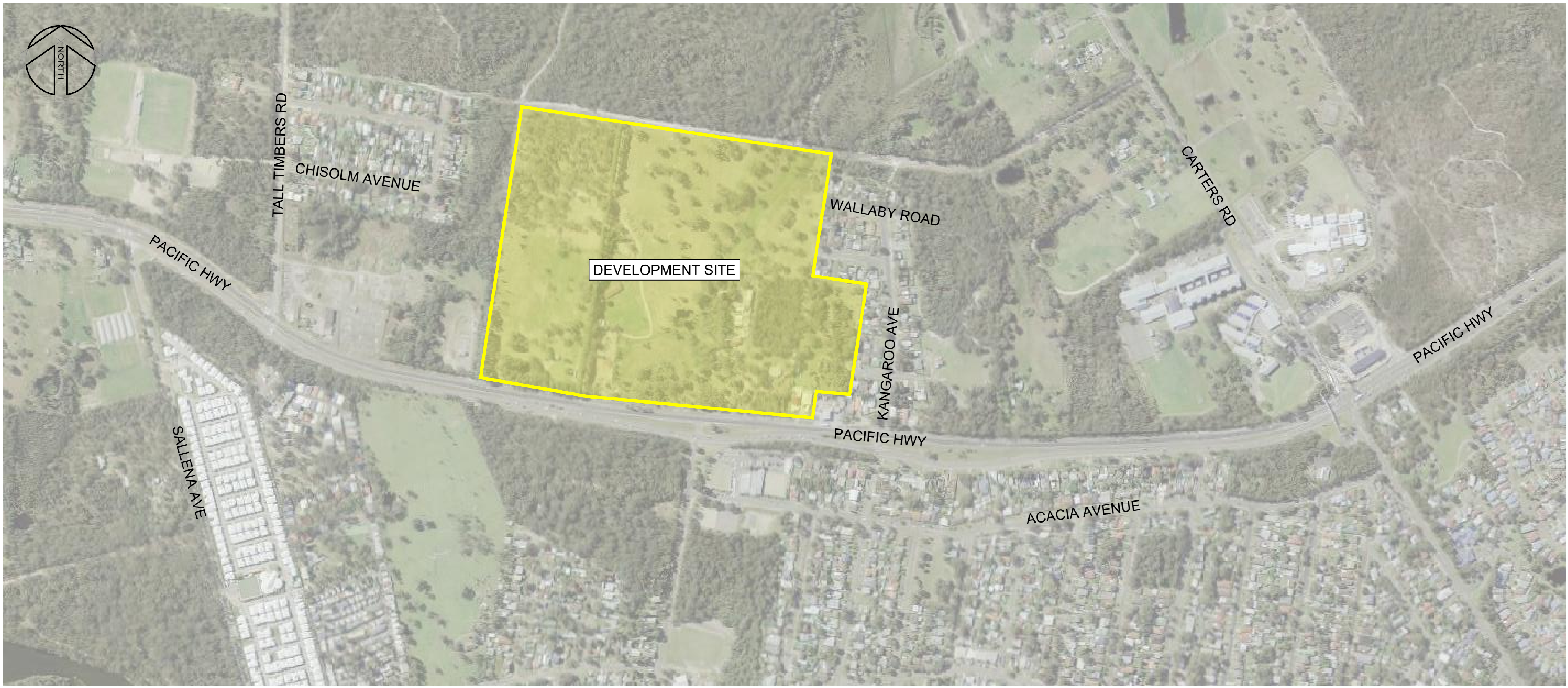


CENTRAL COAST COUNCIL
285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION
CONCEPT CIVIL ENGINEERING DESIGN FOR DEVELOPMENT APPLICATION



LOCALITY
NOT TO SCALE

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Prepared for: URBAN LAND REDEVELOPMENT



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GENERAL NOTES

1.

ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DEVELOPMENT CONSENT AND THE CENTRAL COAST COUNCIL'S 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 COUNCIL.
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 OCCURRING: 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.

ERECT STREET NAME SIGNS, CONDUIT WARNING SIGNS AND NO THROUGH ROAD SIGNS WHERE SHOWN OR WHERE DIRECTED BY COUNCIL'S REPRESENTATIVE.
2.

THE CONTRACTOR SHALL UNDERTAKE TRAFFIC CONTROL MEASURES TO COUNCIL'S SATISFACTION AND SHALL DISPLAY ALL APPROPRIATE WARNING SIGNS THROUGHOUT THE DURATION OF CONSTRUCTION.
3.

UN SOUND MATERIALS AS DETERMINED BY THE COUNCIL'S REPRESENTATIVE SHALL BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING.
4.

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.

UN SOUND 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.
7.

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 WETHER 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

1.

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600.
2.

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 DUCTILITY
- 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 CTS.
11.

FABRIC REINFORCEMENT TO BE LAPPED 1 COMPLETE SQUARE + 25mm UNLESS NOTED OTHERWISE.
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 CENTRAL COAST COUNCIL'S STANDARDS AND SPECIFICATIONS.

LEGEND		
DESCRIPTION	EXISTING	PROPOSED
ROOF DRAINAGE LINE		
DRAINAGE LINE		
CONTOUR		
GRATED SURFACE INLET PIT		
SEALED PIT		
KERB INLET PIT		
PIT LABEL (LINE / No)	E/1	1/5
SUBSOIL	SS	SS
150mm KERB & GUTTER		
ROLL KERB		
KERB ONLY		
FLUSH KERB		
RETAINING WALL		
ROAD PAVEMENT		
FOOTPATH		
TREE TO BE REMOVED		
BATTERS		
LIMIT OF WORKS		LIMIT OF CONSTRUCTION
ELECTRICITY	E	E
COMMUNICATIONS	T	T
GAS	G	G
SEWER	S	S
WATER	W	W
FENCE	/	/

PROJECT STAGING

STAGE 1 OF THE PROJECT SHALL INCLUDE, AS A MINIMUM, THE FOLLOWING ELEMENTS:

1.

PROPOSED ROAD 1 COLLECTOR ROAD THROUGH THE SITE.
2.

STORMWATER MANAGEMENT BASINS/WATER QUALITY AREAS.
3.

DEDICATION OF CONSERVATION AREAS.
4.

DEDICATION OF LOCAL PARK.
5.

UPGRADE TO PACIFIC HIGHWAY/KANGAROO AVENUE INTERSECTION.
6.

UPGRADE TO AND EXTENSION OF CHISOLM AVENUE.
7.

UPGRADE TO TALL TIMBERS ROAD/CHISOLM AVENUE INTERSECTION.

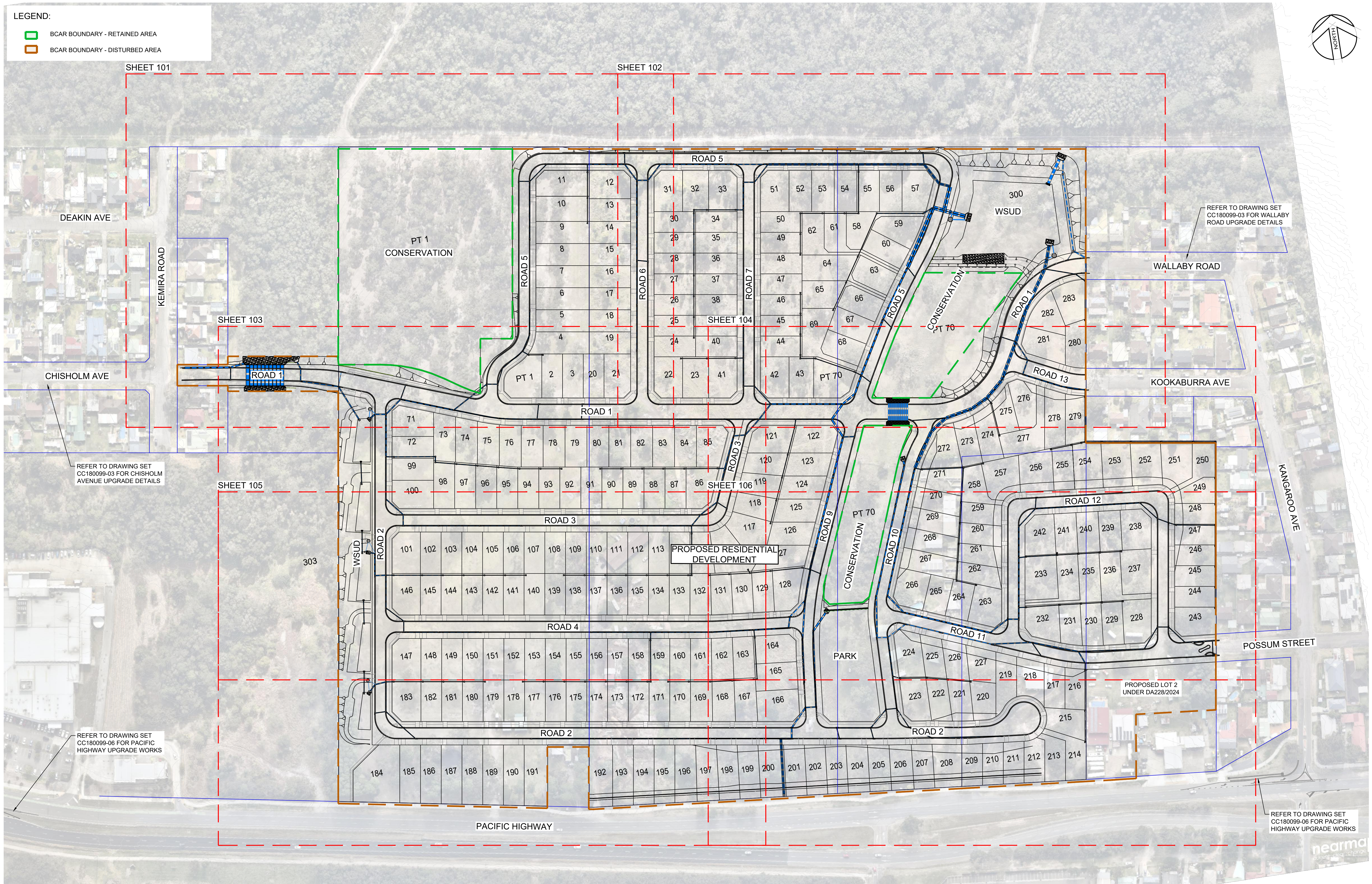
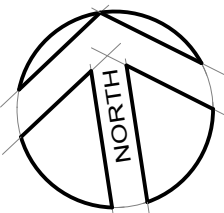
ITEMS 1 TO 7 (INCLUSIVE) ABOVE SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE PROJECT'S STAGE VOLUNTARY PLANNING AGREEMENT (SVPA2022-178).

REV	AMENDMENT	ISSUED	DATE														
A	ISSUED FOR D.A.	SGB	03/11/2023		SYDNEY P: 02 9659 0005 CENTRAL COAST P: 02 4325 5256	HUNTER P: 02 4966 8388 S.E. QLD P: 07 5582 6555	Client:   URBAN LAND REDEVELOPMENT	285-325 PACIFIC HIGHWAY, LAKE MUNMORAH PROPOSED RESIDENTIAL SUBDIVISION		Designed: JT Drawn: DKH Checked: SGB	Scales: Plan - @A1 Horiz. - Vert. - X-Sect. -	Datum: A.H.D.	Plan No. CC180099-07-011	File Ref. CC180099	REV. C	ENGINEERING PLANNING PROJECT MANAGEMENT SURVEYING CERTIFICATION	
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024														
C	REVISED FOR COUNCIL RFI	JT	11/03/2025														
					www.brs.com.au mail@brs.com.au ABN: 26 134 067 842 ©2019			GENERAL NOTES									

LEGEND:

BCAR BOUNDARY - RETAINED AREA

BCAR BOUNDARY - DISTURBED AREA



PLAN
SCALE 1:1250



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



SYDNEY
P: 02 9659 0005
CENTRAL COAST
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HUNTER
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S.E. QLD
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285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION

GENERAL ARRANGEMENT

Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan 1:1250
@A1
Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-07-021

File Ref.
CC180099

REV.
C



NOTE:

1. TRAFFIC CALMING DEVICES ON THE COLLECTOR ROAD ARE TO BE DISCUSSED AND AGREED WITH COUNCIL. DETAILS TO BE INCLUDED AS PART OF THE FUTURE S.W.C.



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



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ING | CERTIFICATION

Client:



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285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION

TYPICAL SECTIONS

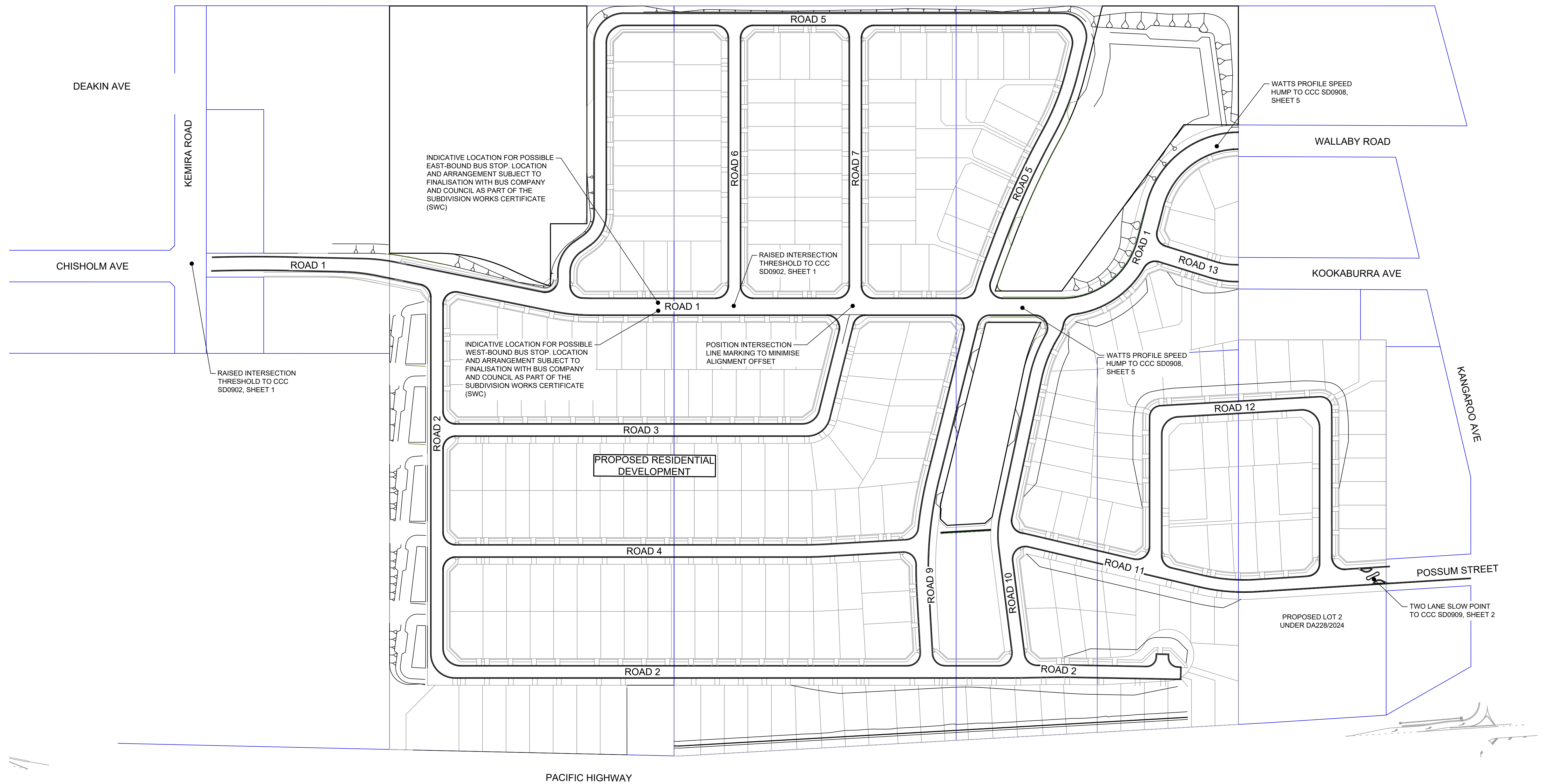
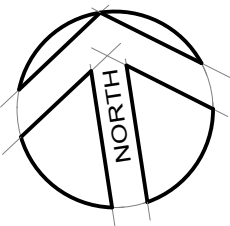
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Drawn: DKH
Checked: SGB

Scales: Plan -
 @A1 Horiz. -
 Vert. -
 X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-07-031

File Ref. REV.
CC180099



- NOTES:
1. INDICATIVE LOCATION OF PROPOSED TRAFFIC MANAGEMENT DEVICES ARE SHOWN ON THIS DRAWING.
 2. CENTRAL MEDIAN ISLANDS ARE NOT PROPOSED.
 3. FINAL DETAILS, LOCATION AND ARRANGEMENTS SUBJECT TO DETAILED DESIGN AS PART OF THE SUBDIVISION WORKS CERTIFICATE (SWC).

