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

GRAEME PAYTEN CLIENT:

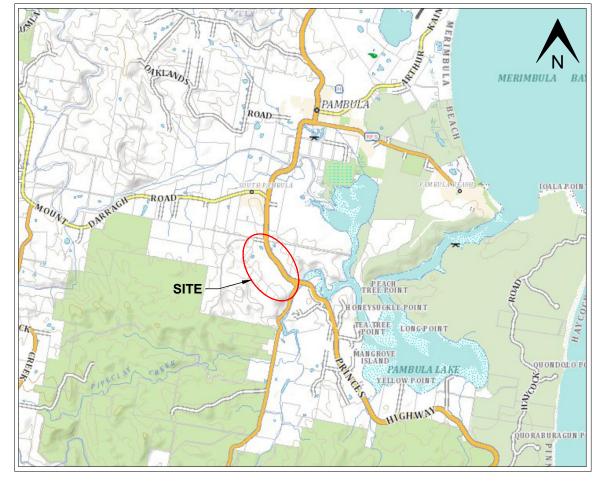
DA: TBA

LGA: BEGA VALLEY SHIRE COUNCIL



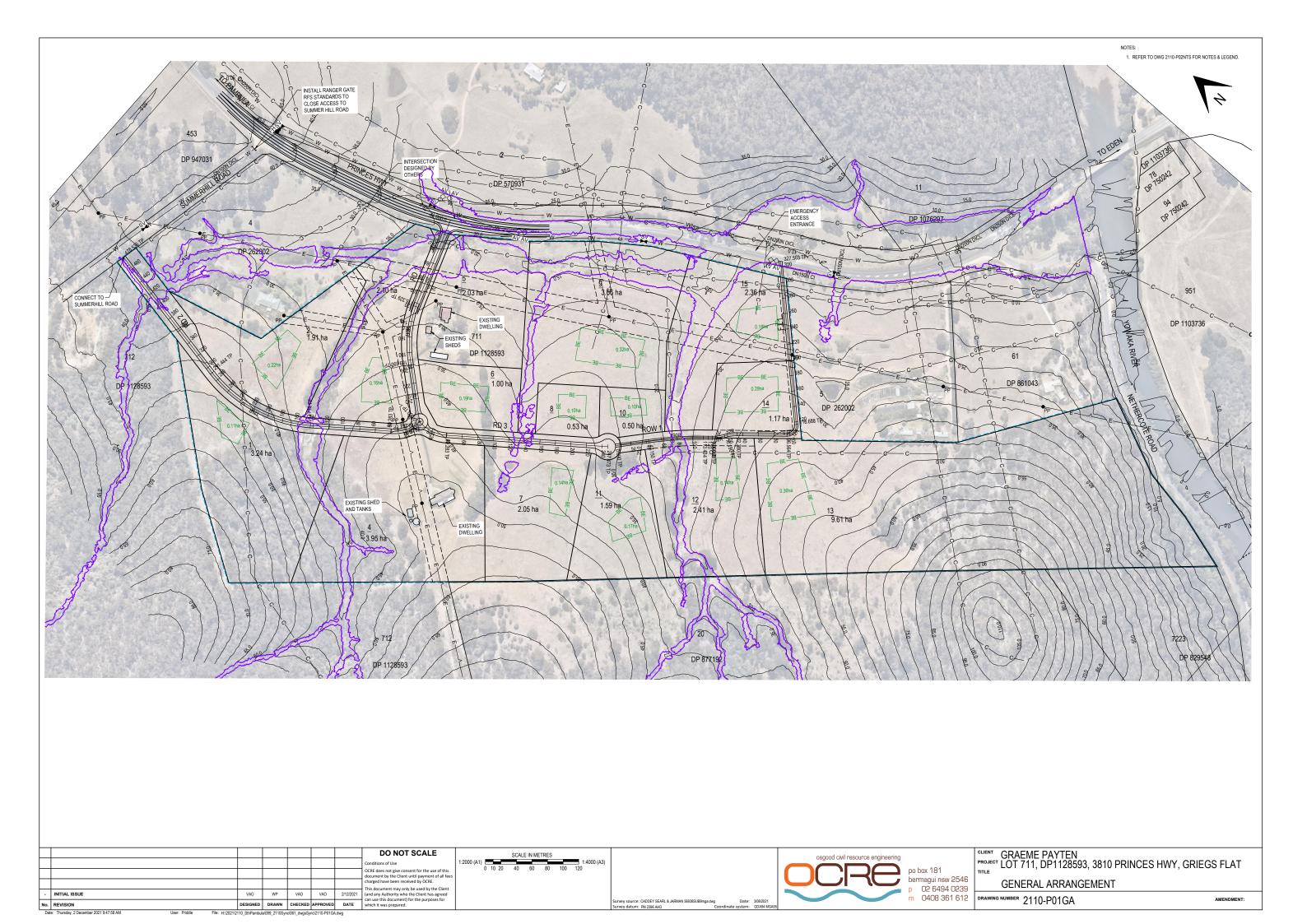
DRAWING SCHEDULE

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

JOB No. 2110



GENERAL NOTES

- 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
- 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, GRIEGS FLAT.

