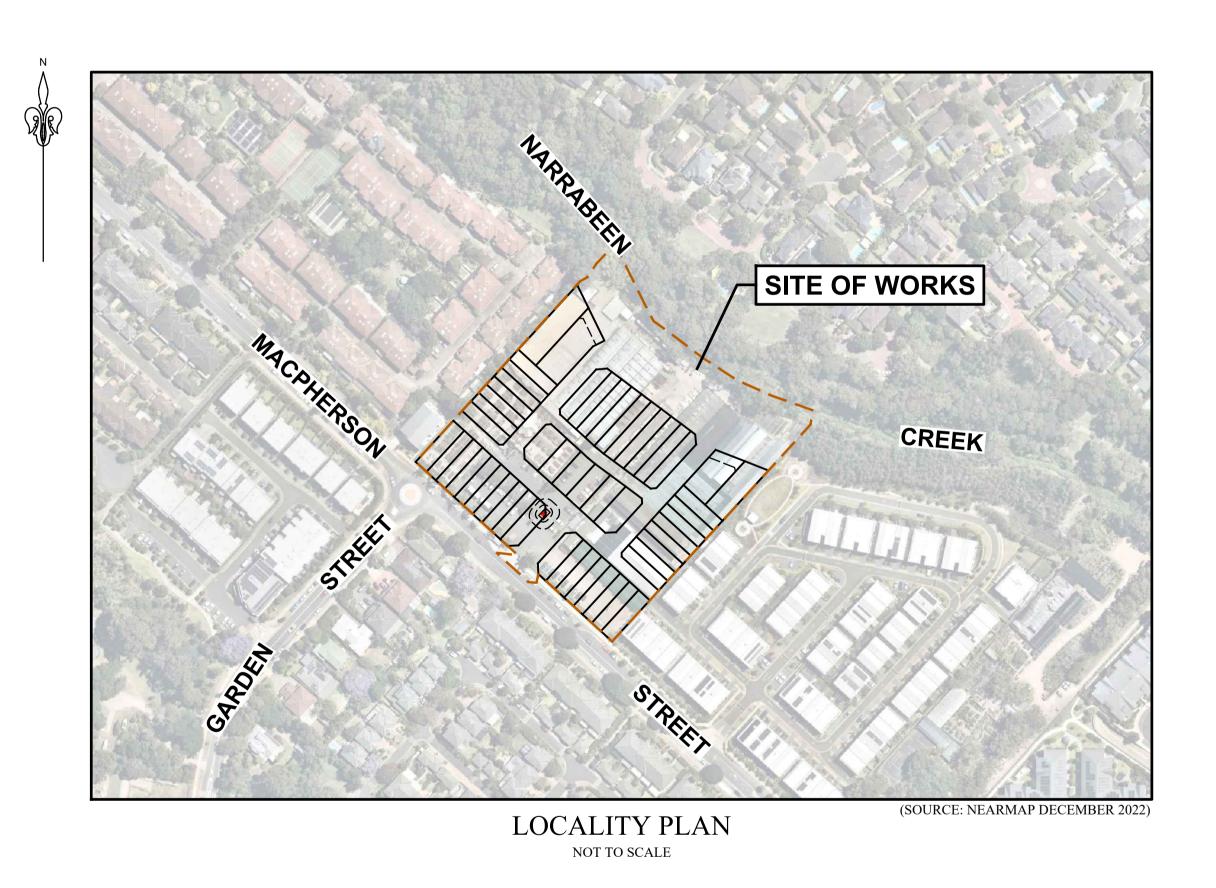
PROPOSED SUBDIVISION OF LOT 1 D.P.592091 20-22 MACPHERSON STREET, WARRIEWOOD

CIVIL WORKS DEVELOPMENT APPLICATION



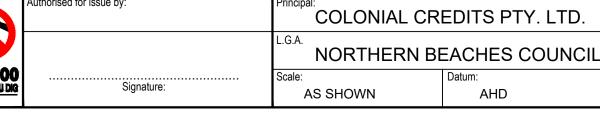
DRAWING No.	DRAWING TITLE	REV.
359-21C-DA-0001	COVER SHEET, LOCALITY PLAN AND INDEX SHEET	Н
359-21C-DA-0002	GENERAL NOTES	Н
359-21C-DA-0003	LEGEND	Н
359-21C-DA-0004	KEY PLAN	Н
359-21C-DA-0021	DEMOLITION PLAN	Н
359-21C-DA-0051	BULK EARTHWORKS PLAN	Н
359-21C-DA-0061	BULK EARTHWORKS SITE SECTIONS SHEET 1 OF 3	Н
359-21C-DA-0062	BULK EARTHWORKS SITE SECTIONS SHEET 2 OF 3	Н
359-21C-DA-0063	BULK EARTHWORKS SITE SECTIONS SHEET 3 OF 3	Н
359-21C-DA-0101	ROAD AND DRAINAGE PLAN SHEET 1 OF 2	Н
359-21C-DA-0102	ROAD AND DRAINAGE PLAN SHEET 2 OF 2	Н
359-21C-DA-0151	TYPICAL ROAD CROSS SECTIONS	Н
359-21C-DA-0152	NARRABEEN CREEK CROSS SECTION	Н
359-21C-DA-0201	ROAD No.01, No.3, No.04 & No.05 LONGITUDINAL SECTION	Н
359-21C-DA-0202	ROAD No.02 LONGITUDINAL SECTION	Н
359-21C-DA-0701	POST-DEVELOPMENT CATCHMENT PLAN	Н
359-21C-DA-0702	INTERIM CATCHMENT PLAN	Н
359-21C-DA-0751	TEMPORARY OSD/WSUD BASIN No.1 PLAN AND SECTIONS	Н
359-21C-DA-0752	OSD TANK PLAN AND SECTION	Н
359-21C-DA-0753	STORMWATER DRAINAGE DETAILS	Н
359-21C-DA-0901	SEDIMENT AND EROSION CONTROL PLAN	Н
359-21C-DA-0902	SEDIMENT AND EROSION CONTROL DETAILS	Н
359-21C-DA-0911	BIN PAD LOCATION PLAN	Н











PROPOSED SUBDIVISION OF LOT 1 D.P.592091 20-22 MACPHERSON STREET, WARRIEWOOD



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C&R Ref.
359-21

Drawing Ref.
359-21C-DA-0001

17. PROVIDE TOPSOIL WITH TURF OR GRASS SEEDING ON ALL BATTERS & DISTURBED AREAS.

18. TURFED AREAS ADJACENT TO CONSTRUCTION AREA ARE TO BE MAINTAINED TO PROVIDE A VEGETATED BUFFER STRIP. 19. THE CONTRACTOR SHALL STRIP AND STOCKPILE TOPSOIL PRIOR TO EXCAVATION OR FILLING.

TOPSOIL SHALL BE RESPREAD ON THE COMPLETION OF EARTHWORKS. 20. THE CONTRACTOR SHALL STABILISE ALL DISTURBED AREAS AND STOCKPILES WITHIN 14 DAYS.

21. THE CONTRACTOR SHALL INSTALL A STRIP OF TURF BEHIND THE KERB IN ACCORDANCE WITH THE COUNCIL SPECIFICATION.

22. THE CONTRACTOR SHALL PROVIDE TURFING AROUND ALL SURFACE INLET PITS.

23. THE CONTRACTOR IS TO IMPLEMENT SEDIMENT AND EROSION CONTROL MEASURES

1. PRIOR TO SPREADING, STOCKPILED SITE SUBGRADE MATERIAL AND/OR IMPORTED TOPSOIL SHALL BE INSPECTED AND APPROVED BY THE SUPERINTENDENT.

700mm

750mm

2. UNLESS NOTED OTHERWISE, ALLOW FOR CLEARING AND REMOVING STONES EXCEEDING 25 mm AND ANY RUBBISH BROUGHT TO THE SURFACE DURING THE CULTIVATION OF THE SUBGRADE.

AFTER PREPARATION OF THE SUBGRADE SURFACE, PLACE TOPSOIL AS APPROPRIATE FOR THE SPECIFIED LANDSCAPE TREATMENTS AND AS INDICATED BY THE DRAWINGS.

4. THE FINISHED SURFACE OF THE TOPSOIL SHALL BE SMOOTH, FREE OF LUMPS OF SOIL AND LEFT

5. WHERE TOPSOILING IS CARRIED OUT ADJACENT TO KERBS, FOOTPATHS, MOWING STRIPS OR OTHER HARD PAVED SURFACES, THE TOPSOIL SHALL BE FINISHED FLUSH WITH THOSE

- 1. ALL TURF AND OTHER MATERIALS SPECIFIED SHALL BE SUBJECT TO INSPECTION AND APPROVAL
- 2. SUBSTITUTION OF SPECIES SHALL ONLY OCCUR WITH THE PRIOR APPROVAL OF THE
- 3. PROTECT THE NEWLY PLANTED AREAS AGAINST TRESPASS AND TRAFFIC UNTIL THE GRASS IS WELL ESTABLISHED. FENCING, WHERE USED, SHALL BE 1,2m HIGH STAR PICKET TYPE, WITH
- WITHIN ONE MONTH FROM THE DATE OF ORIGINAL PLANTING.

1. THE BOUNDARY LINEWORK IN THIS DRAWING SET IS FOR INFORMATION ONLY AND SHOULD NOT BE RELIED UPON. THE CONTRACTOR IS TO ENSURE THAT ALL WORKS ASSOCIATED WITH THE PROPERTY BOUNDARIES ARE TO BE SETOUT OR VERIFIED BY A REGISTERED SURVEYOR.

25.05.23 ISSUED FOR DEVELOPMENT APPLICATION 0.04.23 ISSUED FOR DEVELOPMENT APPLICATION 14.04.23 ISSUED FOR DEVELOPMENT APPLICATION 04.04.23 ISSUED FOR DEVELOPMENT APPLICATION 21.03.23 ISSUED FOR DEVELOPMENT APPLICATION Z.Y. T.I Z.Y. W.C 16.03.23 ISSUED FOR DEVELOPMENT APPLICATION

AMENDMENT DESCRIPTION

REV.| DATE |

SIGNS THROUGHOUT THE DURATION OF CONSTRUCTION.

AT APPROPRIATE PLACES TO WARN THE PUBLIC.

COUNCIL'S ENGINEER FOR ALL INSPECTIONS.

