

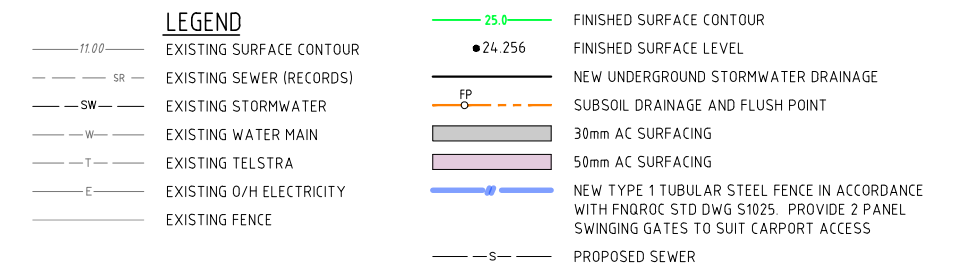
5 LOT SUBDIVISION AT 80-84 SAVAGE ST, COOKTOWN PROJECT No: 241210



DRAWING No	TITLE
24.1210-C00	LOCALITY PLAN AND DRAWING INDEX
24.1210-C01	BULK EARTHWORKS
24.1210-C02	ROADWORKS AND STORMWATER DRAINAGE
24.1210-C03	MISCELLANEOUS SECTIONS AND DETAILS
24.1210-C04	INTERSECTION DETAILS
24.1210-C05	ROAD LONGITUDINAL SECTIONS
24.1210-C06	ROAD CROSS SECTIONS - SHEET 1
24.1210-C07	ROAD CROSS SECTIONS - SHEET 2
24.1210-C08	STORMWATER DRAINAGE CATCHMENTS
24.1210-C09	STORMWATER DRAINAGE LONGITUDINAL SECTION
24.1210-C10	STORMWATER DRAINAGE CALCULATIONS
24.1210-C11	SEWERAGE AND WATER SUPPLY
24.1210-C12	SEWERAGE LONGITUDINAL SECTION
24.1210-C12	EROSION AND SEDIMENT CONTROL STRATEGY

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[illegible]



1. THE EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE DERIVED FROM SURFACE SURVEY AND COUNCIL RECORDS AND MAY NOT REPRESENT THE EXISTING SERVICES PRESENT BELOW THE SURFACE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE ALL EXISTING SERVICES PRIOR TO ANY EXCAVATION, PARTICULARLY ON FOOTPATHS.
3. ALL DAMAGE TO EXISTING SERVICES SHALL BE MADE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT AND THE RELEVANT AUTHORITY, ALL AT THE CONTRACTORS EXPENSE. THE CONTRACTOR SHALL NOTIFY THE RELEVANT AUTHORITY IMMEDIATELY WHEN ANY DAMAGE OCCURS.
4. THE LINE AND LEVEL OF EXISTING UNDERGROUND SERVICES SHALL BE DETERMINED BY THE CONTRACTOR AND THE ENGINEER SHALL BE NOTIFIED OF ANY POTENTIAL CLASHES WITH DESIGN STRUCTURES AND SERVICES PRIOR TO COMMENCING CONSTRUCTION.
5. EXISTING OUTLET LEVELS OR CONNECTION LEVELS FOR ALL DESIGN STORMWATER AND SEWER SHALL BE CONFIRMED BY THE CONTRACTOR AND THE ENGINEER SHALL BE NOTIFIED OF ANY VARIATIONS PRIOR TO COMMENCING CONSTRUCTION.
6. EXISTING SERVICES ON THE DRAWINGS ARE PLOTTED FROM THE BEST INFORMATION AVAILABLE. NO RESPONSIBILITY IS TAKEN BY THE PRINCIPAL OR SUPERINTENDENT FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION SHOWN.
7. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR IS TO ESTABLISH ON SITE THE EXACT POSITION OF ALL UNDERGROUND SERVICES IN THE PROPOSED WORKS AREA. METHODS FOR ACHIEVING THIS WILL INCLUDE BUT NOT BE LIMITED TO:-
 - CAREFUL EXAMINATION OF THE CONTRACT DRAWINGS.
 - CONSULTATION WITH THE RELEVANT SERVICE AUTHORITIES.
 - COMPREHENSIVELY SCANNING THE AFFECTED AREAS WITH A CABLE DETECTOR AND MARKING ON THE GROUND THE POSITION OF ALL SERVICES.
 - HAND EXCAVATING TO EXPOSE ALL SUCH SERVICES WHICH MAY BE AFFECTED BY THE PROPOSED WORKS UNDER THE DIRECTION OF THE RELEVANT SERVICE AUTHORITY.
8. SURVEY DATA OUTSIDE EXTENTS OF FIELD SURVEY HAS BEEN MERGED WITH QUEENSLAND GOVERNMENT 2009 LIDAR INFORMATION.

1. THE CONTRACTOR SHALL COORDINATE ALL BUILDING SERVICES (e.g. LANDSCAPING, IRRIGATION, WATER, POWER, SEWER, GAS, TELECOMMUNICATIONS) FOR CONSTRUCTION, AND SHALL CHECK FOR ANY SERVICE ALIGNMENT CLASHES PRIOR TO COMMENCING WORKS ONSITE. NOTIFY THE RELEVANT CONSULTANT SHOULD THERE BE ANY PROBLEMS OR CLASHES FOR DESIGN ADJUSTMENTS.

1. CONSTRUCTION AND INSTALLATION OF ALL WORKS AS DETAILED ON THESE DRAWINGS SHALL BE IN ACCORDANCE WITH THE PROCEDURES, SPECIFICATIONS AND DRAWINGS CONTAINED IN THE CURRENT ISSUE OF THE FNQROC DEVELOPMENT MANUAL AND TO THE REQUIREMENTS OF THE CAIRNS REGIONAL COUNCIL.

1. TRAFFIC CONTROL DEVICES (ROAD EDGE GUIDE POSTS, SIGNS, ETC) SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT ISSUE OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AS ISSUED BY THE DEPARTMENT OF TRANSPORT, QUEENSLAND AND ENQROC STD DWG S104.1.
2. ENSURE SERVICE CONDUITS ARE LAID BENEATH ANY EARLY WORKS FINISHES. E.g. WATER, POWER, TELECOMMUNICATIONS, ETC.
3. THE CONTRACTOR SHALL REMOVE ALL EXISTING CONSTRUCTION, TREES, SERVICES ETC AS NECESSARY TO PERMIT CONSTRUCTION OF THE NEW WORKS.
4. THE CONTRACTOR SHALL OBTAIN COUNCIL INSPECTIONS AND THEIR WITNESS TO TESTING PRIOR TO MAKING SERVICES LIVE. A COPY OF COUNCIL'S INSPECTION CERTIFICATE SHALL BE PROVIDED TO THE SUPERINTENDENT PRIOR TO PRACTICAL COMPLETION.

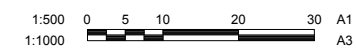
1. ALL INTERNAL & EXTERNAL LANDSCAPING SHALL BE ESTABLISHED AND MAINTAINED TO THE SATISFACTION OF THE COUNCIL.

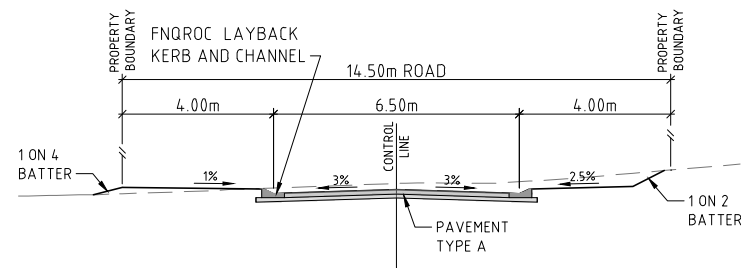
1. THE CONTRACTOR SHALL PROVIDE 'AS CONSTRUCTED' DRAWINGS INCLUDING BOTH ELECTRONIC AND HARD COPIES CERTIFIED BY A REGISTERED SURVEYOR FOR ALL UNDERGROUND SERVICES INSTALLED FOR THIS PROJECT IN ACCORDANCE WITH ENGRQC AND COUNCIL REQUIREMENTS.