UTILITIES

SURVEY/SETOUT SV1. CONTOUR AND EXISTING SITE INFORMATION PROVIDED BY: CADDEY SEARL & JARMAN 56938SUB9mga.dwg SV2. CONTOUR INFORMATION OUTSIDE OF DETAIL SURVEY EXTENTS ARE INDICATIVE AND FOR INFORMATION ONLY, SOURCE – NSW SPATIAL SERVICES 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 GUARANTEE

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LEGEND

PROPERTY

WATER

FASEMENT, WIDTH LOT NO., DP NO.

PROPERTY BOUNDARY, LENGTH (M)

WATER - DIAMETER, ENDCAP

WATER SERVICE TIE. METER

WATER REDUCED PRESSURE ZONE DEVICE

SEWER MAIN - FLOW, MANHOLE, NUMBER, DIAMETER

SEWER RISING MAIN-DIRECTION, THRUST BLOCK, DIAMETER

STORMWATER MAIN - SUMP, MANHOLE, DIAMETER, DIRECTION

STORMWATER SERVICE TIE, KERB OUTLET, ENDCAP

TRENCH STOP, SCOUR STOP SPACING AS NOTED

GULLY, TABLE DRAIN OVERLAND FLOW PATH, DIRECTION

STORMWATER STRUCTURE HEADWALL

STORMWATER FUTURE MAINS

HIGH END RISER, FLUSHING POINT

OVERHEAD ELECTRICITY CABLE, POLE UNDERGROUND ELECTRICITY CABLE COMBINED TRENCH (ELECTRICITY & COMMS)

STREETLIGHTING CABLE, STREETLIGHT TELECOMMUNICATIONS - PIT OPTIC FIBRE

ABANDONED UNDERGROUND ELECTRICITY CABLE

HYDRAULICS

SUBSOIL DRAINS SUBSOIL DRAIN

MISCELLANEOUS BUILDING ROAD - BITUMEN ROAD - CONCRETE ROAD - GRAVEL ROAD - KERB, TYPE ROAD SIGNS WATERCOURSE

CONTOURS, LEVEL TREE, TREE TO BE REMOVED TREE SPREAD - SCRUBS ITEM TO BE DEMOLISHED, REMOVED

FENCE, GATE

STATE SURVEY MARK

UPSTREAM INVERT LEVEL (M) PIPE DIAMETER (MM)
PIPE LENGTH (M)
PIPE GRADE (%)
DOWNSTREAM INVERT LEVEL (M)