29. ALL NEW WORKS SHALL MAKE SMOOTH CONNECTION WITH THE EXISTING INTERFACE.

30. THE SITE IS TO BE SURROUNDED BY A SECURITY FENCE & THE GATE MUST BE LOCKED OUTSIDE

THE OPERATING HOURS. NOTICES COMPLYING WITH A.S.1319 AND DISPLAYING THE WORDS

31. THE CONTRACTOR SHALL PROVIDE A MINIMUM 24 HOURS NOTICE TO SUPERINTENDENT OR

32. THE CONTRACTOR SHALL UNDERTAKE TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH

COUNCIL'S TRAFFIC MANAGEMENT POLICY AND SHALL DISPLAY ALL APPROPRIATE WARNING

"DANGER - DEMOLITION IN PROGRESS", OR SIMILAR MESSAGE SHALL BE FIXED TO THE FENCING

190 45001 Salay Management Salay Management DES. DRN







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UNDER ROADS) OF THE MAXIMUM DRY DENSITY AT -2% TO +2% OF OPTIMAL MOISTURE CONTENT

19. ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER

21. PROVIDE A MINIMUM OF 3.0m LENGTH OF 100 DIA. SUBSOIL DRAINAGE PIPE WRAPPED IN FABRIC

INSITU, THE GRADE OF CONCRETE TO BE USED SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE

STRENGTH OF 32MPA. STEEL REINFORCING BARS SHALL COMPLY WITH THE REQUIREMENTS OF

22. UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT, ALL DRAINAGE PITS TO BE CAST

AS1302 (LATEST EDITION). WELDED WIRE REINFORCING SHALL COMPLY WITH AS1304.

AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED

AND GRADED IN ACCORDANCE WITH AS 3500.3 (LATEST EDITION).

20. STEP IRONS ARE TO BE PROVIDED IN DRAINAGE PITS MORE THAN 1.2m DEEP.

WITH AN EPOXY GROUT TO ENSURE A SMOOTH FINISH.

SOCK AT UPSTREAM END OF EACH COUNCIL PIT.

