## COFFS HARBOUR CITY COUNCIL 27-29 CHARLESWORTH BAY ROAD, COFFS HARBOUR PROPOSED COMMUNITY TITLE LOT SUBDIVISION CONCEPT CIVIL ENGINEERING DESIGN FOR DEVELOPMENT APPLICATION





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Prepared for: MR BRIAN BETTS

Revision A Date 06/09/2024 Project No. 240204-01





#### GENERAL NOTES

- 1. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DEVELOPMENT CONSENT AND THE COFFS HARBOUR COUNCIL WORKS SPECIFICATIONS SUBDIVISIONS / DEVELOPMENTS AND / OR AS DIRECTED BY THEIR REPRESENTATIVE AND MUST INCLUDE ANY NECESSARY WORKS REQUIRED TO MAKE THE CONSTRUCTION EFFECTIVE. ALL WORKS AND PUBLIC UTILITY RELOCATION SHALL INCUR NO COST TO
- 2. THE CONTRACTOR IS TO IDENTIFY, LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORKS AND WHERE NECESSARY MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST WHERE NECESSARY.
- 3. ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE WORK HEALTH & SAFETY ACT 2017 AND ALL RELEVANT OCCUPATIONAL HEALTH & SAFETY POLICIES AND REGULATIONS.
- 4. DIMENSIONS SHALL NOT BE SCALED FROM THE PLANS, CLARIFICATION OF DIMENSIONS SHALL BE SOUGHT FROM THE SUPERINTENDENT OR REFERRED TO THE DESIGNER.
- 5. SURVEY MARKS SHALL BE MAINTAINED AT ALL TIMES. WHERE RETENTION IS NOT POSSIBLE THE ENGINEER SHALL BE NOTIFIED AND CONSENT RECEIVED PRIOR TO THEIR REMOVAL.
- 6. ALL NEW WORK IS TO MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS.
- 7. THE CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN OR ON ADJACENT LANDS WITHOUT THE PRIOR APPROVAL OF THE SUPERINTENDENT AND THE WRITTEN PERMISSION OF THE OWNERS.
- 8. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL THROUGHOUT THE DURATION OF THE PROJECT.
- 9. FELLED TREES SHALL BE SALVAGED FOR RE-USE AS WOODCHIP MULCH OR LOG FORM FOR SITE REHABILITATION, NON-SALVAGEABLE MATERIAL SUCH AS STUMPS AND ROOTS SHALL BE APPROPRIATELY DISPOSED OF OFF SITE
- 10. THE CONTRACTOR SHALL PROVIDE MINIMUM 24 HOURS NOTICE TO CERTIFIERS REPRESENTATIVE FOR ALL INSPECTIONS.
- 11. ALL NATURAL SURFACE DATA HAS BEEN DETERMINED BY TERRAIN MODELLING. ALL CONSTRUCTION SITE WORKS MUST BE CARRIED OUT USING THE BENCH MARKS SHOWN ON THESE DRAWINGS.
- 12. THE REUSE AND RECYCLING OF WASTE MATERIALS MUST BE MAXIMISED DURING CONSTRUCTION AND DEMOLITION. THE SEPARATION AND RECYCLING OF THE FOLLOWING WASTE MATERIAL a) MASONRY b) TIMBER c) METALS d) CLEAN WASTE e) MIXED WASTE THIS CAN BE ACHIEVED BY CONSTRUCTING A MINIMUM OF FIVE TRADE WASTE COMPOUNDS ON-SITE COPIES OF ACTUAL WEIGHBRIDGE RECEIPTS VERIFYING RECYCLING/DISPOSAL MUST BE KEPT AND PRESENTED TO COUNCIL OR NOMINATED AUTHORITY WHEN REQUIRED.
- 13. THE TREES THAT ARE TO BE RETAINED ARE TO BE PROTECTED DURING ALL WORKS WITH 1.8m HIGH CHAINWIRE FENCING WHICH IS TO BE ERECTED AT LEAST THREE METRES FROM THE BASE OF EACH TREE AND IS TO BE IN PLACE PRIOR TO WORKS COMMENCING TO RESTRICT THE FOLLOWING OCCURING: STOCKPILING OF MATERIALS WITHIN THE ROOT PROTECTION ZONE, PLACEMENT OF FILL WITHIN THE ROOT PROTECTION ZONE, PARKING OF VEHICLES WITHIN THE ROOT PROTECTION ZONE, COMPACTION OF SOIL WITHIN THE ROOT PROTECTION ZONE. ALL AREAS WITHIN THE ROOT PROTECTION ZONE ARE TO BE MULCHED WITH COMPOSTED LEAF MULCH TO A DEPTH NOT LESS THAN 100mm. THE INSTALLATION OF SERVICES WITHIN THE ROOT PROTECTION ZONE IS NOT TO BE UNDERTAKEN WITHOUT CONSULTATION WITH COUNCIL'S TREE MANAGEMENT OFFICER.
- 14. A COPY OF THE DEVELOPMENT CONSENT AND STAMPED PLANS AND TRAFFIC CONTROL PLAN SHALL BE KEPT ON SITE AT ALL TIMES DURING CONSTRUCTION.
- 15. IF, DURING THE COURSE OF ANY WORKS, ANY EVIDENCE OF AN ABORIGINAL ARCHAEOLOGICAL SITE OR RELIC IS FOUND, ALL WORKS ON THE SITE ARE TO CEASE AND THE DEPARTMENT OF ENVIRONMENT AND CLIMATE CHANGE AND THE NSW HERITAGE BRANCH ARE TO BE NOTIFIED IMMEDIATELY.
- 16. IF, DURING THE COURSE OF ANY WORKS, ANY EVIDENCE OF A EUROPEAN ARCHAEOLOGICAL SITE OR RELIC IS FOUND, ALL WORKS ON THE SITE ARE TO CEASE AND THE NSW HERITAGE BRANCH CONTACTED IMMEDIATELY. ALL RELICS ARE TO BE RETAINED IN SITU UNLESS OTHERWISE DIRECTED BY THE NSW HERITAGE BRANCH.
- 17. ANY NEW INFORMATION, WHICH COMES TO LIGHT DURING CONSTRUCTION WORKS, WHICH HAS THE POTENTIAL TO ALTER PREVIOUS CONCLUSIONS ABOUT SITE CONTAMINATION, SHALL BE IMMEDIATELY NOTIFIED TO COUNCIL.
- 18. CONSTRUCTION INSPECTIONS ARE REQUIRED FOR THE ENGINEERING WORKS IN ACCORDANCE WITH THE RELEVANT LOCAL COUNCIL WORKS SPECIFICATION.
- 19. SEDIMENT MEASURES SHALL BE IMPLEMENTED PRIOR TO SOIL DISTURBANCE IN KEEPING WITH THE 4th EDITION OF LANDCOMS "SOILS AND CONSTRUCTION -MANAGING URBAN STORMWATER" MARCH 2004 TO THE SATISFACTION OF COUNCIL'S REPRESENTATIVE AND AS SHOWN IN THESE DRAWINGS.
- 20. THE CONTRACTOR SHALL CLEAR AND DISPOSE OF ONLY THOSE TREES THAT ARE CONDEMNED BY THE PLANS. COUNCIL'S TREE PRESERVATION ORDER SHALL BE OBSERVED AND NO TREE SHALL BE FELLED, LOPPED OR REMOVED WITHOUT PRIOR APPROVAL OF COUNCIL.
- 21. THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES, OUT HOUSES, CAR BODIES, DEBRIS, ETC. THE CONTRACTOR SHALL NOT DISPOSE OF ANY DEBRIS BY BURNING OFF IN AN OPEN FIRE.

#### ROADWORKS NOTES

- 1. THE CONTRACTOR SHALL UNDERTAKE TRAFFIC CONTROL MEASURES TO COUNCIL'S SATISFACTION AND SHALL DISPLAY ALL APPROPRIATE WARNING SIGNS THROUGHOUT THE DURATION OF CONSTRUCTION.
- 2. UNSOUND MATERIALS AS DETERMINED BY THE COUNCIL'S REPRESENTATIVE SHALL BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING.
- 3. PROVIDE VEHICULAR ENTRIES IN KERB AND GUTTER WHERE SHOWN OR DIRECTED BY THE SUPERINTENDENT

#### **EARTHWORKS NOTES**

- 1. CARE IS TO BE TAKEN DURING THE CONSTRUCTION OF THE PROPOSED WORKS TO ENSURE NATURAL VEGETATION AND TOPOGRAPHY ON THE SUBJECT SITE IS NOT UNNECESSARILY DISTURBED. ANY EXCAVATION MATERIAL NOT USED IN THE CONSTRUCTION OF THE SUBJECT WORKS IS TO BE REMOVED FROM THE SITE AND UNDER NO CIRCUMSTANCES IS TO BE DEPOSITED IN BUSHLAND AREAS.
- 2. COUNCIL MUST BE NOTIFIED OF ANY DAMAGE TO THE PUBLIC INFRASTRUCTURE SUCH AS ROAD PAVEMENT, KERB AND GUTTER, CONCRETE FOOTPATHS, DRAINAGE STRUCTURES, UTILITIES AND LANDSCAPING FRONTING THE DEVELOPMENT..
- 3. UNSOUND MATERIALS AS DETERMINED BY COUNCIL'S REPRESENTATIVE SHALL BE REMOVED FROM ROADS AND LOTS PRIOR TO ANY FILLING.
- 4. ALL SITE REGRADING AREAS SHALL BE GRADED TO THE SATISFACTION OF COUNCIL'S REPRESENTATIVE. THE CONTRACTOR SHALL TAKE LEVELS ON THE EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING ANY FILL OPERATIONS.
- 5. SURPLUS EXCAVATED MATERIAL SHALL BE PLACED OR DISPOSED OF IN ACCORDANCE WITH THE CONTRACT, OR AS DIRECTED BY THE SUPERINTENDENT.
- 6. ALL SITE FILLING SHALL BE PLACED IN LAYERS NOT EXCEEDING COUNCILS AND GEOTECH REQUIREMENTS. FILL IS TO BE COMPACTED IN ACCORDANCE WITH GEOTECH SPECIFICATIONS AND BE TESTED AT THE REQUIRED INTERVALS BY AN APPROVED N.A.T.A. GEOTECHNICAL LABORATORY.
- MINIMUM 150mm THICK TOPSOIL SHALL BE SPREAD ON ALL BERMS, BATTERS AND SITE REGRADING AREAS. EXCESS TOPSOIL SHALL BE DISPOSED OF AS DIRECTED BY THE SUPERINTENDENT.
- 8. ALL LAND DISTURBED BY EARTHWORKS SHALL BE SPRAY-GRASSED, TURFED OR SIMILARLY TREATED TO ESTABLISH GRASS COVER. SEED MIXTURES ARE TO BE APPROVED BY COUNCIL PRIOR TO SPRAYING. ALL GRASSED AREAS SHALL BE REGULARLY WATERED AND MAINTAINED UNTIL EXPIRATION OF THE MAINTENANCE PERIOD.
- 9. THE DISPOSAL / LANDFILL OF SURPLUS EXCAVATED MATERIAL, OTHER THAN TO A DECC LICENSED FACILITY, IS NOT PERMITTED WITHOUT FORMAL APPROVAL FROM COUNCIL PRIOR TO THE COMMENCEMENT OF WORKS. ANY UNAUTHORIZED DISPOSAL OF WASTE, WHICH INCLUDES EXCAVATED MATERIAL, IS A BREACH OF THE PROTECTION OF THE ENVIRONMENT OPERATIONS ACT 1997 AND SUBJECT TO SUBSTANTIAL PENALTIES. UNLESS COUNCIL APPROVES AN ALTERNATIVE SITE, THEN ALL SURPLUS MATERIAL MUST BE DISPOSED OF AT A LICENSED WASTE FACILITY. COPIES OF ACTUAL WEIGHBRIDGE RECEIPTS VERIFYING RECYCLING / DISPOSAL MUST BE KEPT AND PRESENTED TO COUNCIL WHEN REQUIRED.
- 10. THE ONLY WASTE DERIVED FILL MATERIAL THAT MAY BE RECEIVED AT THE DEVELOPMENT SITE IS: a) VIRGIN EXCAVATED NATURAL MATERIAL OR b) ANY OTHER WASTE-DERIVED MATERIAL THE SUBJECT OF A RESOURCE RECOVERY UNDER CLAUSE 51A OF THE PROTECTION OF THE ENVIRONMENT OPERATIONS (WASTE) REGULATION 2005 THAT IS PERMITTED TO BE USED AS FILL MATERIAL. ANY WASTE-DERIVED MATERIAL THE SUBJECT OF A RESOURCE RECOVERY EXEMPTION RECEIVED AT THE DEVELOPMENT SITE MUST BE ACCOMPANIED BY DOCUMENTATION AS TO THE MATERIAL'S COMPLIANCE WITH THE EXEMPTION CONDITIONS AND MUST BE PROVIDED TO THE PRINCIPAL CERTIFYING AUTHORITY ON REQUEST.