SURVEYOR: CG SURVEYING AND PLANING
REF: 00257-01 DET 01 (A)
SURVEYED: 17/05/2025

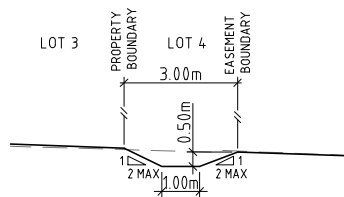
LEVEL DATUM: AHD
ORIGIN OF LEVELS: PM92565 RL 28.966
MERIDIAN: SP319522

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ROAD A CH00 - 83.069
SCALE: 1:100 (A1)



OPEN DRAIN TYPE A
SCALE: 1:100 (A1)

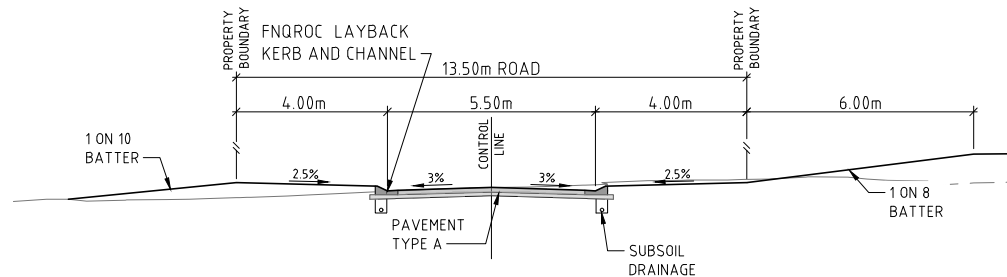
HYDRAULIC CALCULATIONS - OPEN DRAIN

STORMWATER CATCHMENT AREA: 1.171 ha

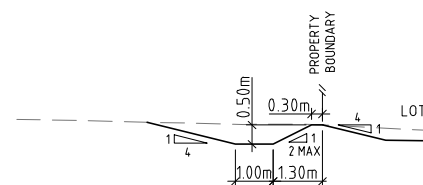
ASSUME FLOWS FOR DEVELOPED CATCHMENT Av. SLOPE = 5%
TIME OF CONCENTRATION T_c : 13 mins
FRACTION IMPERVIOUS F_i : 0.60
COEFFICIENT OF RUNOFF C_{10} : 0.82

Q_{100} DISCHARGE: 0.820 m³/s

FLOW CHARACTERISTICS
DEPTH OF FLOW d_g : 0.37m
VELOCITY av : 1.29 m/s



ROAD B CH00 - 135.249
SCALE: 1:100 (A1)



CATCH DRAIN TYPE A
SCALE: 1:100 (A1)

HYDRAULIC CALCULATIONS - CATCH DRAINS

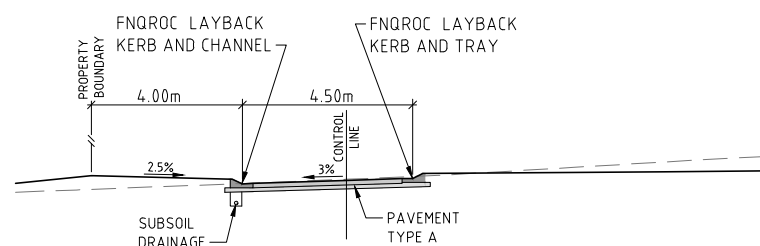
STORMWATER CATCHMENT AREA:
5% LEG: 0.583 ha
1% LEG: 0.588 ha

ASSUME FLOWS FOR DEVELOPED CATCHMENT Av. SLOPE = 5%
TIME OF CONCENTRATION T_c : 13 mins
FRACTION IMPERVIOUS F_i : 0.60
COEFFICIENT OF RUNOFF C_{10} : 0.82

5% GRADE LEG Q_{100} DISCHARGE: 0.408 m³/s
1% GRADE LEG Q_{100} DISCHARGE: 0.412 m³/s

FLOW CHARACTERISTICS
5% LEG:
DEPTH OF FLOW d_g : 0.19m
VELOCITY av : 1.93 m/s

1% LEG:
DEPTH OF FLOW d_g : 0.24m
VELOCITY av : 0.98 m/s

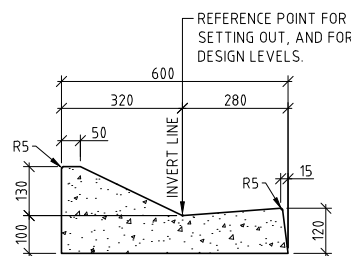


ROAD B CH135.249 - END
SCALE: 1:100 (A1)

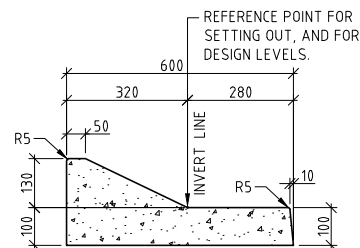
ROAD TYPICAL SECTIONS

CONTROL LINE DETAILS

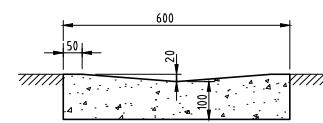
ROAD A				
TYPE	CHAINAGE	X COORD	Y COORD	BEARING
IP	0.000	311895.862	8287809.209	156°00'00.00"
	50.000	311916.199	8287763.532	156°00'00.00"
IP	83.169	311929.690	8287733.230	156°00'00.00"
ROAD B				
TYPE	CHAINAGE	X COORD	Y COORD	BEARING
IP	0.000	311924.504	8287744.878	66°00'02.45"
	50.000	311970.182	8287765.215	66°00'02.45"
	100.000	312015.859	8287785.551	66°00'02.45"
	150.000	312061.537	8287805.887	66°00'02.45"
IP	156.749	312067.703	8287808.632	66°00'02.45"



LAYBACK KERB AND CHANNEL (LKC)



LAYBACK KERB AND TRAY (LKT)



CONCRETE INVERT TYPE 1 (CI)

1:100 0 1 2 3 4 5 6 A1
1:200 A3

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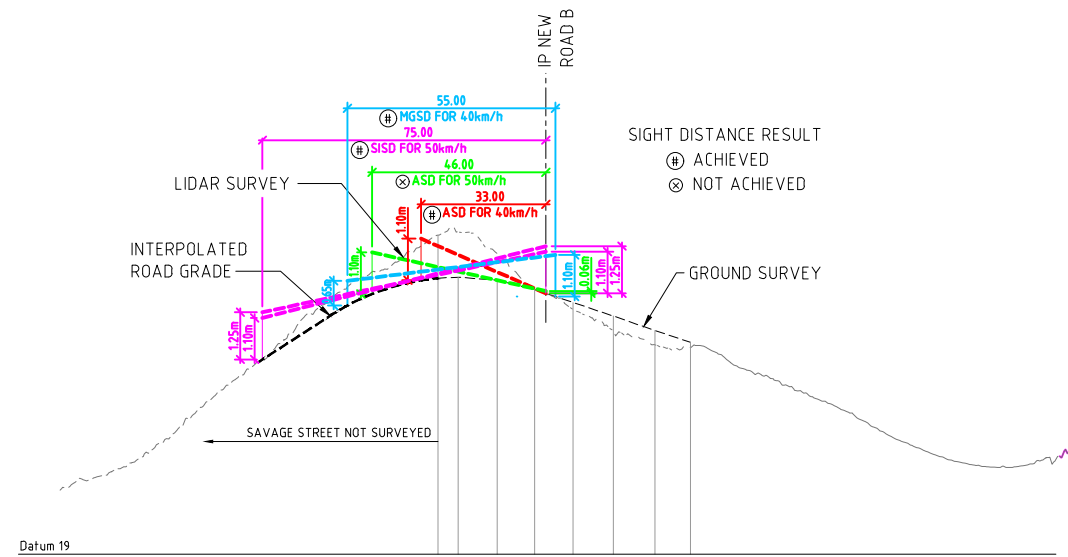
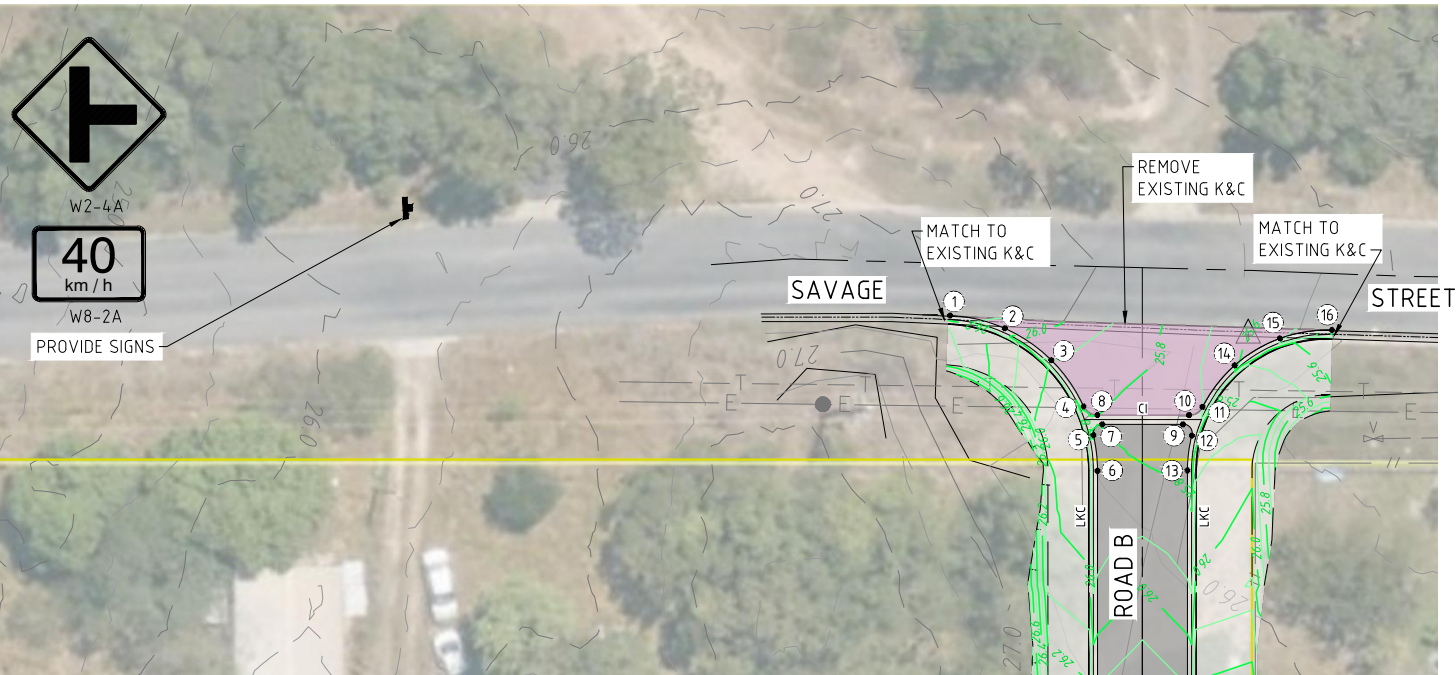
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Client: GUNGARDE COMMUNITY CENTRE
ABORIGINAL CORPORATION
Project: 5 LOT SUBDIVISION AT
80-84 SAVAGE ST, COOKTOWN

