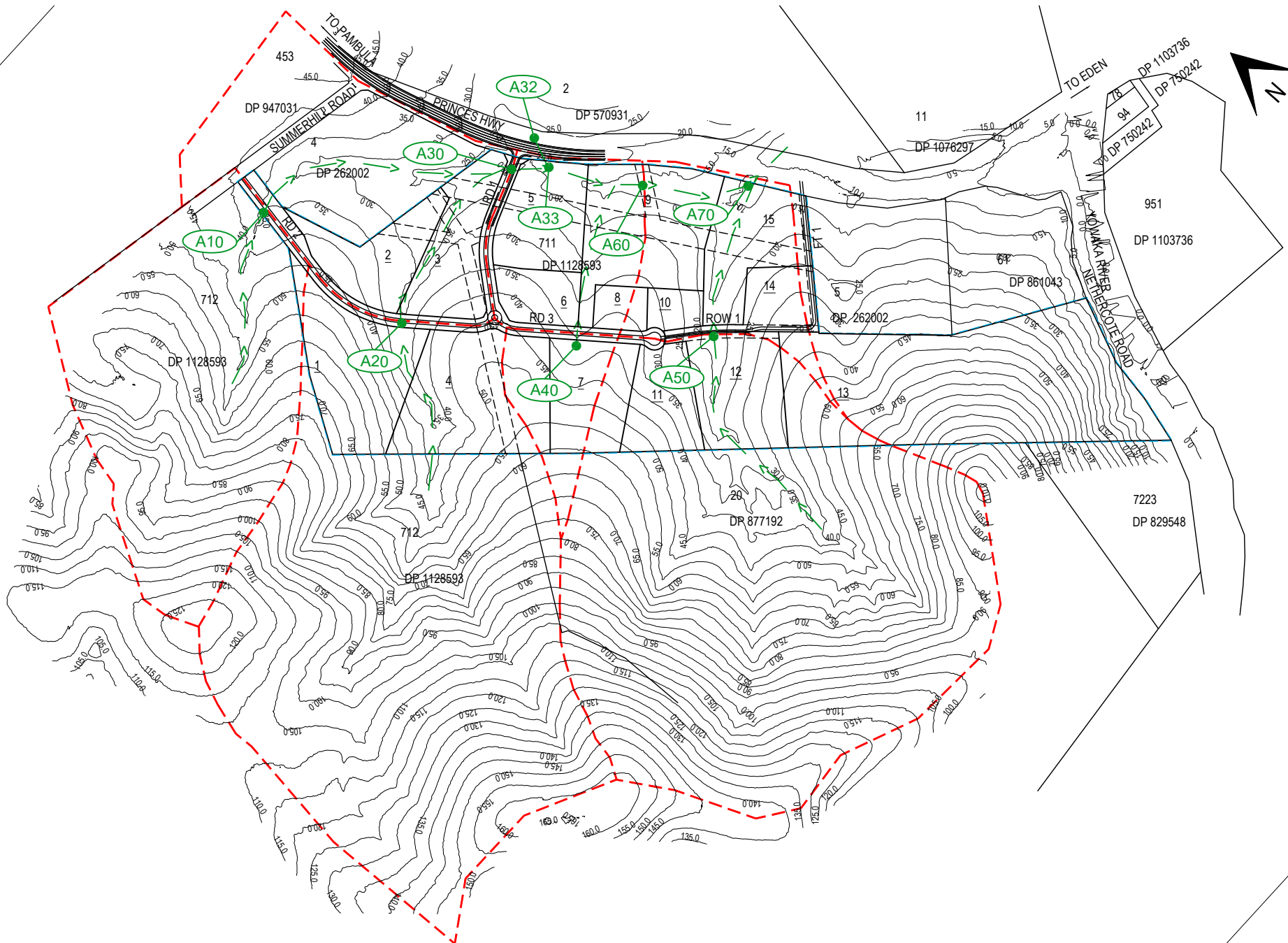
RIGHT OF WAY LONGITUDINAL SECTION - CH00-CH124.948
SCALE 1:500 HORIZ (A1)
1:100 VERT (A1)

SCALE 1:500 HORIZ (A1)
1:100 VERT (A1)

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FIRE TRAIL 1 LONGITUDINAL SECTION - CH250-CH END
SCALE 1:500 HORIZ (A1)
1:100 VERT (A1)



- NOTES:
1. PEAK STORMWATER RUNOFF RATES WERE CALCULATED USING XP STORM SOFTWARE
 2. ROUTING METHOD – LAURENSEN.
 3. STORMS MODELLED (BASED ON ARR 2016 TEMPORAL PATTERN ENSEMBLES FOR SOUTHERN SLOPES, MAINLAND (VIC/NSW)) INCLUDE:
20% AEP – 10MIN, 15MIN, 20MIN, 25MIN, 30MIN, 45MIN, 1HR, 1.5HR, 2HR, 3HR,
1% AEP – 10MIN, 15MIN, 20MIN, 25MIN, 30MIN, 45MIN, 1HR, 1.5HR, 2HR, 3HR,
 4. RAINFALL - BOM IFD (ARR 2016) – PAMBULA, NSW
 5. INFILTRATION/LOSS METHOD – UNIFORM LOSS:
PERVIOUS: INITIAL 21MM, CONTINUING (ABSOLUTE) 6.1MM APR2016 NATURAL
DEPRESSION STORAGE: PERVIOUS & IMPERVIOUS 0.0MM.
 6. IMPERVIOUS FRACTION – AS PER TABLE.
 7. TOTAL SIMULATION TIME – 4 HOURS
 8. STORMWATER MODELLING DID NOT INCLUDE ANY SURFACE WATER STORAGE
 9. OPEN CHANNEL FLOW CALCULATIONS – MANNINGS, $n=0.011$ (RCP), 0.015 (PAVEMENT), 0.035 (GRASS).

RESULTS:

Node	Subcatchment Area [ha]	Subcatchment Impervious Fraction [%]	Existing				1% AEP	
			20% AEP			Peak Median Runoff [m ³ /s]	Critical Storm [min, hr]	Ensemble #
			Peak Median Runoff [m ³ /s]	Critical Storm [min, hr]	Ensemble #			
A10	16.439	0%	1.202	1.5hr	7	4.121	20min	5
A20	37.697	0%	2.475	1.5hr	6	8.106	30min	5
A30	14.084	0%	4.441	1.5hr	6	14.407	30min	1
A32	13.082	0%	0.919	1.5hr	8	3.036	30min	8
A33			5.258	1.5hr	6	17.338	30min	1
A40	2.689	0%	0.259	1.5hr	5	0.878	20min	8
A50	35.247	0%	2.251	1.5hr	6	7.460	45min	6
A60	5.783	0%	5.780	1.5hr	6	19.134	30min	1
A70	6.083	0%	8.388	1.5hr	6	27.826	30min	1