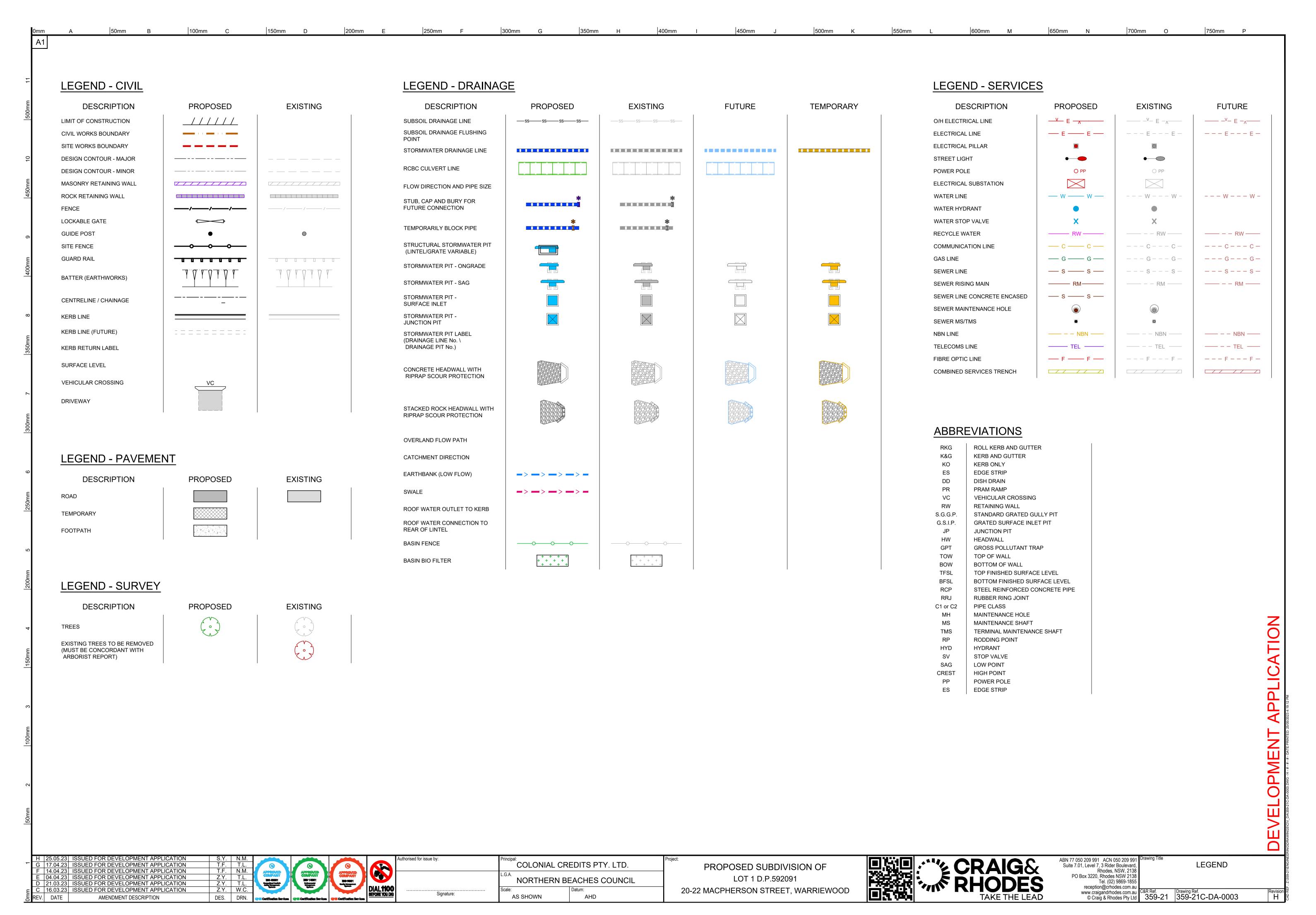
PROPOSED SUBDIVISION OF LOT 1 D.P.592091 20-22 MACPHERSON STREET, WARRIEWOOD

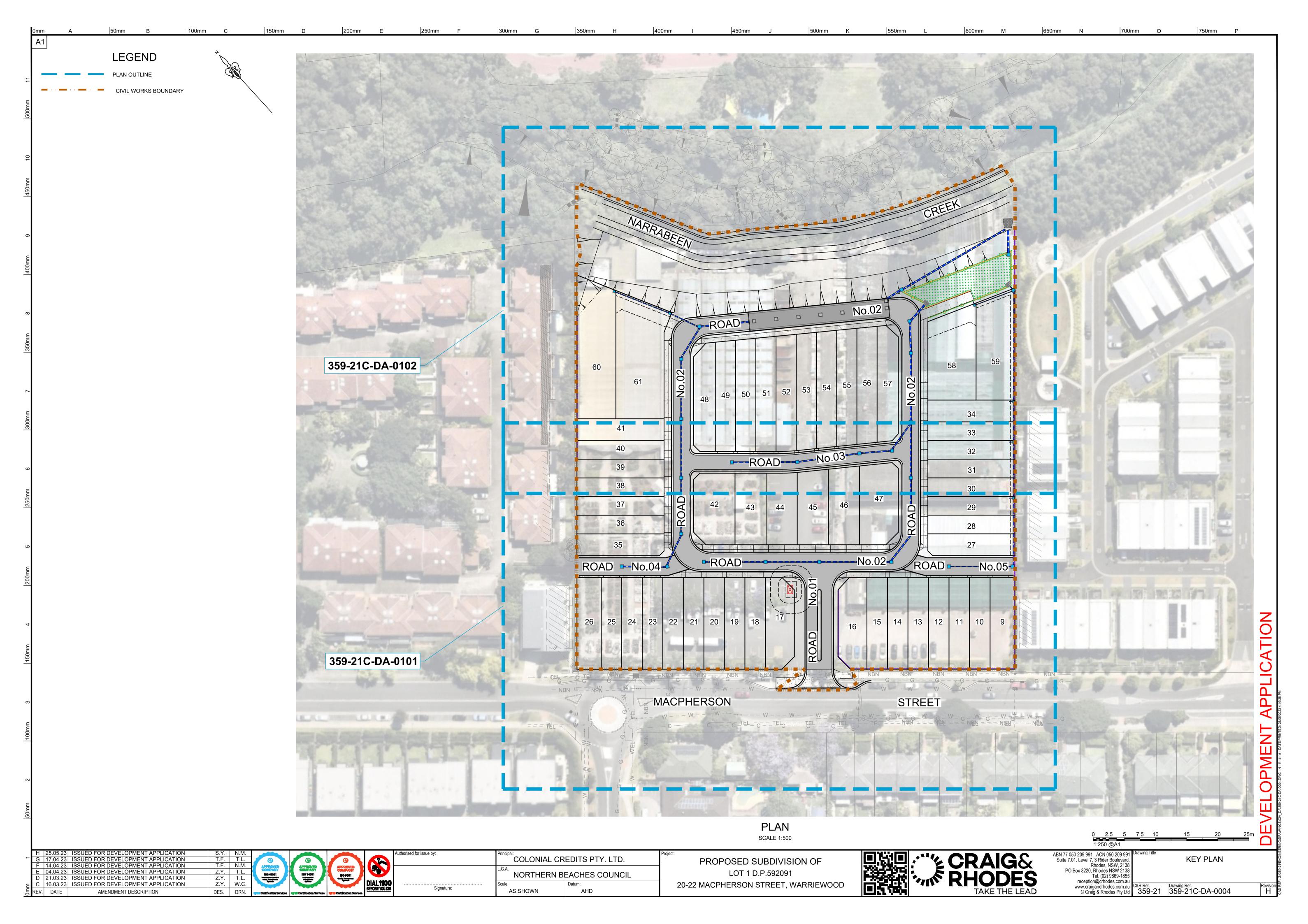


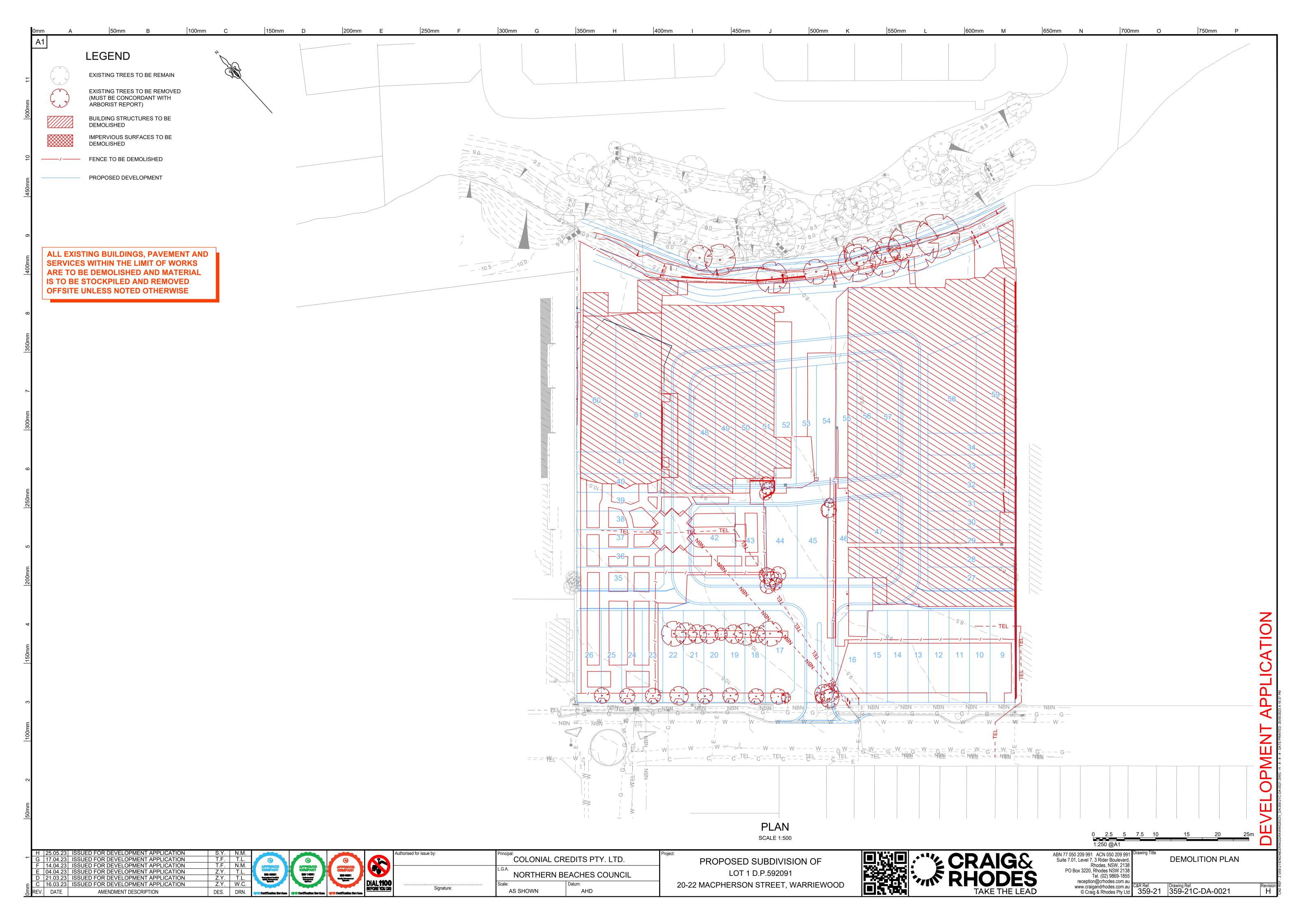
ABN 77 050 209 991 ACN 050 209 991 Suite 7.01, Level 7, 3 Rider Boulevard Rhodes, NSW, 213 PO Box 