Drawn: KCDD
Designed: KCDD
Approved:
Signed:

Title: MISCELLANEOUS SECTIONS
AND DETAILS

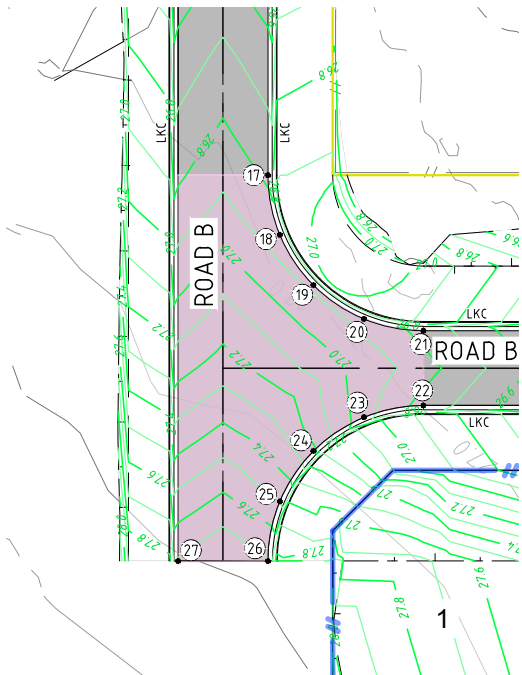
Scale at A1: N.T.S.
Project No: 240210
Drawing No: 240210 - C03
Rev: A



SETOUT DETAILS

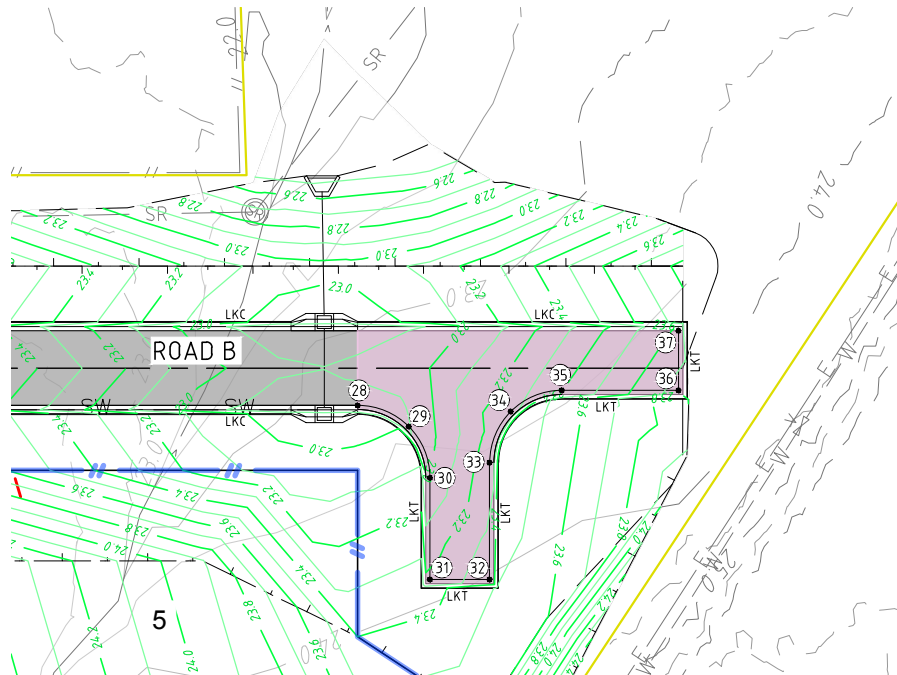
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1	311885.527	8287801.148	26.180
2	311889.185	8287801.834	26.041
3	311892.847	8287801.173	25.901
4	311896.034	8287799.250	25.814
5	311897.414	8287797.761	25.816
6	311898.610	8287795.736	25.831
7	311897.648	8287798.671	25.797
8	311897.104	8287799.086	25.801
9	311902.521	8287800.840	25.736
10	311902.645	8287801.553	25.731
11	311904.028	8287798.171	25.781
12	311903.356	8287800.393	25.745
13	311903.237	8287802.416	25.704
14	311904.062	8287805.795	25.612
15	311906.073	8287808.634	25.515
16	311908.988	8287810.533	25.418
17	311922.032	8287757.734	26.784
18	311924.347	8287754.458	26.847
19	311927.739	8287752.318	26.881
20	311931.692	8287751.639	26.862
21	311935.604	8287752.524	26.767
22	311937.614	8287748.011	26.767
23	311934.338	8287745.696	26.948
24	311932.198	8287742.304	27.220
25	311931.518	8287738.351	27.502
26	311932.404	8287734.438	27.711
27	311926.977	8287732.022	27.711
28	312049.066	8287797.631	22.839
29	312052.723	8287797.727	22.895
30	312055.377	8287795.209	23.015
31	312058.110	8287789.069	23.224
32	312061.709	8287790.672	23.358
33	312058.570	8287797.725	23.262
34	312058.474	8287801.382	23.275
35	312060.992	8287804.035	23.396
36	312068.045	8287807.175	23.739
37	312066.442	8287810.775	23.621

ALL LEVELS ARE TO LIP OF CHANNEL



INTERSECTION SETOUT DETAILS

SCALE: 1:250 (A1)



- LEGEND
- FINISHED SURFACE CONTOUR
 - DESIGN KERB LIP SETOUT POINT
 - 30mm AC SURFACING
 - 50mm AC SURFACING
 - LKC LAYBACK KERB AND CHANNEL
 - LKT LAYBACK KERB AND TRAY
 - CI CONCRETE INVERT TYPE 1

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1:250 0 5 10 15 A1
1:500

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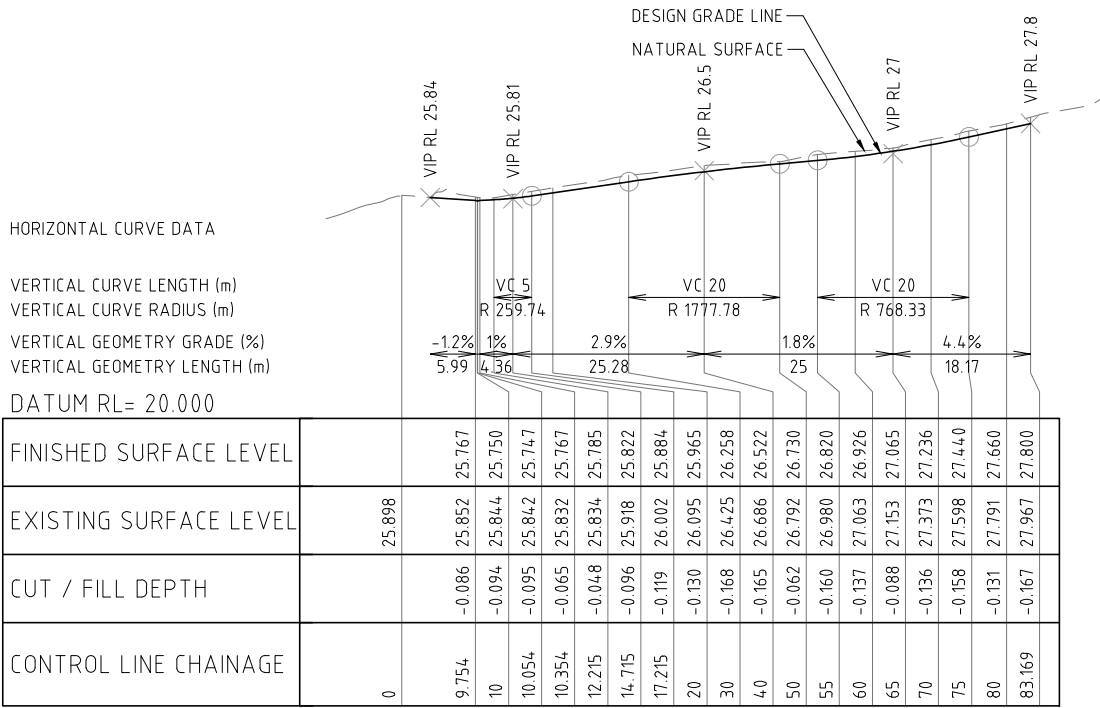
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ABORIGINAL CORPORATION**
Project: **5 LOT SUBDIVISION AT
80-84 SAVAGE ST, COOKTOWN**