PLAN
SCALE 1:1250



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



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285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION

TRAFFIC MANAGEMENT DEVICE LOCATIONS

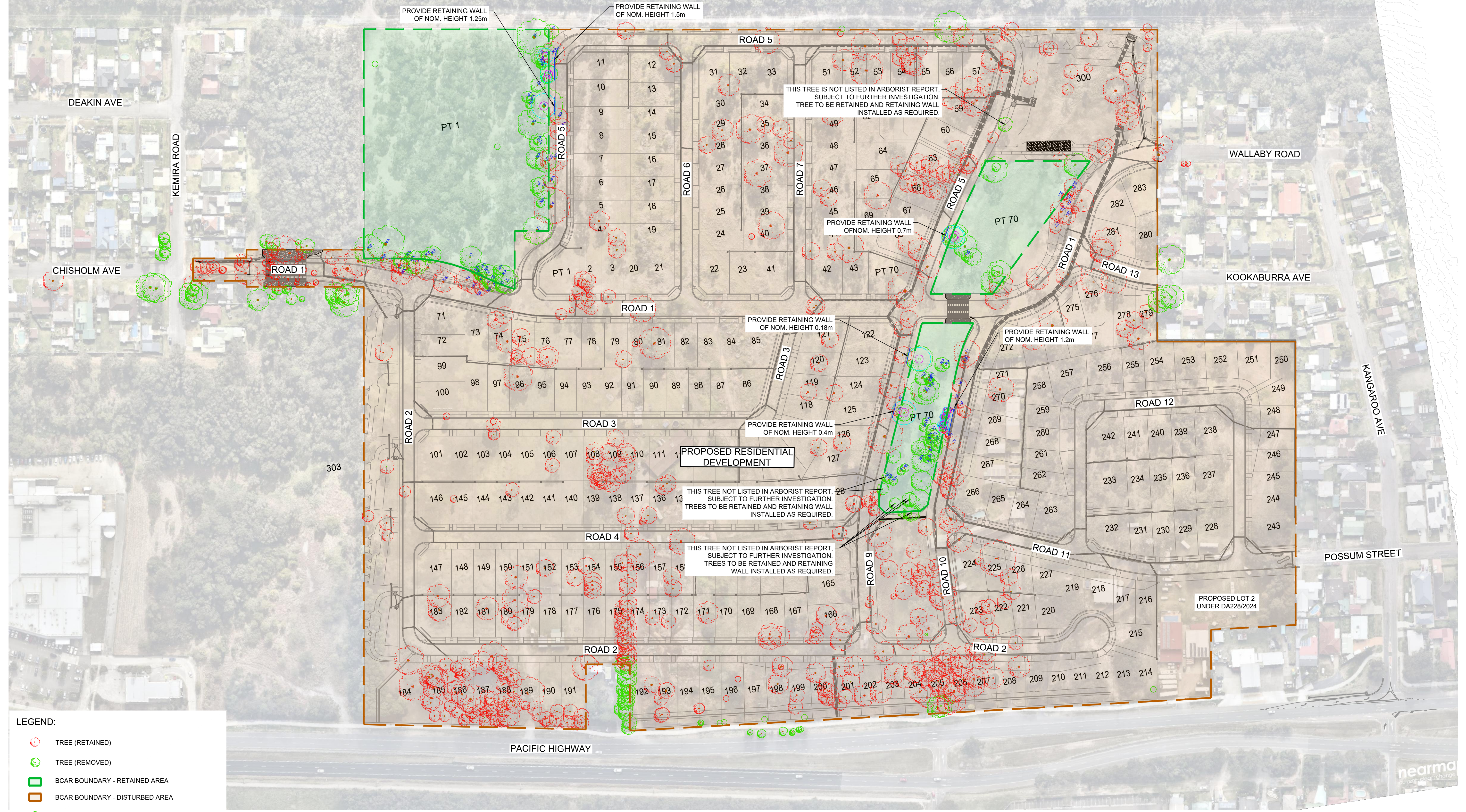
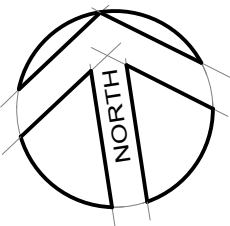
Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan 1:1250
@A1 Horiz. -
Vert. -
X-Sect. -
Datum: A.H.D.

Plan No.
CC180099-07-041

File Ref.
CC180099

REV.
C



LEGEND:

- TREE (RETAINED)
- TREE (REMOVED)
- BCAR BOUNDARY - RETAINED AREA
- BCAR BOUNDARY - DISTURBED AREA
- INOPEA TREE (RETAINED)
- INOPEA TREE (REMOVED)

PLAN
SCALE 1:1250



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025

**BARKER
RYAN
STEWART**

ENGINEERING | PLANNING | PROJECT MANAGEMENT | SURVEYING | CERTIFICATION

SYDNEY
P: 02 9559 0005
CENTRAL COAST
P: 02 4325 5255

HUNTER
P: 02 4966 8388
S.E. QLD
P: 07 5582 6555

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Client:

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TREE IMPACT PLAN

Designed: JT
Drawn: DKH
Checked: SGB

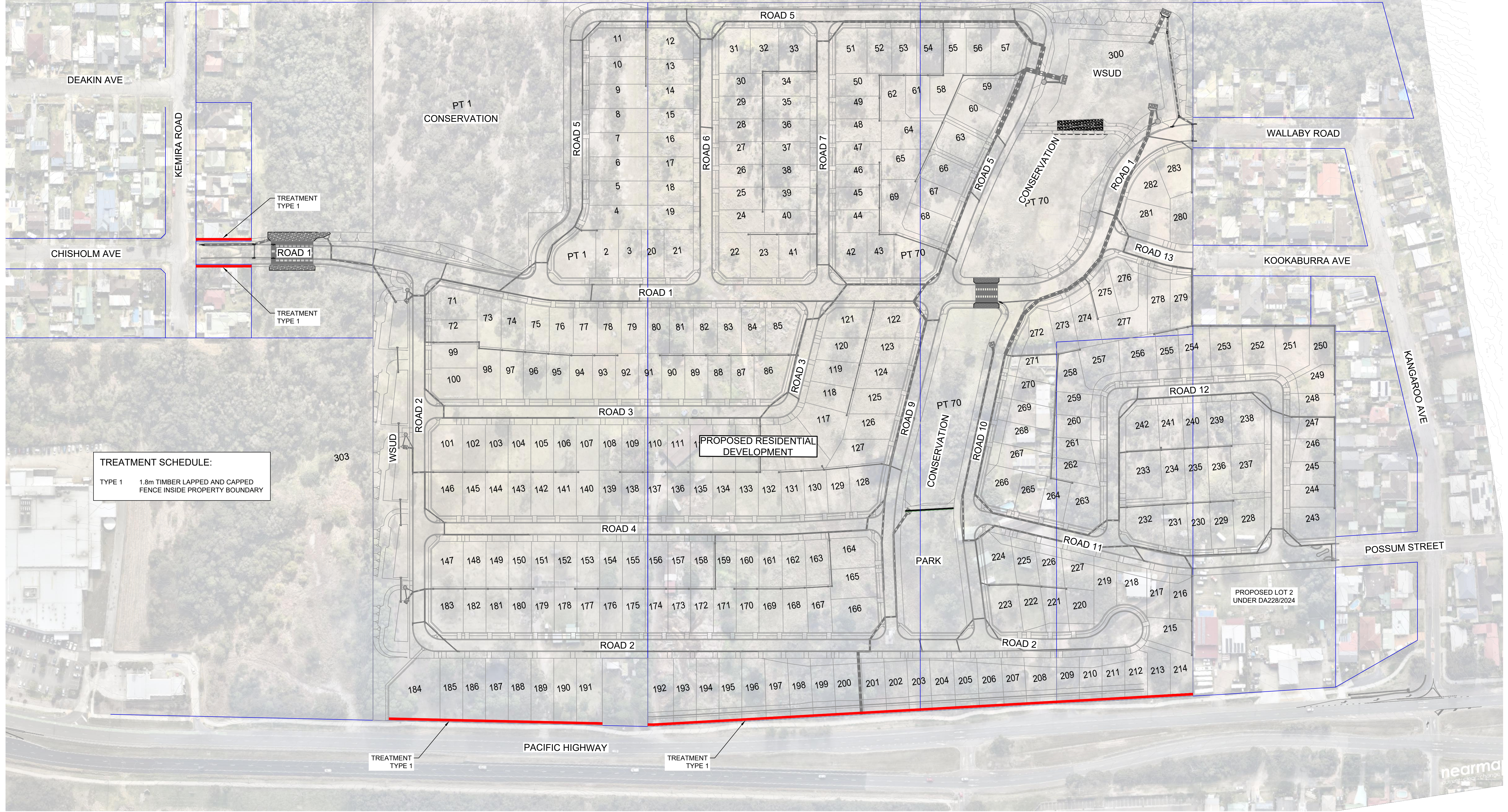
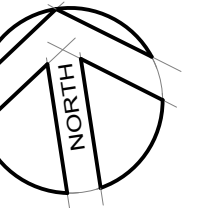
Scales: Plan 1:1250
@A1 Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-07-051

File Ref.
CC180099

REV.
C



PLAN
SCALE 1:1250

REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



SYDNEY
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CENTRAL COAST
P: 02 4325 5255

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ALDA ROSE URBAN LAND REDEVELOPMENT

285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
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ACOUSTIC TREATMENT PLAN

Designed: JT
Drawn: DKH
Checked: SGB

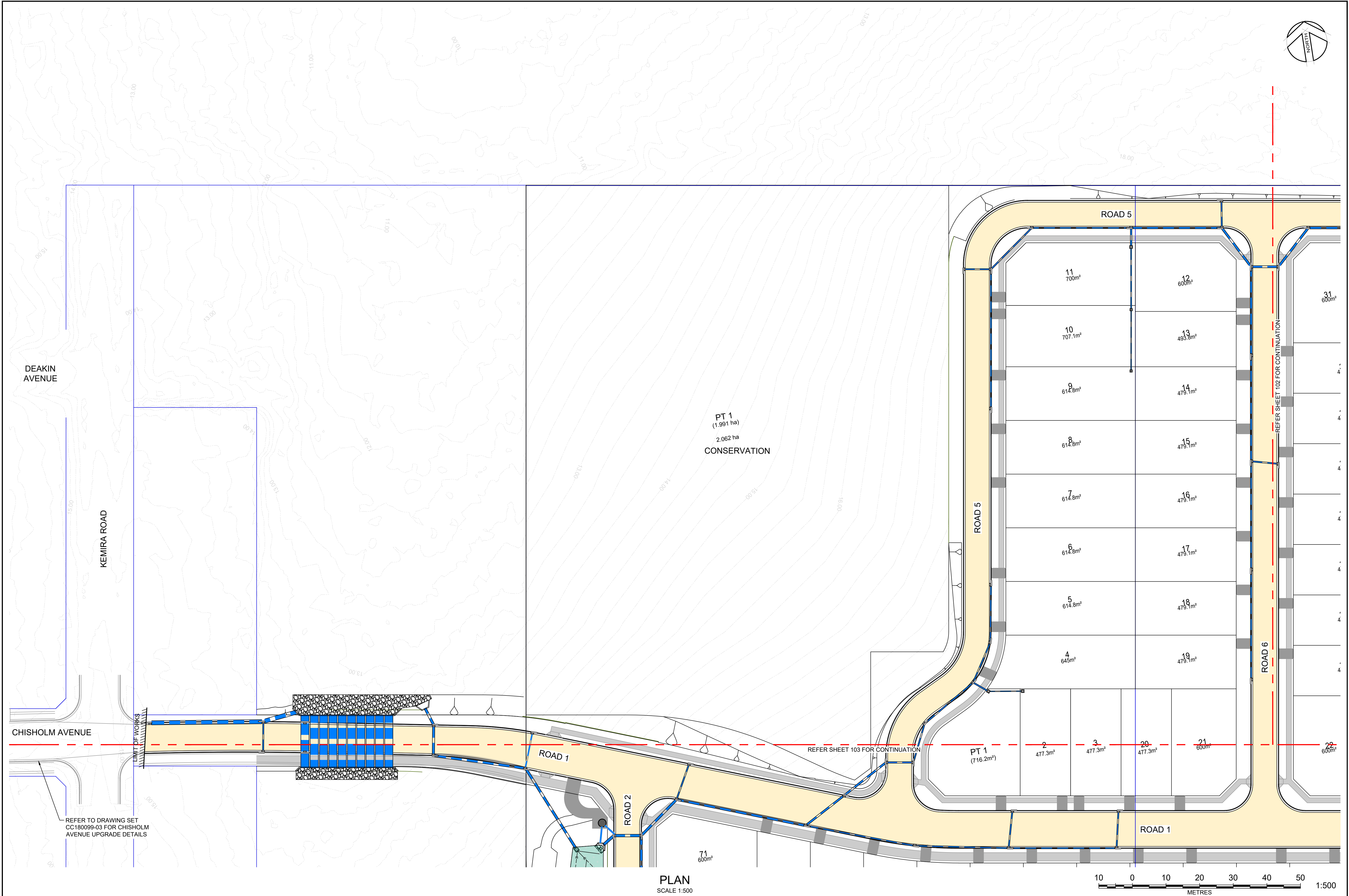
Scales: Plan 1:1250
@A1 Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-07-061

File Ref.
CC180099

REV.
C



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



SYDNEY
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CENTRAL COAST
P: 02 4325 5255

HUNTER
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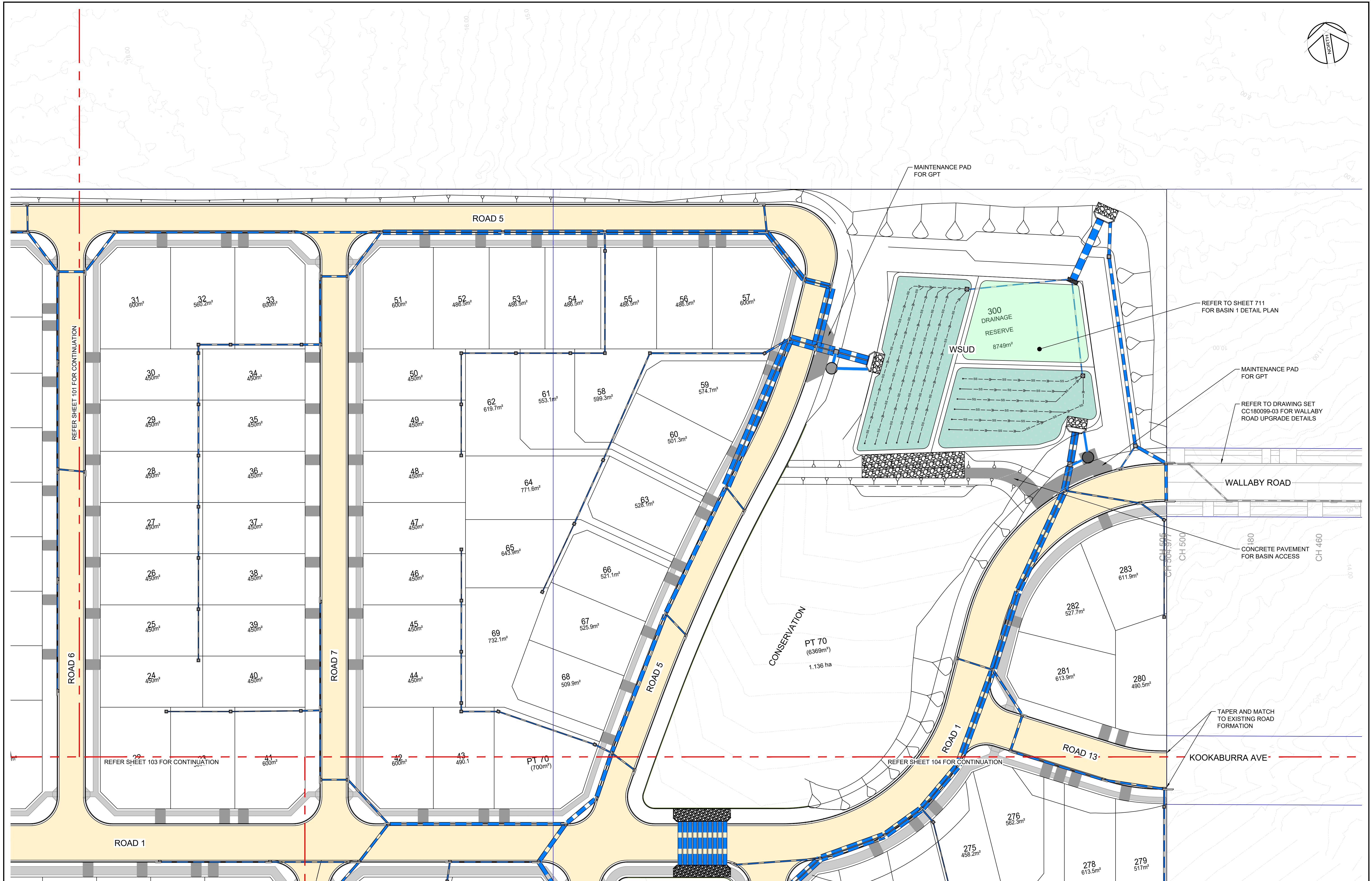
285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION

DETAIL ENGINEERING PLAN SHEET 1

Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan 1:500
@A1 Horiz. -
Vert. -
X-Sect. -
Datum: A.H.D.