3220, Rhodes NSW 213 Tel. (02) 9869-185 reception@crhodes.com.a www.craigandrhodes.com.au © Craig & Rhodes Pty Ltd

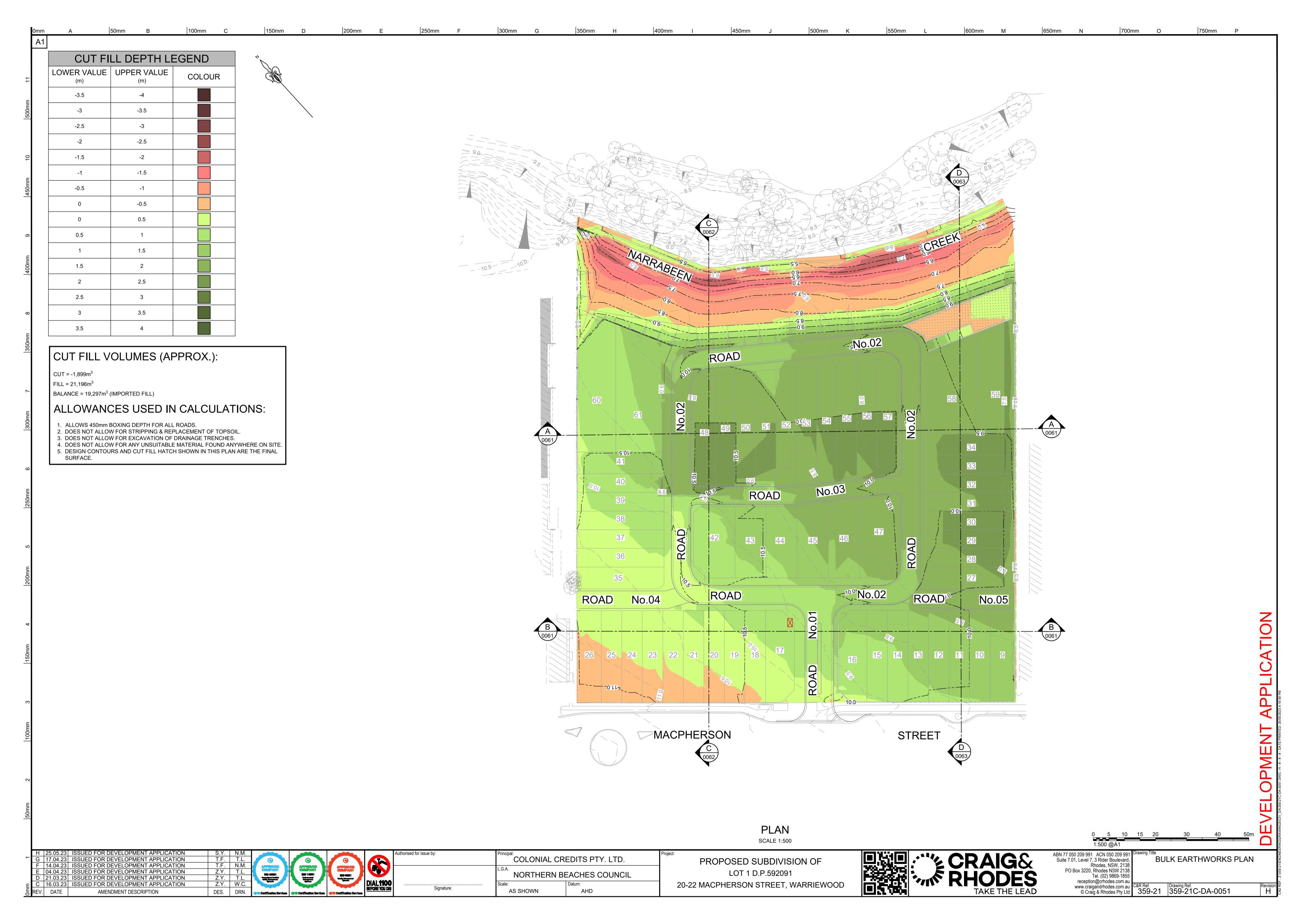
GENERAL NOTES

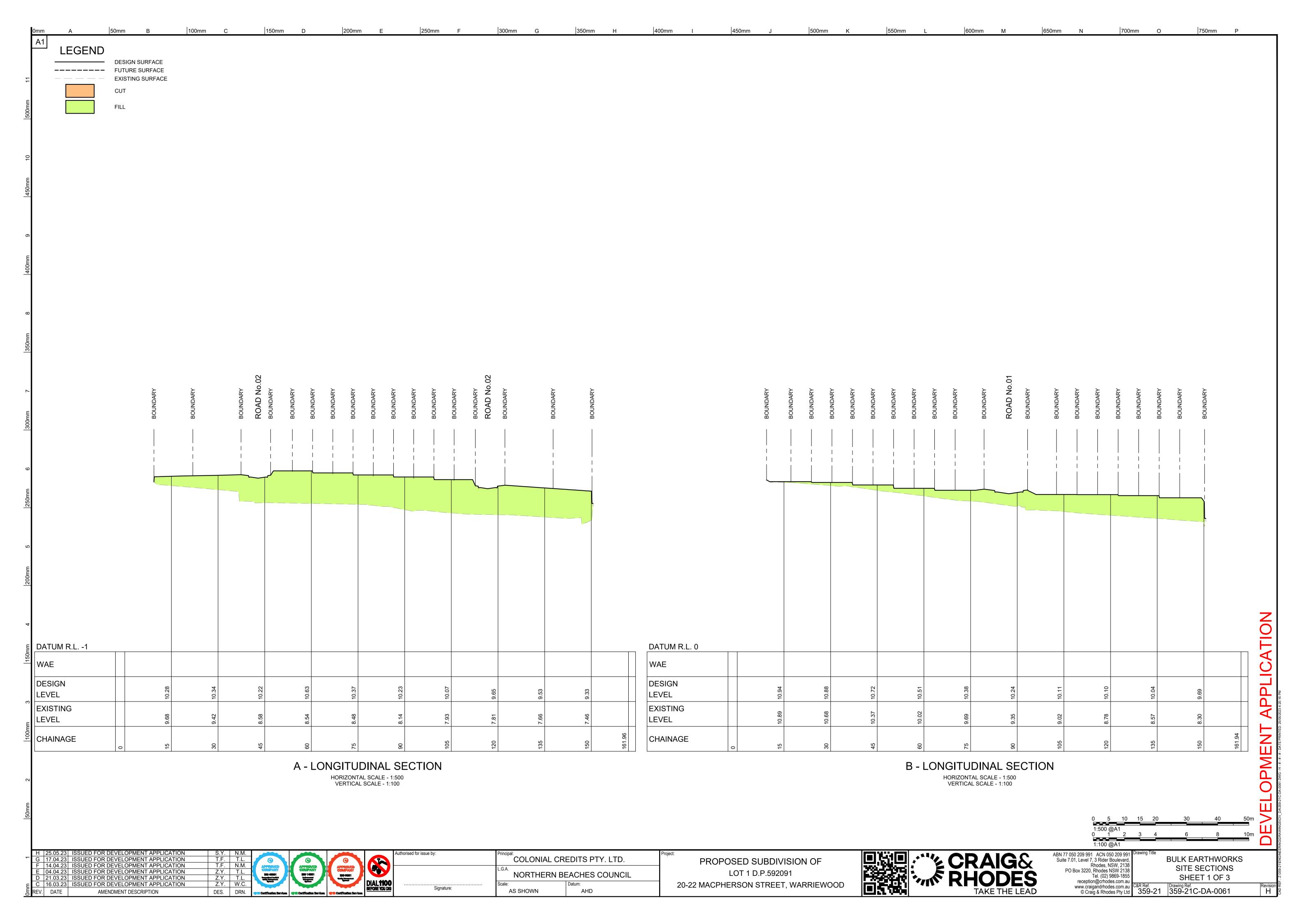
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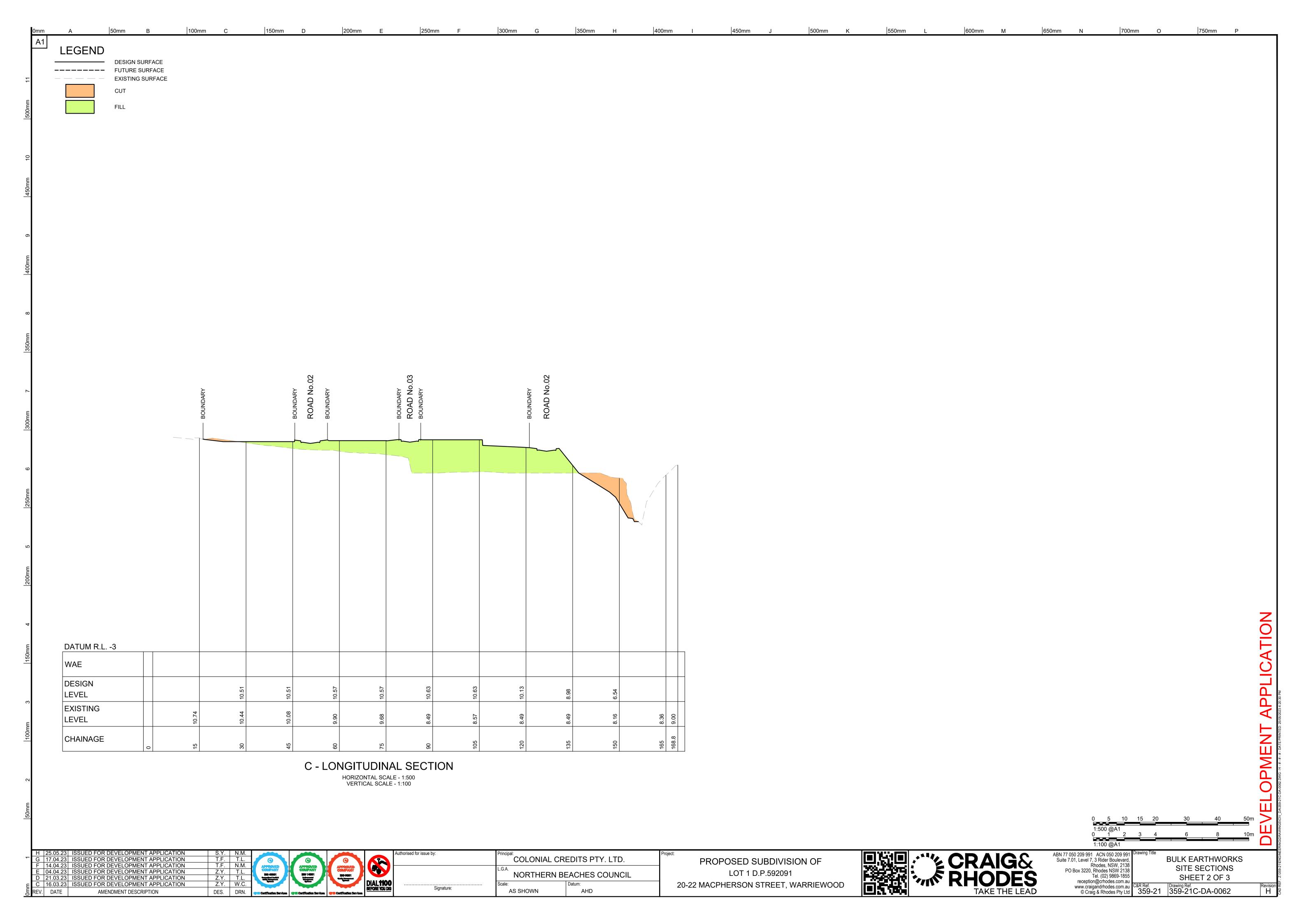