Drawn: **KCDD**
Designed: **KCDD**
Approved:
Signed:

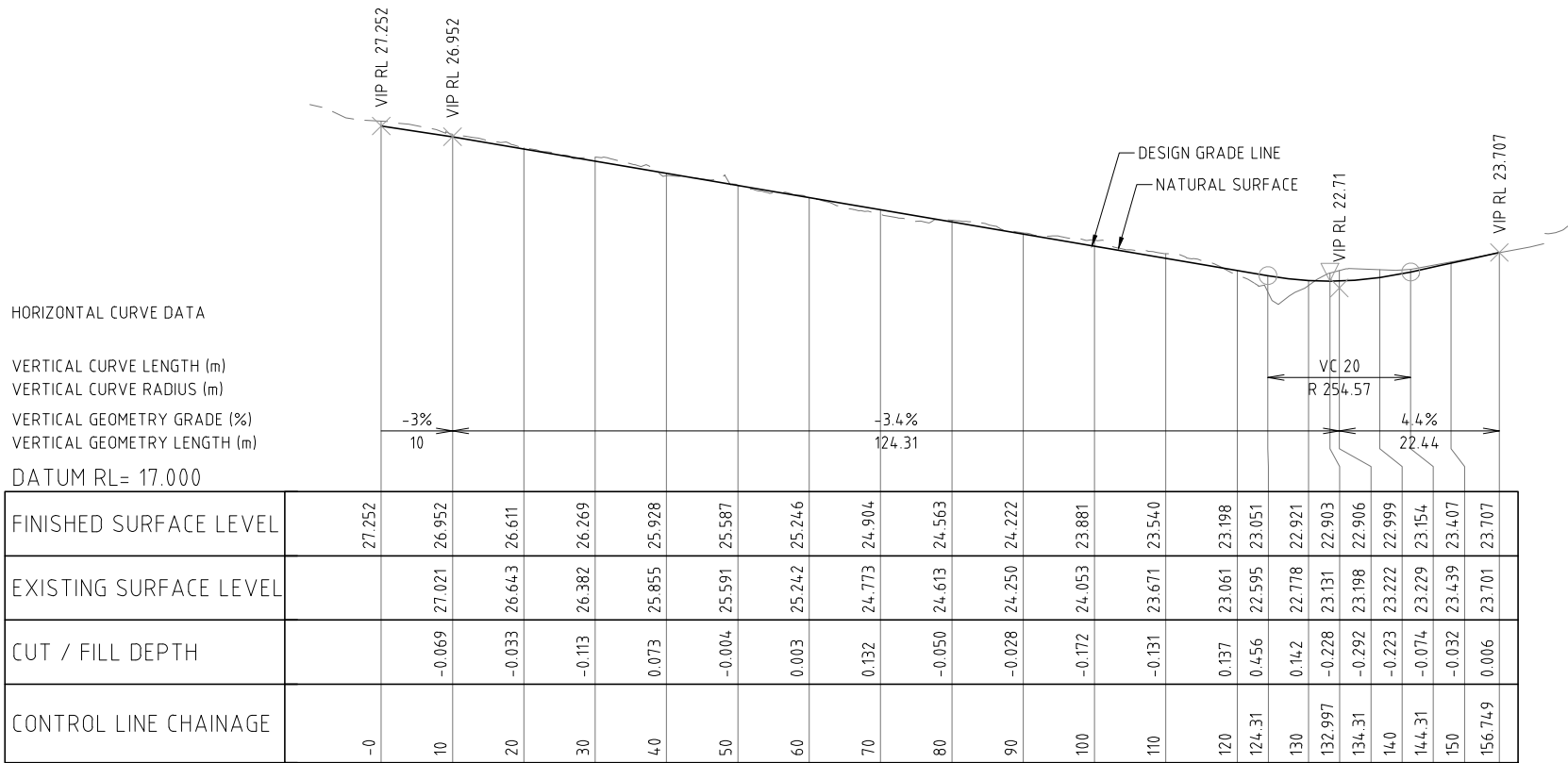
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Project No: **240210**
Drawing No: **240210 - C04**
Rev: **A**

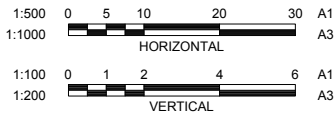
Rev.	Date	Description	Drawn	Checked
A	04/08/25	INITIAL ISSUE	KCDD	



ROAD A LONGITUDINAL SECTION
SCALE: 1:500H 1:100V (A1)



ROAD B LONGITUDINAL SECTION
SCALE: 1:500H 1:100V (A1)



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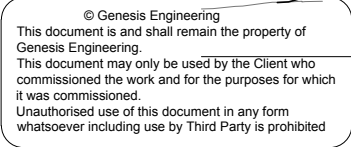
Client: **GUNGARDE COMMUNITY CENTRE
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Project: **5 LOT SUBDIVISION AT
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Drawn: **KCDD**
Designed: **KCDD**
Approved:
Signed:

Title: **ROAD LONGITUDINAL SECTIONS**

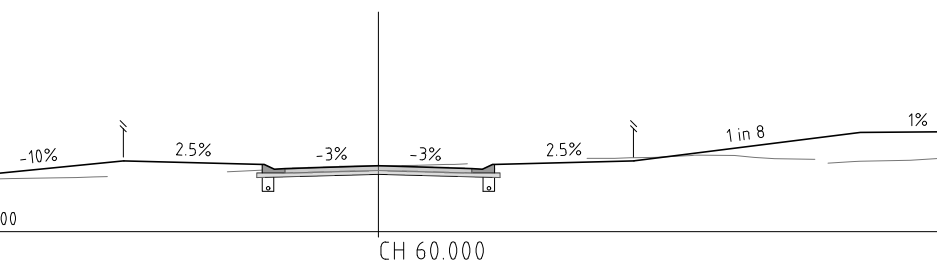
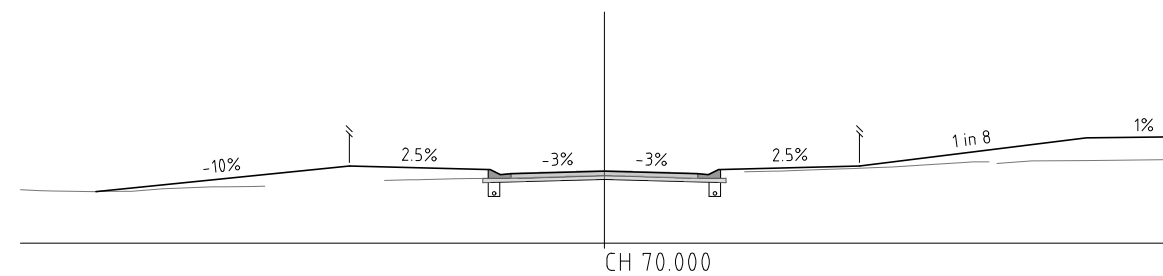
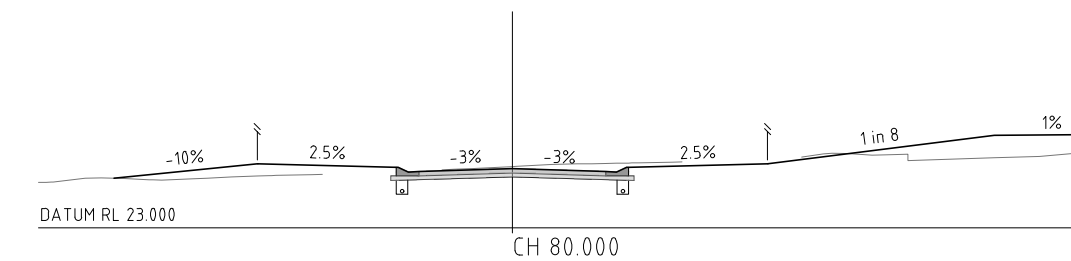
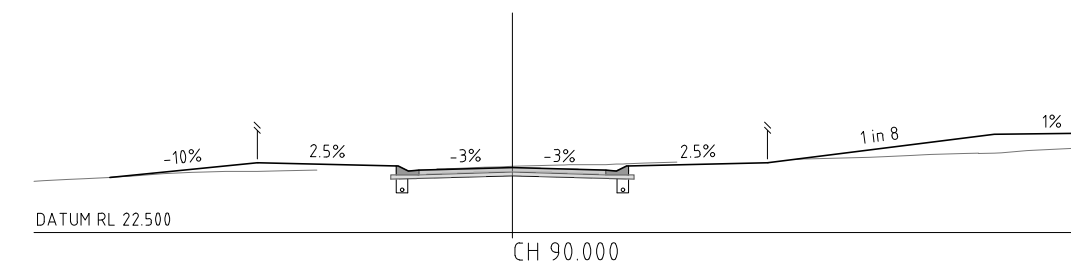
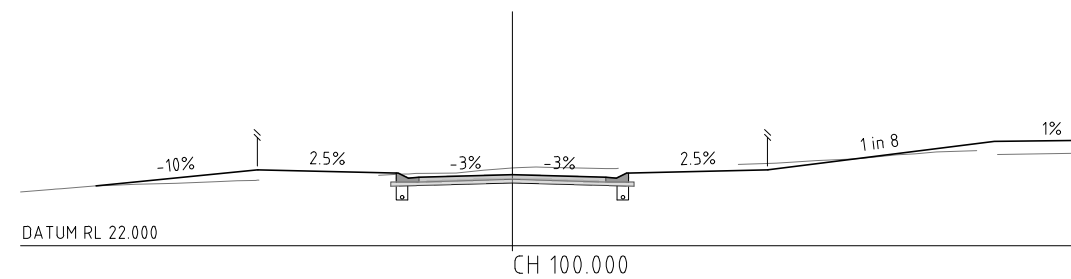
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Project No: **240210**
Drawing No: **240210 - C05**
Rev: **A**