HYDRAULIC NETWORK PIPE REACH DETAILS

WATER FITTING, BEND, TAPER, TEE

JOINT DEFLECTION - VERTICAL

SEWERAGE

SEWER FUTURE MAINS

WATER STOP VALVE, AIR VALVE, FIRE HYDRANT, THRUST BLOCK

EXISTING

SEWER SERVICE TIE, STOP VALVE, INSPECTION OPENING, ENDCAP

JD - V

123.925

355 DP735953 365

_____ w <u>3000</u> EC _____ w <u>3000</u>

11 1/4°H A DN200-DN200T 11 1/4°H DN200-DN200T

PA/1 S 225Ø PA/1 S 225Ø

→ SRM^{DN100} → SRM^{DN100}

oHR → oFP

———— F/A ———

_____OF ____

570.0

-- K/O -- -- EC -- K/O ----

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JD - V

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 $qHR \rightarrow qFP$

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PROPOSED

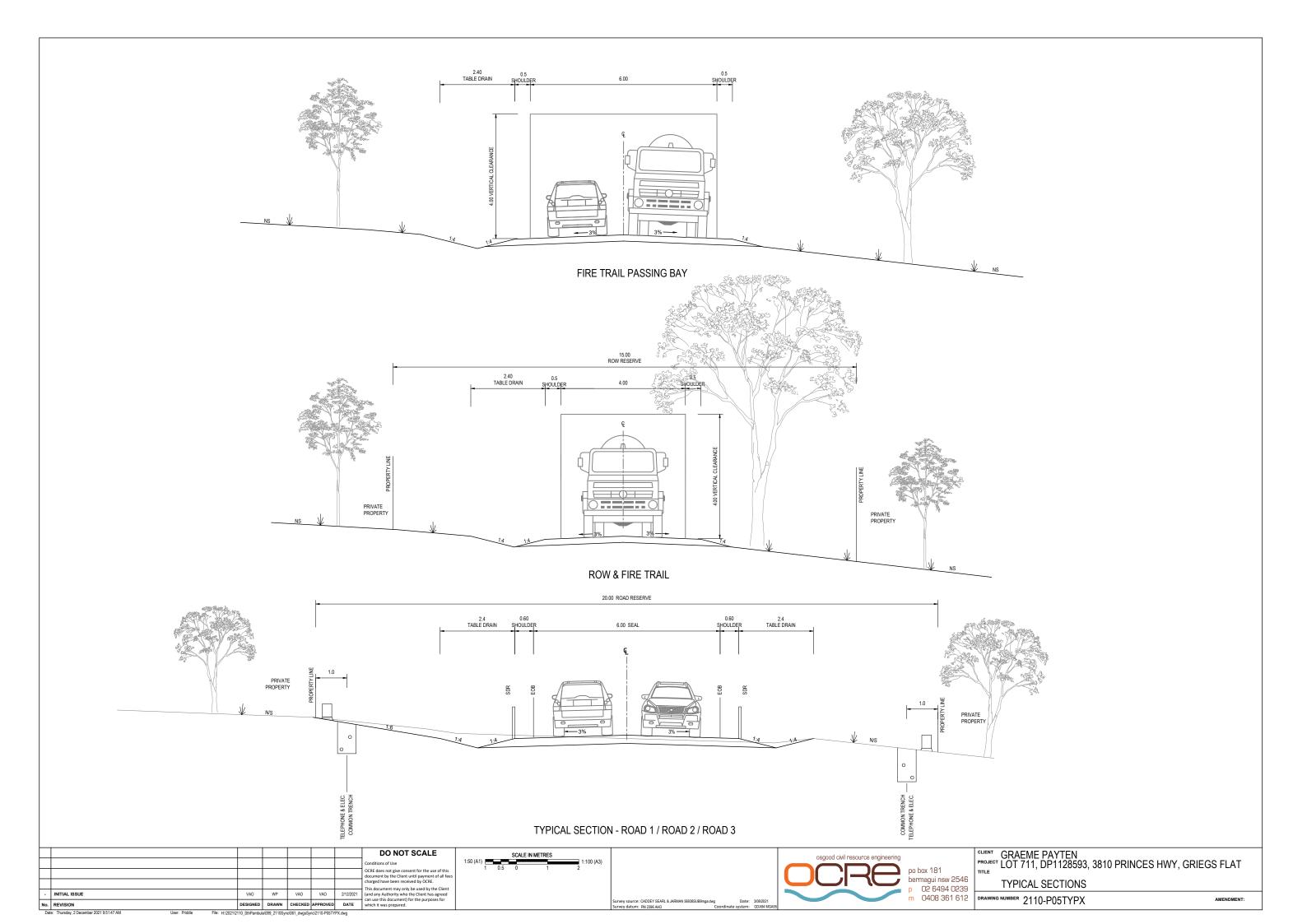
CLIENT GRAEME PAYTEN
PROJECT LOT 711, DP1128593, 3810 PRINCES HWY, GRIEGS FLAT NOTES & LEGEND