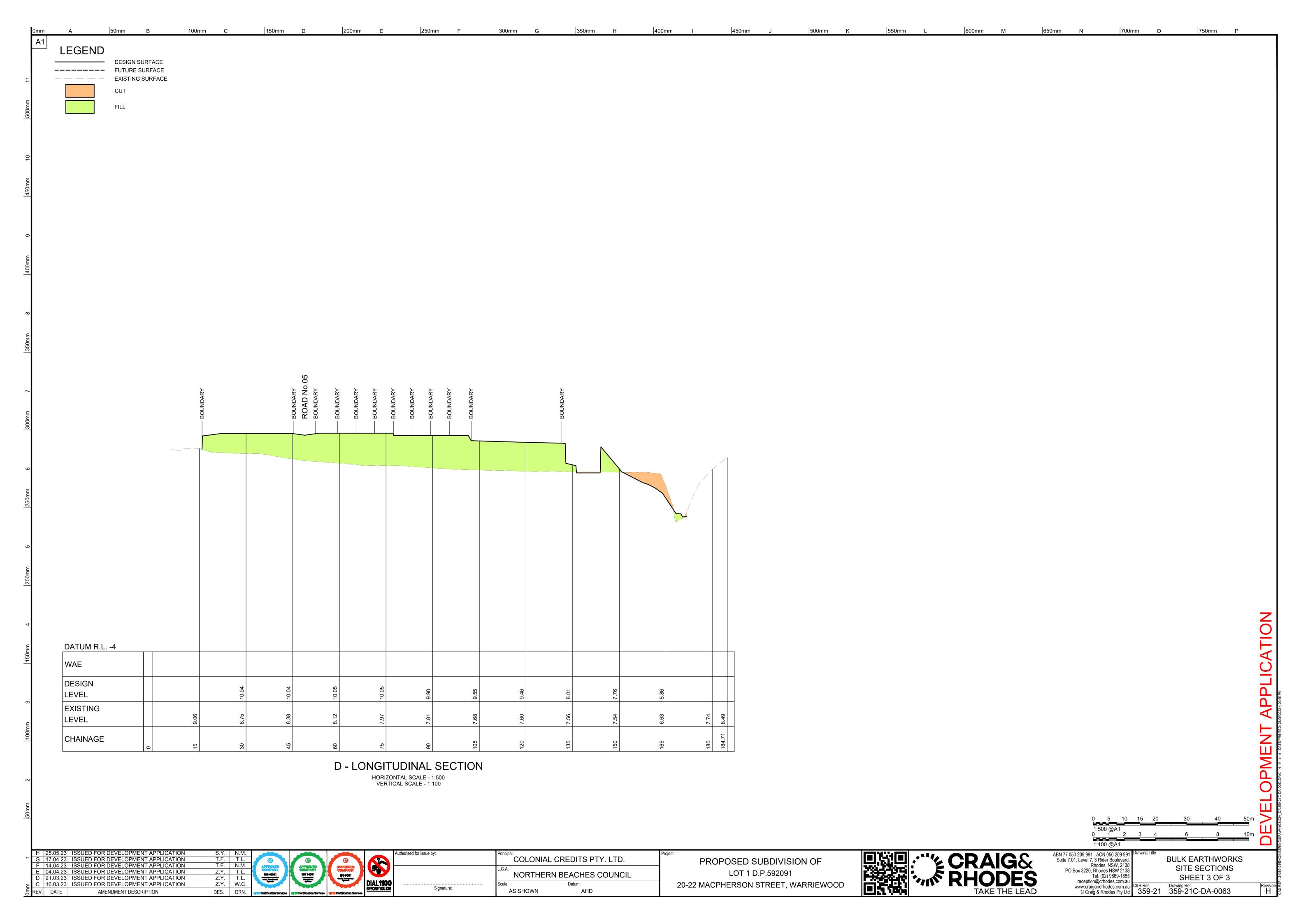


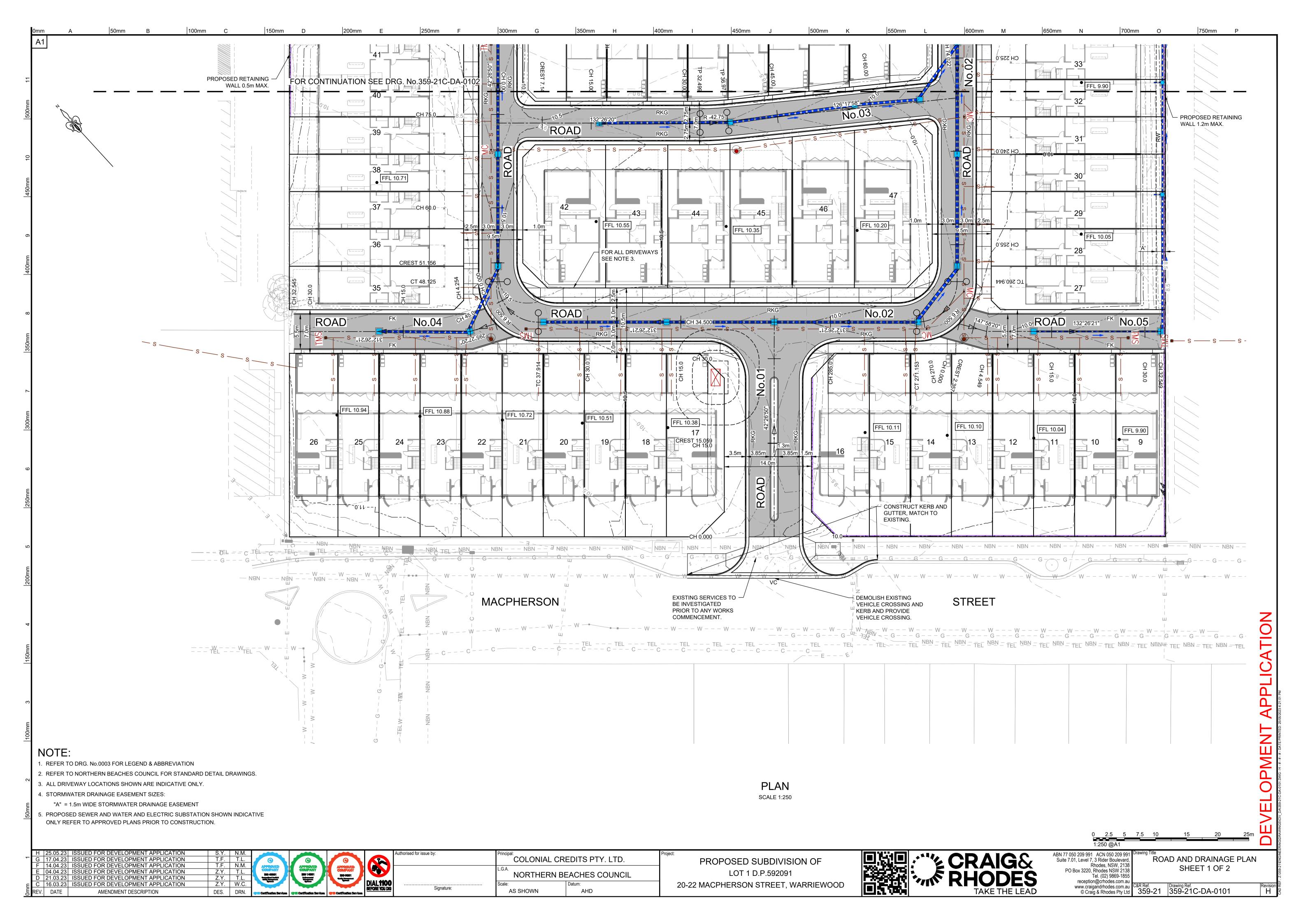


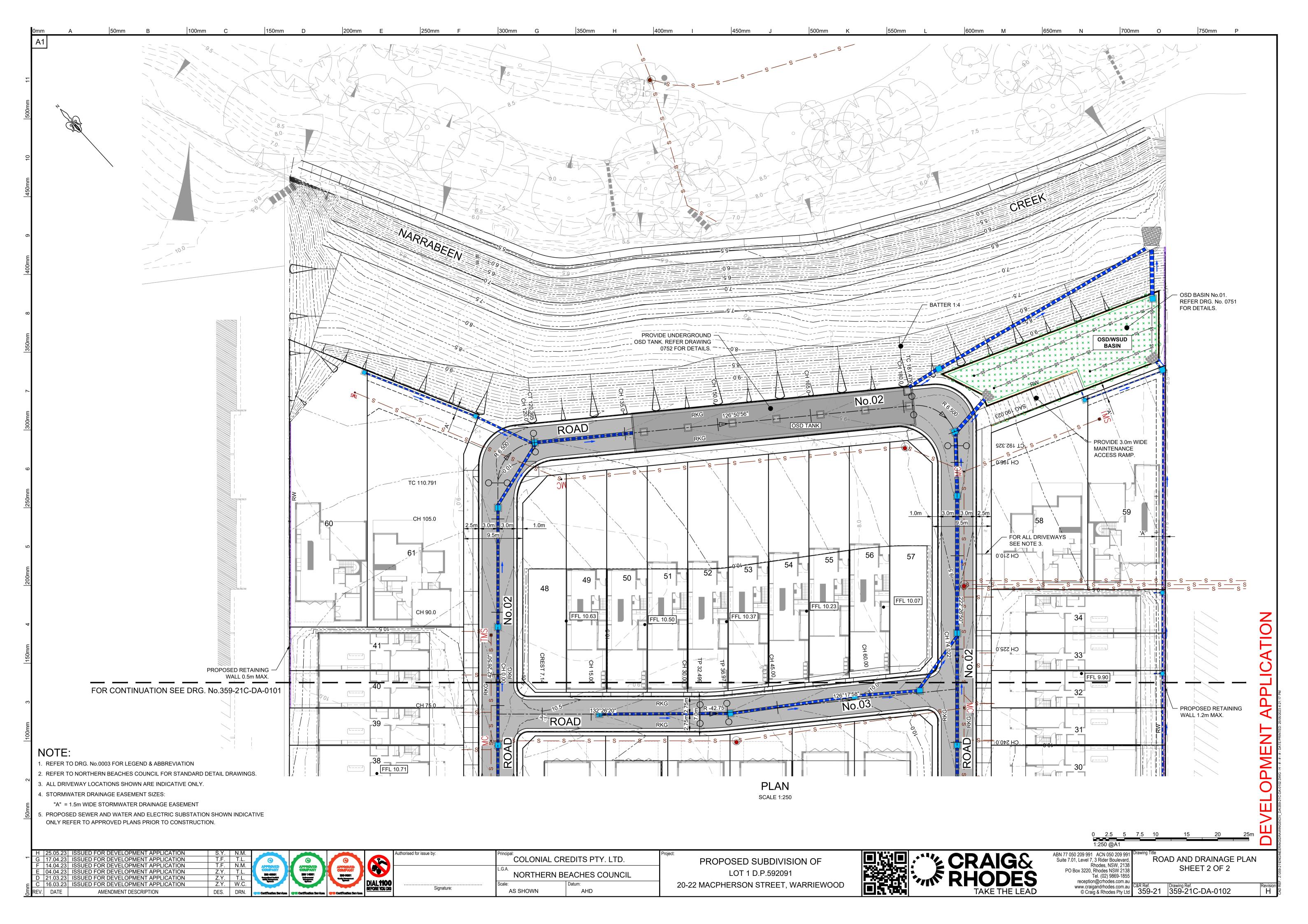


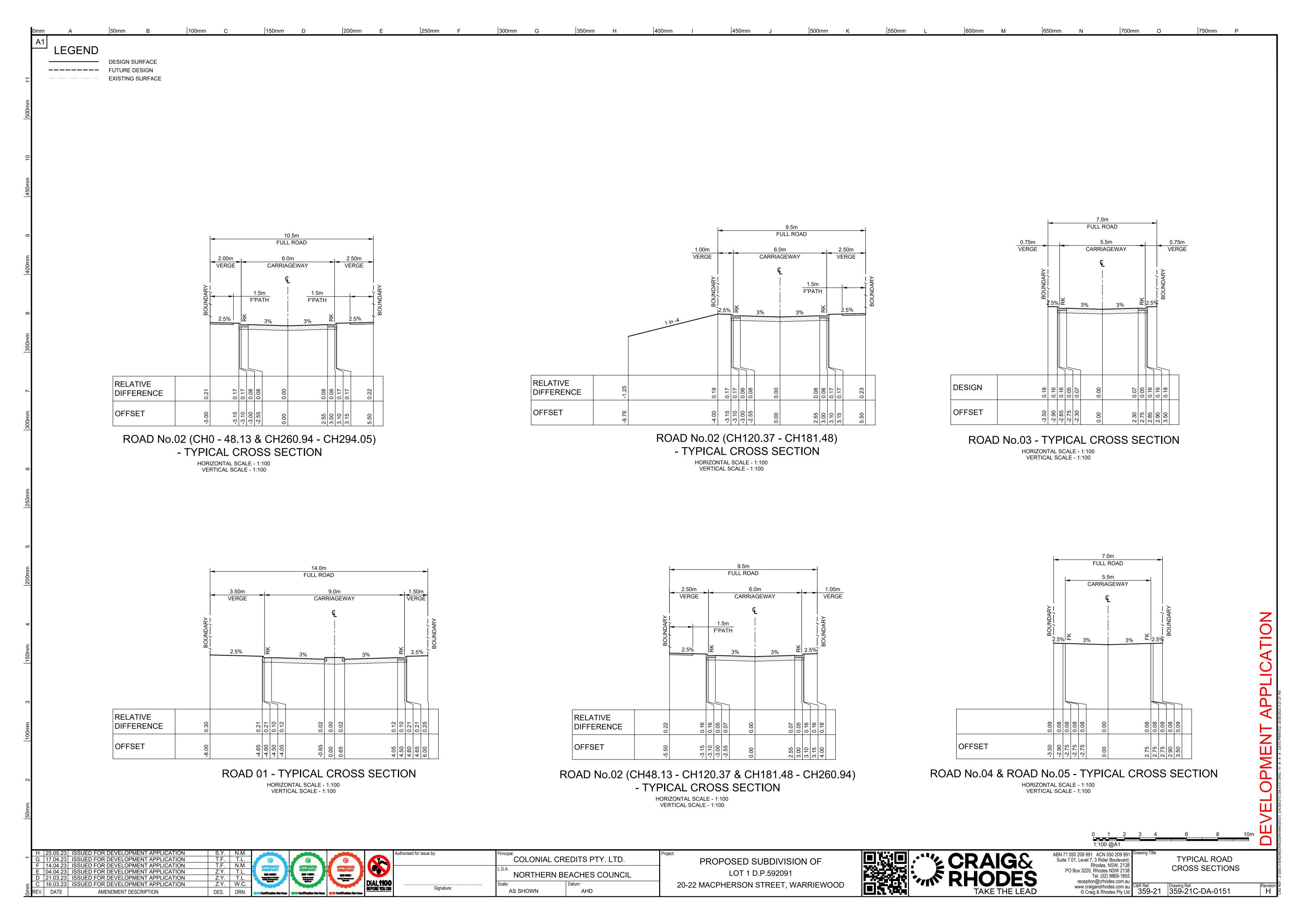


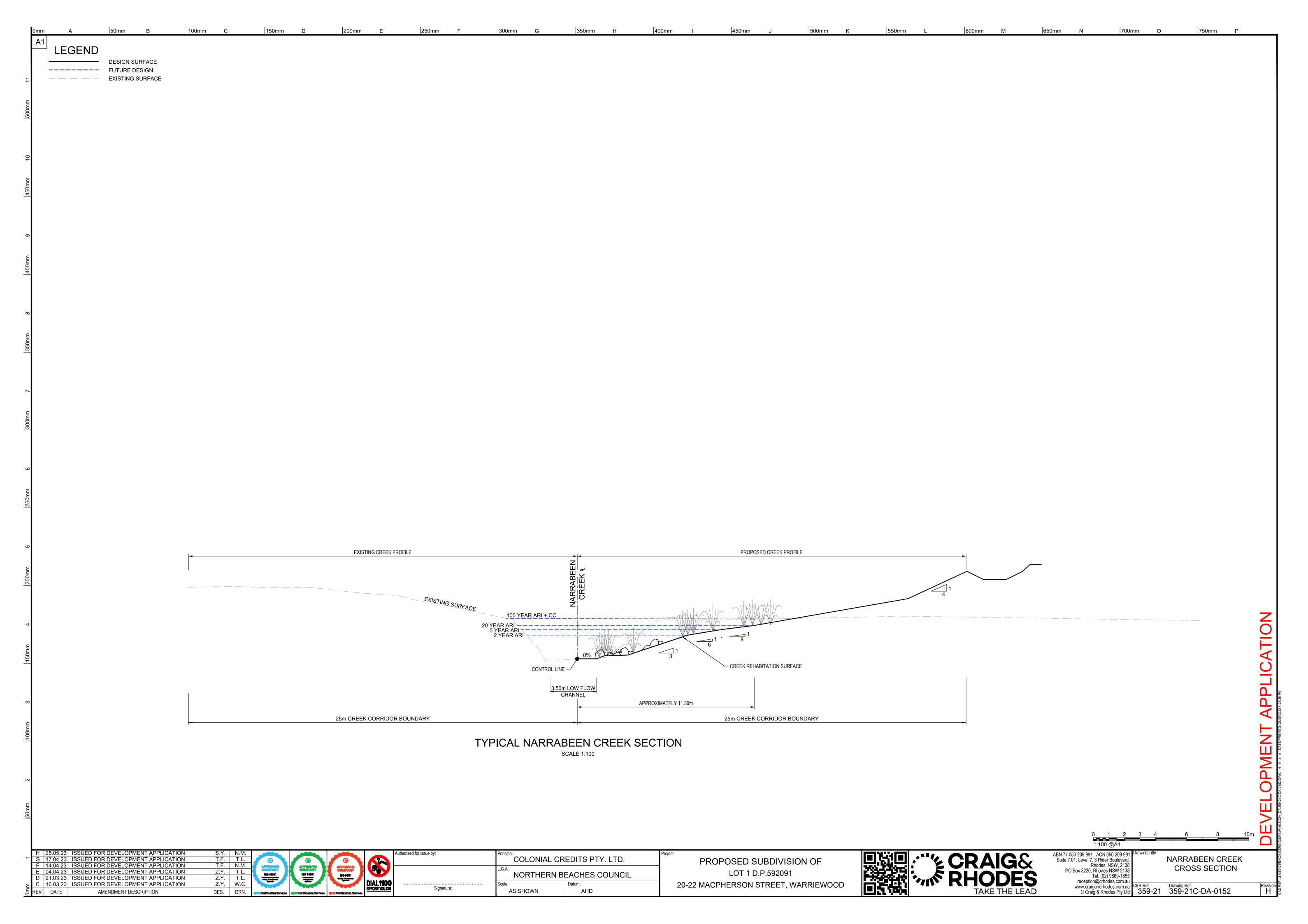


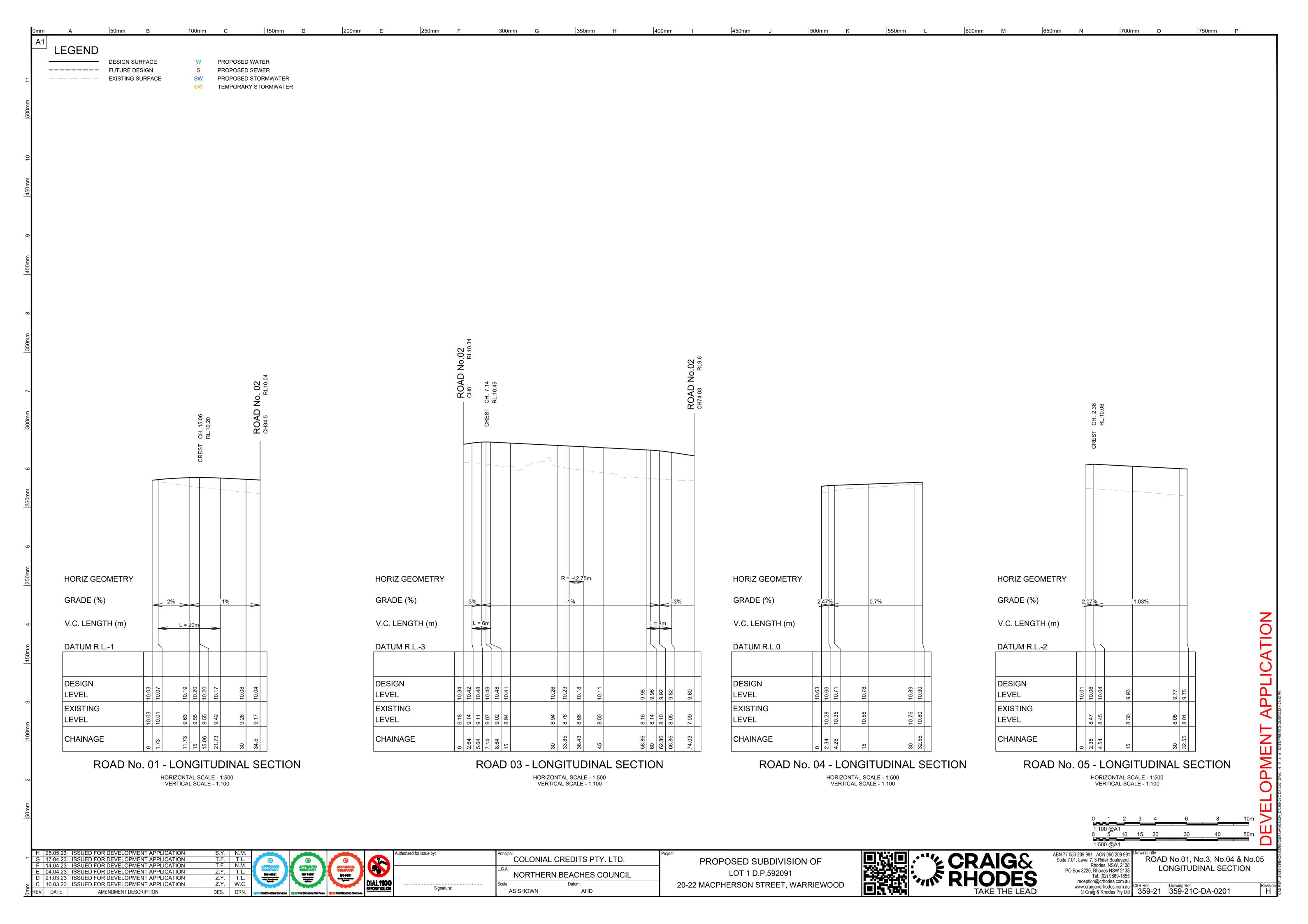


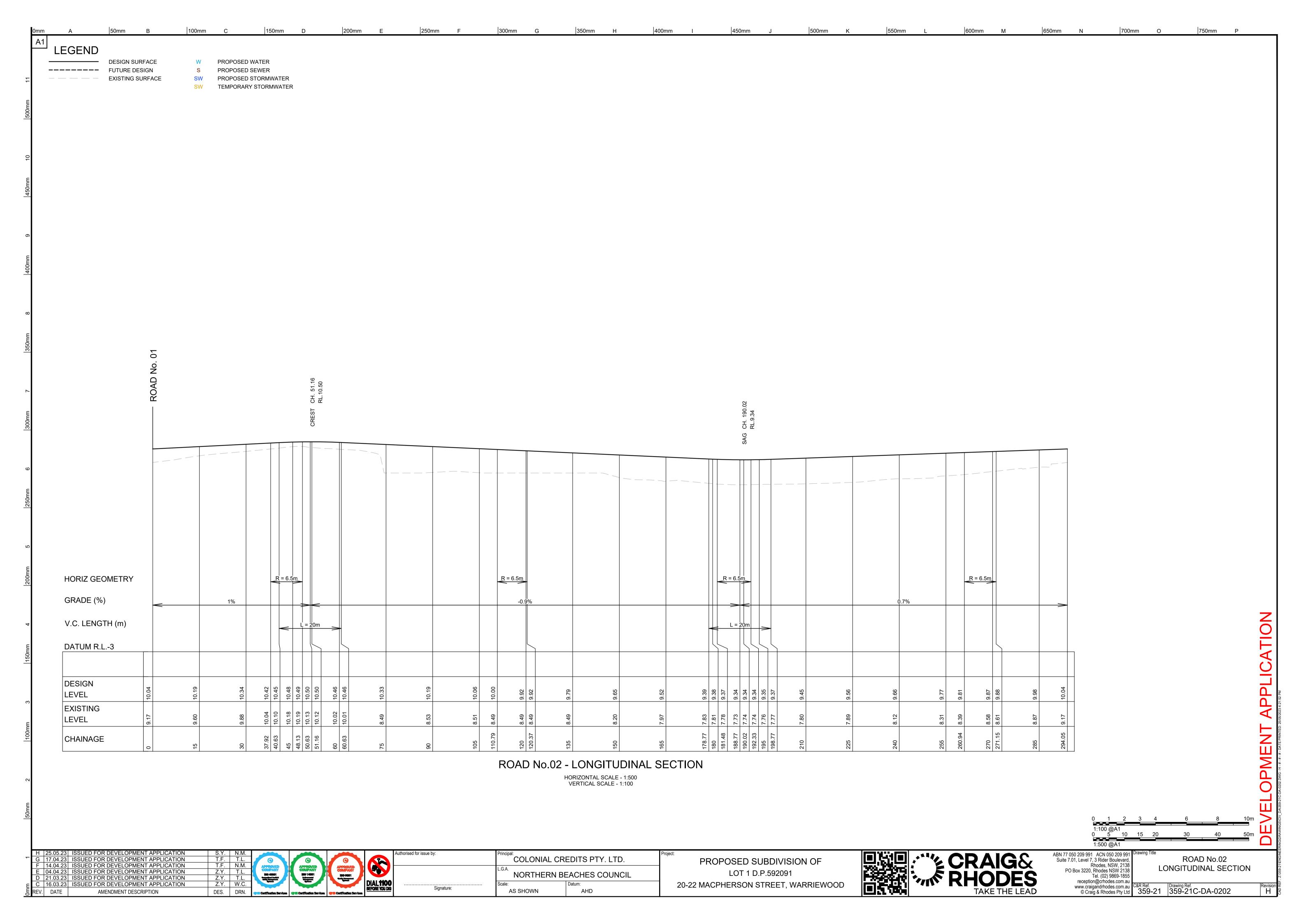


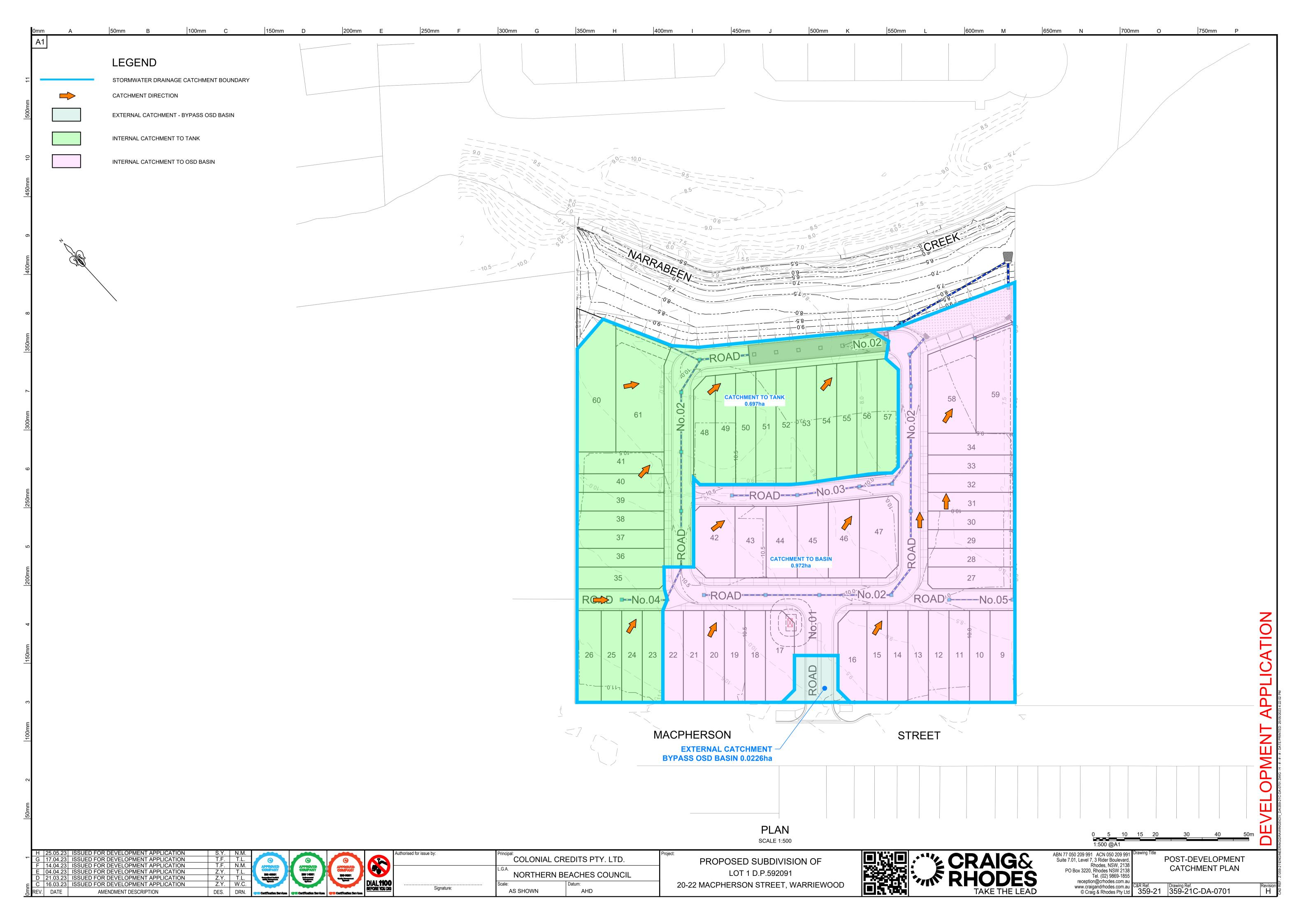


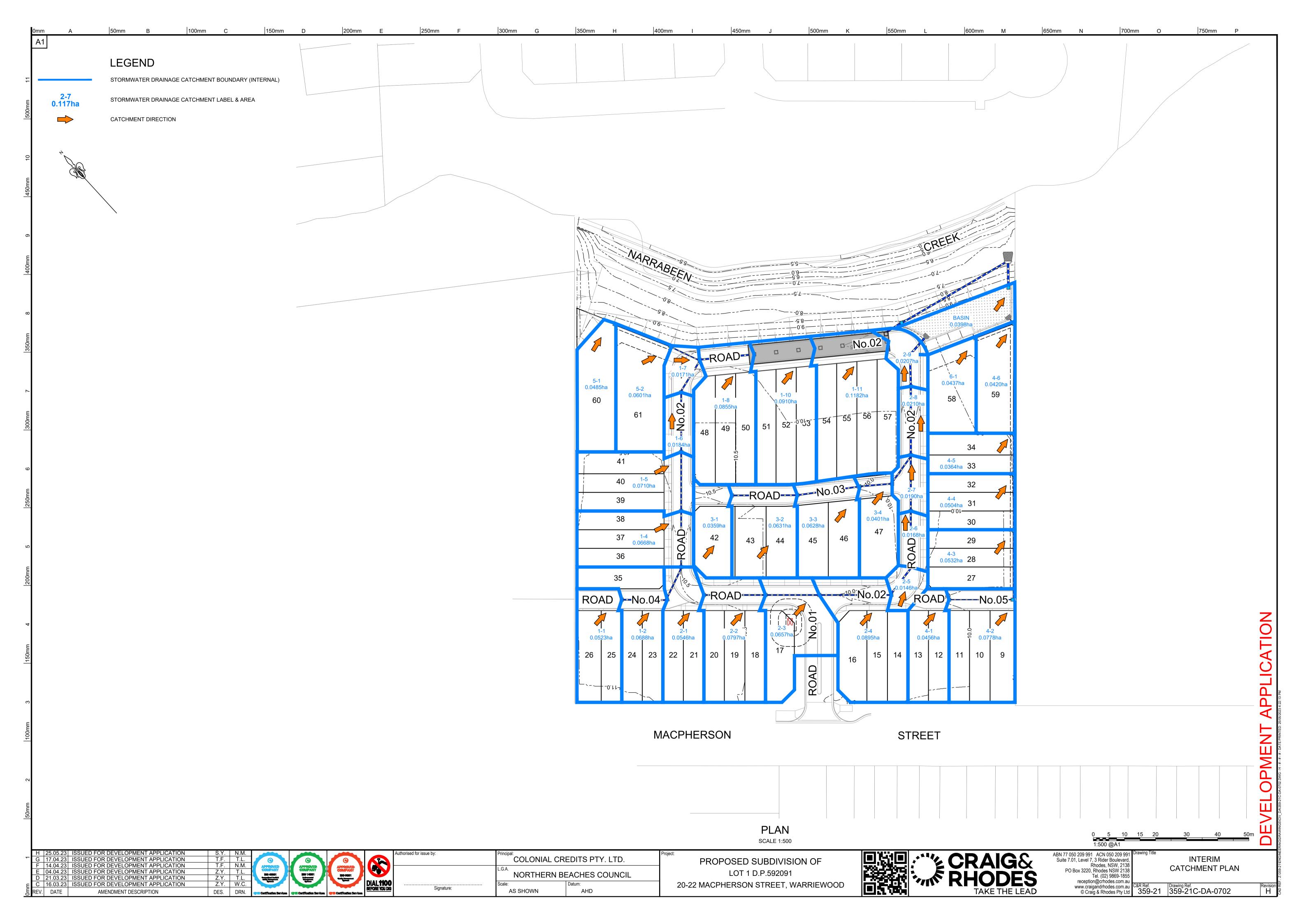


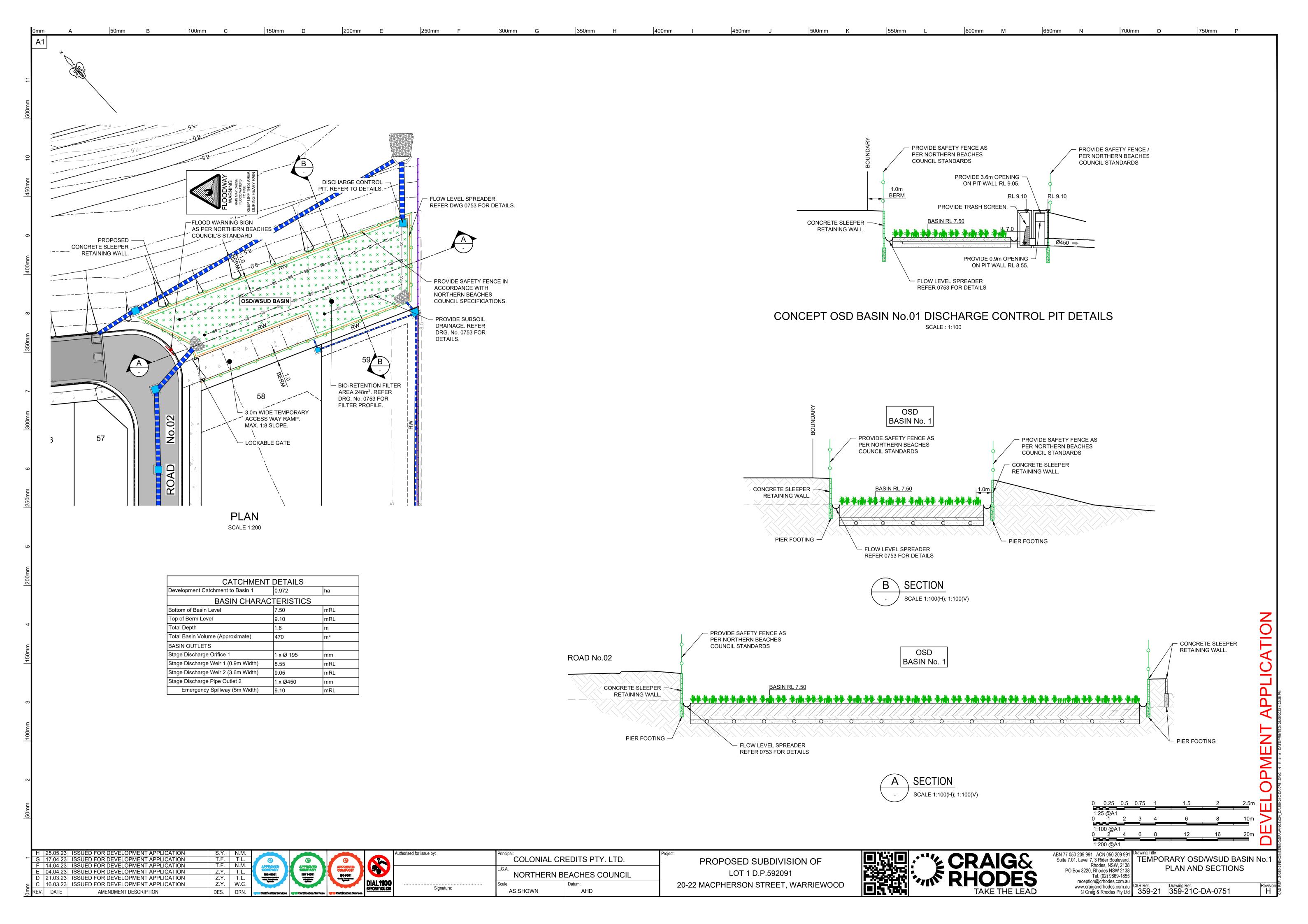


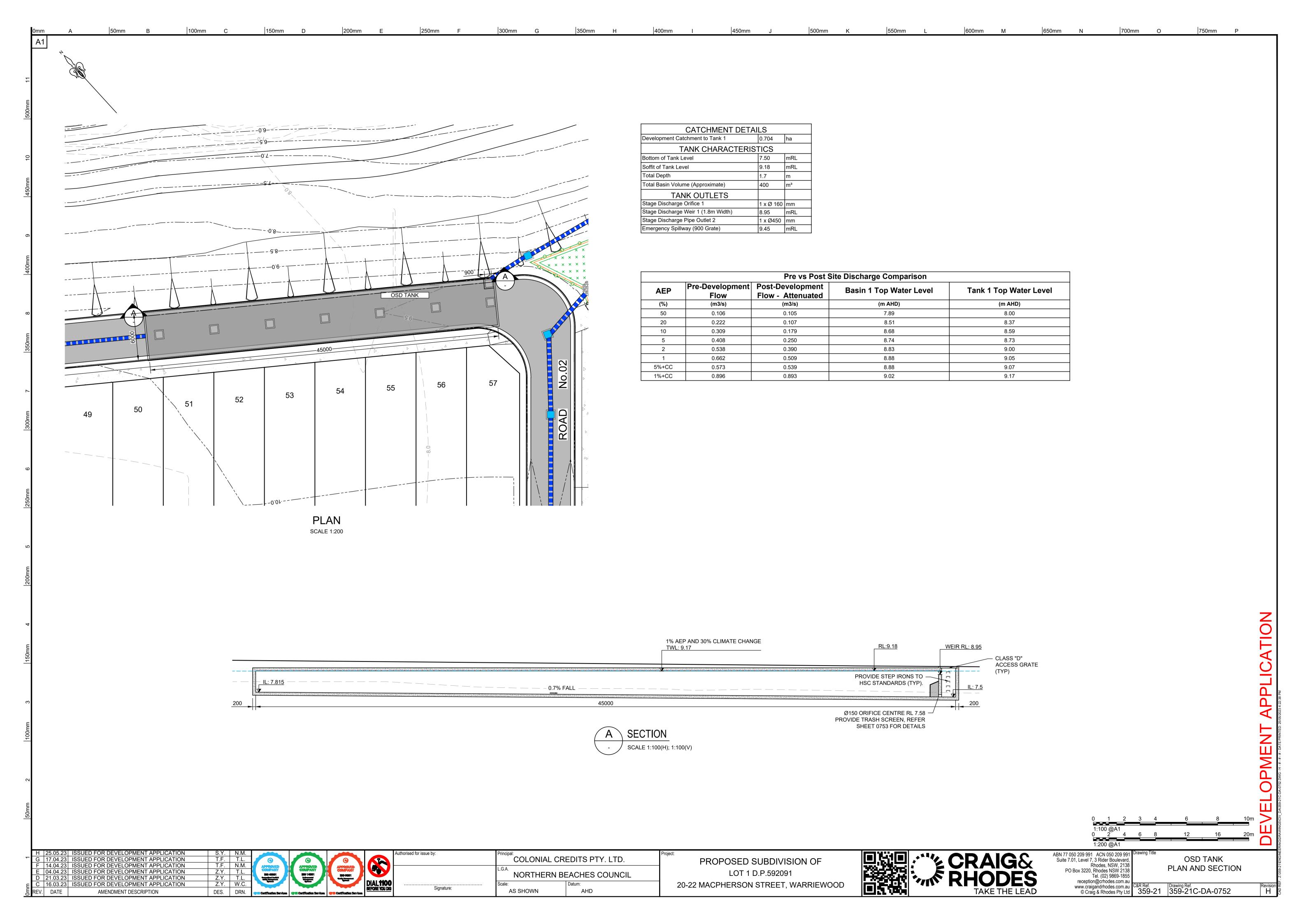












TYPICAL FLOW LEVEL SPREADER NOT TO SCALE

1. A 100mm THICK COARSE SAND TRANSITION LAYER IS TO BE INSTALLED OVER THE GRAVEL DRAINAGE LAYER TO COMPLY WITH THE FOLLOWING PARTICLE SIZE

750mm P

- 2. FILTER MEDIA IS TO BE FREE OF RUBBISH AND DELETERIOUS MATERIAL AND LIGHTLY COMPACTED ONLY (TO 90% STANDARD COMPACTION)
- 3. FILTER MEDIA SATURATED HYDRAULIC CONDUCTIVITY TO BE 180mm/hr. PERMEABILITY IS TO BE TESTED USING THE A.S.4419 (LATEST EDITION) (SOILS FOR LANDSCAPING AND

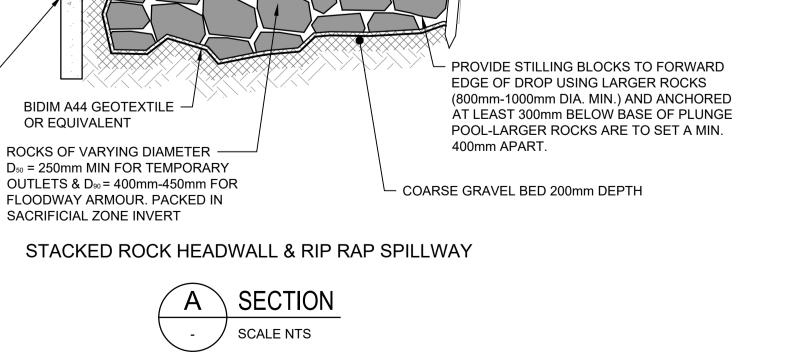
THE COMBINED PERCENTAGE OF CLAY & SILT MAY NOT EXCEED 12% UNDER ANY

- a. BULK DENSITY AS SPECIFIED FOR 'NATURAL SOILS AND SOIL BLENDS' > 0.7 kg/L
- c. WETTABILITY AS SPECIFIED FOR 'NATURAL SOILS AND SOIL BLENDS' > 5 mm/min.