A	04/08/25	INITIAL ISSUE	KCDD		
Rev.	Date.	Description	Drawn	Checked	



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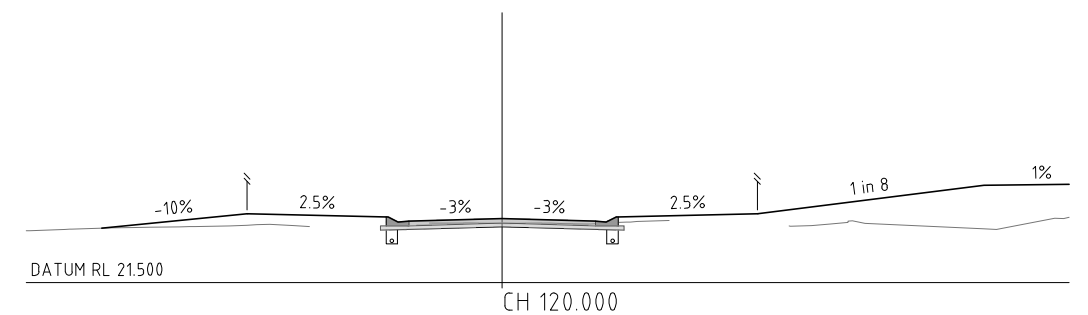
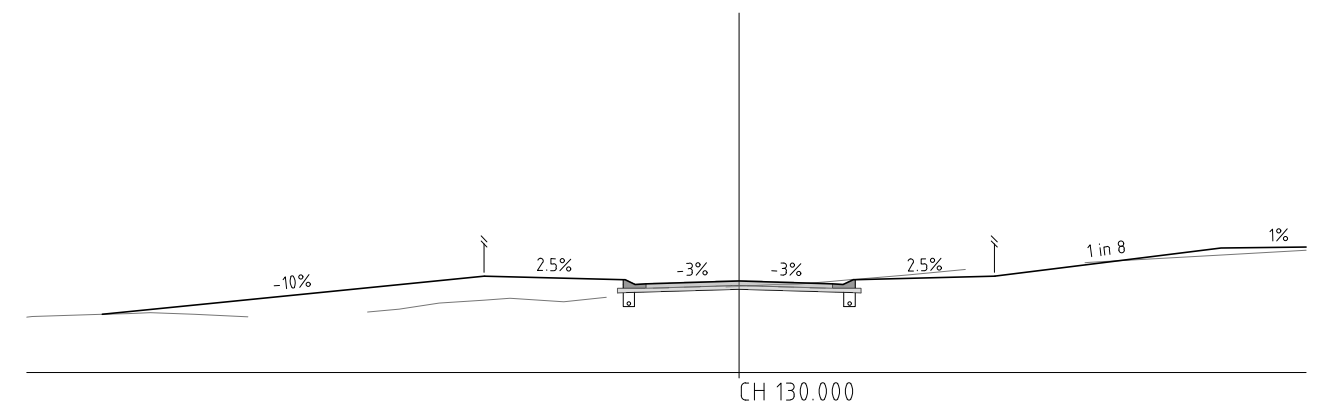


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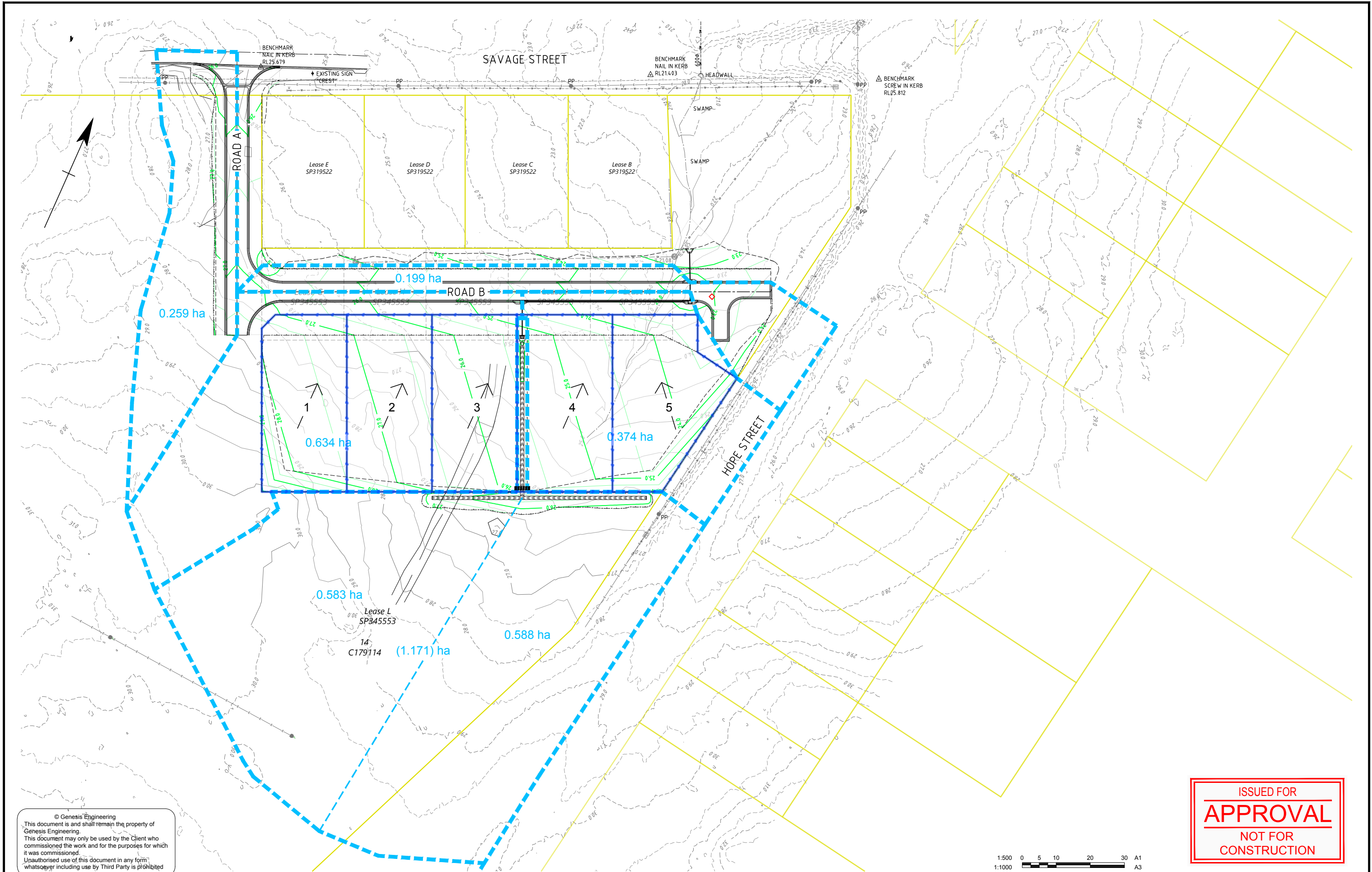


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ROAD B

1:100 0 1 2 3 4 5 6 A1
1:200 A3

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1:500 0 5 10 20 30 A1
1:1000 A3