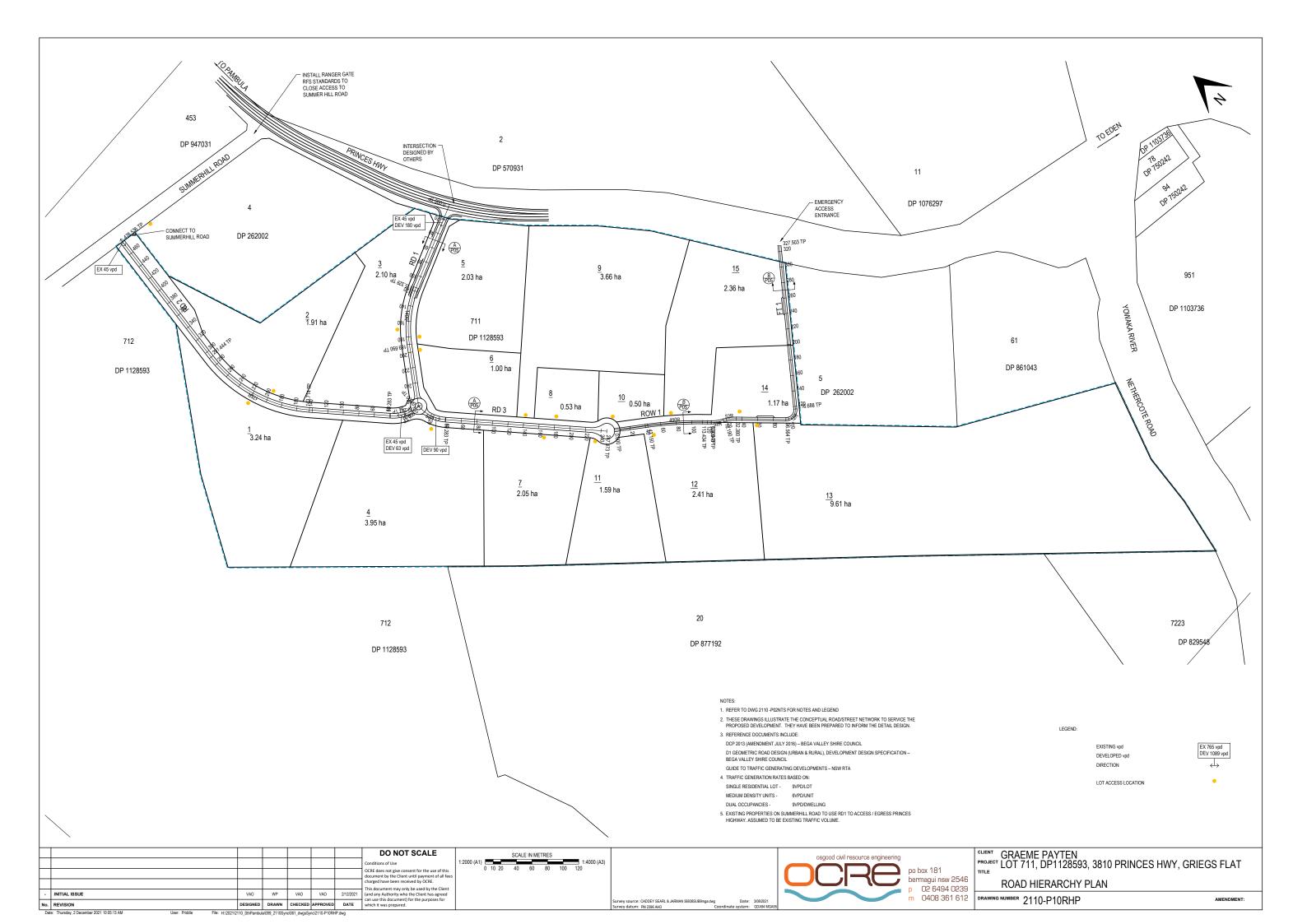
KERBS

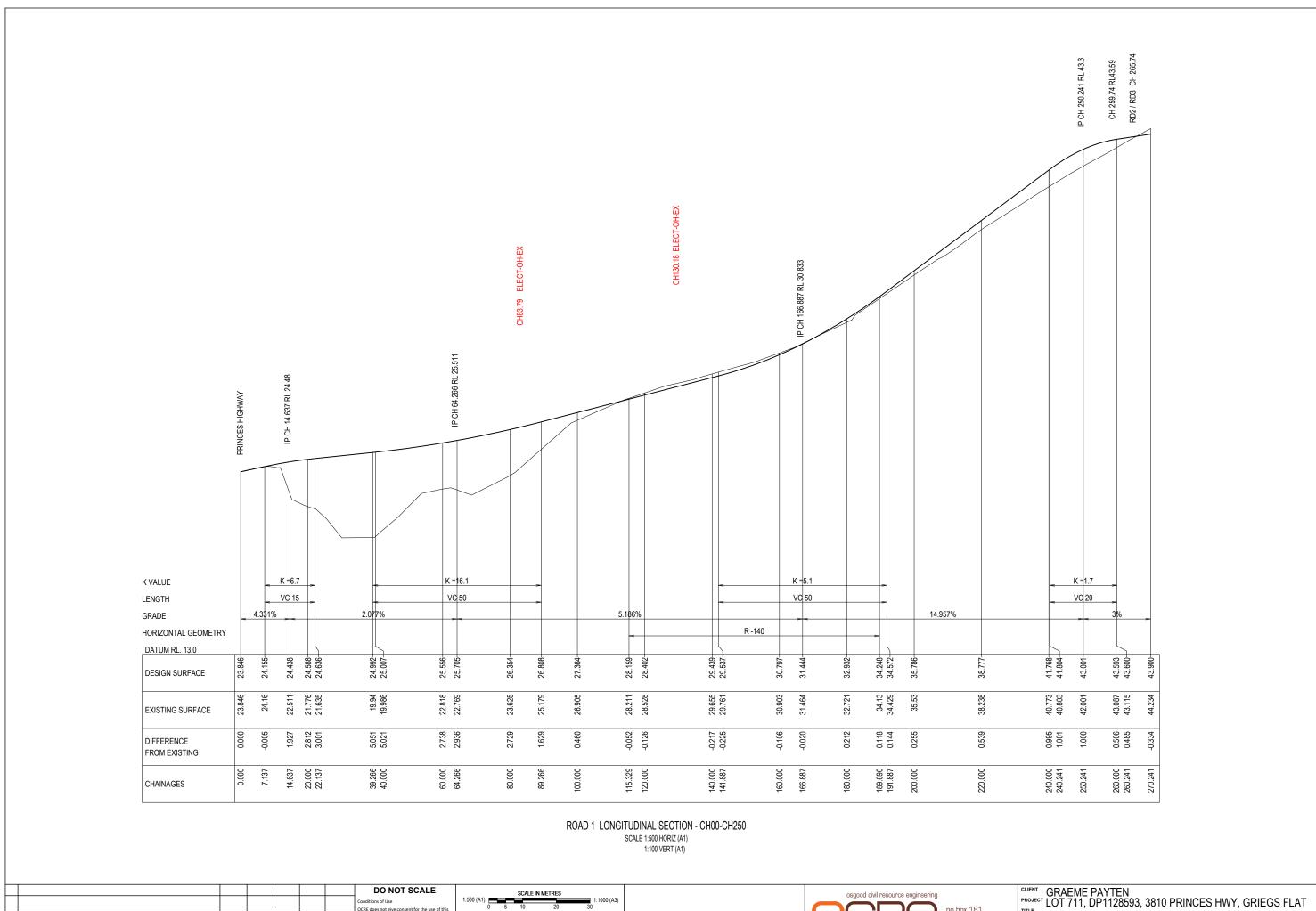
KERB & GUTTER LAYBACK KERB

AMENDMENT:

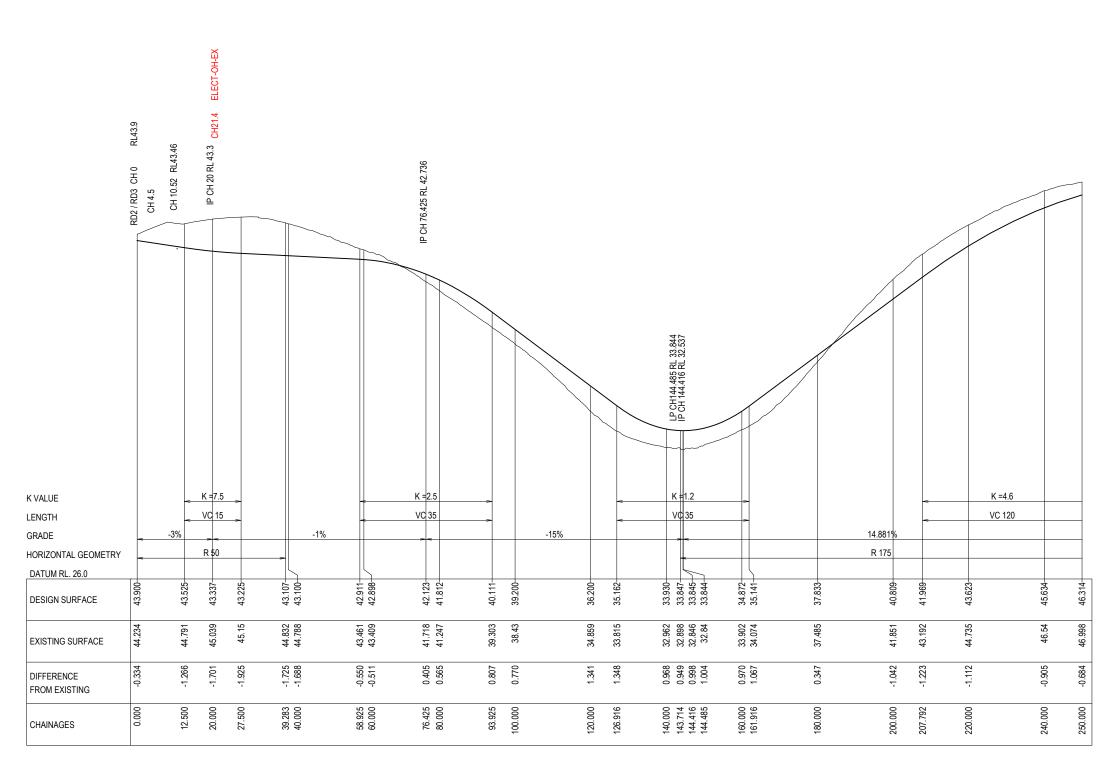
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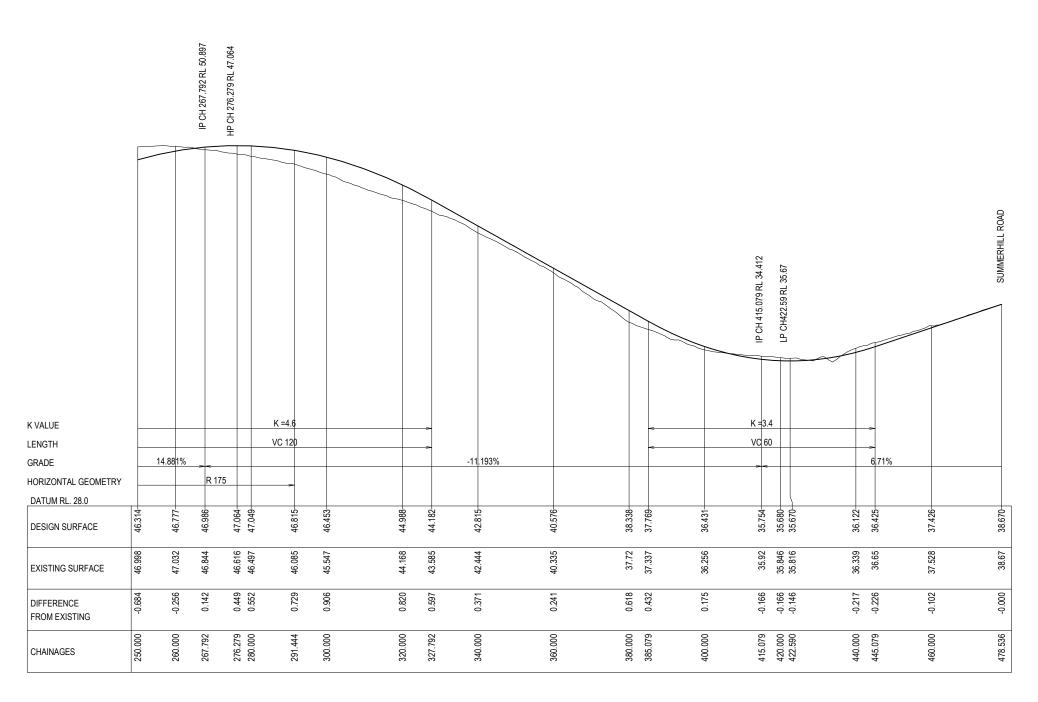
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ROAD 2 LONGITUDINAL SECTION - CH00-CH260 SCALE 1:500 HORIZ (A1)