- e. ELECTRICAL CONDUCTIVITY (EC) AS SPECIFIED FOR 'NATURAL SOILS AND SOIL

- i. DISPERSIBILITY AS SPECIFIED FOR 'NATURAL SOILS AND SOIL BLENDS' CATEGORY
- j. PERMEABILITY SATURATED HYDRAULIC CONDUCTIVITY 80mm/hr ±20% AT 90%
- I. LARGE PARTICLES AS SPECIFIED FOR 'NATURAL SOILS AND SOIL BLENDS'
- 6. ESTABLISHMENT OF BIO-RETENTION SYSTEM IN ACCORDANCE WITH CONSTRUCTION & ESTABLISHMENT GUIDELINES: SWALES, BIO-RETENTION SYSTEMS & WETLANDS (WATER
- 7. BASIN/FILTER MEDIA TO BE CONSTRUCTED WHEN 80% OF DWELLINGS ARE
- 8. BASIN TO BE REMOVED AS INSTRUCTED BY CAMDEN COUNCIL WHEN REGIONAL INFRASTRUCTURE WORKS ARE COMPLETE. ALL REDUNDANT DRAINAGE WORKS. RETAINING WALLS AND OTHER ASSOCIATED WORKS ARE TO BE DISUSED/CAPPED AND THE BASINS FILLED IN ACCORDANCE WITH CAMDEN COUNCIL'S SPECIFICATIONS.
- 1. THE CONTRACTOR SHALL PROVIDE PROPER FENCING, GUARDING & LIGHTING AND OBSERVATION OF ALL EARTHWORKS, TEMPORARY ROADWAYS, FOOTWAYS, GUARDS & FENCES AS MAY BE RENDERED NECESSARY FOR THE ACCOMMODATION AND PROTECTION OF PEDESTRIANS, VEHICLES, ANIMALS & THE PUBLIC
- 2. ALL EARTHWORKS SHALL BE CARRIED OUT IN THE LOCATIONS SHOWN AND TO THE
- 3. EXCAVATED MATERIAL NOT MEETING THE SPECIFICATIONS FOR FILL MATERIAL SHALL