#### SERVICE NOTES

- 1. THE CONTRACTOR IS TO IDENTIFY, LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORKS AND WHERE NECESSARY MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST.
- 2. BARKER RYAN STEWART DOES NOT ACCEPT ANY LIABILITY FOR INACCURACIES IN THE SERVICE INFORMATION SHOWN.
- 3. CONDUITS SHALL BE LAID AFTER POSITIONS HAVE BEEN DETERMINED BY THE RELEVANT AUTHORITIES AND BEFORE FINAL A.C. IS LAID.
- 4. POSITION OF CONDUITS SHALL BE MARKED ON THE KERB.
- 5. THE CONTRACTOR SHALL MAINTAIN SERVICES AND ALL WEATHER ACCESS AT ALL TIMES TO THE ADJOINING PROPERTIES.
- 6. CARE SHALL BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATION SHALL BE MADE OVER TELSTRA OR ELECTRICAL SERVICES, EXCAVATE BY HAND ONLY IN THESE AREAS.

#### DRAINAGE NOTES

- 1. ALL PITS DEEPER THAN 1.2m SHALL HAVE STEP IRONS PROVIDED IN ACCORDANCE WITH COUNCIL'S STANDARDS.
- 2. ALL DRAINAGE LINES THROUGH THE LOTS SHALL BE CONTAINED WITHIN THE EASEMENTS AND CONFORM WITH COUNCIL'S STANDARDS.
- 3. ALL DRAINAGE LINES ON HIGH SIDE AND UNDER ROADS SHALL BE BACKFILLED WITH SHARP SAND AND HAVE 3.0m OF AGRICULTURAL LINE WRAPPED IN AN APPROVED FILTER FABRIC, DISCHARGING INTO THE DOWNSTREAM PIT.
- 4. SUBSOIL DRAINS SHALL BE CONSTRUCTED TO THE SATISFACTION OF COUNCIL'S REPRESENTATIVE.
- 5. PRECAST KERB INLET LINTELS SHALL BE USED ON GULLY PITS. GRATES SHALL BE "WELDLOK" TYPE GG50D OR APPROVED EQUIVALENT.
- 6. ON COMPLETION OF PIPE INSTALLATION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AREAS, GRASSED AREAS AND ROAD PAVEMENTS.
- 7. TRENCH WIDTHS ARE TO BE KEPT TO A MINIMUM, CONSISTENT WITH LAYING AND BEDDING OF THE RELEVANT SERVICE AND CONSTRUCTION PERSONNEL ACCESS WAYS AND PITS. REFER TO AUTHORITIES STANDARDS FOR MINIMUM TRENCH WIDTHS. STANDARD TRENCH WIDTHS AND THE DIMENSIONS OF UNSUPPORTED TRENCHES. SUPPORT EXCAVATIONS TO THE REQUIREMENTS OF THE CONSTRUCTION SAFETY REGULATIONS 1950, UNDER THE CONSTRUCTION SAFETY ACT 1912 (AS AMENDED)
- 8. PITS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH AS3500.3:2021 PLUMBING AND DRAINAGE - STORMWATER DRAINAGE STANDARD UNLESS OTHERWISE SPECIFIED BE THE LOCAL COUNCIL OR AUTHORITY.
- 9. PIT SIZES IN ACCORDANCE WITH AS3500.3:2021 AND/ OR COUNCIL REQUIREMENTS.
- 10. IF A PIT IS SHOWN ON THE KERB ALIGNMENT IT IS REQUIRED TO BE CONSTRUCTED AS A KERB INLET PIT UNLESS OTHERWISE NOTED.
- 11. BACKFILL TRENCHES IN ACCORDANCE WITH COUNCIL REQUIREMENTS WITHOUT DELAY FOR THE SECTION OF PIPE THAT HAS BEEN COMPLETED AND APPROVED, IF POSSIBLE ON THE SAME WORKING DAY.

#### STRUCTURAL NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600.
- CONCRETE QUALITY SHALL BE AS SPECIFIED AND SHALL BE VERIFIED BY TESTS.
- 3. ALL CONCRETE UNLESS OTHERWISE NOTED SHALL HAVE A SLUMP OF 80mm AT POINT OF PLACEMENT, A MAXIMUM AGGREGATE SIZE OF 20mm AND STRENGTH AS SPECIFIED. NO WATER SHALL BE ADDED TO THE MIX PRIOR TO OR DURING THE PLACEMENT.
- 4. ALL REINFORCEMENT SPECIFIED IS GRADE D500 UNLESS NOTED OTHERWISE.
- 5. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY, IT IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
- 6. TOP REINFORCEMENT IS TO BE CONTINUOUS ON SUPPORTS. BOTTOM REINFORCEMENT TO BE LAPPED AT SUPPORTS.
- 7. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON STRUCTURAL DRAWINGS.
- 8. PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE ZONE OF CONCRETE COVER TO THE REINFORCEMENT WITHOUT THE APPROVAL OF THE ENGINEER.
- 9. ALL REINFORCING BARS AND FABRIC SHALL COMPLY WITH AS4671.

10. REINFORCEMENT SYMBOLS:

- 10.1. N GRADE 500N DEFORMED BAR (D500) NORMAL DUCTILITY 10.2. R - GRADE 250N PLAIN ROUND BAR (R250) NORMAL DUCTILITY
- 10.3. SL GRADE 500L WELDED DEFORMED RIBBED MESH (D500) RECTANGULAR LOW
  - THE NUMBER IMMEDIATELY FOLLOWING THESE SYMBOLS IS THE NUMBER OF MILLIMETERS IN THE BAR DIAMETER.

**EXAMPLE**:

- 8 N12-250, DENOTES 8, GRADE 500N DEFORMED BARS, 12mm DIAMETER AT 250
- 11. FABRIC REINFORCEMENT TO BE LAPPED 1 COMPLETE SQUARE + 25mm UNLESS NOTED
- 12. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON BAR CHAIRS SPACED AT A MAXIMUM OF 750mm CENTRES BOTH WAYS UNDER THE ROD AND FABRIC REINFORCEMENT. REINFORCEMENT SHALL BE TIED AT ALTERNATIVE INTERSECTIONS.

#### **COUNCIL NOTES**

1. WORKS CARRIED OUT TO COFFS HARBOUR COUNCIL STANDARDS AND SPECIFICATIONS.

	LEGEND	
DESCRIPTION	EXISTING	PROPOSED
DRAINAGE LINE		
CONTOUR		
GRATED SURFACE INLET PIT		
SEALED PIT		
KERB INLET PIT		
PIT LABEL (LINE / No)	E/1	1/5
HANDRAILS		<del></del> 00-
TREE TO BE REMOVED		
BATTERS	71717171717	TITITITITI
LIMIT OF WORKS		LIMIT OF CONSTRUCTIO
ELECTRICITY	— — — E — — E —	
WATER	w w	
COMMUNICATIONS	—— c —— c ——	
SEWER	—— s ——— s ——	

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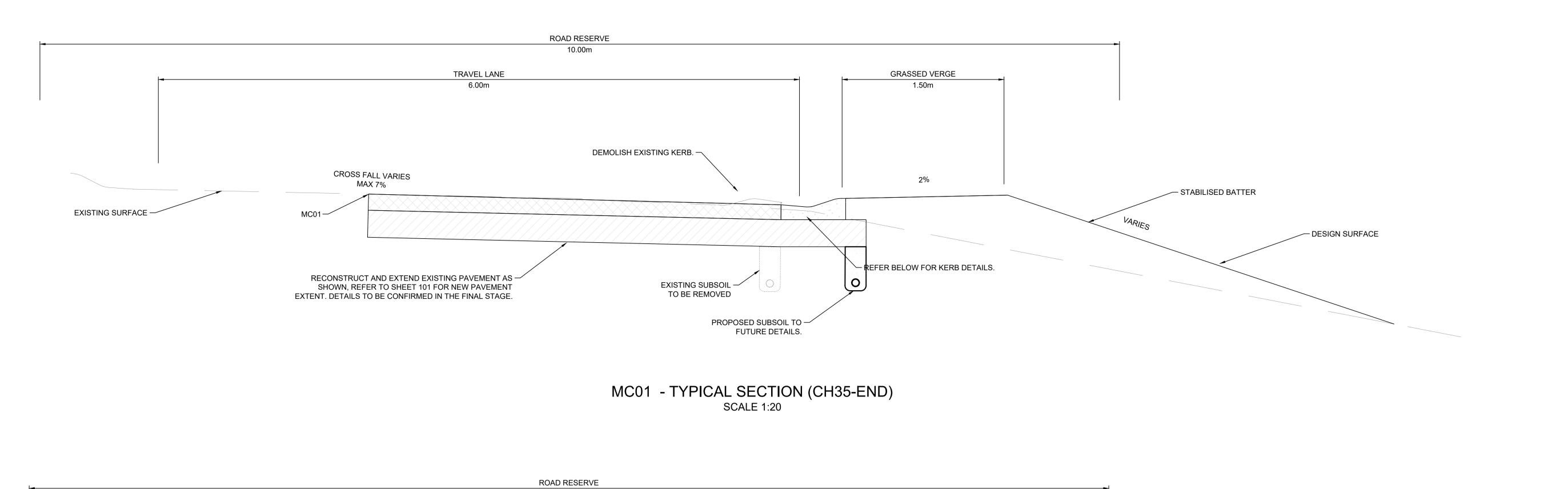
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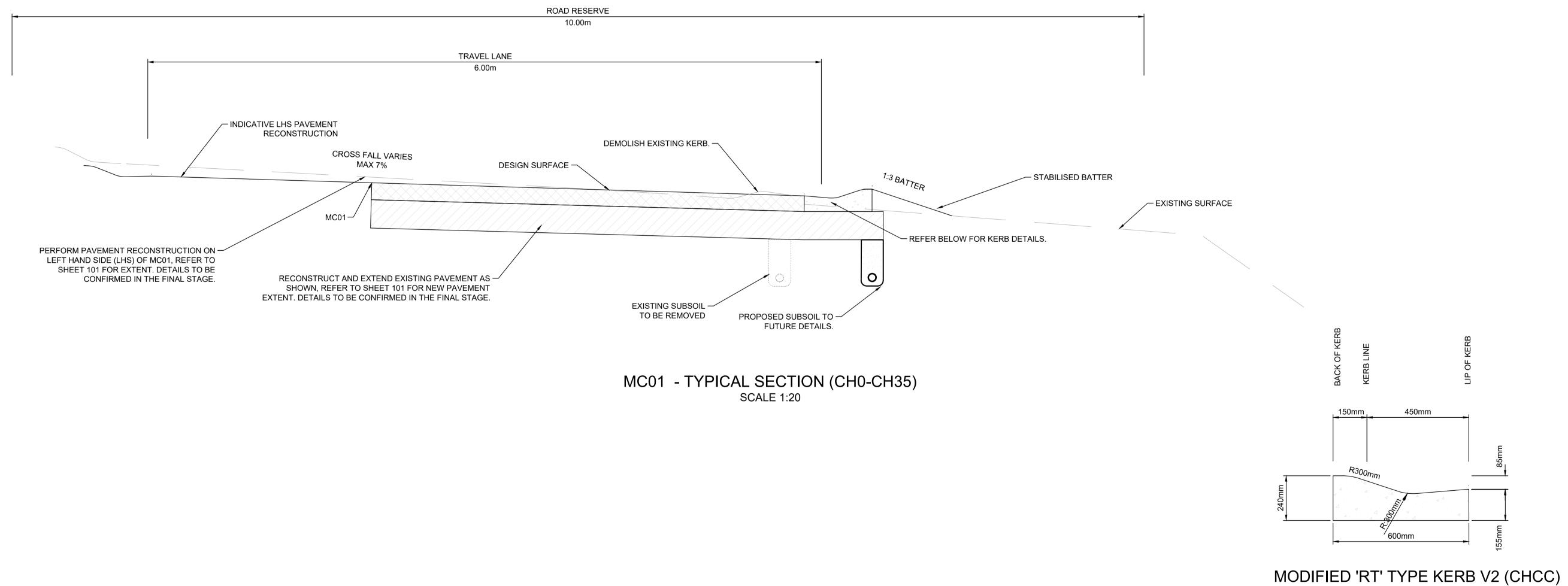
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**GENERAL NOTES** 

Datum:

A.H.D.