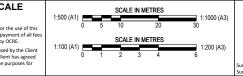
LE 1:500 HORIZ (A1) 1:100 VERT (A1)

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

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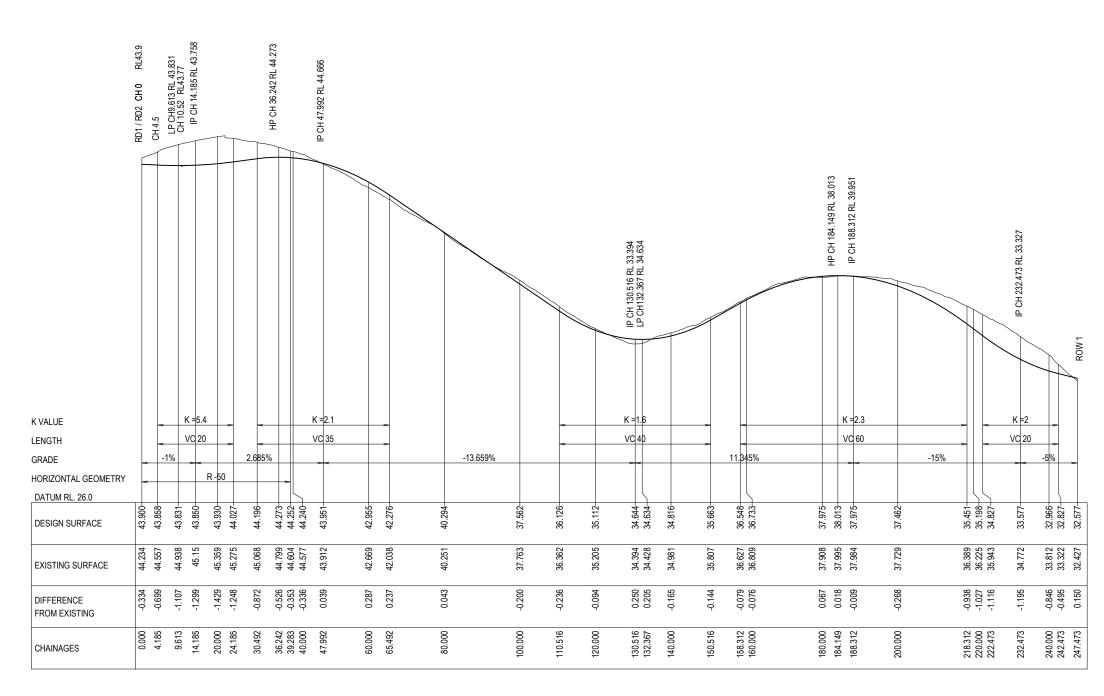




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PROJECT LOT 711, DP1128593, 3810 PRINCES HWY, GRIEGS FLAT

ROAD 2 - LONGITUDINAL SECTION - SHEET 2

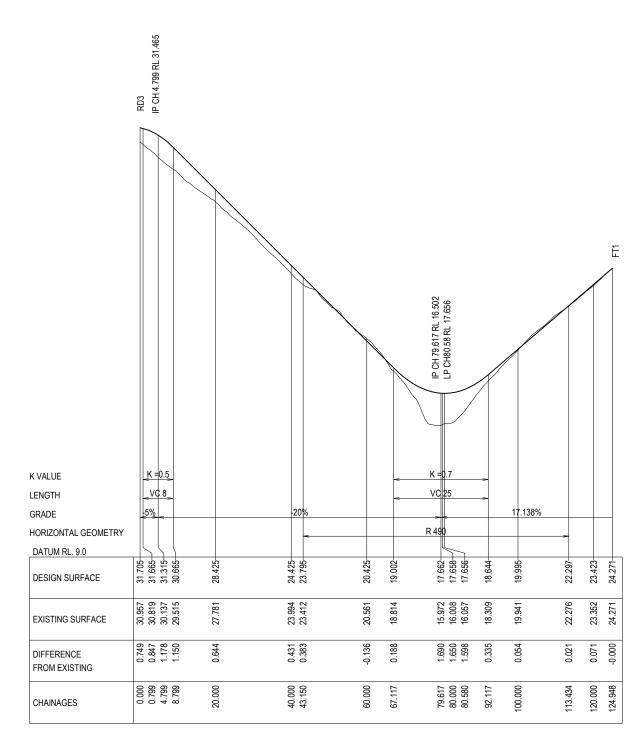
IUMBER 2110-P13LS AMENDMENT



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

1:100 VERT (A1)