Plan No.
CC180099-07-101
File Ref.
CC180099
REV.
C



PLAN
SCALE 1:500



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



SYDNEY
P: 02 9659 0005
CENTRAL COAST
P: 02 4325 5256

HUNTER
P: 02 4966 8388
S.E. QLD
P: 07 5582 6555

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DETAIL ENGINEERING PLAN SHEET 2

Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan 1:500
@A1 Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-07-102

File Ref.
CC180099

REV.
C



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



SYDNEY
P: 02 9659 0005
CENTRAL COAST
P: 02 4325 5255

HUNTER
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S.E. QLD
P: 07 5582 6555

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DETAIL ENGINEERING PLAN SHEET 3

Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan 1:500
@A1 Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

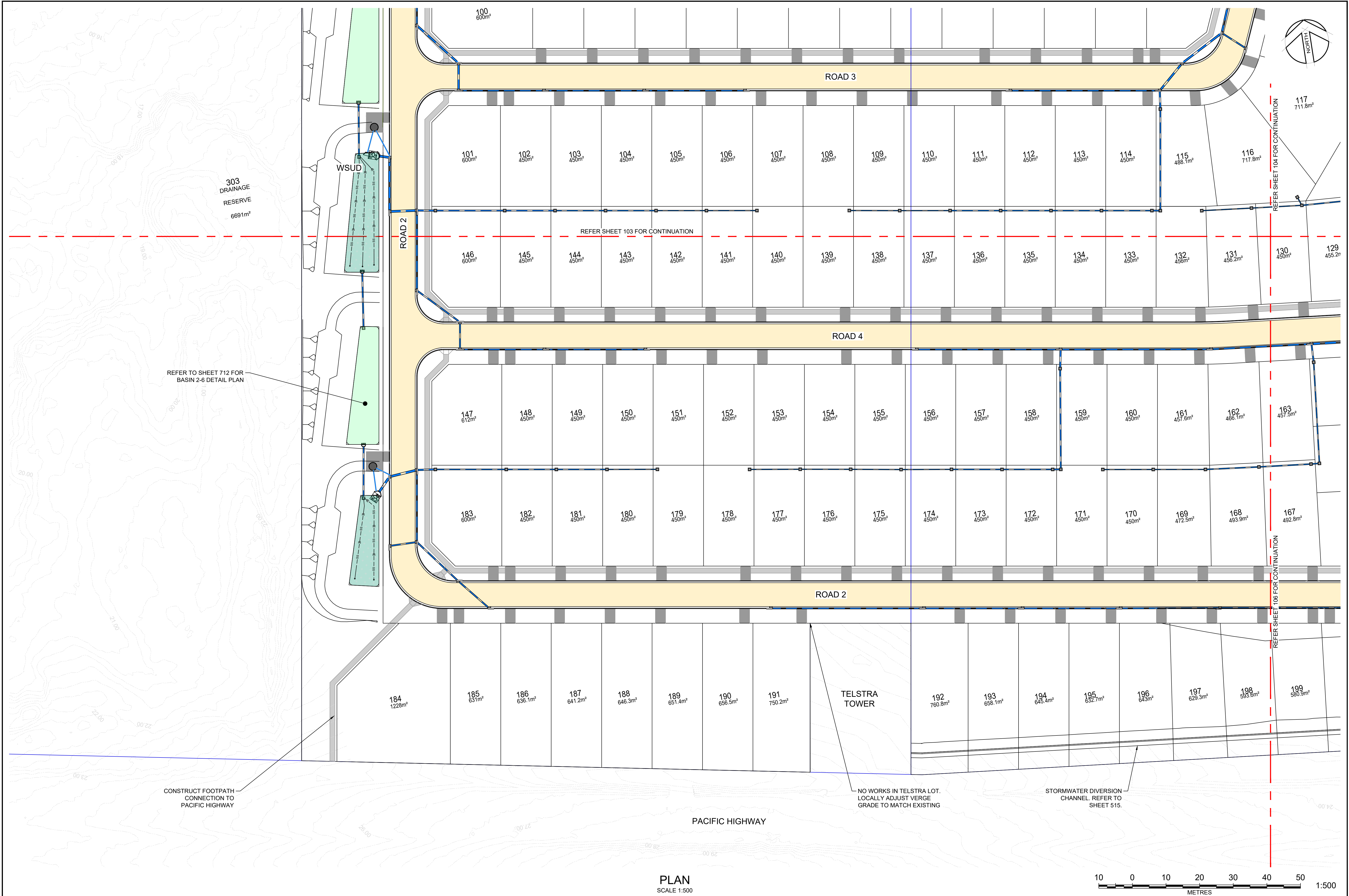
Plan No.
CC180099-07-103

File Ref.
CC180099

REV.
C



REV	AMENDMENT	ISSUED	DATE	 BARKER RYAN STEWART ENGINEERING PLANNING PROJECT MANAGEMENT SURVEYING CERTIFICATION	SYDNEY P: 02 9559 0005 CENTRAL COAST P: 02 4325 5255	HUNTER P: 02 4956 8388 S.E. QLD P: 07 5582 6555	Client:   URBAN LAND REDEVELOPMENT	285-325 PACIFIC HIGHWAY, LAKE MUNMORAH PROPOSED RESIDENTIAL SUBDIVISION	DETAIL ENGINEERING PLAN SHEET 4	Designed: JT Drawn: DKH Checked: SGB	Scales: Plan 1:500 @A1 Horiz. - Vert. - X-Sect. -	Datum: A.H.D.	Plan No. CC180099-07-104	File Ref. CC180099	REV. C
A	ISSUED FOR D.A.	SGB	03/11/2023												
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024												
C	REVISED FOR COUNCIL RFI	JT	11/03/2025												
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REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



SYDNEY
P: 02 9659 0005
CENTRAL COAST
P: 02 4325 5255

HUNTER
P: 02 4966 8388
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DETAIL ENGINEERING PLAN SHEET 5

Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan 1:500
@A1 Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-07-105

File Ref.
CC180099

REV.
C



PLAN
SCALE 1:500

REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



SYDNEY
P: 02 9659 0005
CENTRAL COAST
P: 02 4325 5255

HUNTER
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DETAIL ENGINEERING PLAN SHEET 6

Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan 1:500
@A1 Horiz. -
Vert. -
X-Sect. -

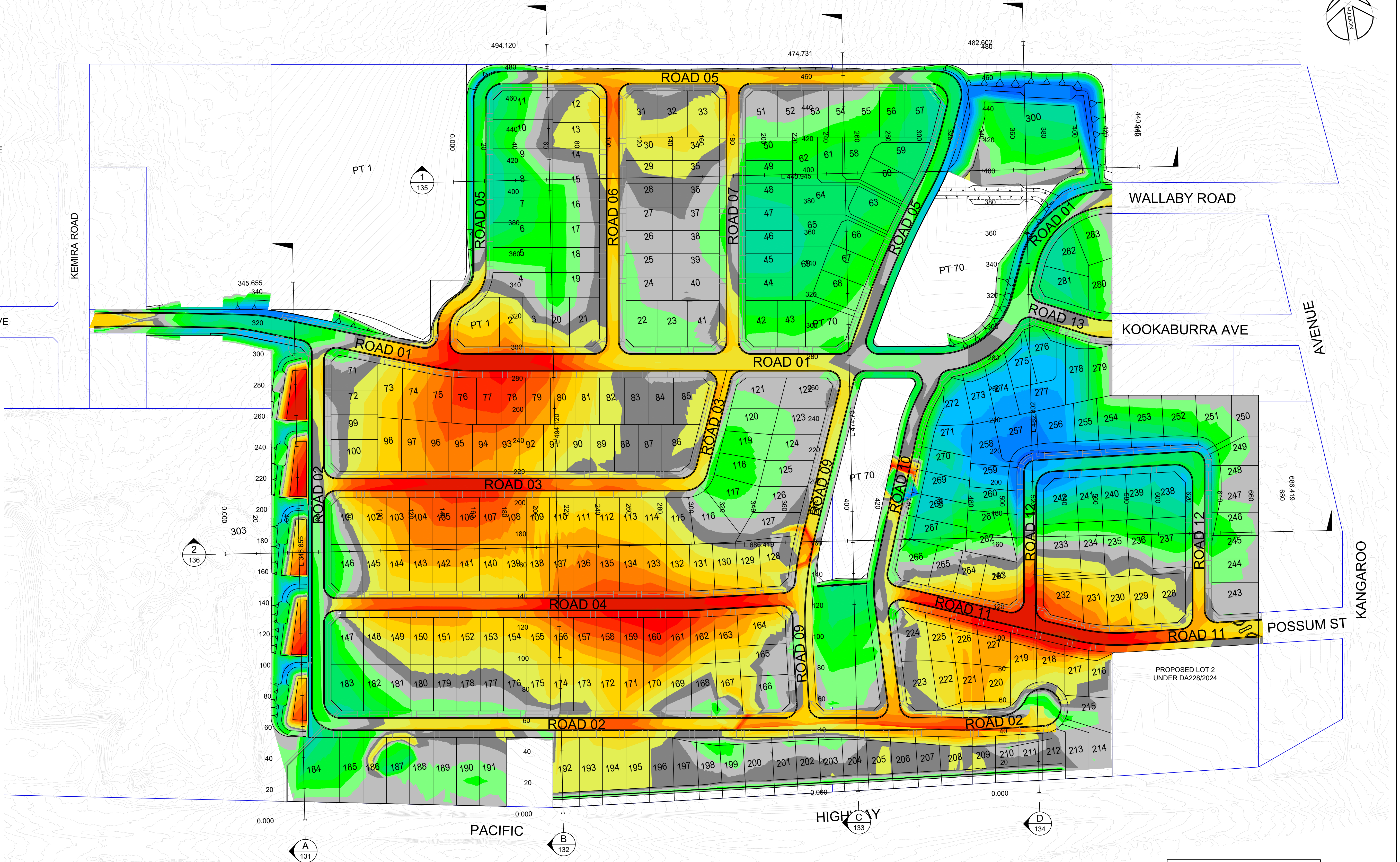
Datum: A.H.D.

Plan No.
CC180099-07-106

File Ref.
CC180099

REV.
C

DEPTH RANGE			Colour
Lower_value	Upper_value		
-6.0	to	-4.5	m
-4.5	to	-3.6	m
-3.6	to	-3	m
-3	to	-2.4	m
-2.4	to	-1.8	m
-1.8	to	-1.6	m
-1.6	to	-1.4	m
-1.4	to	-1.2	m
-1.2	to	-1.0	m
-1.0	to	-0.8	m
-0.8	to	-0.6	m
-0.6	to	-0.4	m
-0.4	to	-0.2	m
-0.2	to	0.0	m
0.0	to	0.2	m
0.2	to	0.4	m
0.4	to	0.6	m
0.6	to	0.8	m
0.8	to	1	m
1	to	1.2	m
1.2	to	1.4	m
1.4	to	1.6	m
1.6	to	1.8	m
1.8	to	2.4	m
2.4	to	3	m
3	to	3.6	m
3.6	to	4.5	m
4.5	to	6	m



BULK EARTHWORKS VOLUMES
CUT = +75,300m³
FILL = -72,300m³
NET = -3,000m³ (EXPORT)

- NOTES:
- INDICATIVE EARTHWORKS AS PRESENTED IS BASED UPON THE PREVIOUS REV B SITE GRADING.
 - FINAL SITE GRADING SUBJECT TO UPDATE AND DESIGN DEVELOPMENT.
 - PROVIDED VOLUMES FROM ASSUMED STRIPPED SURFACE (-100mm) TO ASSUMED BOXING LEVEL (-500mm).
 - NO BULKING FACTORS APPLIED.
 - EXCLUDES TRENCH SPOIL, ETC.
 - INDICATIVE ONLY AND SUBJECT TO FURTHER DESIGN.

PLAN
SCALE 1:1250

25 0 25 50 75 105 125
METRES
1:1250

REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



SYDNEY
P: 02 9659 0005
CENTRAL COAST
P: 02 4325 5255

HUNTER
P: 02 4966 8388
S.E. QLD
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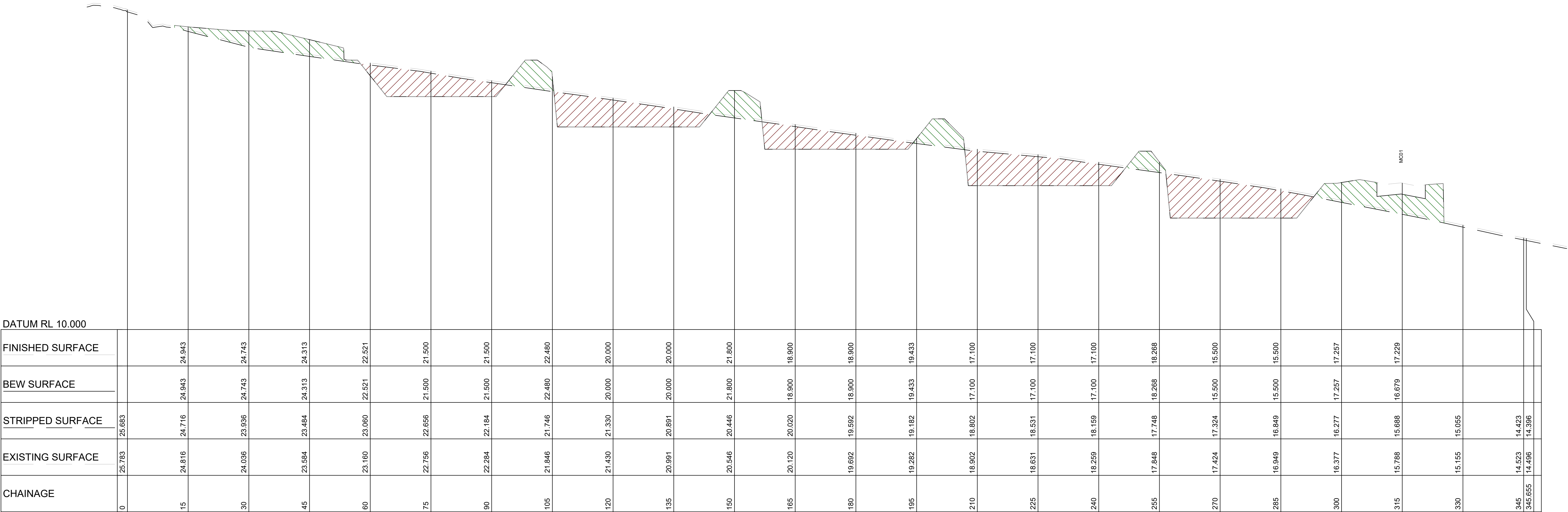
BULK EARTHWORKS PLAN

Designed: JT
Drawn: DKH
Checked: SGB

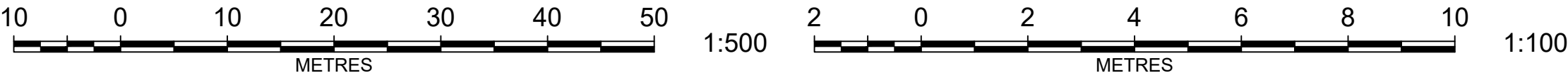
Scales: Plan 1:1250
@A1 Horiz. -
Vert. -
X-Sect. -
Datum: A.H.D.

Plan No.
CC180099-07-121
File Ref.
CC180099
REV.
C

- NOTES:
1. INDICATIVE EARTHWORKS AS PRESENTED IS BASED UPON THE PREVIOUS REV B SITE GRADING.
 2. FINAL SITE GRADING SUBJECT TO UPDATE AND DESIGN DEVELOPMENT.