- 4. WHERE EARTHWORKS ARE REQUIRED IN THE VICINITY OF EXISTING SERVICES, THE
- 5. THE CONTRACTOR SHALL, AT ITS OWN EXPENSE, DO ALL THINGS NECESSARY TO DIVERT ANY WATER INTERFERING WITH THE PROCESS OF WORKS, KEEP THE EXCAVATIONS AND TRENCHES FREE FROM WATER WHILE THE WORKS ARE IN PROGRESS AND PREVENT ANY DAMAGE TO THE WORKS BY WATER DUE TO FLOODS OR OTHER CAUSES. THE CONTRACTOR SHALL HAVE PUMPING EQUIPMENT FOR KEEPING THE EXCAVATION OR TRENCHES CONSTANTLY DEWATERED DURING THE TIMES THE WORKS ARE IN PROGRESS. ANY WORK OR MATERIAL DAMAGED BY WATER SHALL BE
- 6. WHERE DIRECTED BY THE SUPERINTENDENT THE BOTTOM OF TRENCHES OR EXCAVATIONS SHALL BE COMPACTED PRIOR TO THE PLACING OF ANY BEDDING OR CONCRETE MATERIALS. SHOULD, IN THE OPINION OF THE SUPERINTENDENT, THE FOUNDATION MATERIAL BE INCAPABLE OF EFFECTIVE COMPACTION, THE MATERIAL SHALL BE REMOVED AND REPLACED WITH APPROPRIATE MATERIAL
- 7. MATERIAL SHALL BE INSPECTED & APPROVED BY THE SUPERINTENDENT PRIOR TO USE. RELEVANT MATERIAL SPECIFICATION SHEETS ARE TO BE PROVIDED BY THE CONTRACTOR.
- 8. SUBSOIL DRAINAGE PIPES WITHIN THE BIORETENTION SYSTEM ARE TO BE SLOTTED 100mm uPVC CONSISTENT WITH AS/NZS 1254. JOINTS ARE TO BE SOLVENT CEMENT GLUED AND BENDS ARE TO BE 45° TO MINIMISE BLOCKAGE.