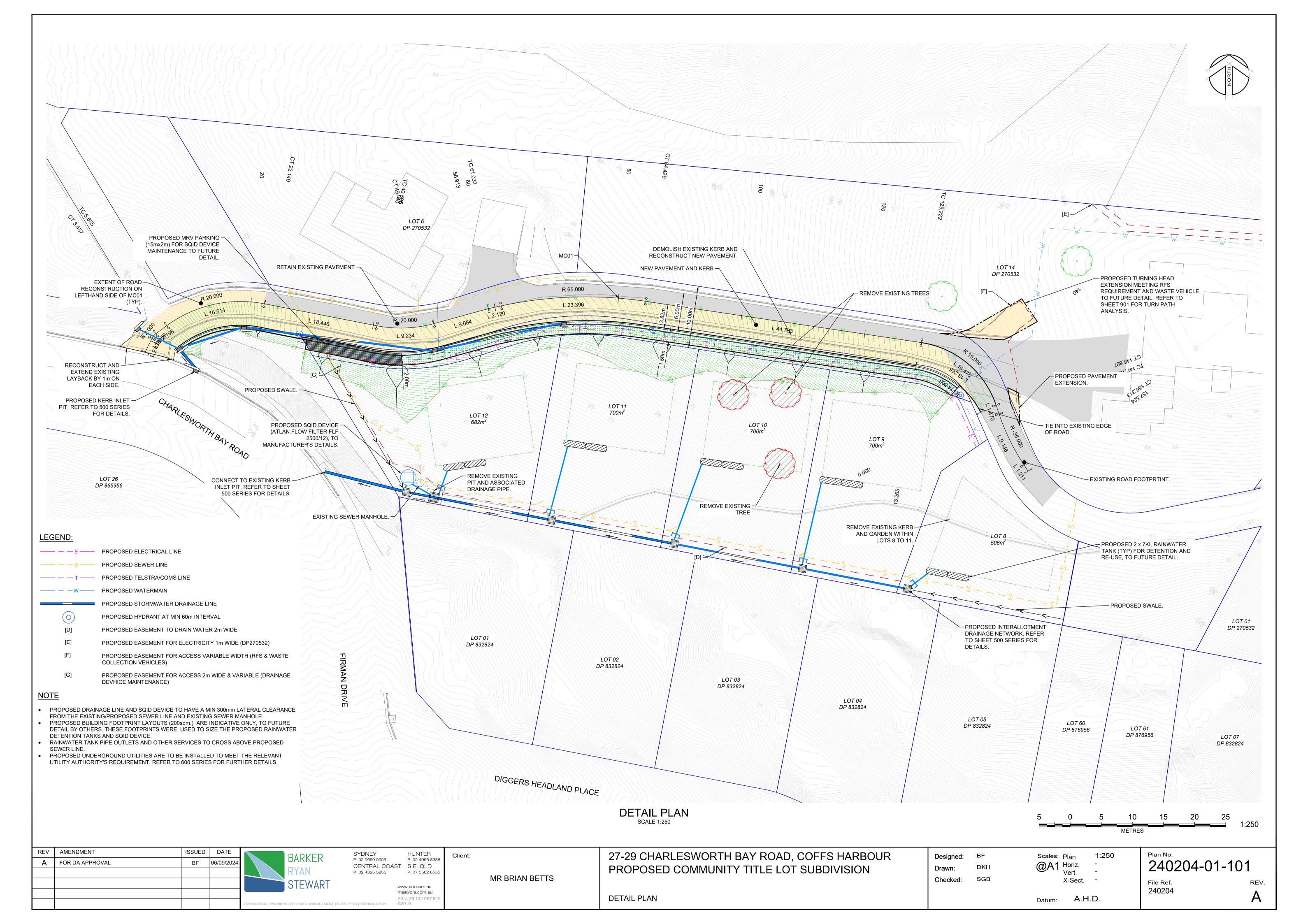


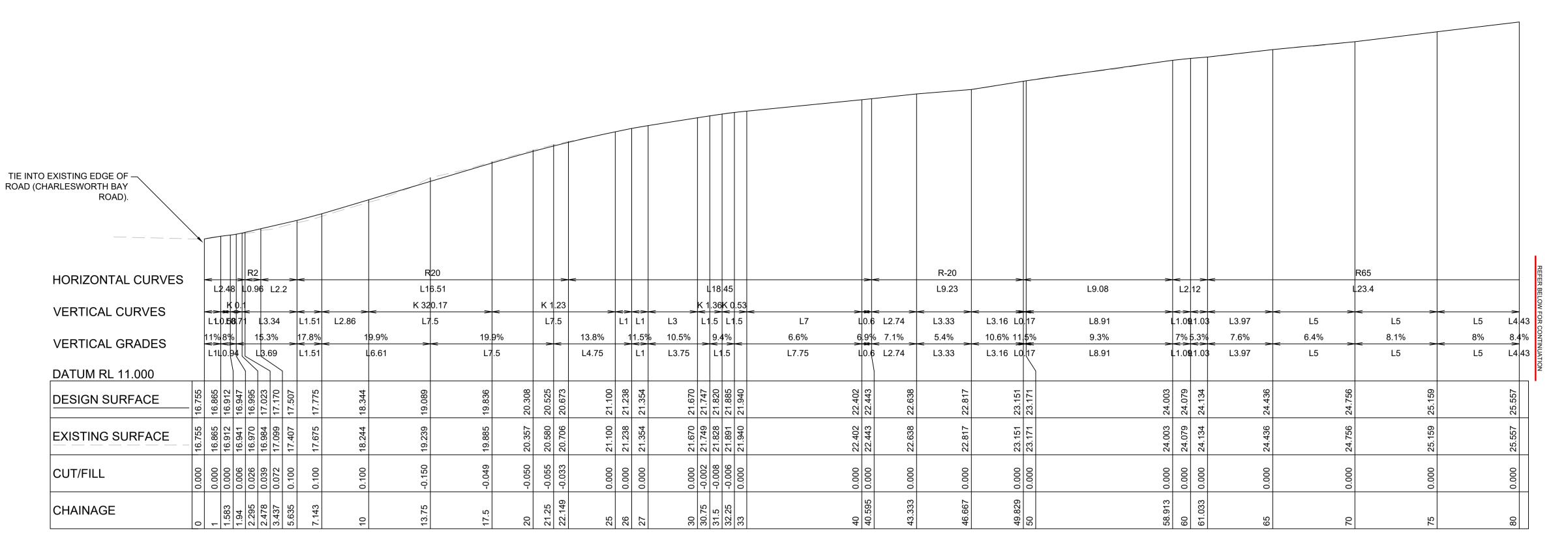
#### NOTES:

1. PAVEMENT AND SUBSOIL DETAILS TO BE CONFIRMED DURING THE FINAL STAGE.

REV A	AMENDMENT FOR DA APPROVAL	ISSUED BF	DATE 06/09/2024	BARKER	SYDNEY HUNTER P: 02 9659 0005 P: 02 4966 8388 CENTRAL COAST S.E. QLD P: 02 4325 5255 P: 07 5582 6555		27-29 CHARLESWORTH BAY ROAD, COFFS HARBOUR PROPOSED COMMUNITY TITLE LOT SUBDIVISION	Designed: Drawn:	BF DKH	Scales: Plan -	Plan No. 240204-0	1-031
				STEWART	www.brs.com.au	MR BRIAN BETTS		Checked:	SGB	X-Sect. 1:20	File Ref.	REV.
				ENGINEERING   PLANNING   PROJECT MANAGEMENT   SU	mail@brs.com.au  ABN: 26 134 067 842  URVEYING   CERTIFICATION ©2019		TYPICAL SECTIONS AND DETAILS			Datum: A.H.D.	240204	Α