A-A - LONGITUDINAL SECTION
HORZ SCALE 1:500
VERT SCALE 1:100



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



SYDNEY
P: 02 9659 0005
CENTRAL COAST
P: 02 4325 5255

HUNTER
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BULK EARTHWORKS LONGITUDINAL SECTIONS SHEET 1

Designed: JT
Drawn: DKH
Checked: SGB

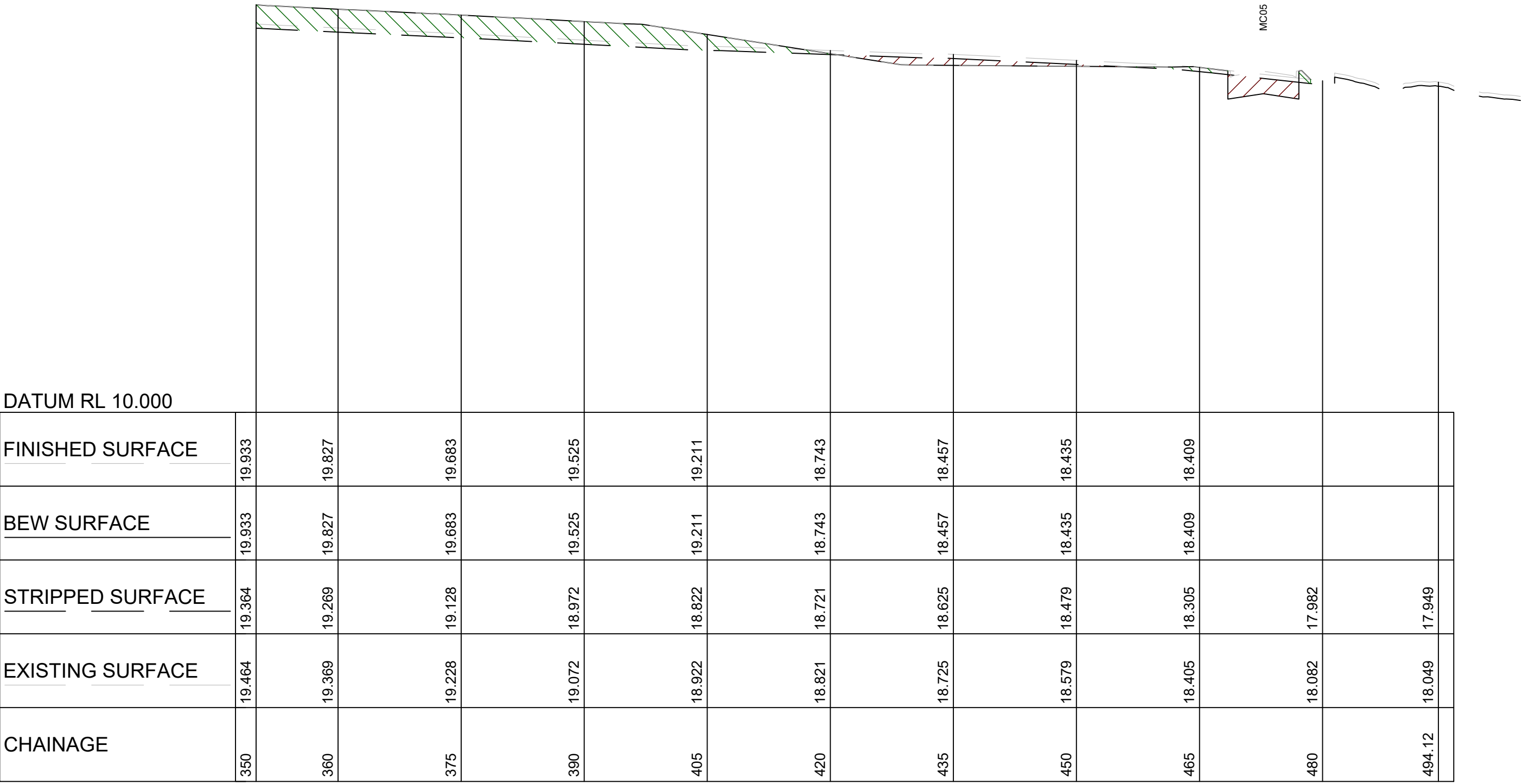
Scales: Plan -
@A1 Horiz. 1:500
Vert. 1:100
X-Sect. -

Datum: A.H.D.

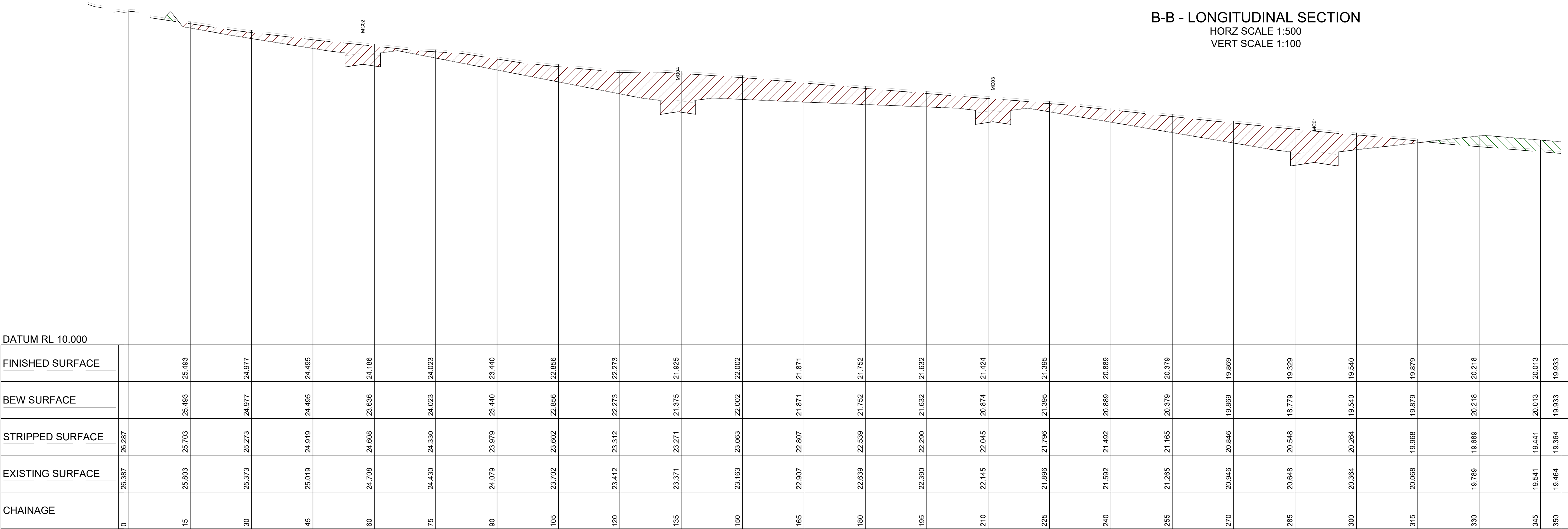
Plan No.
CC180099-07-131
File Ref.
CC180099

REV.
C

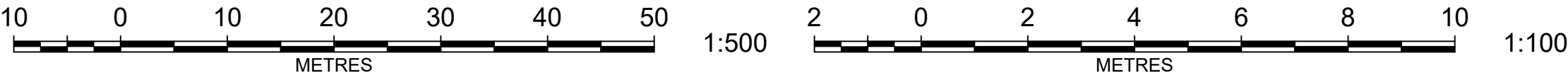
- NOTES:
1. INDICATIVE EARTHWORKS AS PRESENTED IS BASED UPON THE PREVIOUS REV B SITE GRADING.
 2. FINAL SITE GRADING SUBJECT TO UPDATE AND DESIGN DEVELOPMENT.



B-B - LONGITUDINAL SECTION
HORZ SCALE 1:500
VERT SCALE 1:100



B-B - LONGITUDINAL SECTION
HORZ SCALE 1:500
VERT SCALE 1:100



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



SYDNEY
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BULK EARTHWORKS LONGITUDINAL SECTIONS SHEET 2

Designed: JT
Drawn: DKH
Checked: SGB

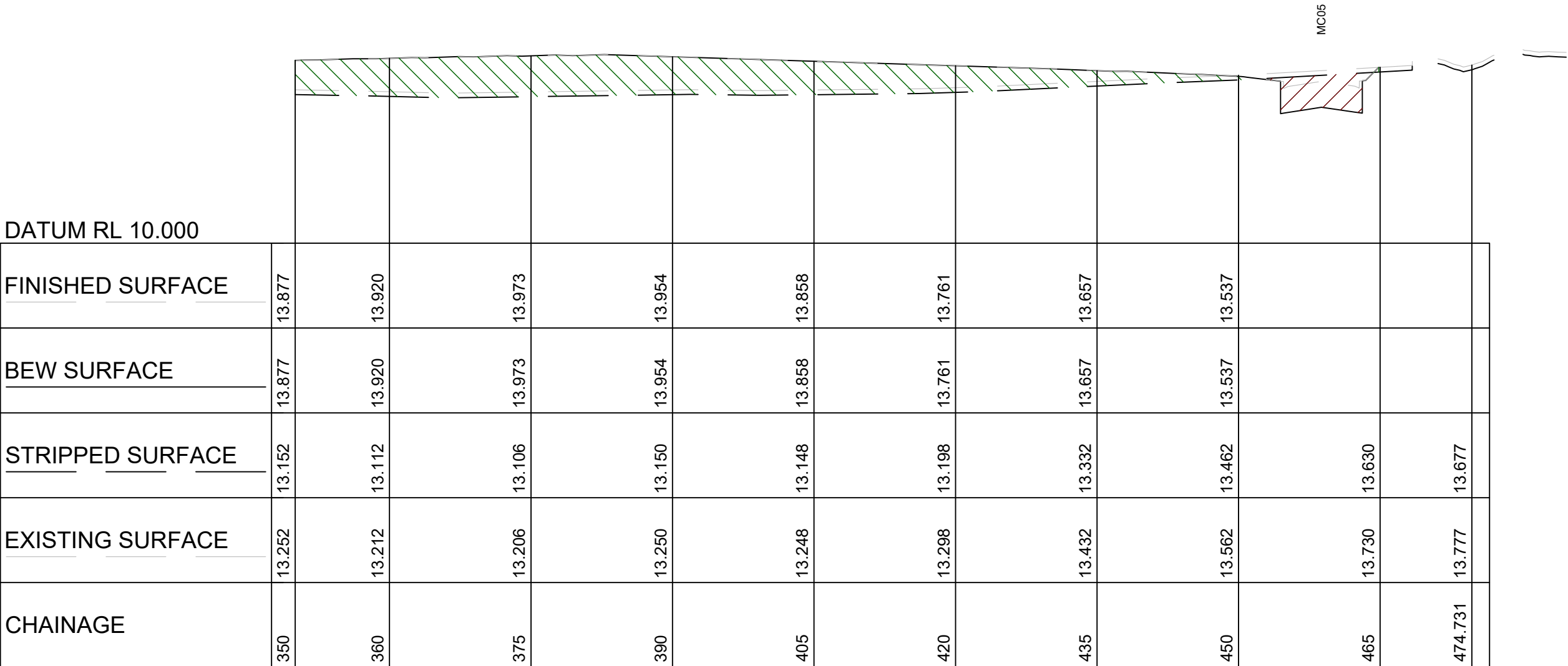
Scales: Plan -
Horiz. 1:500
Vert. 1:100
X-Sect. -

Datum: A.H.D.

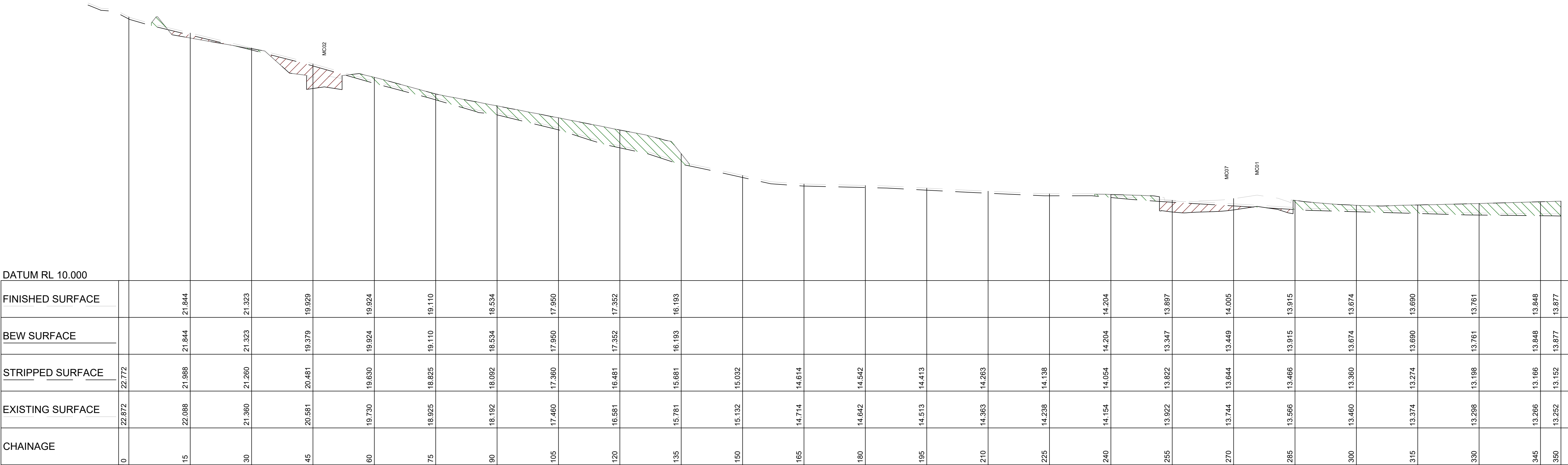
Plan No.
CC180099-07-132
File Ref.
CC180099

REV.
C

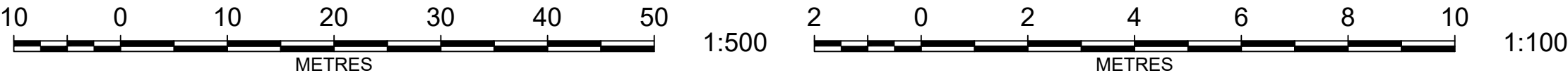
- NOTES:
1. INDICATIVE EARTHWORKS AS PRESENTED IS BASED UPON THE PREVIOUS REV B SITE GRADING.
 2. FINAL SITE GRADING SUBJECT TO UPDATE AND DESIGN DEVELOPMENT.



C-C - LONGITUDINAL SECTION
HORZ SCALE 1:500
VERT SCALE 1:100



C-C - LONGITUDINAL SECTION
HORZ SCALE 1:500
VERT SCALE 1:100



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



SYDNEY
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PROPOSED RESIDENTIAL SUBDIVISION

BULK EARTHWORKS LONGITUDINAL SECTIONS SHEET 3

Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan -
@A1 Horiz. 1:500
Vert. 1:100
X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-07-133

File Ref.
CC180099

REV.
C

- | DATUM RL 10.000 | |
|------------------|---------|
| FINISHED SURFACE | 12.491 |
| BEW SURFACE | 11.941 |
| STRIPPED SURFACE | 10.947 |
| EXISTING SURFACE | 11.047 |
| CHAINAGE | 350 |
| | 360 |
| | 375 |
| | 390 |
| | 405 |
| | 420 |
| | 435 |
| | 450 |
| | 465 |
| | 480 |
| | 482.602 |

CHAINAGE		EXISTING SURFACE	STRIPPED SURFACE	BEW SURFACE	FINISHED SURFACE
0	23.930	23.830			
15	23.352	23.252	23.592	23.592	23.592
30	22.652	22.552	22.599	22.599	22.599
45	22.141	22.041	21.609	21.609	22.159
60	21.606	21.506	22.108	22.108	22.108
75	21.143	21.043	20.593	20.593	20.593
90	20.712	20.612	19.637	19.637	19.637
105	20.056	19.956	17.591	17.591	18.141
120	19.465	19.365	17.165	17.165	17.715
135	18.871	18.771	17.162	17.162	17.712
150	18.262	18.162	17.247	17.247	17.797
165	17.663	17.563	17.332	17.332	17.882
180	17.057	16.957	17.418	17.418	17.967
195	16.478	16.378	17.503	17.503	18.053
210	15.902	15.802	17.467	17.467	18.017
225	15.359	15.259	17.217	17.217	17.217
240	14.812	14.712	16.530	16.530	16.530
255	14.330	14.230	15.873	15.873	15.873
270	13.745	13.752	15.250	15.250	15.250
285	13.217	13.274	14.669	14.669	14.669
300	12.695	12.727	13.487	13.487	13.487
315	12.198	12.251	12.512	12.512	13.059
330	11.708	11.768	12.180	12.180	12.730
345	11.210	11.110	11.957	11.957	12.510
350	11.047	10.947	11.941	11.941	12.491