EXCAVATIONS - BASINS

- 1. ALL TOPSOIL TO BE STRIPPED AND STOCKPILED FOR FUTURE USE. STRIPPED SURFACES ARE TO BE ROLLED AND INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO CONTINUING WORKS. DEPTH OF TOPSOIL STRIPPING TO BE BETWEEN 125mm AND 200mm (TO BE CONFIRMED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION)
- 2. WHERE ROCK IS EXPOSED DURING EXCAVATION, THE CONTRACTOR SHALL CEASE EXCAVATION AT THIS LOCATION AND CONTACT THE SUPERINTENDENT WHO WILL THEN ADVISE ON THE LEVEL TO WHICH THE EXCAVATION IS TAKEN.



PROVIDE TRENCH CUT-OFF HEEL

ISSUED FOR DEVELOPMENT APPLICATION

ISSUED FOR DEVELOPMENT APPLICATION

ISSUED FOR DEVELOPMENT APPLICATION

AMENDMENT DESCRIPTION

21.03.23 ISSUED FOR DEVELOPMENT APPLICATION

16.03.23 ISSUED FOR DEVELOPMENT APPLICATION

REV. DATE

OR EQUIVALENT

190 45001

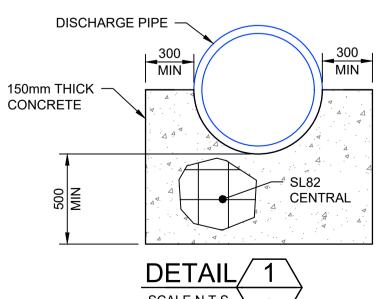
Z.Y. T.

DES.

Z.Y. W.C

DRN

7 FOR Ø600mm PIPES AND LARGER.



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PROPOSED SUBDIVISION OF LOT 1 D.P.592091 20-22 MACPHERSON STREET, WARRIEWOOD



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