REFER COFFS HARBOUR COUNCIL RTA & CHCC MODIFED KERBS

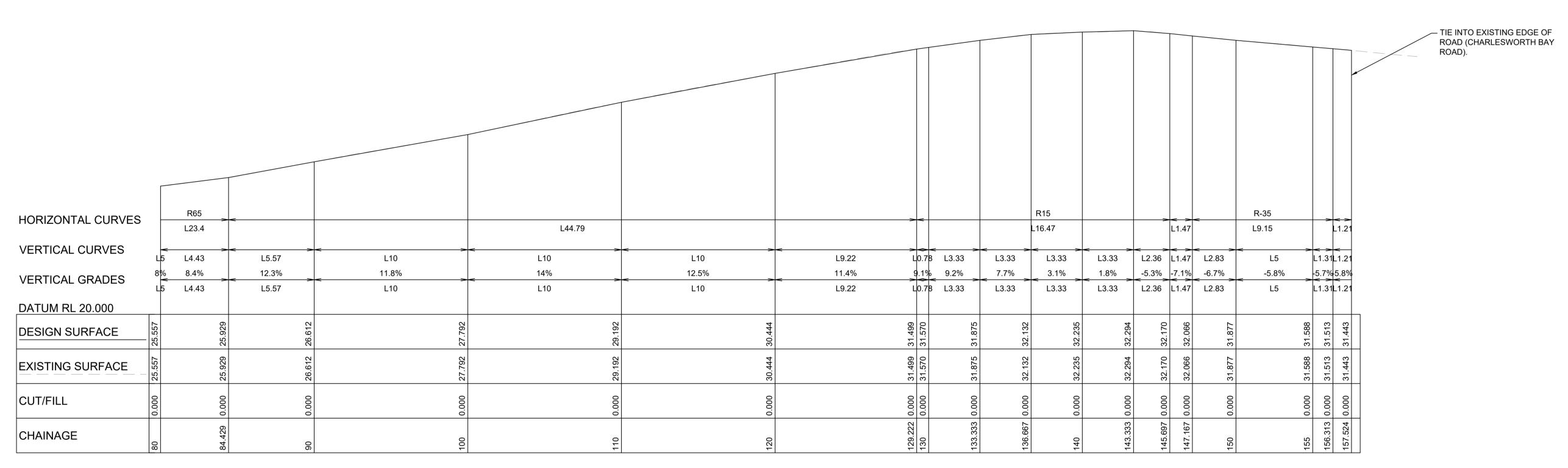




MC01 - LONGITUDINAL SECTION

HORZ SCALE 1:150

VERT SCALE 1:100



MC01 - LONGITUDINAL SECTION

HORZ SCALE 1:150

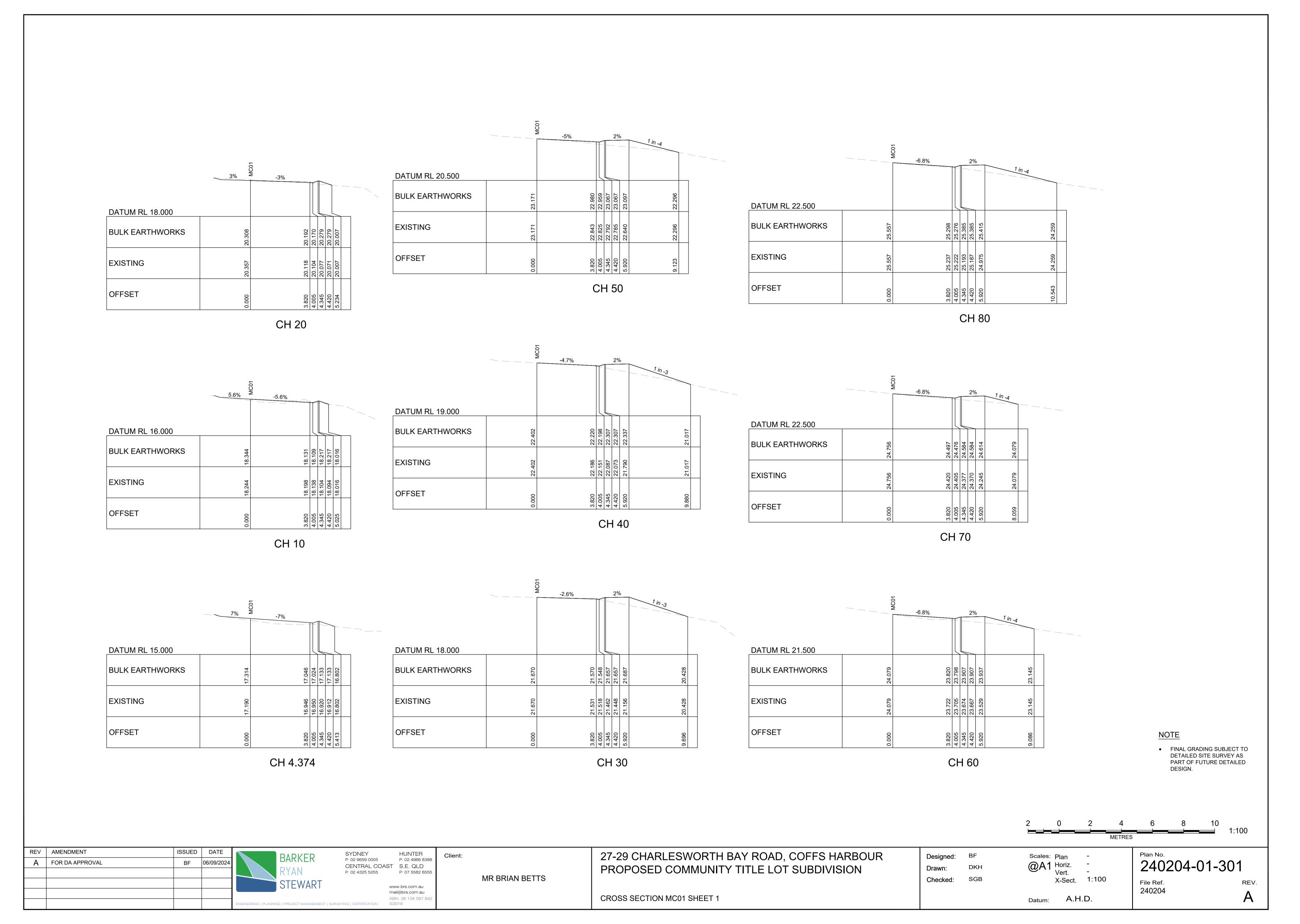
VERT SCALE 1:100

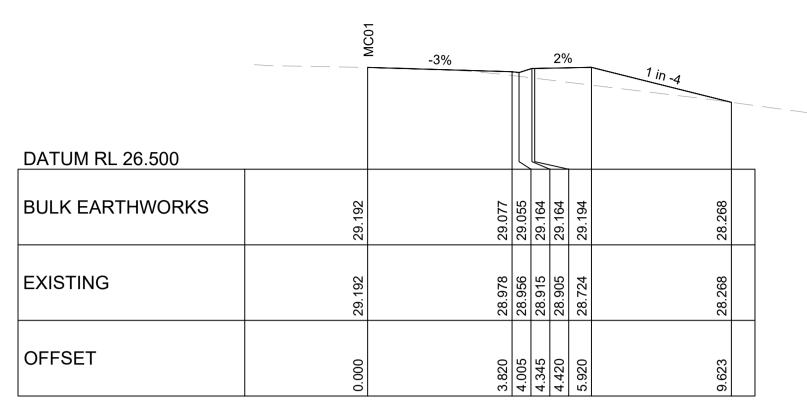
#### <u>NOTE</u>

 FINAL GRADING SUBJECT TO DETAILED SITE SURVEY AS PART OF FUTURE DETAILED DESIGN.

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				ENGIN	INEERING   PLANNING   PROJECT MANAGE	JEMENT   SURVEYING   CERTIFIC	mail@brs.com.a ABN: 26 134 067 ATION ©2019	842		LONGITUDINAL SECTION MC01			Datum: A.H.D.	240204	Α





CH 110

		-4.4%			2%	Ó	1 in -4
DATUM RL 25.000							
BULK EARTHWORKS	27.792		27.622	27.709	27.709	27.739	26.694
EXISTING	27.792		27.528 27.503	27.457	27.447	27.245	26.694
OFFSET	0.000		3.820			5.920	10.098
			C	H	1	0	

		-3%	2%	1 in -4
DATUM RL 29.000				
BULK EARTHWORKS	31.464	31.350	31.328 31.436 31.436 31.466	30.824
EXISTING	31.471	31.316	31.300 31.268 31.260 31.103	30.824
OFFSET	0.000	3.820	4.005 4.345 4.420 5.920	8.490
		CH <sup>2</sup>	128.919	9

	MC01	-6.8%	20	%	1 in -4
DATUM RL 23.000				_	
BULK EARTHWORKS	26.612	26.354	26.332 26.440 26.440	26.470	24.949
EXISTING	26.612	26.280	26.261 26.227 26.219	25.980	24.949
OFFSET	0.000	3.820	4.005 4.345 4.420	5.920	12.006
			(	CH S	90

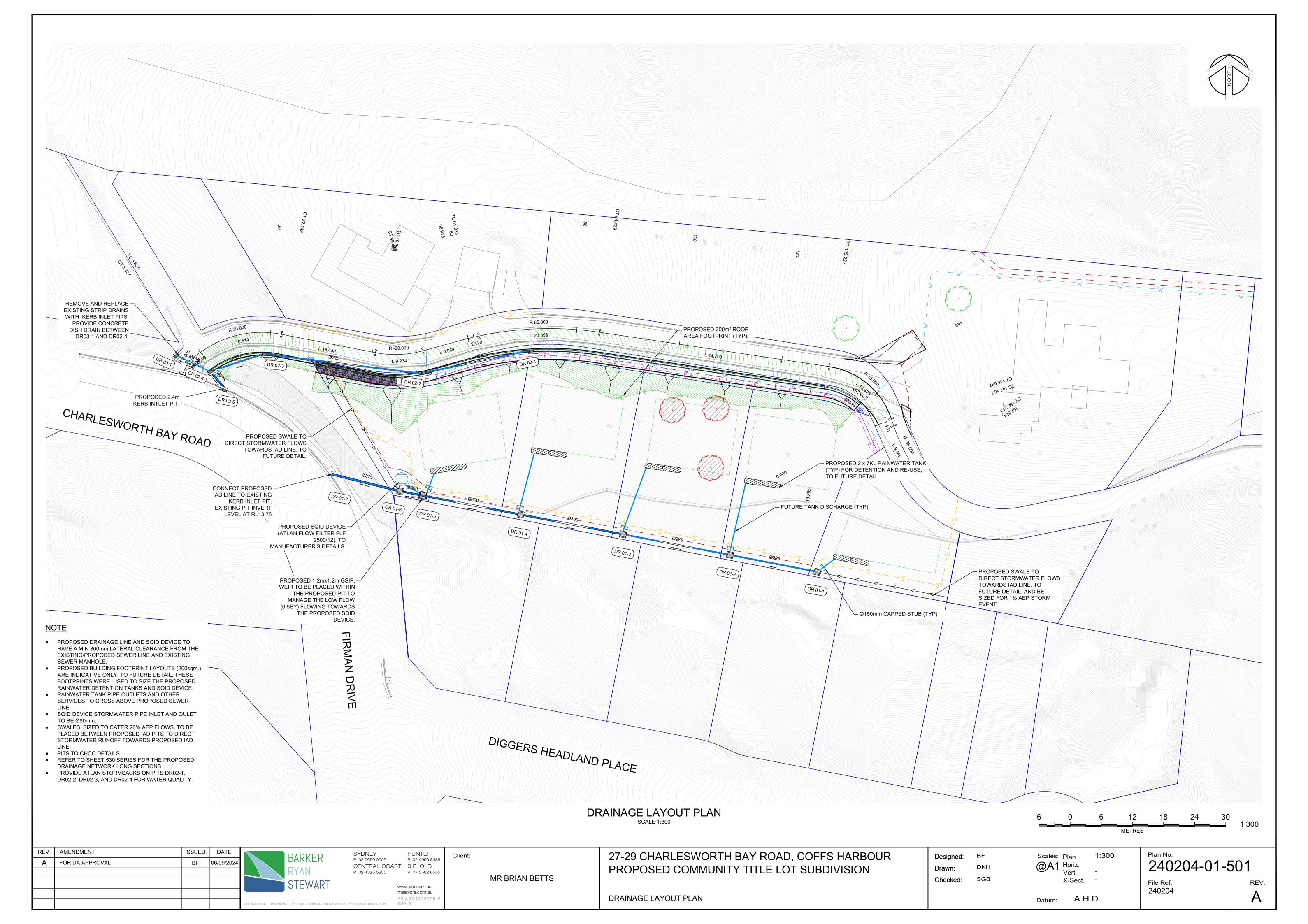
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DATUM RL 28.000							
BULK EARTHWORKS	30.444		30.307	30.416	30.416	30.446	29.548
EXISTING	30.444	20	30.242	30.206	30.199	30.025	29.548
OFFSET	0.000	C	3.620 4.005		4.420	5.920	9.512
			Cł	— Н	12	20	