10 0 10 20 30 40 50
METRES

1:500

2 0 2 4 6 8 10
METRES

1:100

REV	AMENDMENT	ISSUED	DATE	 BARKER RYAN STEWART SYDNEY P: 02 9659 0005 CENTRAL COAST P: 02 4325 5255 HUNTER P: 02 4966 8388 S.E. QLD P: 07 5562 6555 www.brs.com.au mail@brs.com.au ABN: 26 134 067 842 ©2019	Client:   URBAN LAND REDEVELOPMENT	285-325 PACIFIC HIGHWAY, LAKE MUNMORAH PROPOSED RESIDENTIAL SUBDIVISION BULK EARTHWORKS LONGITUDINAL SECTIONS SHEET 4	Designed: JT Drawn: DKH Checked: SGB Scales: Plan - @A1 Horiz. 1:500 Vert. 1:100 X-Sept. - Datum: A.H.D.	Plan No. CC180099-07-134 File Ref. CC180099 REV. C
A	ISSUED FOR D.A.	SGB	03/11/2023					
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024					
C	REVISED FOR COUNCIL RFI	JT	11/03/2025					

- | DATUM RL 10.000 | | | | | | | | | |
|------------------|-------|-------|-------|-------|-------|--------|--------|---------|--|
| FINISHED SURFACE | | | | | | 9.761 | | | |
| BEW SURFACE | 9.600 | 9.600 | 9.600 | 9.600 | 9.600 | 9.761 | | | |
| STRIPPED SURFACE | 9.291 | 9.348 | 9.313 | 9.442 | 9.794 | 10.255 | 10.637 | 10.741 | |
| EXISTING SURFACE | 9.391 | 9.448 | 9.413 | 9.542 | 9.894 | 10.355 | 10.737 | 10.841 | |
| CHAINAGE | 350 | 360 | 375 | 390 | 405 | 420 | 435 | 440.945 | |

CHAINAGE		EXISTING SURFACE	STRIPPED SURFACE	BEW SURFACE	FINISHED SURFACE
0		16.997	16.897		
15		17.608	17.508	18.227	18.776
30		18.054	17.954	19.003	19.003
45		18.501	18.401	19.193	19.193
60		18.922	18.822	19.163	19.163
75		18.814	18.714	19.002	19.002
90		18.698	18.598	18.495	18.495
105		18.534	18.434	17.622	18.172
120		18.371	18.271	18.136	18.136
135		18.060	17.960	17.767	17.767
150		17.704	17.604	17.398	17.398
165		17.078	16.978	17.029	17.029
180		16.466	16.366	16.203	16.753
195		15.858	15.758	16.550	16.550
210		15.181	15.081	15.852	15.852
225		14.502	14.402	15.154	15.154
240		13.815	13.715	14.456	14.456
255		13.095	12.995	13.758	13.758
270		12.418	12.318	13.060	13.060
285		11.793	11.693	12.493	12.493
300		11.175	11.075	12.045	12.045
315		10.543	10.443	11.922	11.922
330		9.949	9.849	9.961	9.961
345		9.518	9.418	9.600	9.600
350		9.391	9.291	9.600	

REV	AMENDMENT		ISSUED	DATE	 BARKER RYAN STEWART SYDNEY P: 02 9659 0005 CENTRAL COAST P: 02 4325 5255 HUNTER P: 02 4966 8388 S.E. QLD P: 07 5582 6555 www.brs.com.au mail@brs.com.au ENGINEERING PLANNING PROJECT MANAGEMENT SURVEYING CERTIFICATION AS/NZS 1546:2019 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> 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- NOTES:
1. INDICATIVE EARTHWORKS AS PRESENTED IS BASED UPON THE PREVIOUS REV B SITE GRADING.
 2. FINAL SITE GRADING SUBJECT TO UPDATE AND DESIGN DEVELOPMENT.

DATUM RL 10.000

FINISHED SURFACE	16.798		16.394	16.000		15.567	15.832	16.828		17.015	17.202		17.389		18.033	18.039	18.288		18.609	18.929	19.249		19.570		19.909		19.858		19.567		19.245			
BEW SURFACE	16.798		16.394	15.450		15.567	15.832	16.828		17.015	17.202		17.389		18.033	18.039	18.288		18.609	18.929	19.249		19.570		19.909		19.175	19.858	19.567		19.245			
STRIPPED SURFACE	16.966	16.485		16.521	15.297		15.115		15.644	15.832	16.001	16.828		16.361	17.015	17.701	18.002	18.288	18.304	18.552	18.755	19.249		18.950	19.570	19.146	19.194		19.097		19.012	19.245	18.894	18.653
EXISTING SURFACE	17.066	16.585		16.621	15.397		15.215		15.744	15.832	16.101	16.828		16.461	16.361	17.015	18.102	18.288	18.404	18.652	18.855	19.249		19.050	18.950	19.246	19.294		19.197		19.112	19.245	18.994	18.753
CHAINAGE	350	360	375	390	405	420	435	450	465	480	495	510	525	540	555	570	585	600	615	630	645	660	675	686.419										

2-2 - LONGITUDINAL SECTION

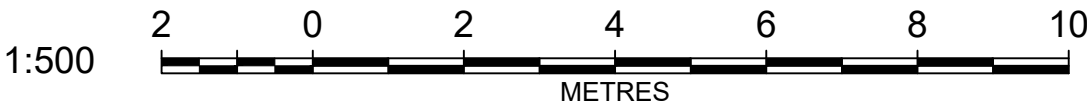
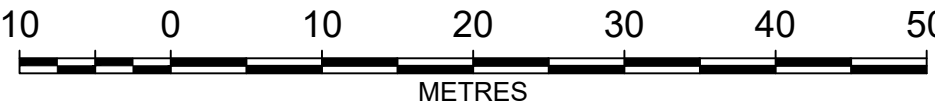
HORZ SCALE 1:500
VERT SCALE 1:100

DATUM RL 10.000

FINISHED SURFACE																																	
BEW SURFACE																																	
STRIPPED SURFACE	20.153	19.574																															
EXISTING SURFACE	20.253	19.674																															
CHAINAGE	0																																
		15																															
			30	19.240	19.140	19.331	19.331	19.331	18.900	18.900	21.197	21.336	21.336	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798
			45	19.822	19.722	18.900	18.900	18.900	20.647	20.647	21.336	21.336	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			60	20.406	20.306	20.647	20.647	20.647	21.336	21.336	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			75	21.037	20.937	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			90	21.654	21.554	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			105	22.126	22.026	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			120	22.635	22.535	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			135	22.875	22.775	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			150	23.112	23.012	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			165	23.173	23.073	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			180	23.172	23.072	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			195	23.015	22.915	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			210	22.853	22.753	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			225	22.554	22.454	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			240	22.042	21.942	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			255	21.383	21.283	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			270	20.717	20.617	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			285	19.947	19.847	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			300	19.176	19.076	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			315	18.471	18.371	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			330	17.832	17.732	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			345	17.276	17.176	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	
			350	17.066	16.966	21.336	21.336	21.336	21.300	21.300	21.300	21.300	21.300	21.300	21.355	21.567	21.780	21.993	22.167	22.214	22.131	21.929	21.543	21.032	20.432	19.832	19.260	18.739	18.196	17.607	17.000	16.798	

2-2 - LONGITUDINAL SECTION

HORZ SCALE 1:500
VERT SCALE 1:100



1:100

REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



SYDNEY
P: 02 9659 0005
CENTRAL COAST
P: 07 5582 6555

HUNTER
P: 02 4966 8388
S.E. QLD
P: 07 5582 6555

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Client:



285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION

BULK EARTHWORKS LONGITUDINAL SECTIONS SHEET 6

Designed: JT
Drawn: DKH
Checked: SGB

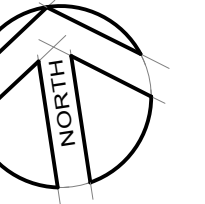
Scales: Plan -
@A1 Horiz. 1:500
Vert. 1:100
X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-07-136

File Ref.
CC180099

REV.
C



SLOPE ANALYSIS				
Lower_value	Upper_value	Colour		
0	to 5	%		
5	to 10	%		
10	to 15	%		
15	to 20	%		
15	to 100	%		

- NOTES:
- INDICATIVE LOT GRADES AS PRESENTED IS BASED UPON THE PREVIOUS REV B SITE GRADING.
 - FINAL SITE GRADING SUBJECT TO UPDATE AND DESIGN DEVELOPMENT.

PLAN
SCALE 1:1250



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



SYDNEY
P: 02 9659 0005
CENTRAL COAST
P: 02 4326 5255

HUNTER
P: 02 4966 8388
S.E. QLD
P: 07 5582 6555

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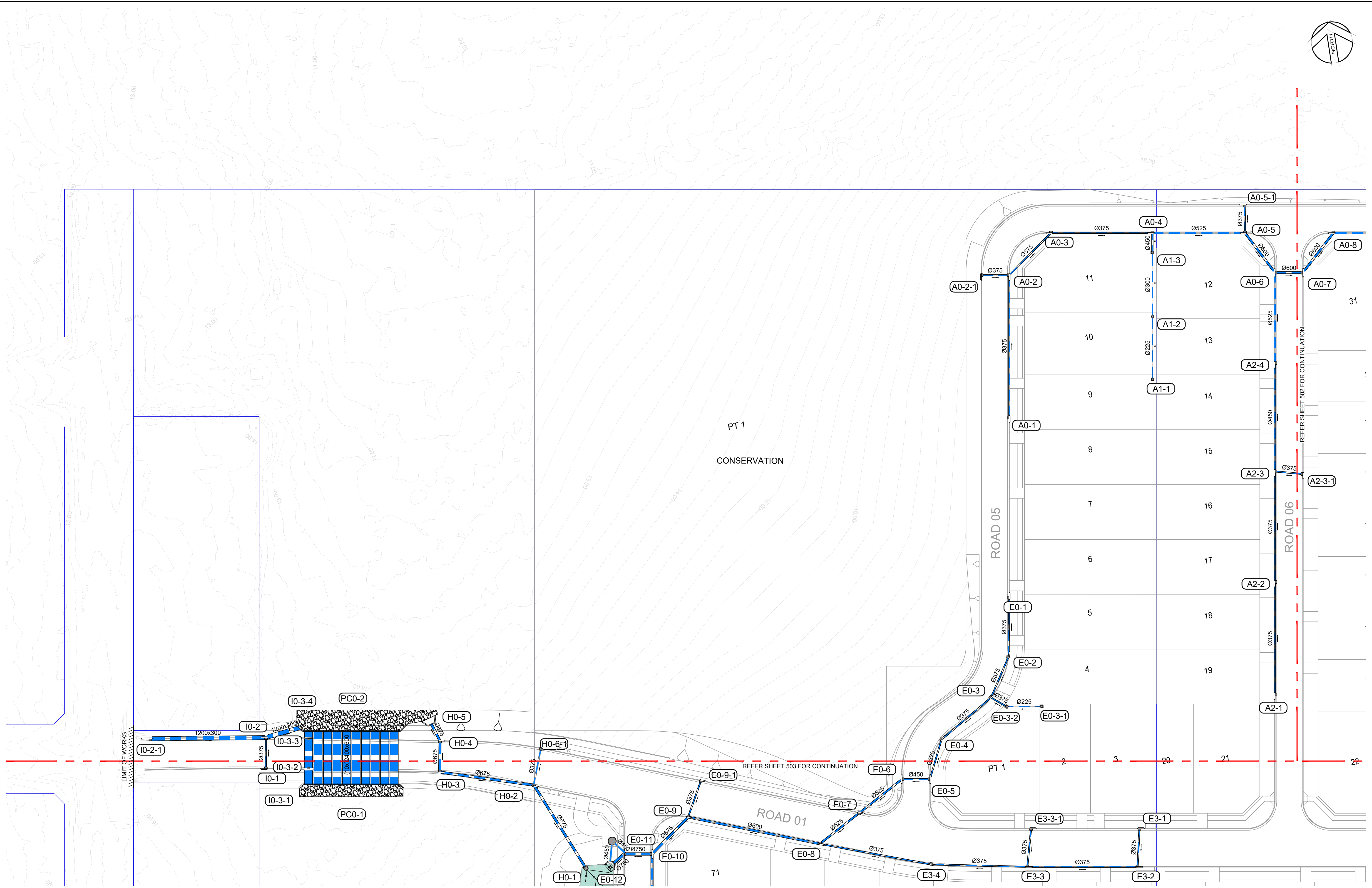
285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION

LOT GRADING PLAN

Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan 1:1250
@A1 Horiz. -
Vert. -
X-Sept. -
Datum: A.H.D.

Plan No.
CC180099-07-151
File Ref.
CC180099
REV.
C



PLAN
SCALE 1:500

REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



**BARKER
RYAN
STEWART**

SYDNEY
P: 02 9659 0005
CENTRAL COAST
P: 02 4325 5255

HUNTER
P: 02 4966 8388
S.E. QLD
P: 07 5582 6555

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Client:



285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION

DRAINAGE PLAN SHEET 1

Designed: JT

Drawn: DKH

Checked: SGB

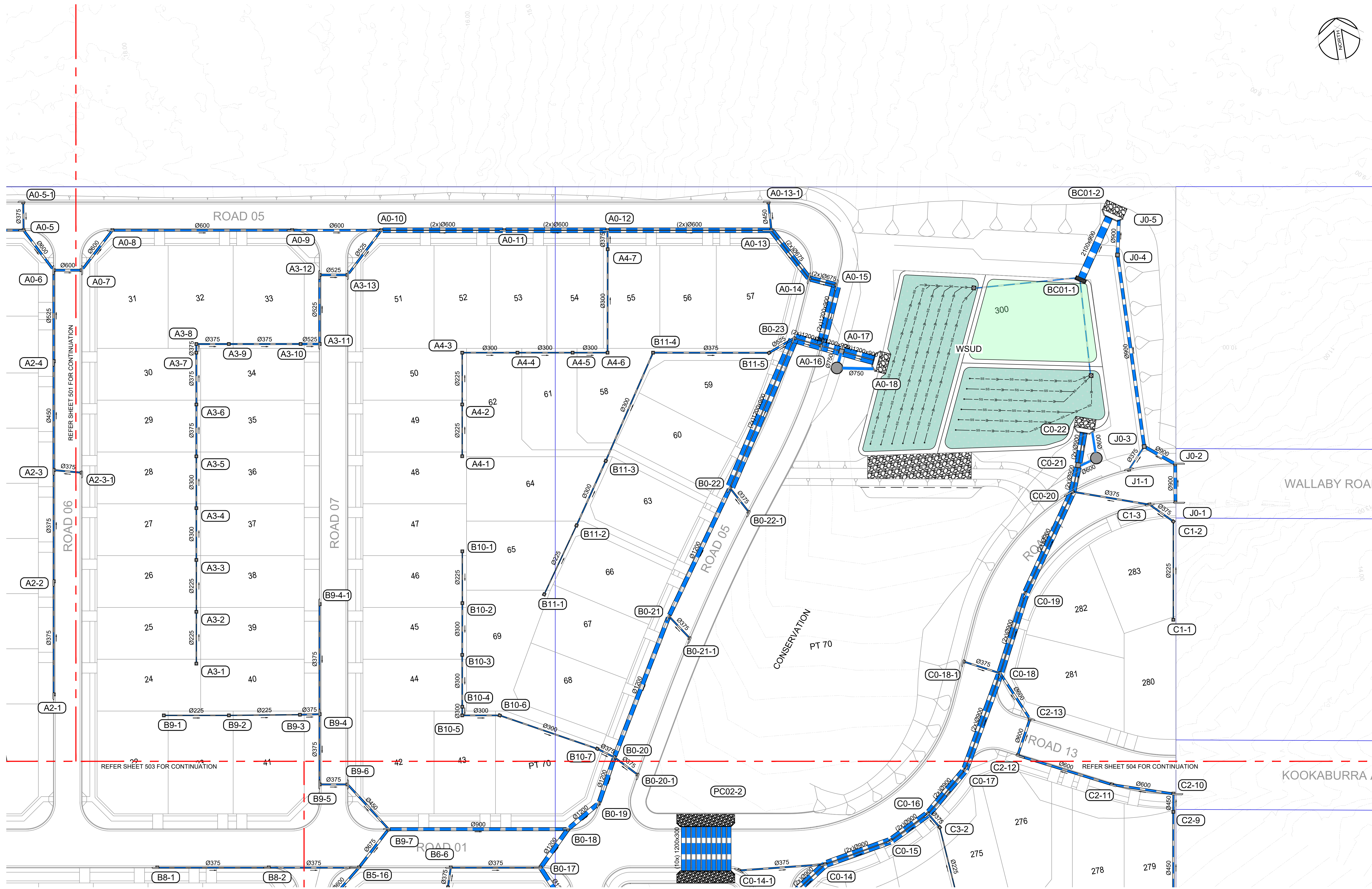
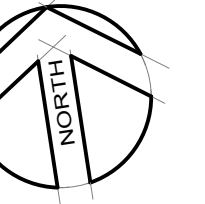
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@A1 Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-07-511