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

1:100 VERT (A1)

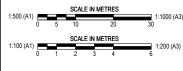
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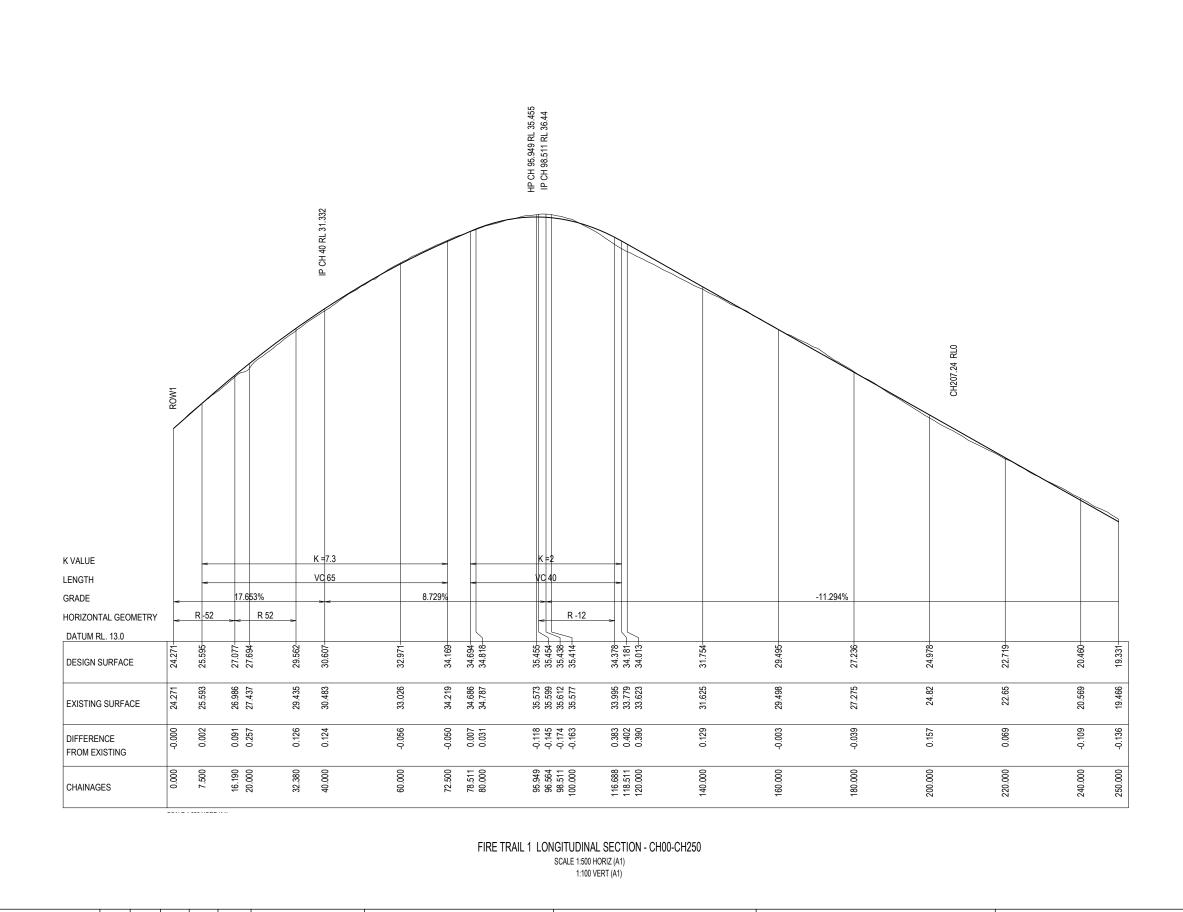






CLIENT GRAEME PAYTEN
PROJECT LOT 711, DP1128593, 3810 PRINCES HWY, GRIEGS FLAT

ROW - LONGITUDINAL SECTION

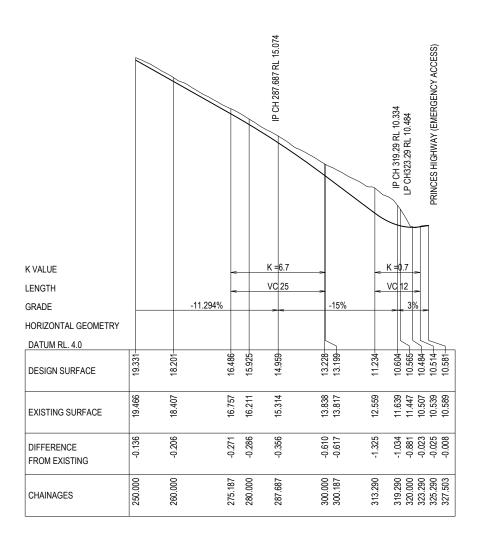


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FIRE TRAIL 1 LONGITUDINAL SECTION - CH250-CH END SCALE 1:500 HORIZ (A1) 1:100 VERT (A1)