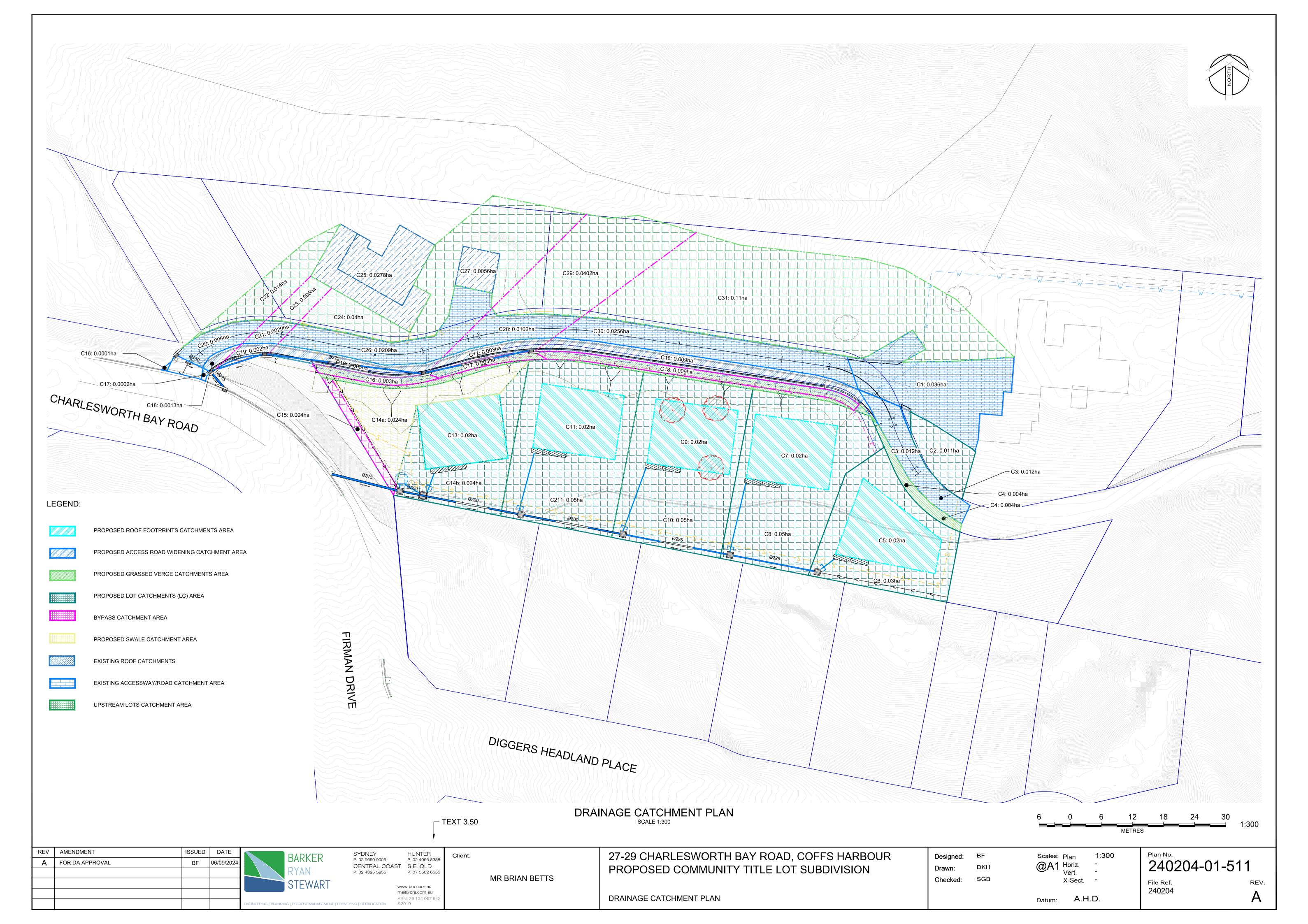
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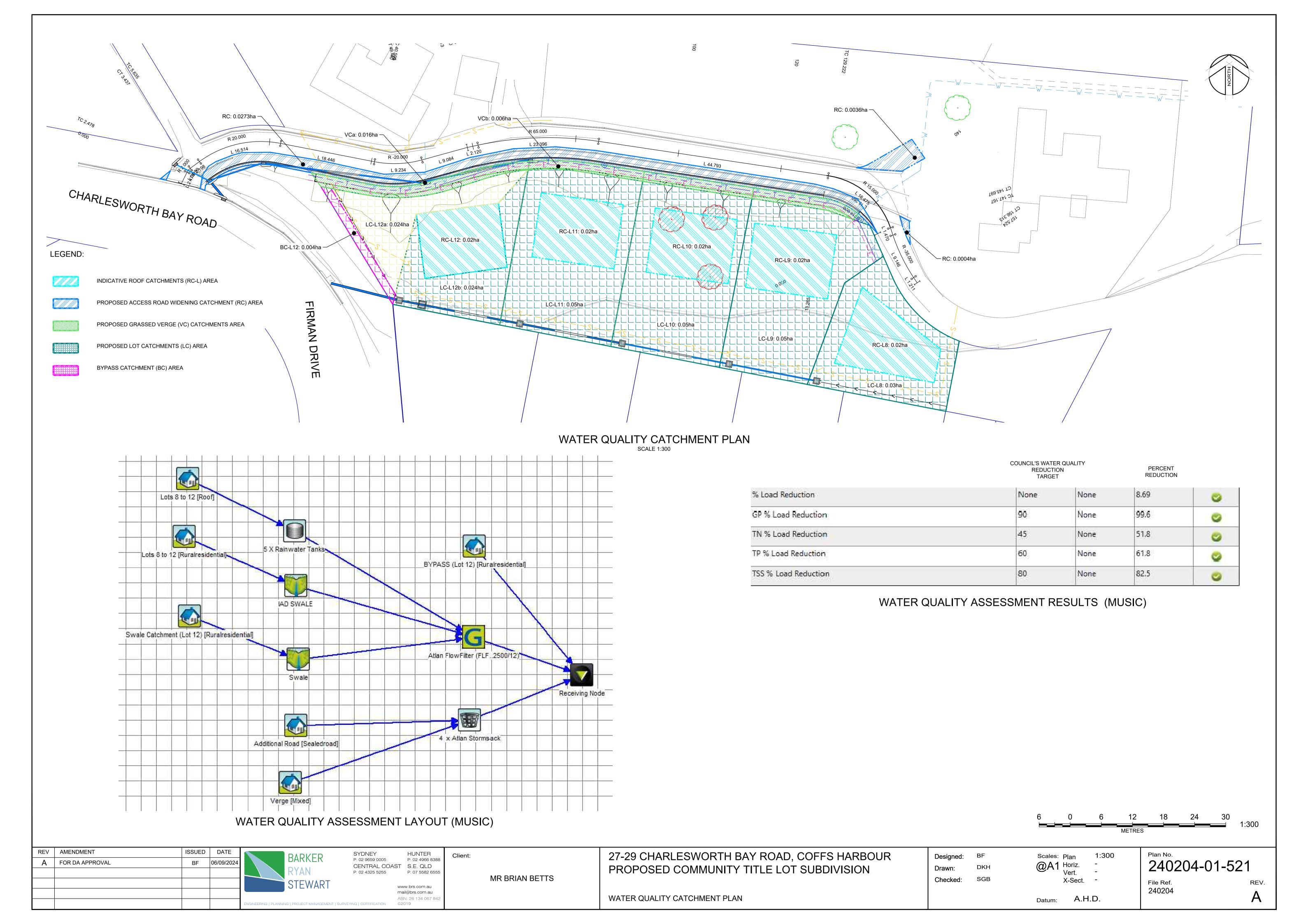
 FINAL GRADING SUBJECT TO DETAILED SITE SURVEY AS PART OF FUTURE DETAILED DESIGN.

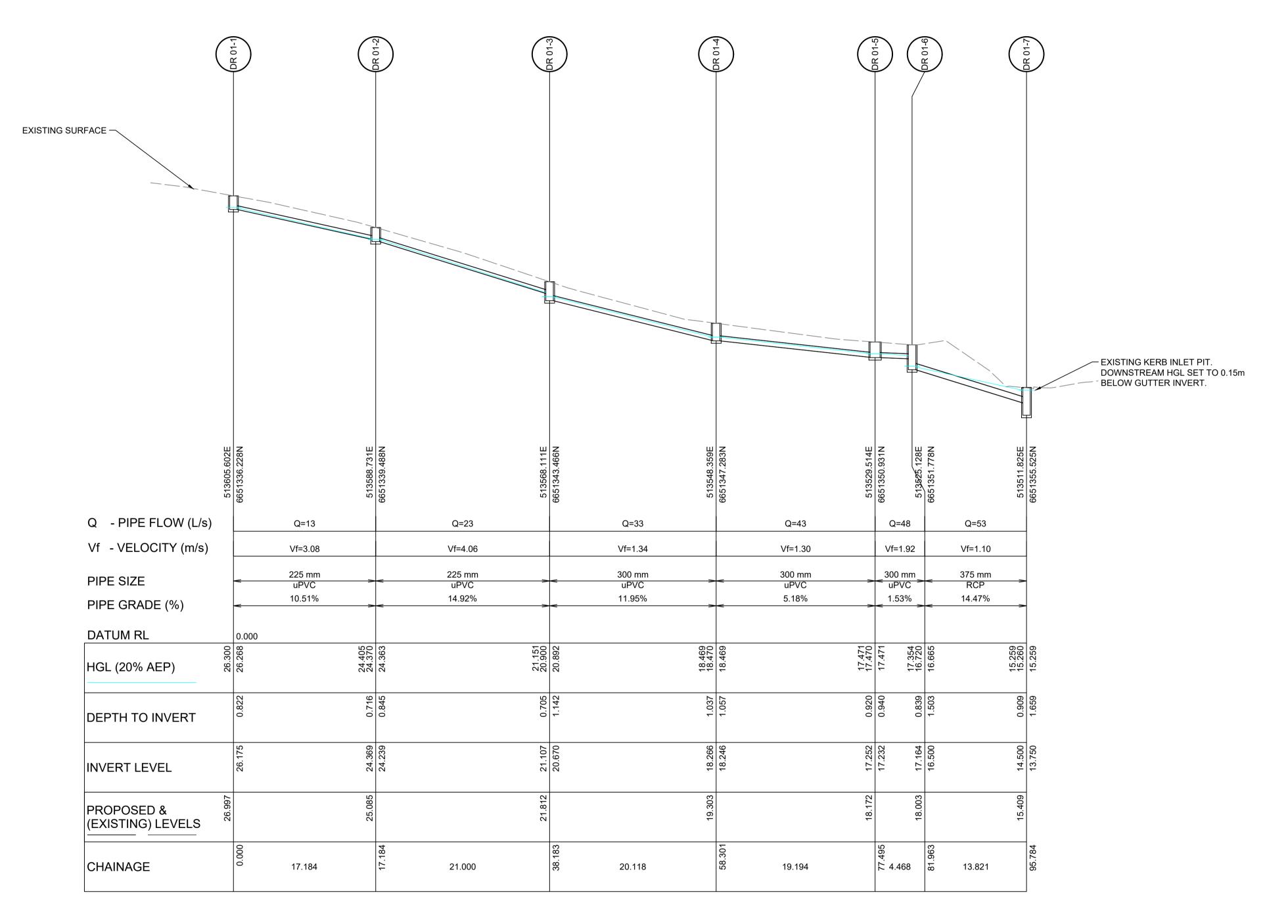
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A FOR DA APPROVAL	BF	06/09/2024	BARKER	CENTRAL COAST S.E.	1966 8388 QLD		PROPOSED COMMUNITY TITLE LOT SUBDIVISION	Drawn:	DKH	@A1 Horiz	240204-01-3	302
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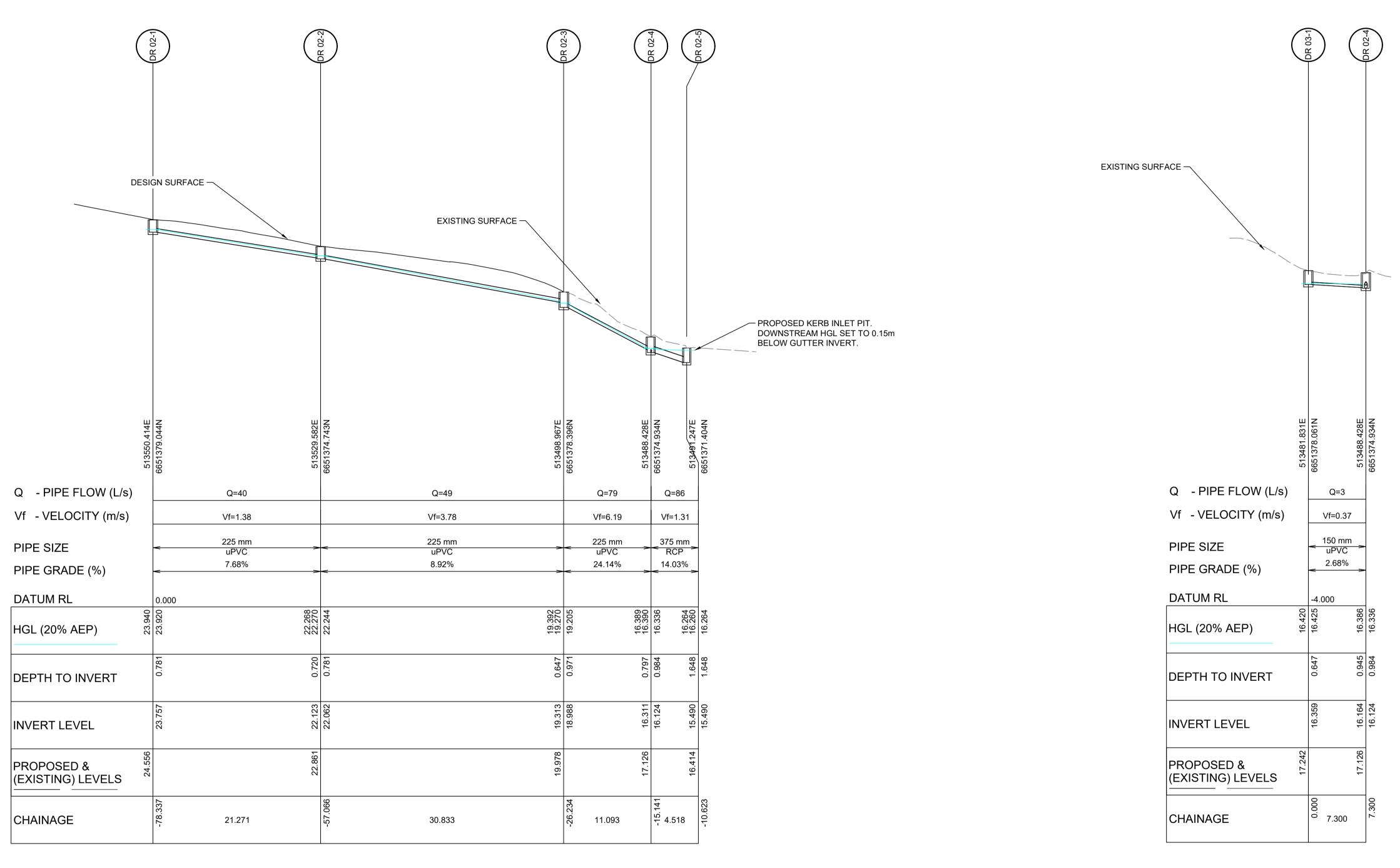






LINE - DR 01

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REV	AMENDMENT	ISSUED	DATE	BARKER	SYDNEY	HUNTER P: 02 4966 8388	Client:	27-29 CHARLESWORTH BAY ROAD, COFFS HARBOUR	Designed:	BF	Scales: Plan -	Plan No.
Α	FOR DA APPROVAL	BF	06/09/2024	DARKER	P: 02 9659 0005 CENTRAL COA			PROPOSED COMMUNITY TITLE LOT SUBDIVISION	Drawn:	DKH	<b>ωΔ1</b> Horiz. 1:300	240204-01-531
				RYAN	P: 02 4325 5255	P: 07 5582 6555	MR BRIAN BETTS	PROPOSED COMMUNITY TITLE LOT SUBDIVISION		COD	veit.	21020101001
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			E	ENGINEERING   PLANNING   PROJECT MANAGEMENT   SUF	RVEYING   CERTIFICATION	ABN: 26 134 067 842 ©2019		DRAINAGE LONGITUDINAL SECTION 1			Datum: A.H.D.	