File Ref.
CC180099

REV.
C



PLAN
SCALE 1:500



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



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RYAN
STEWART**

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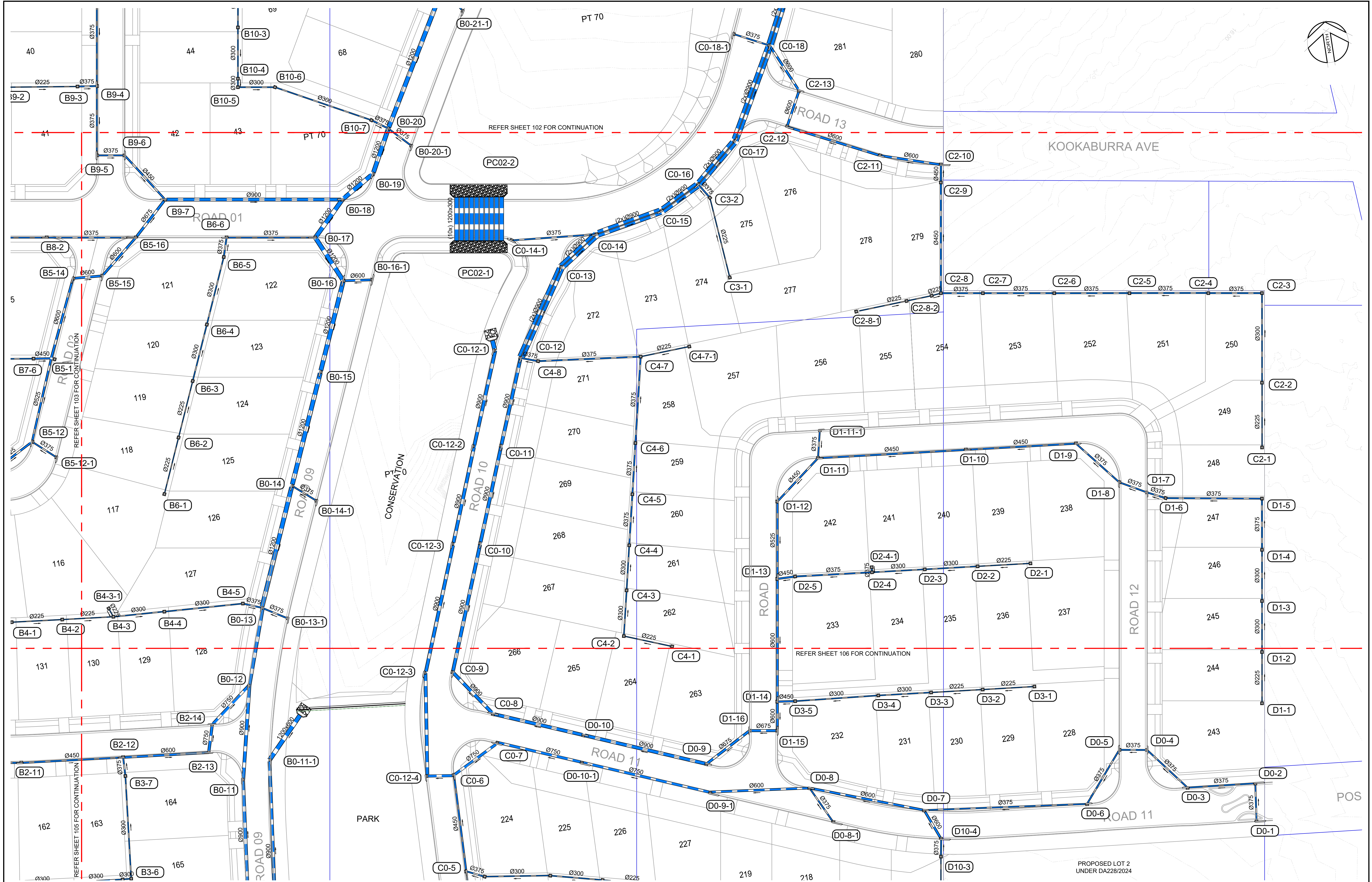
DRAINAGE PLAN SHEET 2

Designed:	JT	Scales:	Plan	1:500
Drawn:	DKH		@A1 Horiz.	-
Checked:	SGB		Vert.	-
			X-Sect.	-
		Datum:	A.H.D.	

Plan No.
CC180099-07-512

File Ref.
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PLAN
SCALE 1:500

REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
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DRAINAGE PLAN SHEET 4

Designed: JT
Drawn: DKH
Checked: SGB

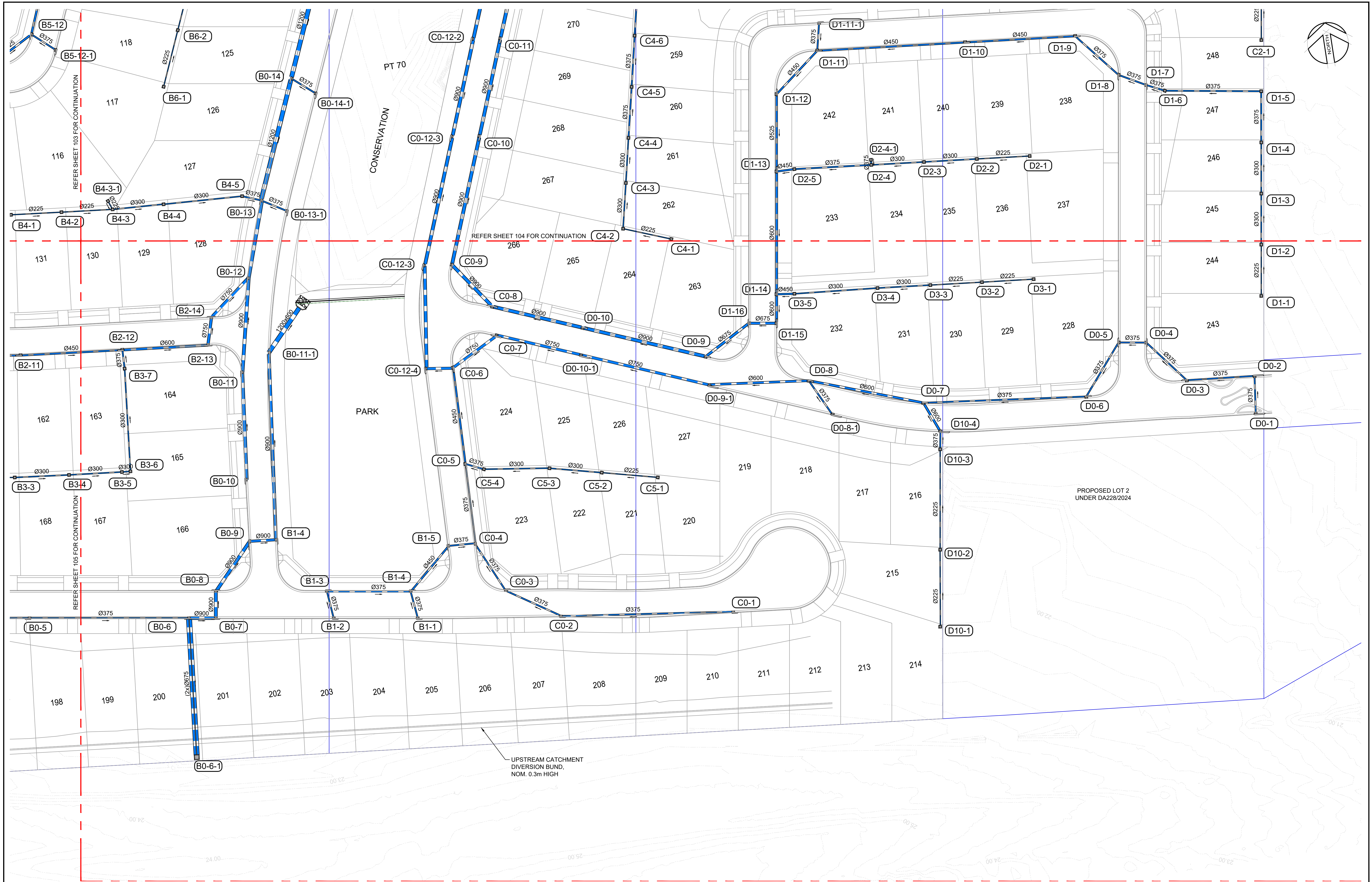
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@A1 Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

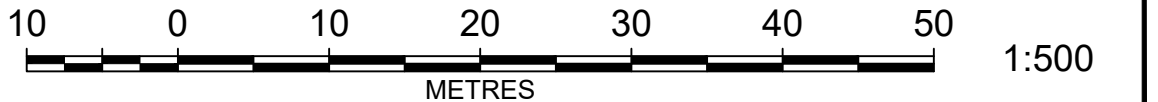
Plan No.
CC180099-07-514

File Ref.
CC180099

REV.
C



PLAN
SCALE 1:500



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
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C	REVISED FOR COUNCIL RFI	JT	11/03/2025



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DRAINAGE PLAN SHEET 6

Designed: JT
Drawn: DKH
Checked: SGB

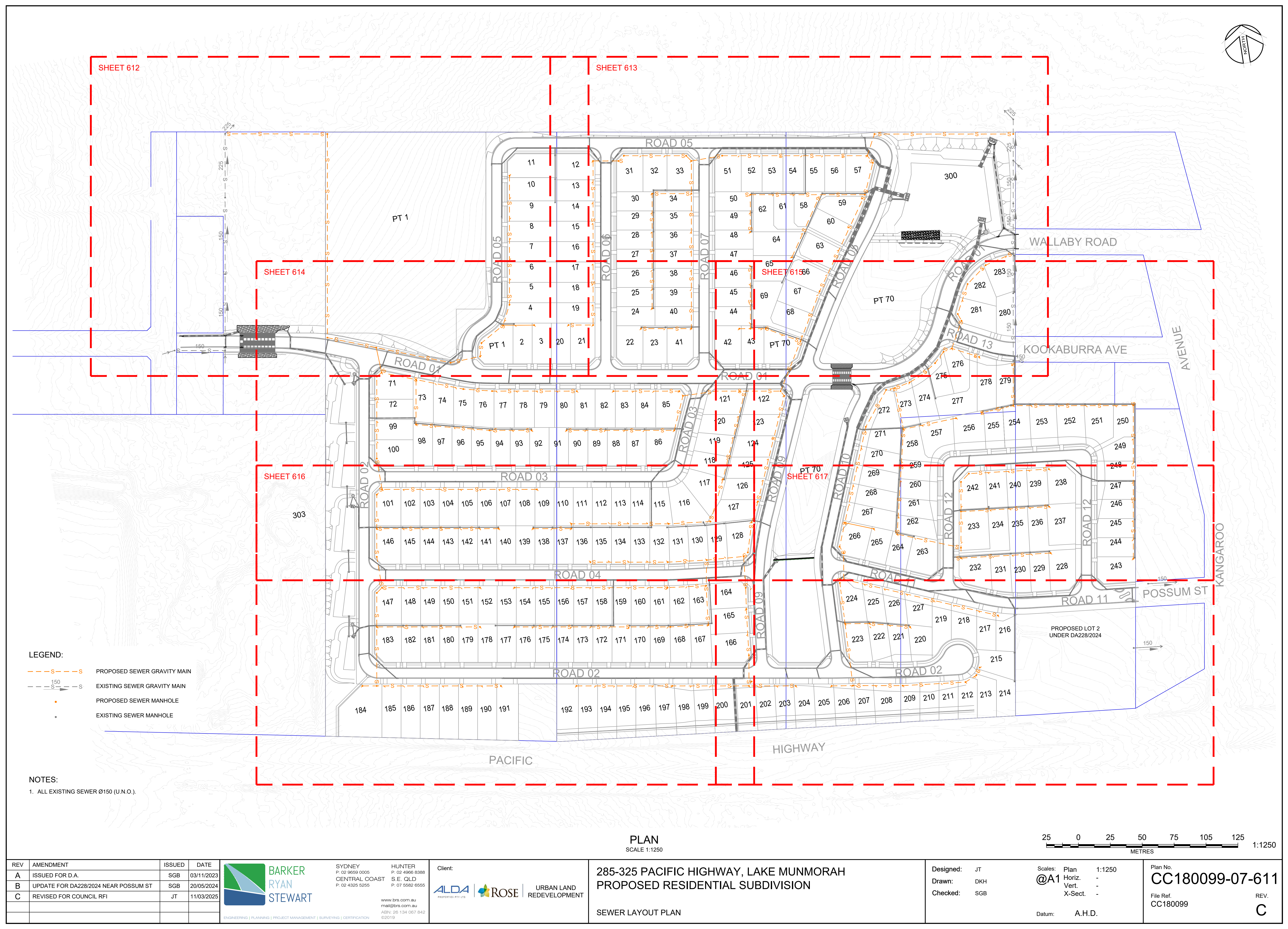
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X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-07-516