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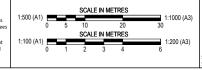
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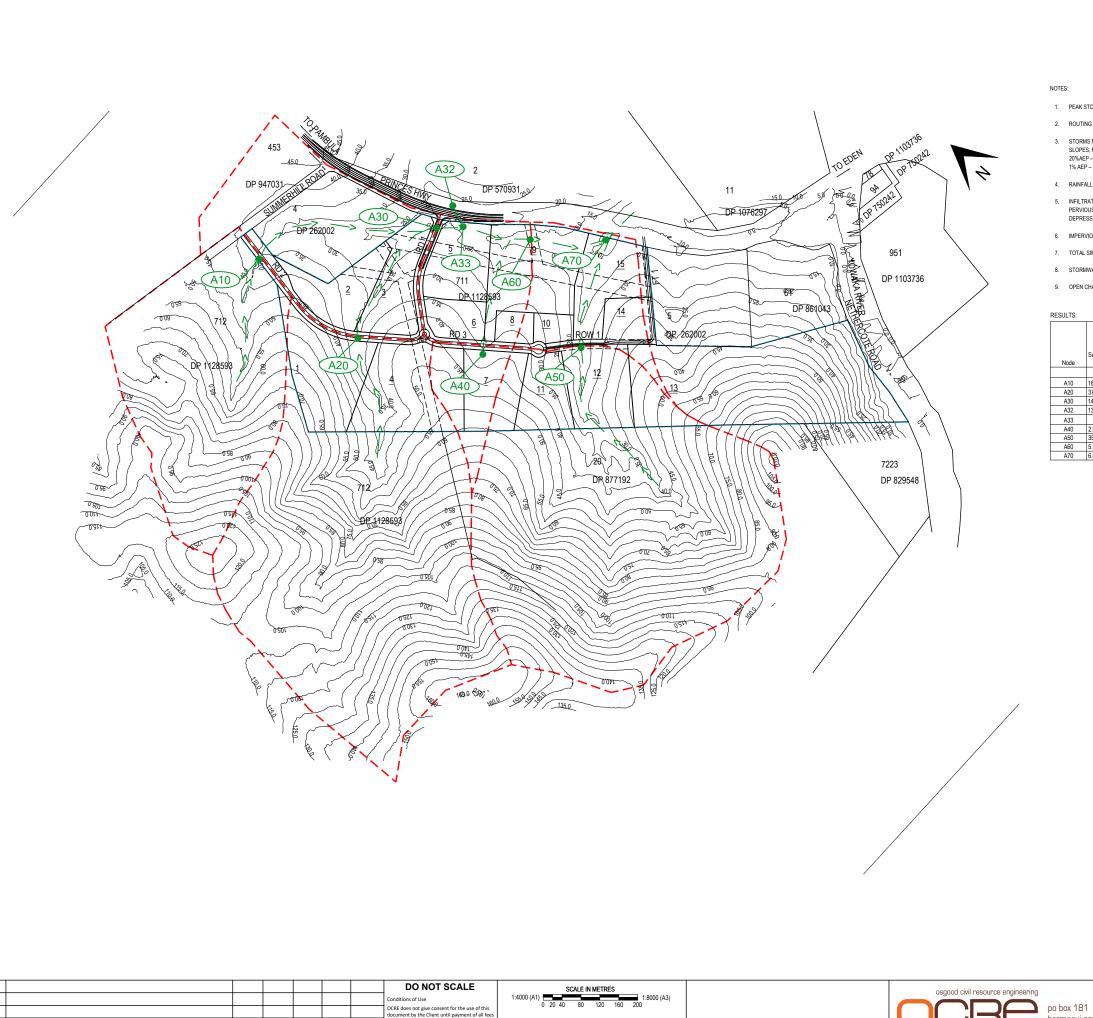




CLIENT GRAEME PAYTEN
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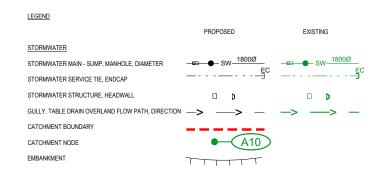
FT1 - LONGITUDINAL SECTION - SHEET 2

MBER 2110-P17LS AMENDMENT:



- 1. PEAK STORMWATER RUNOFF RATES WERE CALCULATED USING XP STORM SOFTWARE
- ROUTING METHOD LAURENSON.
- STORMS MODELLED (BASED ON ARR 2016 TEMPORAL PATTERN ENSEMBLES FOR SOUTHERN SLOPES, MAINLAND (VICINSWI) 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.
- 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).

		Existing								
		Subcatchment Impervious Fraction		20% AEP		1%AEP				
Node	Subcatchment Area		Peak Median Runoff	Critical Storm	Ensemble #	Peak Median Runoff	Critical Storm	Ensemble #		
	[ha]	[%]	[m3/s]	[min,hr]		[m3/s]	[min,hr]			
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		



CLIENT GRAEME PAYTEN
PROJECT LOT 711, DP1128593, 3810 PRINCES HWY, GRIEGS FLAT

STORMWATER CATCHMENT PLAN

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