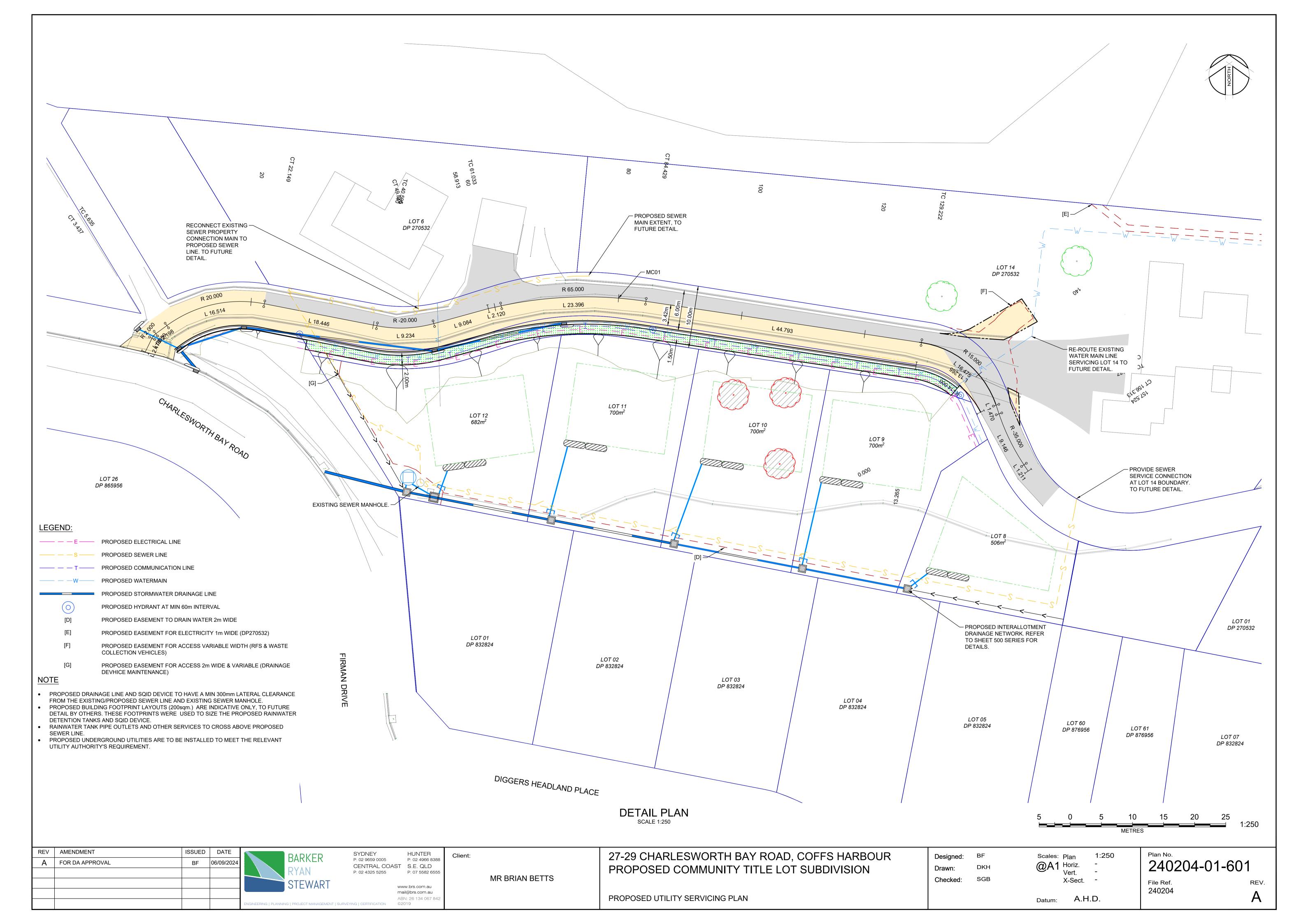
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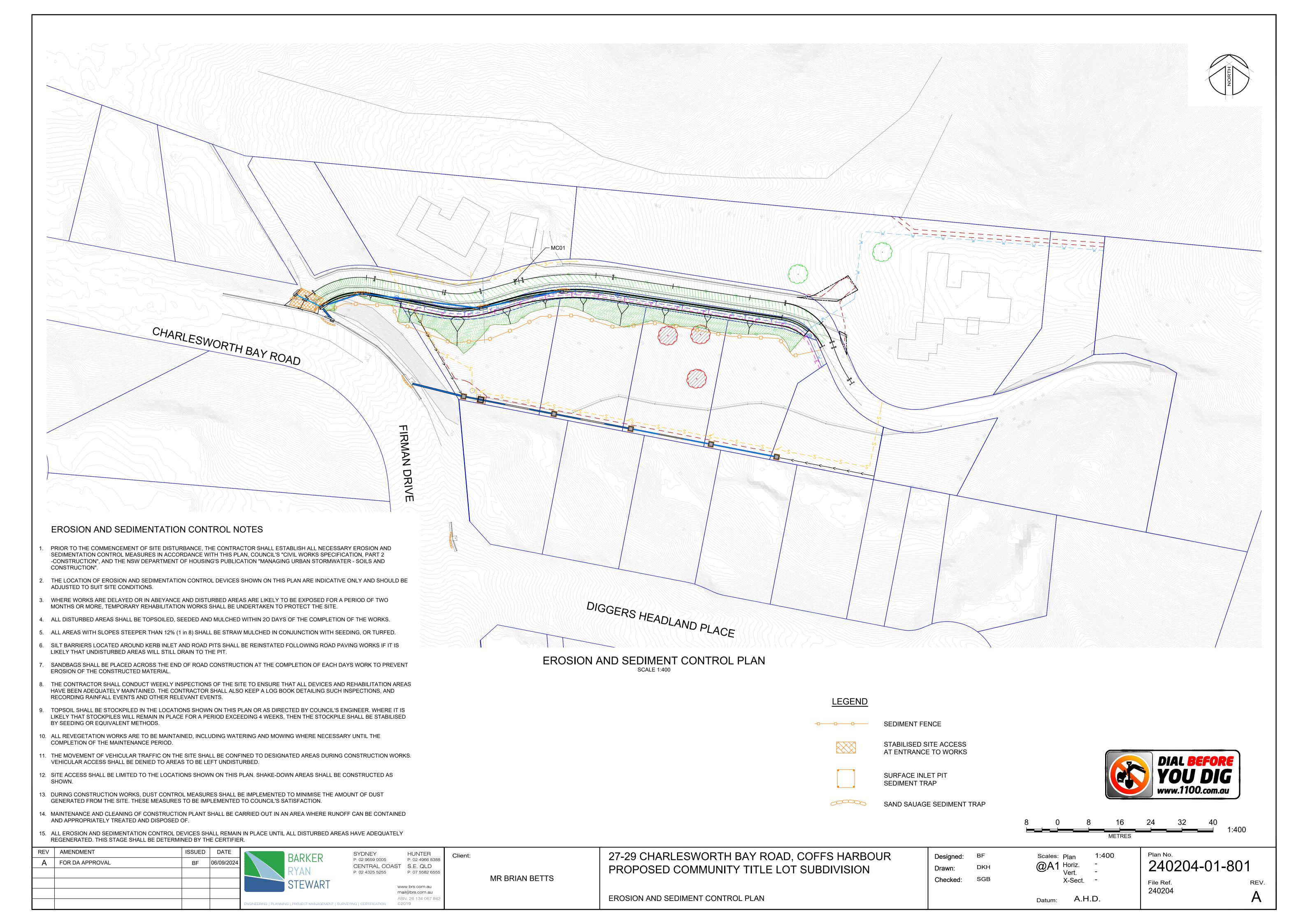
6 0	6	12	18	24	30	4.000	3	0	3	6	9	12	15	4 450
		METRES				1:300				METRES				1:150

REV AMENDMENT ISSUED DATE  A FOR DA APPROVAL BF 06/09/2024	BARKER RYAN STEWART	SYDNEY HUNTER P: 02 9659 0005 P: 02 4966 8388  CENTRAL COAST S.E. QLD P: 02 4325 5255 P: 07 5582 6555	Client:  MR BRIAN BETTS	27-29 CHARLESWORTH BAY ROAD, COFFS HARBOUR PROPOSED COMMUNITY TITLE LOT SUBDIVISION	Designed: Drawn: Checked:	BF DKH SGB	Scales: Plan -  A Horiz. 1:300 Vert. 1:150 X-Sect	Plan No. 240204-01-532 File Ref. REV.
	ENGINEERING   PLANNING   PROJECT MANAGEMENT   SI	www.brs.com.au mail@brs.com.au ABN: 26 134 067 842  SURVEYING   CERTIFICATION  ©2019		DRAINAGE LONGITUDINAL SECTION 2			Datum: A.H.D.	<sup>240204</sup> A