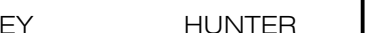
File Ref.
CC180099

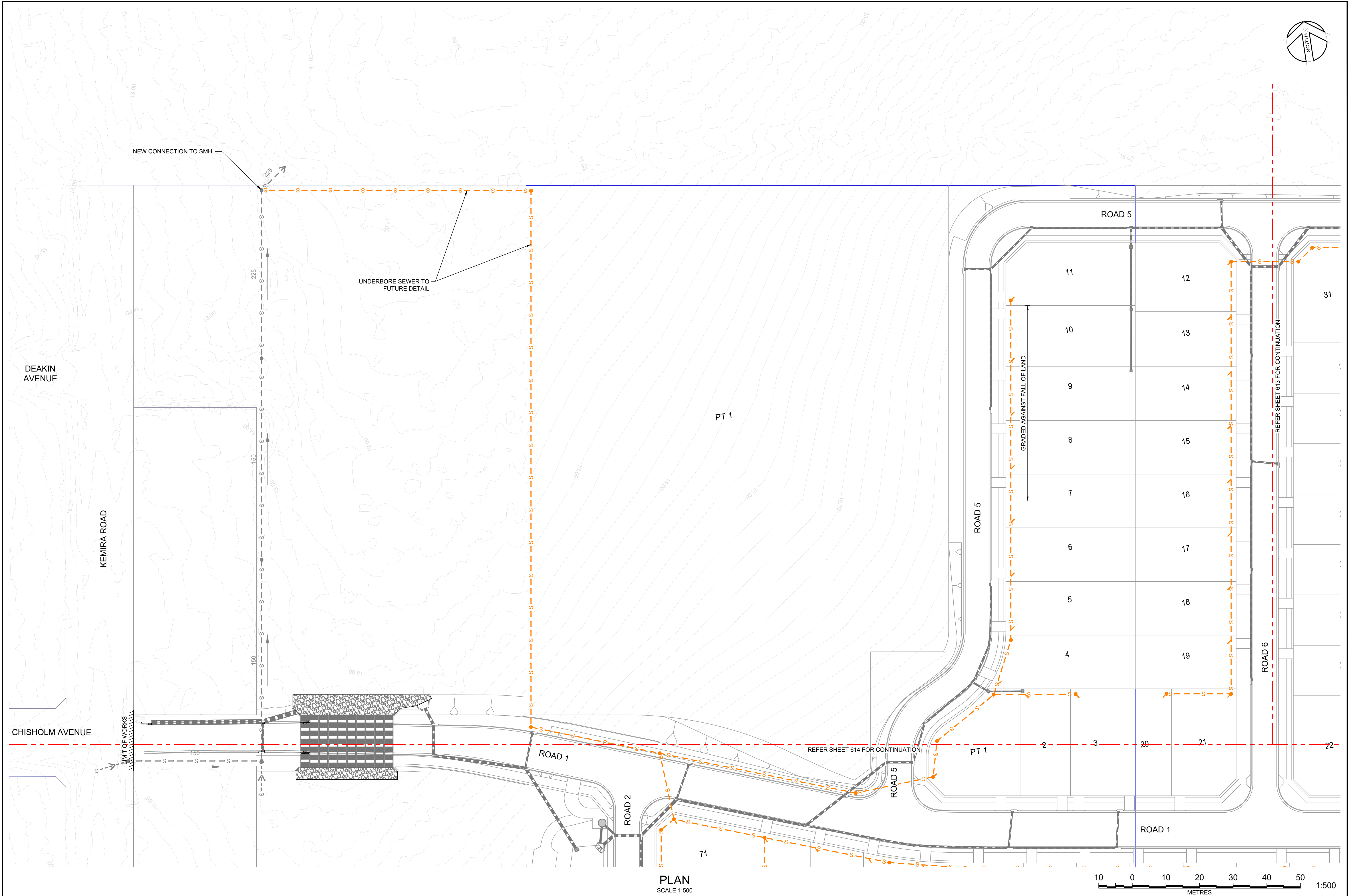
REV.
C



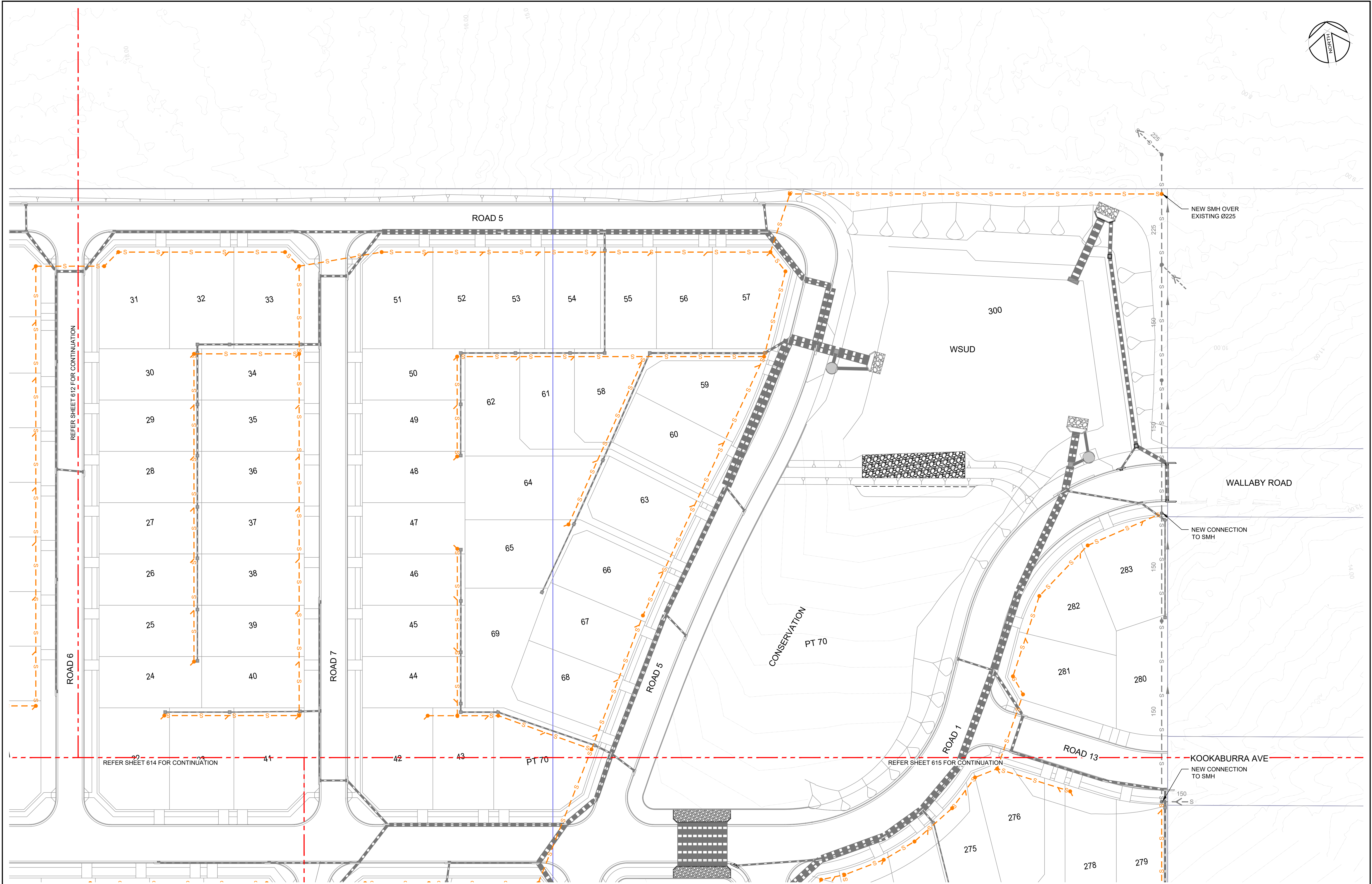
PROPOSED SEWER GRAVITY MAIN
 EXISTING SEWER GRAVITY MAIN
 PROPOSED SEWER MANHOLE
 EXISTING SEWER MANHOLE

1. ALL EXISTING SEWER Ø150 (U.N.O.).

REV	AMENDMENT	ISSUED	DATE	 BARKER RYAN STEWART ENGINEERING PLANNING PROJECT MANAGEMENT SURVEYING CERTIFICATION		SYDNEY P: 02 8659 0005 CENTRAL COAST P: 02 4325 5255 www.brs.com.au mail@brs.com.au ABN: 26 134 067 842 ©2019	HUNTER P: 02 4566 8388 S.E. QLD P: 07 5582 6555	Client:   URBAN LAND REDEVELOPMENT	285-325 PACIFIC HIGHWAY, LAKE MUNMORAH PROPOSED RESIDENTIAL SUBDIVISION SEWER LAYOUT PLAN	Designed: JT Drawn: DKH Checked: SGB	Scales: Plan 1:1250 @A1 Horiz. - Vert. - X-Sept. - Datum: A.H.D.	Plan No. CC180099-07-611 File Ref. CC180099 REV. C
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REV	AMENDMENT	ISSUED	DATE	 BARKER RYAN STEWART	SYDNEY P: 02 9559 0005 CENTRAL COAST P: 02 4325 5255	HUNTER P: 02 4966 8388 S.E. QLD P: 07 5582 6555	Client:   URBAN LAND REDEVELOPMENT	285-325 PACIFIC HIGHWAY, LAKE MUNMORAH PROPOSED RESIDENTIAL SUBDIVISION	SEWER DETAIL PLAN SHEET 1	Designed: JT Drawn: DKH Checked: SGB	Scales: Plan 1:500 @A1 Horiz. - Vert. - X-Sept. - Datum: A.H.D.	Plan No. CC180099-07-612 File Ref. CC180099 REV. C
A	ISSUED FOR D.A.	SGB	03/11/2023									
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024									
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SEWER DETAIL PLAN SHEET 2

Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan 1:500
@A1 Horiz. -
Vert. -
X-Sect. -

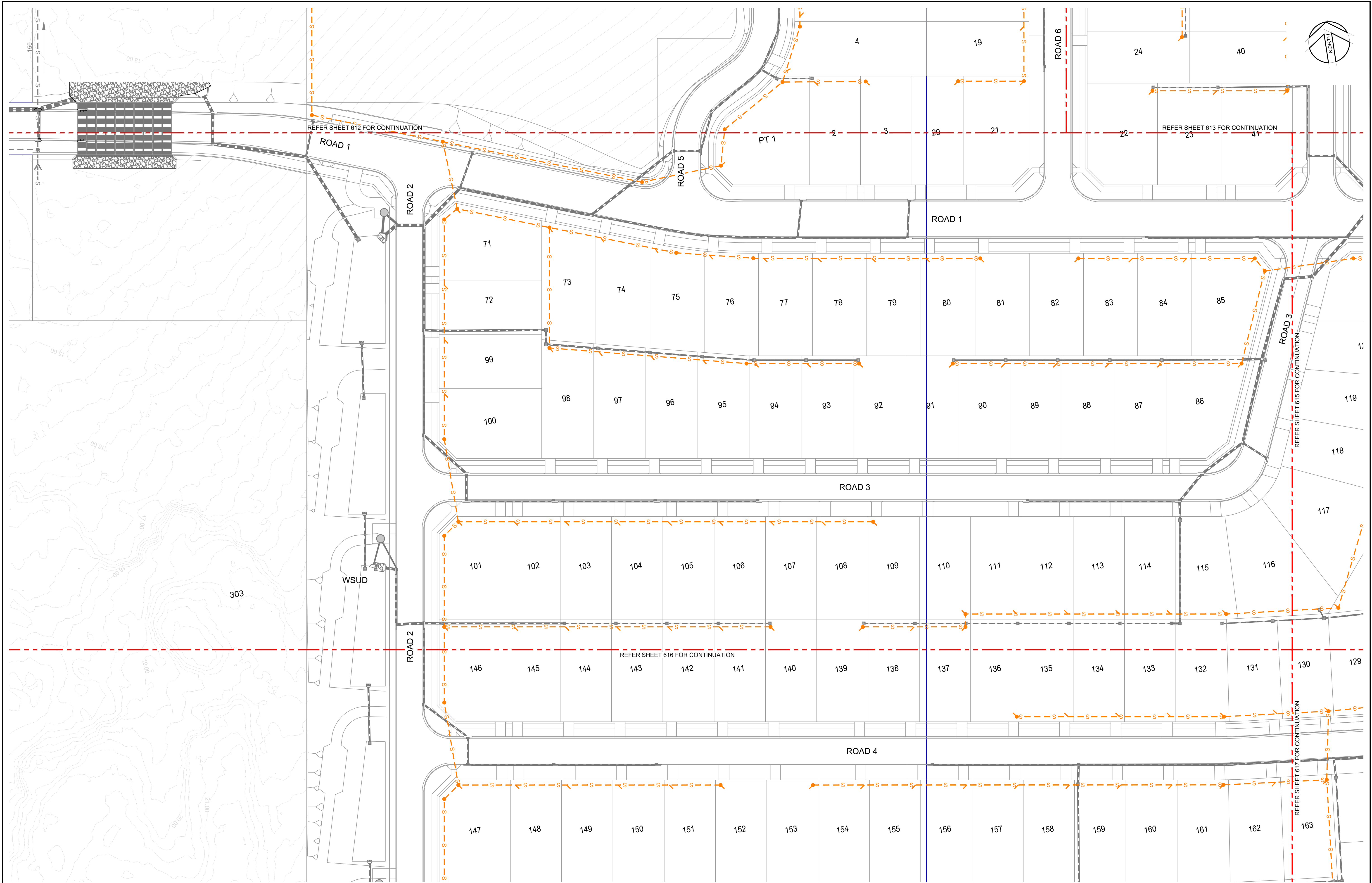
Datum: A.H.D.

Plan No.
CC180099-07-613

File Ref.
CC180099

REV.

C



PLAN
SCALE 1:500



REV	AMENDMENT	ISSUED	DATE
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SEWER DETAIL PLAN SHEET 3

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Drawn: DKH
Checked: SGB

Scales: Plan 1:500
@A1 Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-07-614

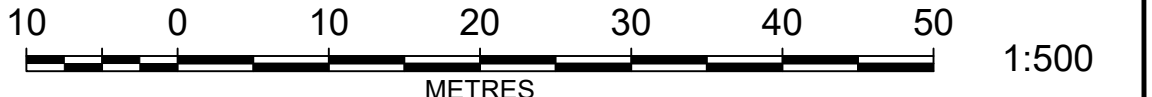
File Ref.
CC180099

REV.

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PLAN
SCALE 1:500



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
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SEWER DETAIL PLAN SHEET 4

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Scales: Plan 1:500
@A1 Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No.
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File Ref.
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PLAN
SCALE 1:500



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A	ISSUED FOR D.A.	SGB	03/11/2023
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ALDA

ROSE

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SEWER DETAIL PLAN SHEET 5

Designed: JT
Drawn: DKH
Checked: SGB

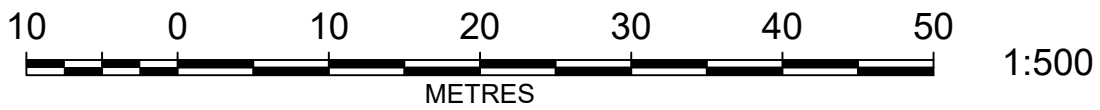
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Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-07-616
File Ref.
CC180099
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PLAN
SCALE 1:500



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
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SEWER DETAIL PLAN SHEET 6

Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan 1:500
@A1 Horiz. -
Vert. -
X-Sect. -

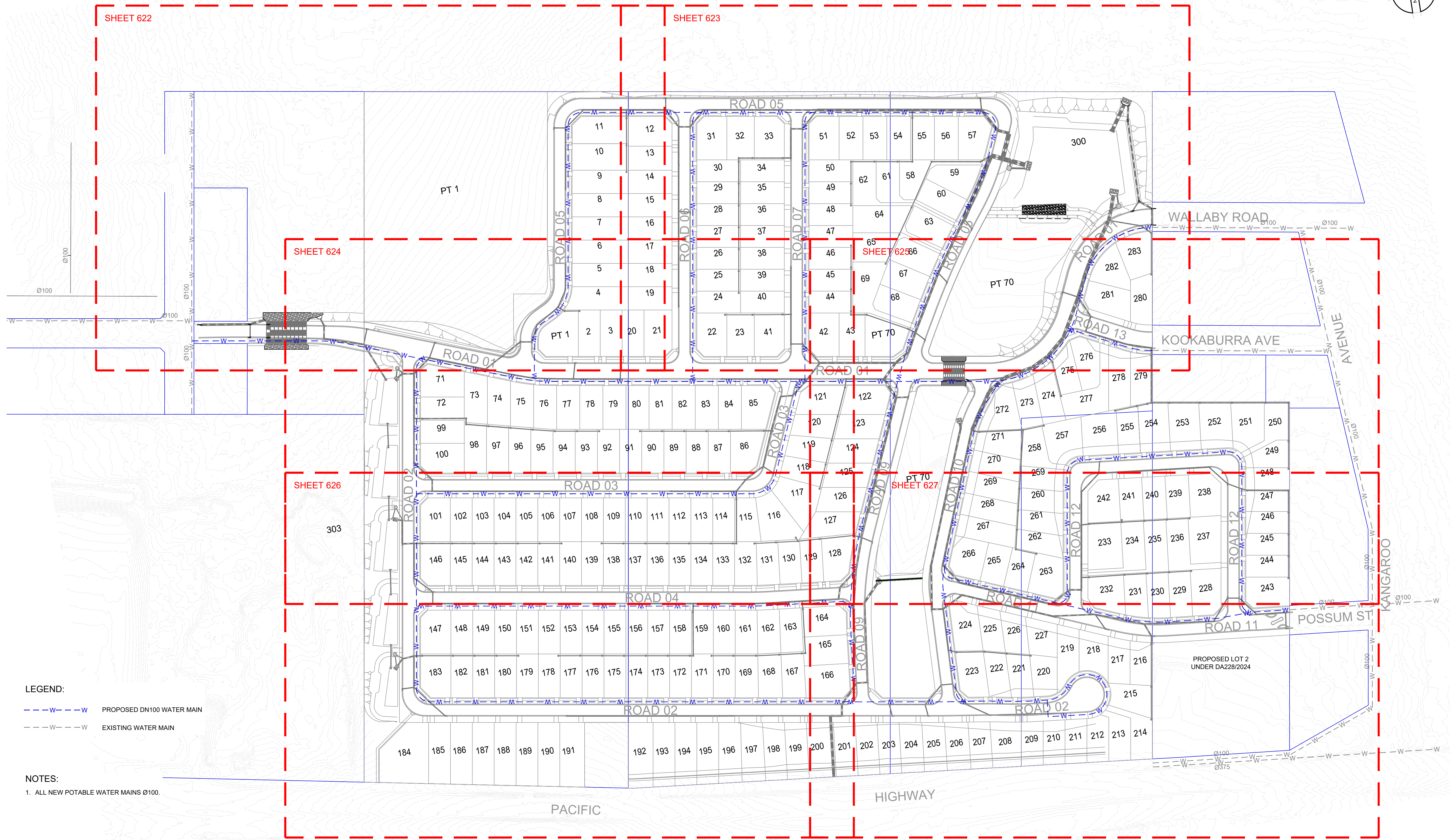
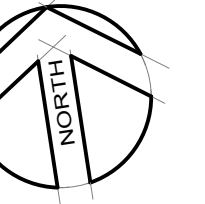
Datum: A.H.D.

Plan No.
CC180099-07-617

File Ref.
CC180099

REV.

C



- LEGEND:
- W---W--- PROPOSED DN100 WATER MAIN
 - W---W--- EXISTING WATER MAIN

- NOTES:
- ALL NEW POTABLE WATER MAINS Ø100.