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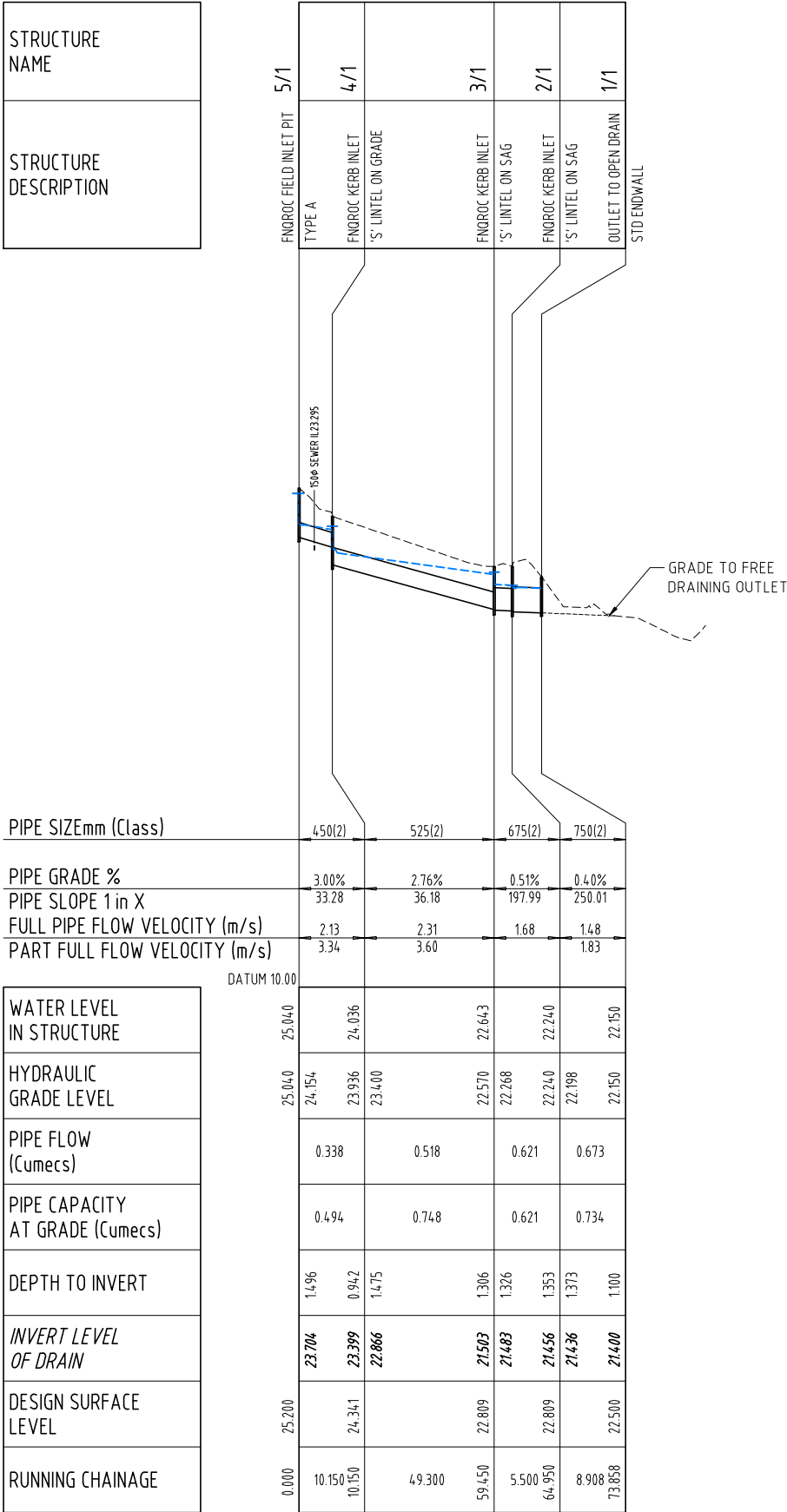
Client: **GUNGARDE COMMUNITY CENTRE
ABORIGINAL CORPORATION**
Project: **5 LOT SUBDIVISION AT
80-84 SAVAGE ST, COOKTOWN**

Drawn: KCDD
Designed: KCDD
Approved:
Signed:

Title: **STORMWATER DRAINAGE
CATCHMENTS**

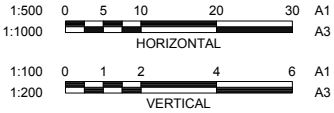
Scale at A1:	Project No:	Drawing No:	Rev:
1:500	240210	240210 - C08	A

STRUCTURE NAME
STRUCTURE DESCRIPTION



LINE

1



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ABORIGINAL CORPORATION**
Project: **5 LOT SUBDIVISION AT
80-84 SAVAGE ST, COOKTOWN**

Drawn: **KCDD** Designed: **KCDD**
Approved:
Signed:

Title: **STORMWATER DRAINAGE
LONGITUDINAL SECTION**

Scale at A1: 1:500	Project No: 240210	Drawing No: 240210 - C09	Rev: A
------------------------------	------------------------------	------------------------------------	------------------

A	04/08/25	INITIAL ISSUE	KCDD	
Rev.	Date.	Description	Drawn	Checked

LOCATION				TIME		SUB-CATCHMENT RUNOFF						INLET DESIGN						DRAIN DESIGN												HEADLOSSES										PART FULL		DESIGN LEVELS							
				tc	I	C10	C	A	CxA	+CA	Q						Qg	Qb		tc	I	+CA	Qt	Qm	Qs	Qp	L	S		V	T		V2/2g	Ku	hu	Kl	hl	Kw	hw	Sf	hf	Op	Vp						
DESIGN ARI	STRUCTURE No.	DRAIN SECTION	SUB-CATCHMENTS CONTRIBUTING	SUB-CATCHMENT TIME OF CONC.	RAINFALL INTENSITY	10yr RUNOFF CO-EFFICIENT	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUM OF (C x A)	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	ROAD GRADE AT INLET	FLOW dV	MINOR FLOW ROAD CAPACITY	INLET TYPE	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE No.	CRITICAL TIME OF CONC.	RAINFALL INTENSITY	TOTAL (C x A)	MAJOR TOTAL FLOW	MAJOR SURFACE FLOW CAPACITY	MAJOR SURFACE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE / BOX DIMENSIONS (CLASS)	FLOW VELOCITY FULL (PIPE GRADE VELOCITY)	TIME OF FLOW IN REACH	STRUCTURE RATIOS FOR 'K' VALUE CALCULATIONS	VELOCITY HEAD	U/S HEADLOSS COEFFICIENT	U/S PIPE STRUCT. HEADLOSS	LAT. HEADLOSS CO-EFFICIENT	LAT. PIPE STRUCT. HEADLOSS	W.S.E CO-EFFICIENT	CHANGE IN W.S.E	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x Sf)	DEPTH	VELOCITY	OBVERT LEVELS	DRAIN SECTION H.G.L	UPSTREAM H.G.L	W.S.E.	SURFACE OR K&C INVERT LEVEL	STRUCTURE No.
yrs				min	mm/h			ha	ha	ha	l/s	l/s	%	m2/s	l/s		l/s	l/s		min	mm/h	ha	l/s	l/s	l/s	l/s	m	%	mm	m/s	min		m		m		m	%	m	m	m/s	m	m	m	m	m	m		
5 100	5/1	5/1 to 4/1	5/1	13.00 13.00	155 265		0.67 0.82	1.171 1.171	0.785 0.960	0.785 0.960	338 707	338	0.00	0.00	2382	10151.0 (UNLOCKED 4)	338	0	4/1	13.00 13.00	155 265	0.785 0.960	707		338 (Pipe flow= Grate flow)	10.150	3.00	450(2)	2.13 (3.11)	0.08	Qg 0.338 Qo 0.338 Do 450 CHART 32: Vo2/2gDo 0.51 H/Do 0.00 Kg side flow 3.83 end flow 3.38	0.231	3.83	0.886			3.83	0.886	1.41	0.143	0.273 (0.205 ly)	3.34 (2.98 ly)	24.154 23.849	24.154 23.936	25.040	25.040	25.200		5/1
5 100	4/1	4/1 to 3/1	5/1,4/1	13.00 13.00	155 265		0.67 0.82	0.634 0.634	0.425 0.520	0.425 0.520	183 383	183	0.00	0.00	2382	10151.0 (UNLOCKED 4)	183	0	3/1	13.08 13.08	154 264	1.210 14.80	1085		518 (Pipe flow= Sum upstr atten flow)	49.300	2.76	525(2)	2.31 (3.34)	0.36	Qg 0.182 Qo 0.518 Do 525 Flow 5/1 made eqv grate flow CHART 32: Vo2/2gDo 0.51 H/Do 0.00 Kg side flow 3.85 end flow 3.39 K vals above for stepped pipes as grate flow grate flow decreased by 0.336 from 5/1 Angle 90 Chart 47 S/Do 2.5 chartdeg Du/Do 0.86 K0 2.83 K0.5 2.28 Qu/Do 0.65 Cg 0.77 K 2.22	0.272	1.97	0.536	S/Do 2.5 K0 2.83 K0.5 2.28 K 2.22 S/Do 2.8 K0 2.47 K0.5 2.40 K 2.42 Interp val for S/Do 2.19 Kw 2.34 CHART 46 S/Do 2.5 K0 1.69 K0.5 1.98 K 1.91 S/Do 2.8 K0 1.98 K0.5 2.02 K 2.01 Interp val for S/Do 2.19 Ku 1.97 K vals step pipes as pipe flow	2.34 0.636	1.32	0.653	0.327 (0.244 ly)	3.60 (3.21 ly)	23.400 22.037	23.400 22.570	23.936	24.036	24.341	4/1			
5 100	3/1	3/1 to 2/1	5/1,4/1,3/1	13.00 13.00	155 265		0.67 0.82	0.374 0.374	0.251 0.307	0.251 0.307	108 226	108	0.00	0.00	2382	10151.0 (UNLOCKED 4)	108	0	2/1	13.44 13.44	153 262	1.461 1.787	1301		621 (Pipe flow= Sum upstr atten flow)	5.500	0.51	675(2)	1.68 (1.68)	0.05	Qg 0.107 Qo 0.621 Do 675 Angle 90 Chart 47 S/Do 2.5 chartdeg Du/Do 0.78 K0 2.19 K0.5 2.32 Qu/Do 0.83 Cg 0.42 K 2.24 S/Do 2.8 K0 2.49 K0.5 2.40 K 2.45 S/Do 1.5 K0 2.71 K0.5 2.73 K 2.72	0.144	2.10	0.302	Interp val for S/Do 0.69 Kw 2.61 CHART 46 S/Do 2.8 K0 1.91 K0.5 2.03 K 1.96 S/Do 1.5 K0 2.10 K0.5 2.31 K 2.18 Interp val for S/Do 0.69 Ku 2.10	2.61 0.375	0.51	0.028			22.168 22.141	22.268 22.240	22.570	22.643	22.809	3/1			
5 100	2/1	2/1 to 1/1	5/1,4/1,3/1,2/1	13.00 13.00	155 265		0.67 0.82	0.199 0.199	0.133 0.163	0.133 0.163	57 120	57	0.00	0.00	2382	10151.0 (UNLOCKED 4)	57	0	LOST	13.49 13.49	152 261	1.594 1.950	1414		673 (Pipe flow= Sum upstr atten flow)	8.908	0.40	750(2)	1.48 (1.61)	0.10	Qg 0.056 Qo 0.673 Do 750 CHART 33 Angle 1 S/Do 2.5 Du/Do 0.90 Qg/Do 0.08 K 0.24 S/Do 1.06 cor 0.14 Ku 0.38 Kw 0.38	0.112	0.38	0.042			0.38	0.042	0.34	0.030	0.574 (0.411 ly)	1.83 (1.66 ly)	22.198 22.162	22.198 22.150	22.240	22.240	22.809	2/1	