LOCATIO	N AND	LAND	-USE		TIME A	ND RU	JNOFF						INLET DES	SIGN							PIPE SYS	TEM DES	IGN							PIT RES	ULTS					
1 AEP			3 Sub- catchment Area (ha)	Land- Use Type (ILSAX)	5 6 Consta Percent- age Time (%) (minute:	L		8 c Wave o ula Para Slope (%)		Eı es: Tin	ntry Ca		12 Origin of Approach! Flows	Peak	/s Approac Flow Width (m)	15 ching Pit Depth x Velocity (m²/s)		Inlet Size	18 Peak Approac Flow (m³/s)	h Bypass Flow(s) (m³/s)	Peak Flow in Pipe (m³/s)	Reach Length (m)	Pipe Slope (%)	Pipe Diameter (mm)	U/S Pipe Invert Level (m)	D/S Pipe Invert Level (m)	U/S HGL in Pipe (m)	D/S HGL in Pipe (m)	28 Pipe Flow Velocity (m/s)	29 Pressure Change Coeff. Ku	402	29b QUDM Chart Ratios	30 Water Surface Elevation (m)		32 Pit Free- board (m)	93 34  Pit Remarks  Name
20%	DR	01-1	0.0669	Paved Supp.	13 5 0 0							vorst storm 0.014					Grated S	Sui GSIP 90	0> 0.014	0	0.013	17.184	10.51	225	26.175	24.369	26.268	24.405	3.08	5.93	A1-4 [A2-3]).	0, Vo2 / ( 2g[	26.3	26.997	0.69	DR 01-1
1%	DR	01-1	0.0669	Grassed Paved Grassed	87 15 <	as	as above -		>		15 5 15	0.029					< as	above >	0.029	0	0.032	•	:	as above -		>	26.321	24.447	2.5	5.86	A1-4 [A2-3]).	0, Vo2 / ( 2gl	26.36	26.997	0.64	DR 01-1
20%	DR (	01-2	0.05	Paved Supp.	11.4 5 0 0						5	0.01	DR 01-1	0	0	0	Grated S	Sui GSIP 90	0.01	0	0.023	21	14.91	225	24.239	21.107	24.363	21.151	4.06	2.03	A1-5 [A2-4 <sup>-</sup> ,	Qg / Qo = 0.4	24.37	25.085	0.71	DR 01-2
1%	DR	01-2	0.05	Grassed Paved Grassed	88.6 15	as	as above -		>		15 5 15	0.022	DR 01-1	0	0	0	< as	above >	0.022	0	0.05	•	:	as above -		>	24.422	21.175	4.68	1.94	A1-5 [A2-4],	Qg / Qo = 0.4	24.45	25.085	0.64	DR 01-2
20%	DR (	01-3	0.0511	Paved Supp.	11.4 5 0 0						5	0.01	DR 01-2	0	0	0	Grated S	Sui GSIP 90	0.01	0	0.035	20.118	11.94	225	20.745	18.342	20.898	18.468	1.45	5.87	A1-4 [A2-3]).	0, Vo2 / ( 2g[	20.91	21.812	0.9	DR 01-3
1%	DR	01-3	0.0511	Grassed Paved Grassed	88.6 15 <	as	as above -		>		15 5 15	0.022	DR 01-2	0	0	0	< as	above >	0.022	0	0.072	•	(	as above -		>	20.956	18.552	1.71	3.3	A1-4 [A2-3]).	0, Vo2 / ( 2gl	21.01	21.812	0.8	DR 01-3
20%	DR	01-4	0.0506	Paved Supp.	11.4 5 0 0						5	0.01	DR 01-3	0	0	0	Grated S	Sui GSIP 90	0.01	0	0.043	19.194	5.18	300	18.322	17.328	18.468	17.474	1.27	0.83	A1-5 [A2-4],	Qg / Qo = 0.2	18.47	19.303	0.83	DR 01-4
1%	DR	01-4	0.0506	Grassed Paved Grassed	88.6 15 <	as	as above -		>		15 5 15	0.022	DR 01-3	0	0	0	< as	above >	0.022	0	0.093	•	:	as above -		>	18.552	17.571	1.59	0.88	A1-5 [A2-4],	Qg / Qo = 0.2	18.55	19.303	0.75	DR 01-4
20%	DR	01-5	0.0243	Paved Supp.	12.2 5 0 0						5	0.005	DR 01-4	0	0	0	Grated S	Sui GSIP 12	0.005	0	0.048	4.468	1.54	300	17.308	17.239	17.474	17.354	1.91	0.71	A1-5 [A2-4],	Qg / Qo = 0.	17.47	18.172	0.7	DR 01-5
1%	DR	01-5	0.0243	Grassed Paved Grassed	87.8 15 <	as	as above -		>		15 5 15	0.01	DR 01-4	0	0	0	< as	above >	0.01	0	0.103	•	:	as above -		>	17.557	17.414	2.4	0.7	A1-5 [A2-4],	Qg / Qo = 0.	17.57	18.172	0.6	DR 01-5
20%	DR	01-6		Paved Supp.									DR 01-5 N-SWALE	0	0	0	Grated S	Sui GSIP 90	0> 0	0	0.053	13.821	14.47	375	16.5	14.5	16.665	15.259	1.1	5.93	A1-4 [A2-3]).	0, Vo2 / ( 2g[	16.73	18.003	1.28	DR 01-6
1%	DR	01-6		Grassed Paved Grassed									DR 01-5 N-SWALE	0	0	0	< as	above >	0	0	0.113	•	:	as above -		>	16.743	15.259	1.45	5.68	A1-4 [A2-3]).	0, Vo2 / ( 2gl	16.87	18.003	1.14	DR 01-6
20%	DR (	02-1	0.165	Paved Supp.	29 5 0 0							0.036					Kerb Inle	et I G.G.P 1.	.8ı 0.036	0	0.037	21.271	7.68	225	23.757	22.123	23.915	22.263	1.36	5.29	A1-4 [A2-3]).	0, Vo2 / ( 2g[	23.94	24.538	0.6	DR 02-1
1%	DR	02-1	0.165	Grassed Paved Grassed	71 15 <	as	as above -		>		15 5 15	0.073					< as	above >	0.073	0.01	0.066	•	:	as above -		>	23.963	22.438	1.58	3.73	A1-4 [A2-3]).	0, Vo2 / ( 2gl	24.07	24.538	0.47	DR 02-1
20%	DR	02-2	0.0587	Paved Supp.	39 5 0 2							0.014	DR 02-1	0	0	0	Kerb Inle	et I G.G.P 1.	8ı 0.014	0	0.051	30.833	8.92	225	22.062	19.313	22.247	19.513	1.35	1.77	7 [A2-8 & A,	Qg / Qo = 0.3	22.26	22.8427	0.58	DR 02-2
1%	DR	02-2	0.0587	Grassed Paved Grassed	61 15	as	as above -		>		15 5 15	0.027	DR 02-1	0.001	0.18	0.01	< as	above >	0.028	0.001	0.1	•	:	as above -		>	22.294	19.956	2.21	1.45	7 [A2-8 & A,	Qg / Qo = 0.4	22.44	22.8427	0.4	DR 02-2
20%	DR (	02-3	0.1118	Paved Supp.	58 5 0 2						5	0.031	DR 02-2	0	0	0	Kerb Inle	et I G.G.P 1.	.8ı 0.031	0	0.077	11.093	24.13	225	18.988	16.311	19.203	16.397	5.25	3.48	A1-4 [A2-3]).	0, Vo2 / ( 2gl	19.51	19.9597	0.45	DR 02-3
1%	DR	02-3	0.1118	Grassed Paved Grassed	42 15 <	as	as above -		>		15 5 15	0.055	DR 02-2	0.033	1.17	0.07	< as	above >	0.088	0.033	0.12	•	:	as above -		>	19.23	16.591	2.61	2.71	A1-4 [A2-3]).	0, Vo2 / ( 2gl	19.96	19.9597	0	DR 02-3
20%	DR	02-4	0.0179	Paved Supp.	50 5 0 2							0.005	DR 02-3 DR 03-1	0	0	0	Kerb Inle	et I G.G.P 1.	.8ı 0.005	0	0.084	4.518	14.03	375	16.124	15.49	16.334	16.264	1.29	3.43	H-O'L o	= 0.09, S / D	16.4	17.1081	0.71	DR 02-4
1%	DR	02-4	0.0179	Grassed Paved Grassed	50 15	as	as above -		>		15 5 15	0.008	DR 02-3 DR 03-1	0.001	0.2	0.01	< as	above >	0.009	0.001	0.165	•	:	as above -		>	16.42	16.264	1.72	3.02	H-O'L d	= 0.43, S / D	16.59	17.1081	0.52	DR 02-4
20%	DR	03-1	0.0139	Paved Supp.	10 5 0 0							0.003					Kerb Inle	et I G.G.P 1.	.81 0.003	0	0.003	7.3	2.67	150	16.359	16.164	16.427	16.397	0.35	5.93	A1-4 [A2-3]).	0, Vo2 / ( 2gI	16.43	17.2423	0.82	DR 03-1
1%	DR	03-1	0.0139	Grassed Paved Grassed	90 15	as	as above -		>		15 5 15	0.006					< as	above >	0.006	0	0.006	•	:	as above -		>	16.597	16.591	0.32	4.37	A1-4 [A2-3]).	8, Vo2 / ( 2g[	16.62	17.2423	0.62	DR 03-1
20%	N-SV	VALE	0.022	Paved Supp.	10 5 0 0							0.004							0.004	0.004																N-SWALE
1%	N-SV	VALE	0.022	Grassed Paved Grassed	90 15	as	as above -		>		15 5 15	0.009							0.009	0.009																N-SWALE
20%	N20	5169	0.7322	Paved Supp.	23.5 5 0 0							0.152							0.152																	N205169
1%	N20	5169	0.7322	Grassed Paved Grassed	76.5 15 <	as	as above -		>		15 5	0.325							0.325																	N205169

A	AMENDMENT ISSUED DATE FOR DA APPROVAL BF 06/09/202	BARKER RYAN	SYDNEY HUNTER P: 02 9659 0005 P: 02 4966 8388 CENTRAL COAST S.E. QLD P: 02 4325 5255 P: 07 5582 6555	Client:	27-29 CHARLESWORTH BAY ROAD, COFFS HARBOUR PROPOSED COMMUNITY TITLE LOT SUBDIVISION	Designed: Drawn:	BF DKH	Scales: Plan -  OA1 Horiz Vert	Plan No. 240204-01-54	41
		STEWART	www.brs.com.au	MR BRIAN BETTS		Checked:	SGB	X-Sect	File Ref.	REV.
		ENGINEERING   PLANNING   PROJECT MANAGEMENT   S	mail@brs.com.au ABN: 26 134 067 842 SURVEYING   CERTIFICATION ©2019		DRAINAGE RESULTS TABLE			Datum: A.H.D.	240204	Α



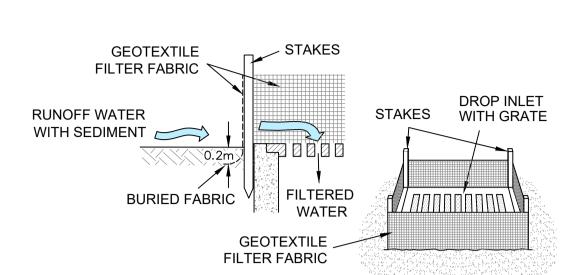


# STABILISE STOCKPILE SURFACE **EARTH BANK**

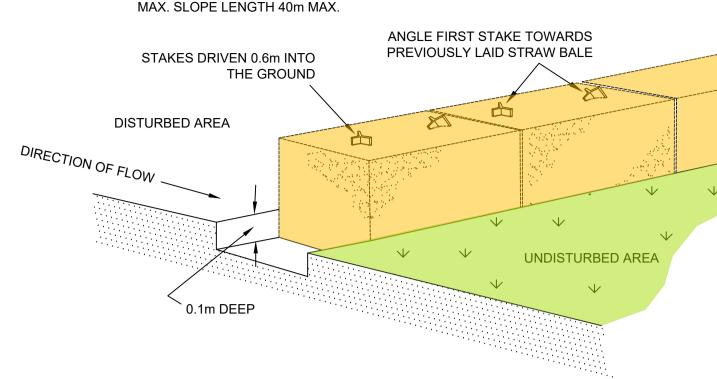
#### **CONSTRUCTION NOTES**

- EXISTING VEGETATION, CONCENTRATED WATER FLOWS, ROADS, HAZARD AREAS AND MIN. 1.5m AWAY FROM EMBANKMENTS.
- CONSTRUCT ON THE CONTOUR AS A LOW, FLAT ELONGATED MOUND.
- 3. WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
- 4. REHABILITATE IN ACCORDANCE WITH THE SWMP/ESCP
- 5. CONSTRUCT EARTH BANK (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND A SEDIMENT FENCE (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE OF STOCKPILE.

#### TOPSOIL STOCKPILE

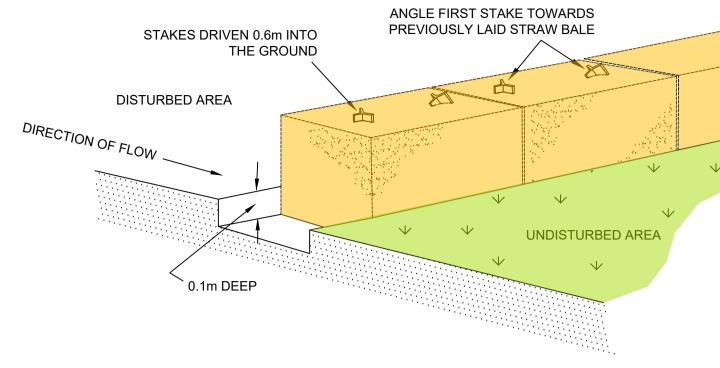


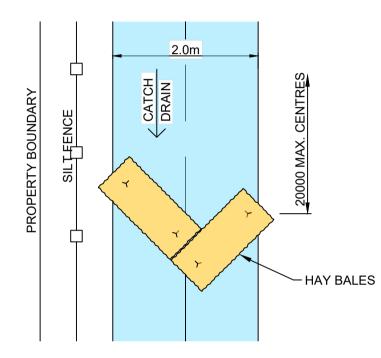
SURFACE INLET PIT SEDIMENT TRAP



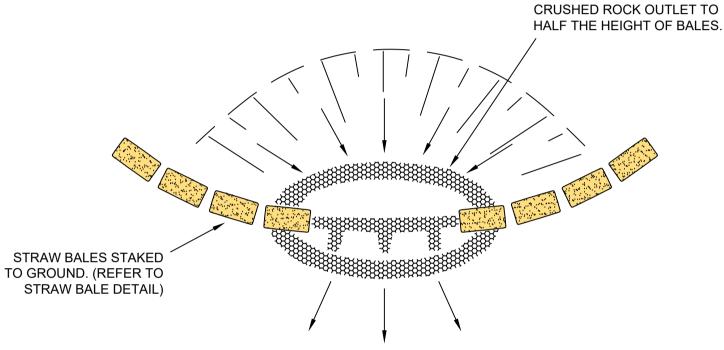
DRAINAGE AREA 0.4 ha MAX. SLOPE GRADIENT 1:2