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Client: **GUNGARDE COMMUNITY CENTRE
ABORIGINAL CORPORATION**

Project: **5 LOT SUBDIVISION AT
80-84 SAVAGE ST, COOKTOWN**

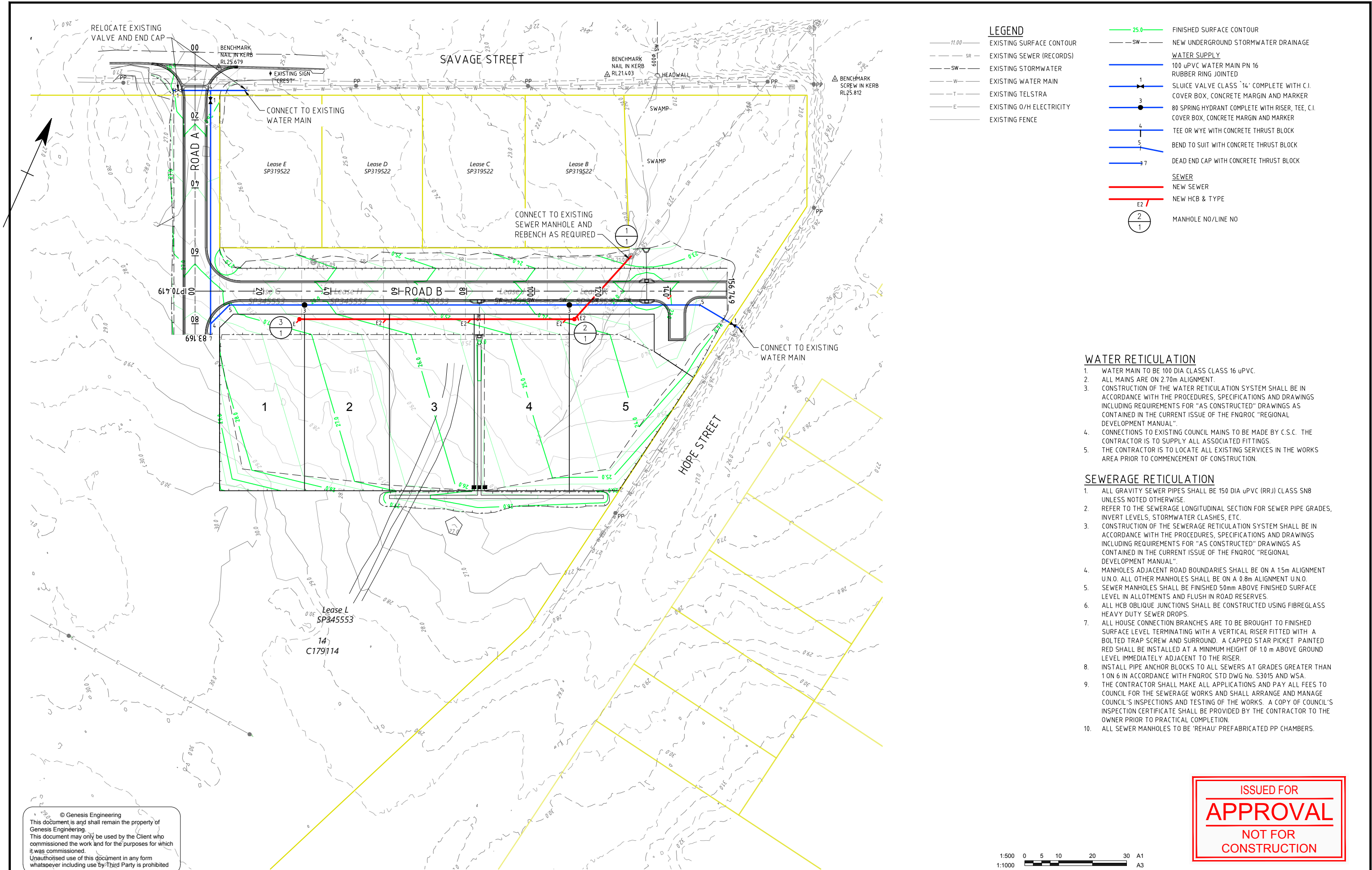
Drawn: **KCDD**
Designed: **KCDD**

Approved:

Signed:

Title: **STORMWATER DRAINAGE
CALCULATIONS**

Scale at A1:	Project No:	Drawing No:	Rev:
N.T.S.	240210	240210 - C10	A



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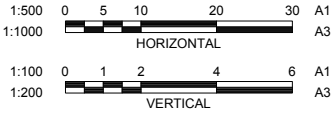
				Do Not Scale. This drawing must not be used for construction unless issued "For Construction" and signed as Approved.		 Design Management Certification Inspections		Genesis Engineering (NQ) Pty Ltd 0422 061 961 Australia +675 7067 6409 PNG +679 7333 429 Fiji 113 O'Shea Esp, CAIRNS, QLD 4878 www.genesisengnq.com.au		Client: GUNGARDE COMMUNITY CENTRE ABORIGINAL CORPORATION		Drawn: KCDD	Designed: KCDD	Title: SEWERAGE AND WATER SUPPLY			
Approved:								Project: 5 LOT SUBDIVISION AT 80-84 SAVAGE ST, COOKTOWN									
Signed:														Scale at A1:	Project No:	Drawing No:	Rev:
														1:500	240210	240210 - C11	A
Rev. Date Description Drawn Checked																	
A 04/08/25 INITIAL ISSUE KCDD																	

JUNCTION LINE No			
MANHOLE COVER		RECTANGULAR TYPE "B"	RECTANGULAR TYPE "B"
MANHOLE DROP		TYPE "A"	
MANHOLE No	1/1	2/1	3/1

CONNECT TO EXISTING
SEWER MANHOLE AND
REBENCH AS REQUIRED

DIAMETER	150 Ø uPVC		
GRADE	1 on 19.61 5.1%	1 on 29.07 3.44%	
LENGTH	24.968	81	
DATUM R.L.	13		
R.L. TOP OF MANHOLE	23.82		26.584
JUNCTION INVERT LEVEL			
MANHOLE DEPTH LID TO INVERT	1.52		1.484
SEWER PIPE INVERT LEVEL	21.05 21.08	22.3 22.35	25.1
DESIGN SURFACE LEVEL	22.73 23.795		26.559
EXISTING SURFACE LEVEL	22.18 23.85		26.7
CHAINAGE	0 24.97		105.97

SEWER LINE "1"