STRAW BALE SEDIMENT FILTER



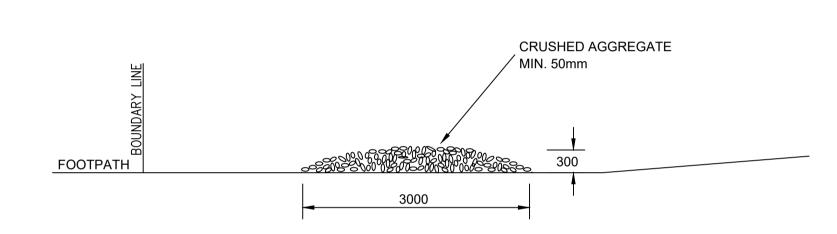


CATCH DRAIN DETAIL



**SECTION DETAIL** 

STRAW BALE & CRUSHED ROCK SEDIMENT FILTER



VEHICLE DUST SHAKE DOWN DETAIL

PUNCHED PRODUCT WITH A MINIMUM CBR

BURST STRENGTH (AS3706.4-90) OF 2500 N

#### MIN. 1.5m RETURN AT MAX. 20m SPACINGS TO LIMIT CATCHMENT AREA DISTURBED AREA 1.5m STAR PICKETS AT 1.5m STAR PICKETS MAX. 3m CENTRES AT MAX. 3m CENTRES UNDISTURBED AREA SELF-SUPPORTING GEOTEXTILE 500mm TO 600mm DIRECTION OF FLOW ON SOIL, 150mm X 100mm TRENCH WITH COMPACTED BACKFILL AND ON ROCK, SET INTO REINFORCED CONCRETE

REV AMENDMENT

#### **CONSTRUCTION NOTES** 1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO BEING PARRALLEL TO THE CONTOURS OF THE SITE BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR

- 2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
- 3. DRIVE 1.5m LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX.) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
- 4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
- 5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
- 6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

ISSUED DATE

#### SEDIMENT FENCE

#### MIN. WIDTH 3 METRES **CONSTRUCTION SITE** PROPERTY BOUNDARY RUNOFF DIRECTED TO SEDIMENT TRAP/FENCE DGB 20 ROADBASE OR 30mm AGGREGATE **EXISTING ROADWAY** CONSTRUCTION NOTES GEOTEXTILE FABRIC DESIGNED TO PREVENT 1. STRIP TOPSOIL AND LEVEL SITE. INTERMIXING OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD 2. COMPACT SUBGRADE. PROPERTIES OF THE SUB-BASE LAYERS. 3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE. GEOFABRIC MAY BE A WOVEN OR NEEDLE

#### STABILISED SITE ACCESS

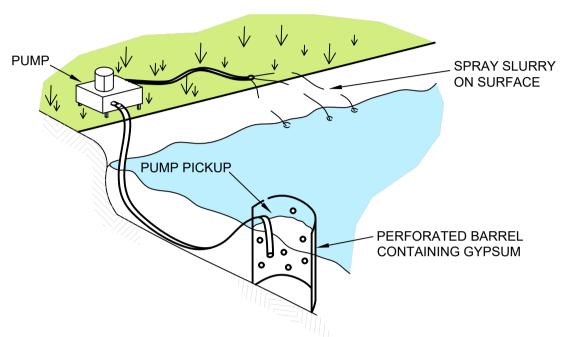


# KERB OUTLET **GRAVEL-FILLED WIRE MESH** OR GEOTEXTILE "SAUSAGE"

#### **CONSTRUCTION NOTES**

- 1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH AND FILL IT WITH 25mm TO
- 2. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH X 400mm WIDE.
- 3. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING FILTER.
- 4. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

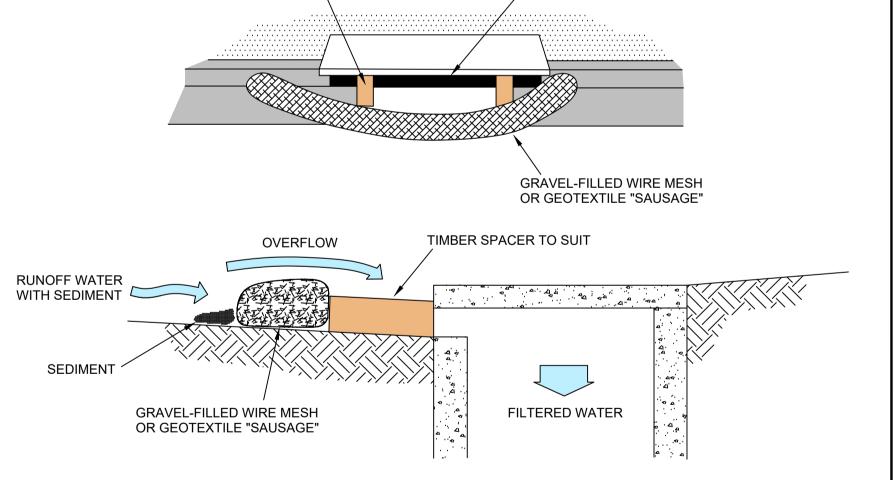
#### MESH & GRAVEL FILTER "SAUSAGE" BARRIER



1. FLOCCULATION TO BE USED IF WATER IS NOT CLEAR (IE: SEDIMENT GREATER THAN 50 mg/L) PRIOR TO DISCHARGING FROM TEMPORARY PUMP OUT

2. FOR RATES & AGENTS SEE APPENDIX E OF HOUSING NSW "MANAGING URBAN SW SOILS & CONSTRUCTION".

#### FLOCCULATION DETAIL



KERB-SIDE INLET

#### CONSTRUCTION NOTES

1. INSTALL FILTERS TO KERB INLET ONLY AT SAG POINTS.

TIMBER SPACER TO SUIT

- 2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
- 3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH X 400mm WIDE.
- 4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET MAINTAIN THE OPENING WITH SPACER BLOCKS.
- 5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING FILTER.
- 6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS

#### MESH & GRAVEL INLET "SAUSAGE" FILTER

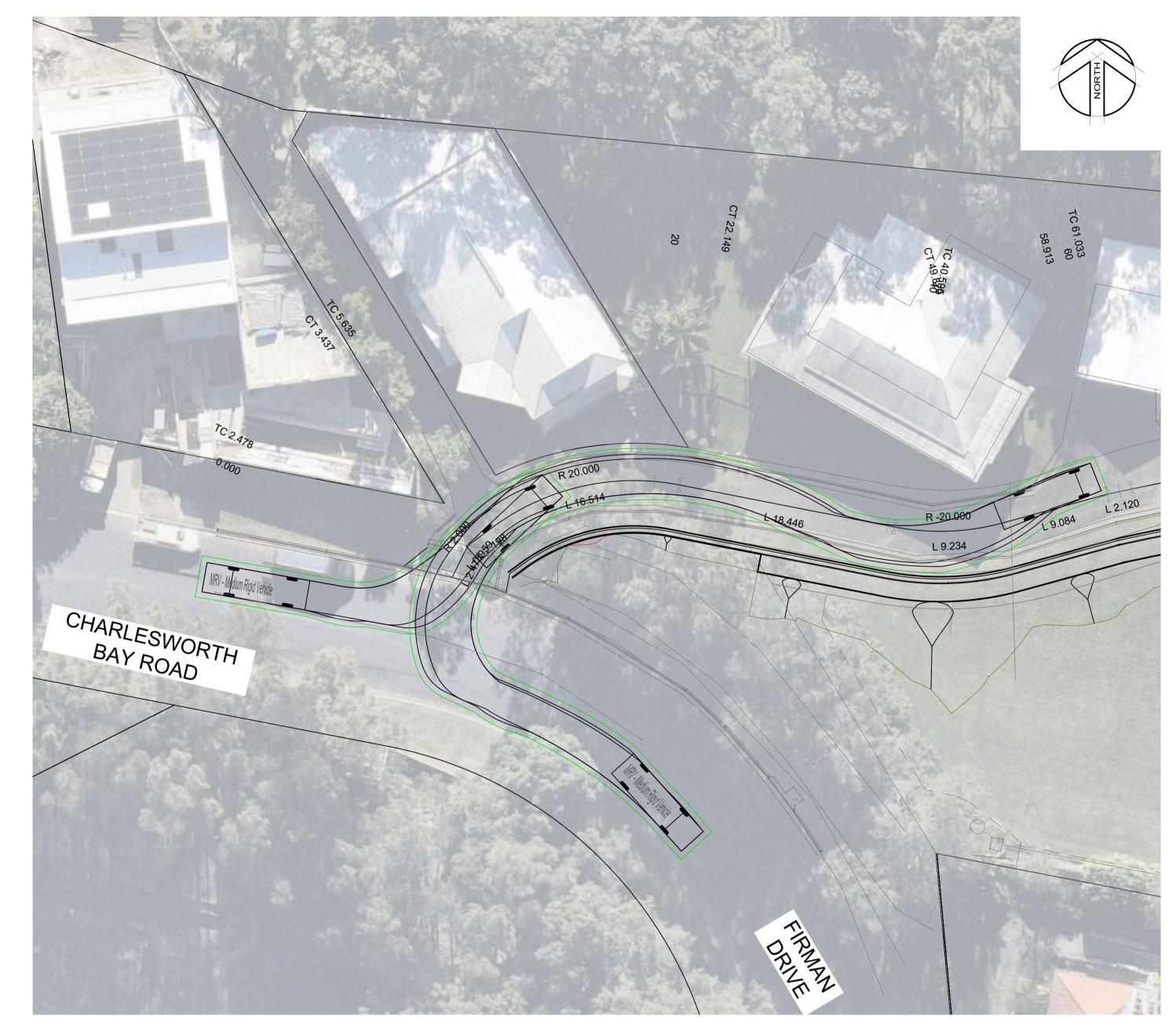
A	AMENDMENT ISSUED DATE  FOR DA APPROVAL BF 06/09/2024	BARKER SYDNEY P: 02 9659 00 CENTRAL P: 02 4325 52		27-29 CHARLESWORTH BAY ROAD, COFFS HARBOUR PROPOSED COMMUNITY TITLE LOT SUBDIVISION	Designed: BF  Drawn: DKH	Scales: Plan -  All Horiz  Vert	240204-01-811
		STEWART	MR BRIAN BETTS www.brs.com.au		Checked: SGB	X-Sect	File Ref. REV.
		ENGINEERING   PLANNING   PROJECT MANAGEMENT   SURVEYING   CERTIFICAT	mail@brs.com.au ABN: 26 134 067 842 ION ©2019	EROSION AND SEDIMENT CONTROL DETAILS		Datum: A.H.D.	240204 A

4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING

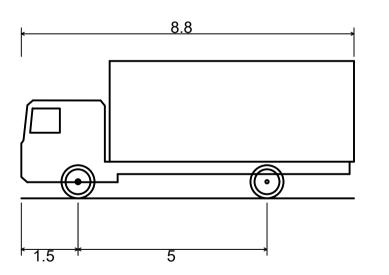
TO BUILDING ALIGNMENT. MINIMUM WIDTH 3 METRES.

ROADBASE OR 30mm AGGREGATE. MINIMUM LENGTH 15 METRES OR

5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP.



TURNPATH PLAN - DIAGRAM 1
SCALE 1:250



MRV - Medium Rigid Vehicle Overall Length Overall Width Overall Body Height Min Body Ground Clearance Track Width Lock to lock time Kerb to Kerb Turning Radius

8.800m 2.500m 3.633m 0.428m 2.500m 4.00s 10.000m

PROPOSED TURNING HEAD EXTENSION FOR RFS AND WASTE VEHICLE TO FUTURE DETAIL. PROPOSED PAVEMENT EXTENSION.

TURNPATH PLAN - DIAGRAM 2
SCALE 1:250

					5 0 5 ME	10 15 20 25 
REV AMENDMENT	ISSUED DATE	SYDNEY HUNTER P: 02 9659 0005 P: 02 4966 8388 Client:	27-29 CHARLESWORTH BAY ROAD, COFFS HARBOUR	Designed: BF	Scales: Plan 1:250	Plan No.
A FOR DA APPROVAL	BF 06/09/2024 BARKER	P: 02 9659 0005 P: 02 4966 8388 CENTRAL COAST S.E. OLD	DODOGED COMMUNITY TITLE LOT CUIDDIVICION	Designed.	ω Δ1 Horiz.	240204_01_901

@A1 Horiz. -Vert. -240204-01-901 CENTRAL COAST S.E. QLD P: 02 4325 5255 P: 07 5582 6555 PROPOSED COMMUNITY TITLE LOT SUBDIVISION Drawn: MR BRIAN BETTS Checked: SGB X-Sect. -File Ref. REV. www.brs.com.au 240204 mail@brs.com.au TURNPATH PLAN A.H.D. ABN: 26 134 067 84 Datum: ©2019