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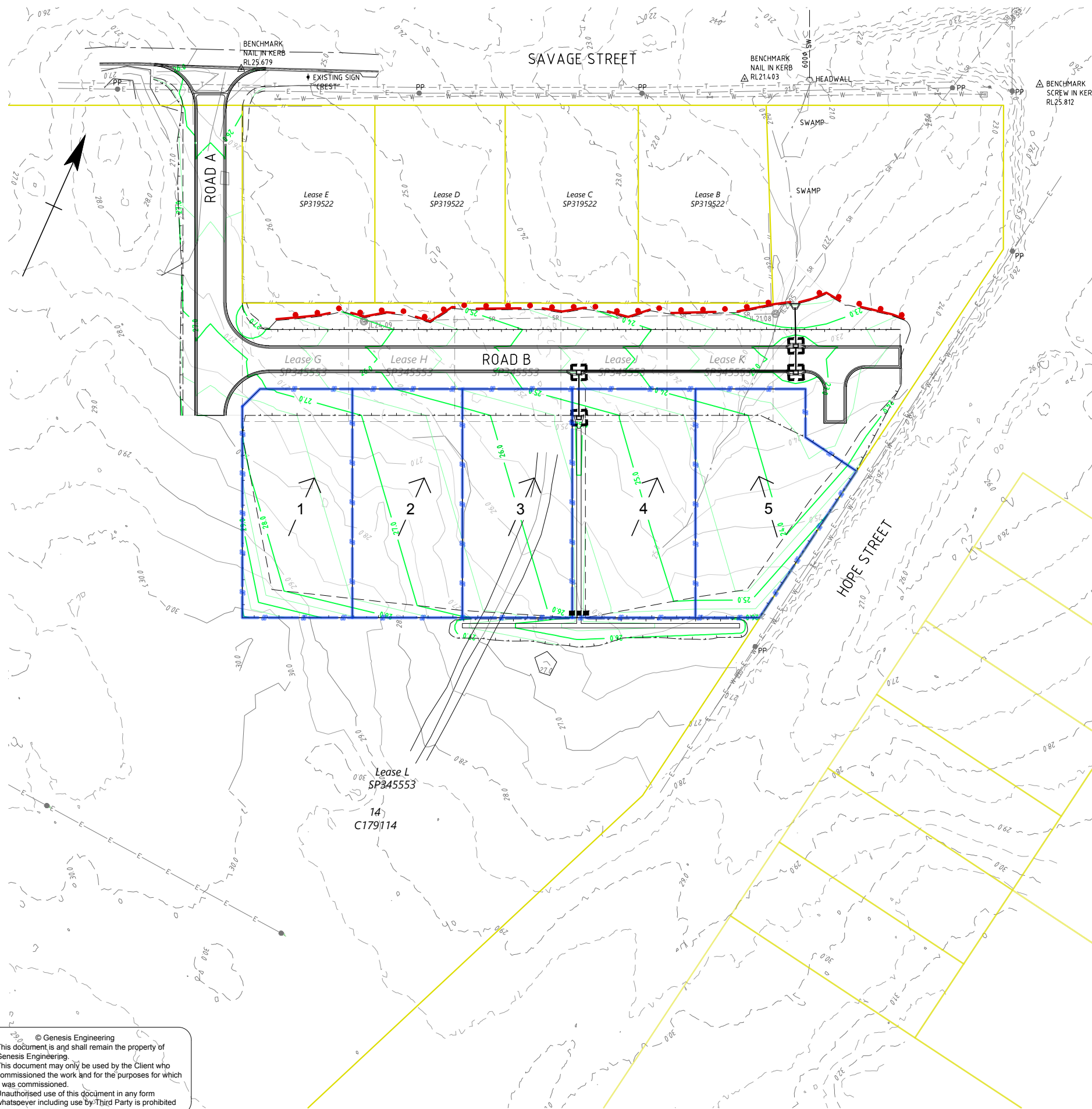
Client: **GUNGARDE COMMUNITY CENTRE
ABORIGINAL CORPORATION**
Project: **5 LOT SUBDIVISION AT
80-84 SAVAGE ST, COOKTOWN**

Drawn: KCDD
Designed: KCDD
Approved:
Signed:

Title: **SEWERAGE LONGITUDINAL SECTION**

Scale at A1: **1:500**
Project No: **240210**
Drawing No: **240210 - C12**
Rev: **A**

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Rev.	Date.	Description	Drawn	Checked



LEGEND

— 11.00 —	EXISTING SURFACE CONTOUR	— 25.0 —	FINISHED SURFACE CONTOUR
— SR —	EXISTING SEWER (RECORDS)	☐	CONSTRUCT SILT TRAP / ROCK CHECK DAM AT EACH PIPE INLET (TYP). CLEAN WATER TO DISCHARGE TO PIT AND PIPE
— SW —	EXISTING STORMWATER	—●—	SILT FENCE
— W —	EXISTING WATER MAIN	—■—	CHECK DAM
— T —	EXISTING TELSTRA		
— E —	EXISTING O/H ELECTRICITY		
— — —	EXISTING FENCE		

EROSION SEDIMENT CONTROL STRATEGY AND ENVIRONMENTAL PROTECTION

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND PRESERVE THE NATURAL ENVIRONMENT AND SHALL AVOID ENVIRONMENTAL POLLUTION IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION ACT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INCORPORATION OF APPROPRIATE CONTROL AND MANAGEMENT MEASURES CONFORMING TO THE REQUIREMENTS OF THE ACT AND THE RELEVANT AUTHORITIES.
3. THE EROSION AND SEDIMENT CONTROL STRATEGY, SHOWN OR NOTED ON THESE DRAWINGS, HAS BEEN PROVIDED AS A GUIDE.
4. THE CONTRACTOR SHALL PROVIDE AN EROSION SEDIMENT CONTROL PLAN (ESCP) FOR EACH PHASE OF HIS PROPOSED CONSTRUCTION PROGRAM AND WORK METHODS, AND IS WHOLLY RESPONSIBLE FOR THE IMPLEMENTATION, CONTROL AND MANAGEMENT OF SUCH PLAN.
5. THE CONTRACTOR SHALL INSTALL ALL DEVICES/MEASURES NECESSARY TO COMPLY WITH THE PROVISIONS OF THE ESCP FNQROC DEVELOPMENT MANUAL, THE ENVIRONMENTAL PROTECTION ACT, AND COUNCIL REQUIREMENTS.
6. THE ESCP SHALL INCLUDE SUCH MEASURES AS SHOWN ON THE STRATEGIC PLAN.
7. GENESIS ENGINEERING DOES NOT ACCEPT RESPONSIBILITY FOR THE CONTRACTOR'S DESIGN & IMPLEMENTATION OF HIS ESCP NOR THE CONSEQUENCES OF HIS FAILURE TO APPLY ALL REASONABLE CONTROLS.
8. ALL STORMWATER INLETS, TRENCHES, ETC, SHALL BE CONSTRUCTED IN SUCH A WAY AS TO PREVENT THE ENTRY OF SEDIMENT INTO THE STRUCTURE. IF IT IS NECESSARY TO DISCHARGE INTO SUCH INLETS THEN SUITABLE SILT TRAPS SHALL BE CONSTRUCTED UPSTREAM OF THE INLETS SUCH THAT OVERFLOW FROM TRAPS ENTERS THE DRAINS AFTER THE SEDIMENT HAS DROPPED OUT.
9. ALL SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL THE END OF THE MAINTENANCE PERIOD, UNLESS NOTED OTHERWISE. ALL SEDIMENT CONTROL DEVICES ARE TO BE FULLY MAINTAINED IN AN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION AND THE MAINTENANCE PERIOD. THE CONTRACTOR SHALL ENSURE THAT ALL SEDIMENT CONTROL DEVICES ARE KEPT FREE OF SEDIMENT BUILD-UP.
10. SEDIMENT FENCES SHALL BE INSTALLED SUCH THAT THE BASE OF THE FENCE IS PLACED 150mm MINIMUM BELOW GROUND LEVEL, AND ANCHORED SECURELY IN SUCH POSITION.
11. ALL VEHICLE EXIT POINTS SHALL HAVE SHAKER GRIDS, WASH BAYS OR SIMILAR TO PREVENT VEHICLES FROM TRACKING SOIL AND MUD OFF SITE.
12. ALL SOIL STOCKPILES SHALL BE PROTECTED AGAINST WIND EROSION BY COVERING AND AGAINST STORMWATER RUNOFF BY SILT FENCES AT THE DOWNHILL SLOPES. STOCKPILE LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND EROSION/CONTROL MEASURES IMPLEMENTED & MAINTAINED FOR THE LIFE OF THE STOCKPILE.
13. THE CONTRACTOR SHALL INSTALL TURF STRIPS BEHIND ALL KERB & CHANNEL, ADJACENT CONCRETE INVERTS AND ALLOTMENT DRAINS ETC. WHERE DIRTY WATER SHEET FLOWS INTO DRAINAGE COLLECTION SYSTEMS.
14. DIVERT CLEAN WATER AROUND AREAS OF CONSTRUCTION.
15. ALL ROAD SHOULDERS, FOOTPATHS, DRAINS AND CUT BATTERS UP TO 1 on 4 SLOPE SHALL BE DRILL SEEDED WITH APPROVED GRASS SPECIES, FERTILIZED AND MAINTAINED FOR THE REQUIRED MAINTENANCE PERIOD.
16. HYDROMULCH ALL CUT AND FILL BATTERS STEEPER THAN 1 on 4, WITH APPROVED SUITABLE GRASS SPECIES AND MAINTAINED FOR THE REQUIRED MAINTENANCE PERIOD.
17. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY BERMS AT THE TOP OF ALL BATTERS TO DIRECT AND CONTROL RUNOFF TO A SINGLE LOCATION. THE DISCHARGE OVER THE BATTER SHALL BE THROUGH A STABILIZED CHUTE ADDRESSED IN THE CONTRACTORS PLAN, e.g. REINFORCED TURF, GEOTEXTILE, CONCRETE OR SIMILAR.
18. ALL WORKS AND MATERIALS SHALL BE IN ACCORDANCE WITH FNQROC.

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1:500 0 5 10 20 30 A1
1:1000 A3

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Client: **GUNGARDE COMMUNITY CENTRE ABORIGINAL CORPORATION**
Project: **5 LOT SUBDIVISION AT 80-84 SAVAGE ST, COOKTOWN**

Drawn: **KCDD**
Designed: **KCDD**
Approved:
Signed:

Title: **EROSION AND SEDIMENT CONTROL STRATEGY**

Scale at A1:	Project No:	Drawing No:	Rev:
1:500	240210	240210 - C13	A

Rev.	Date	Description	Drawn	Checked
A	04/08/25	INITIAL ISSUE	KCDD	