PLAN
SCALE 1:1250



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
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WATER LAYOUT PLAN

Designed: JT
Drawn: DKH
Checked: SGB

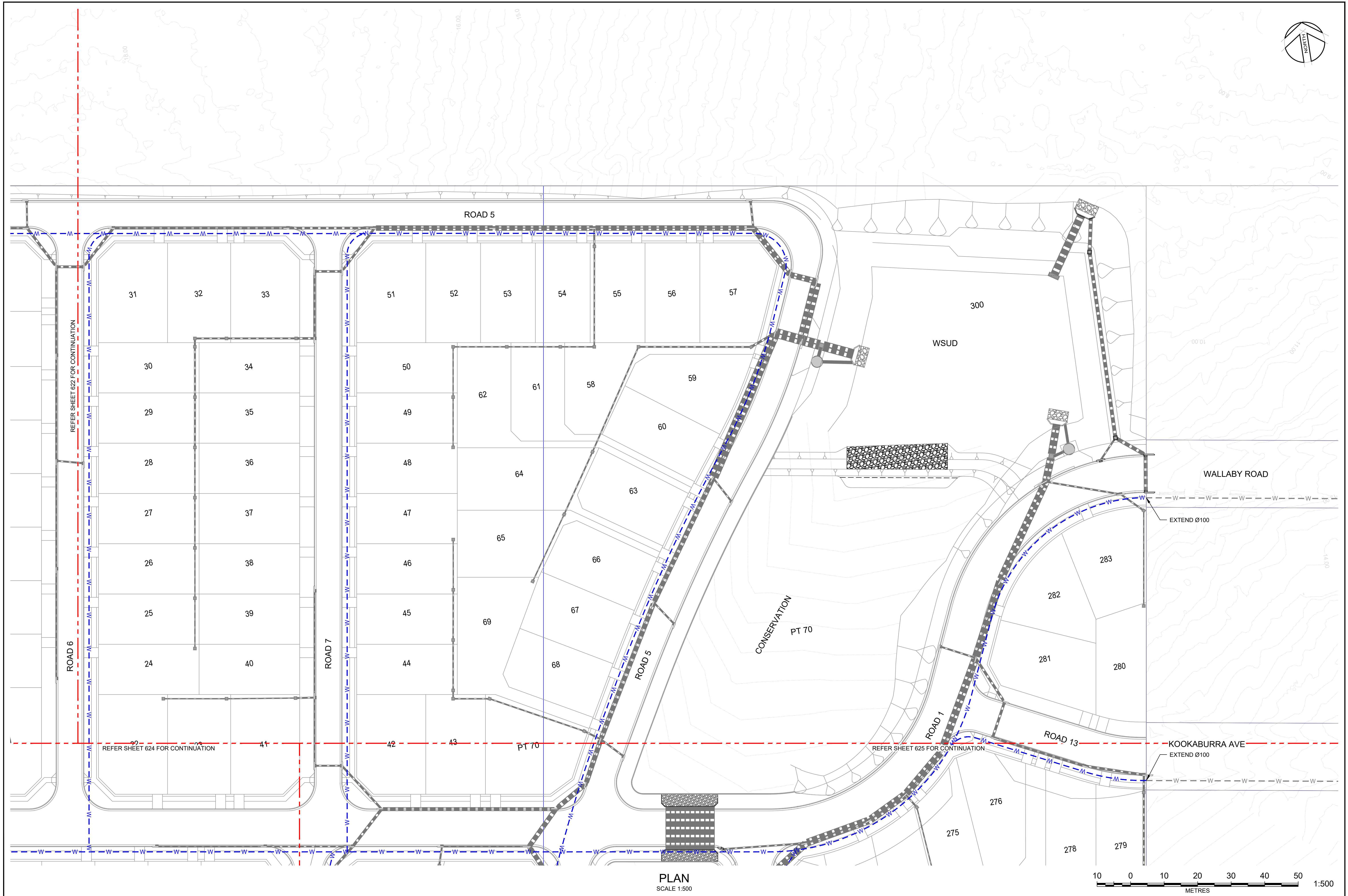
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@A1 Horiz. -
Vert. -
X-Sect. -

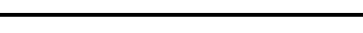
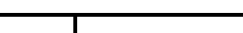
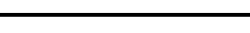
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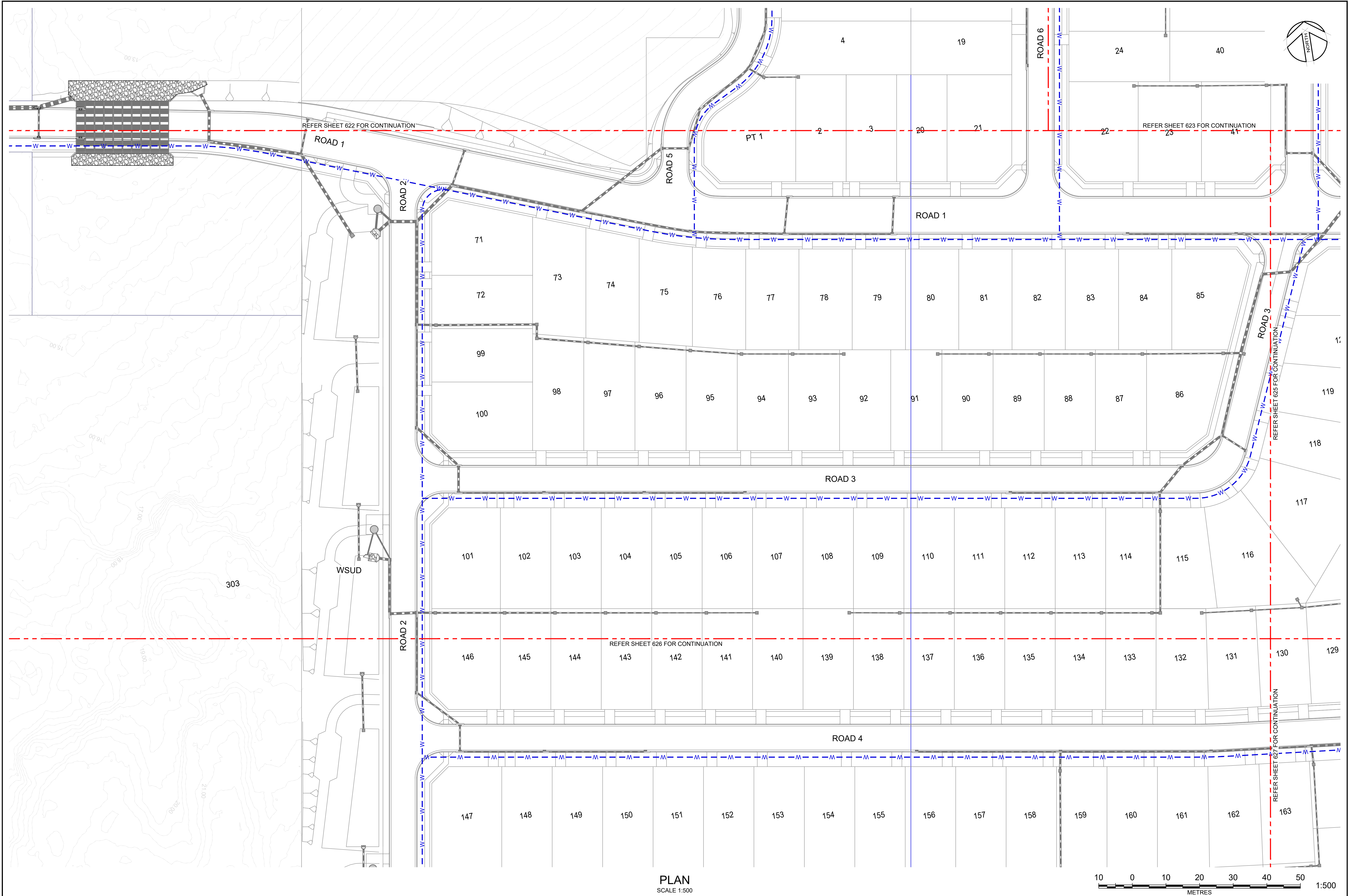
Plan No.
CC180099-07-621

File Ref.
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REV.
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A	ISSUED FOR D.A.	SGB	03/11/2023								
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024								
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REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
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WATER DETAIL PLAN SHEET 3

Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan 1:500
@A1 Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-07-624

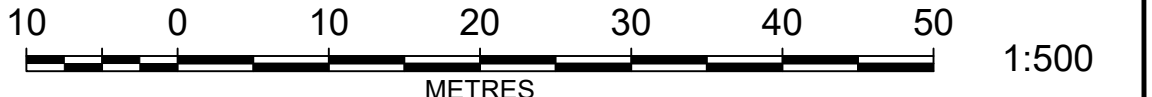
File Ref.
CC180099

REV.

C



PLAN
SCALE 1:500



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



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WATER DETAIL PLAN SHEET 4

Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan 1:500
@A1
Horiz. -
Vert. -
X-Sect. -
Datum: A.H.D.

Plan No.
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File Ref.
CC180099
REV.
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PLAN
SCALE 1:500



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



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WATER DETAIL PLAN SHEET 5

Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan 1:500
@A1
Horiz. -
Vert. -
X-Sect. -
Datum: A.H.D.

Plan No.
CC180099-07-626
File Ref.
CC180099
REV.
C



PLAN
SCALE 1:500



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
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WATER DETAIL PLAN SHEET 6

Designed: JT
Drawn: DKH
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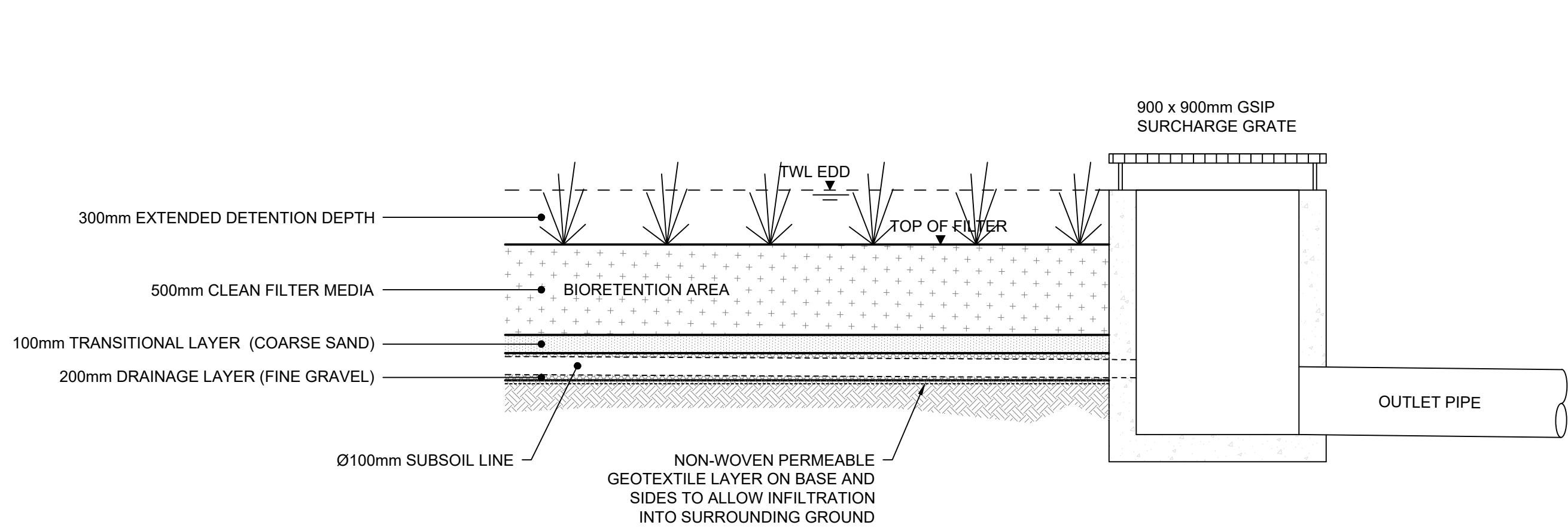
Scales: Plan 1:500
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Vert. -
X-Sect. -

Datum: A.H.D.

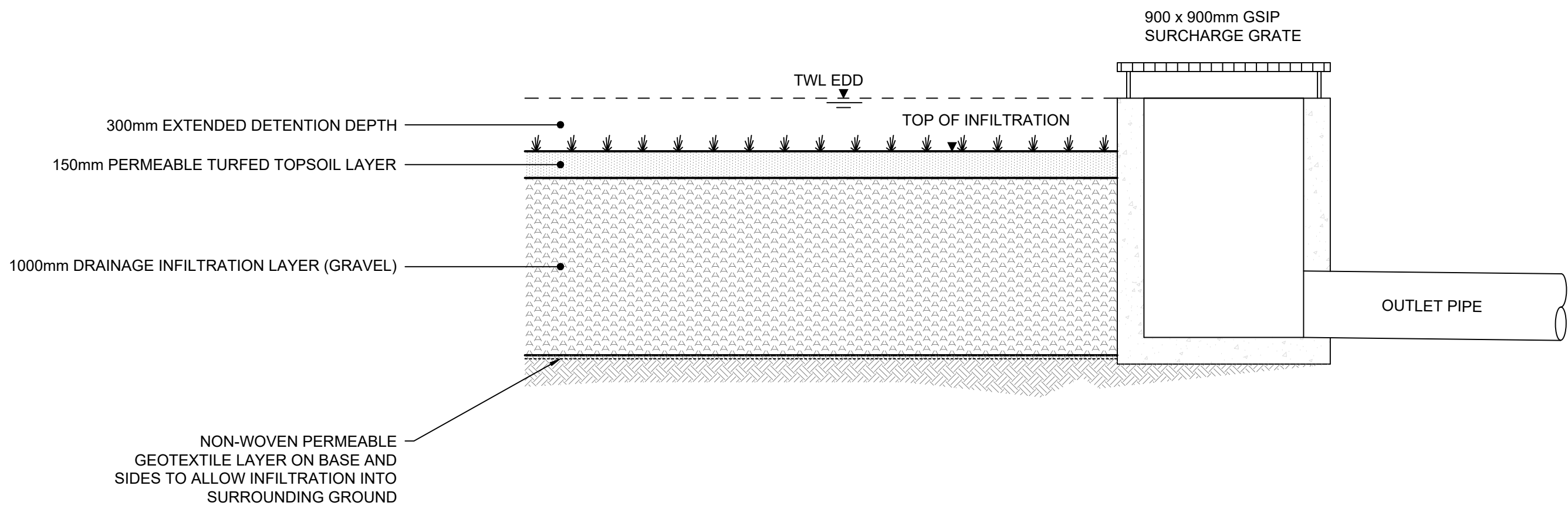
Plan No.
CC180099-07-627

File Ref.
CC180099

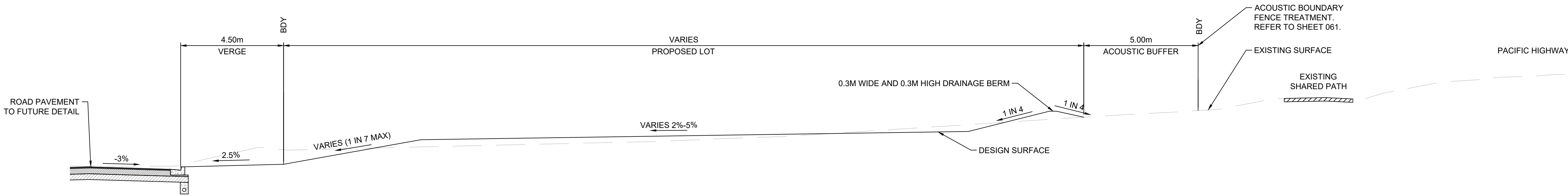
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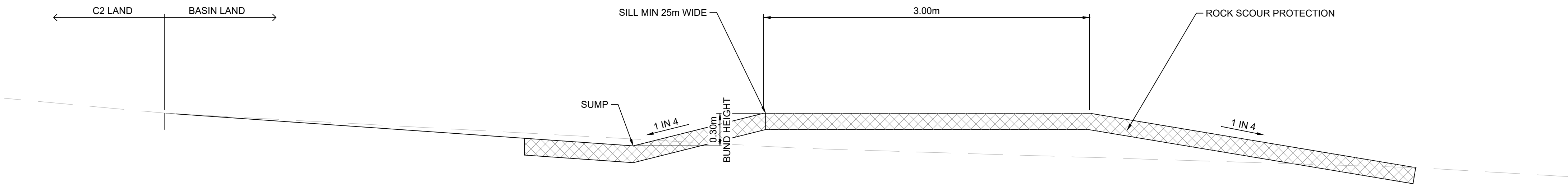
TYPICAL BIO-RETENTION BASIN DETAIL
SCALE 1:25



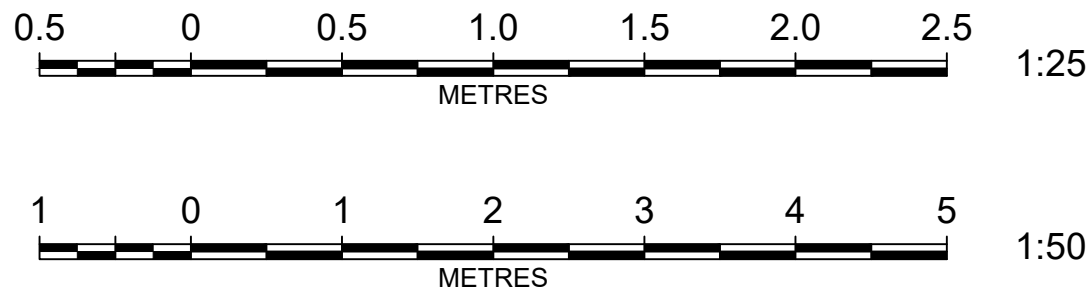
TYPICAL INFILTRATION BASIN DETAIL
SCALE 1:25



TYPICAL SECTION - ROAD 2 AND PACIFIC HIGHWAY
SCALE 1:50



LEVEL SPREADER DETAIL
SCALE 1:25



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
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TYPICAL DETAILS

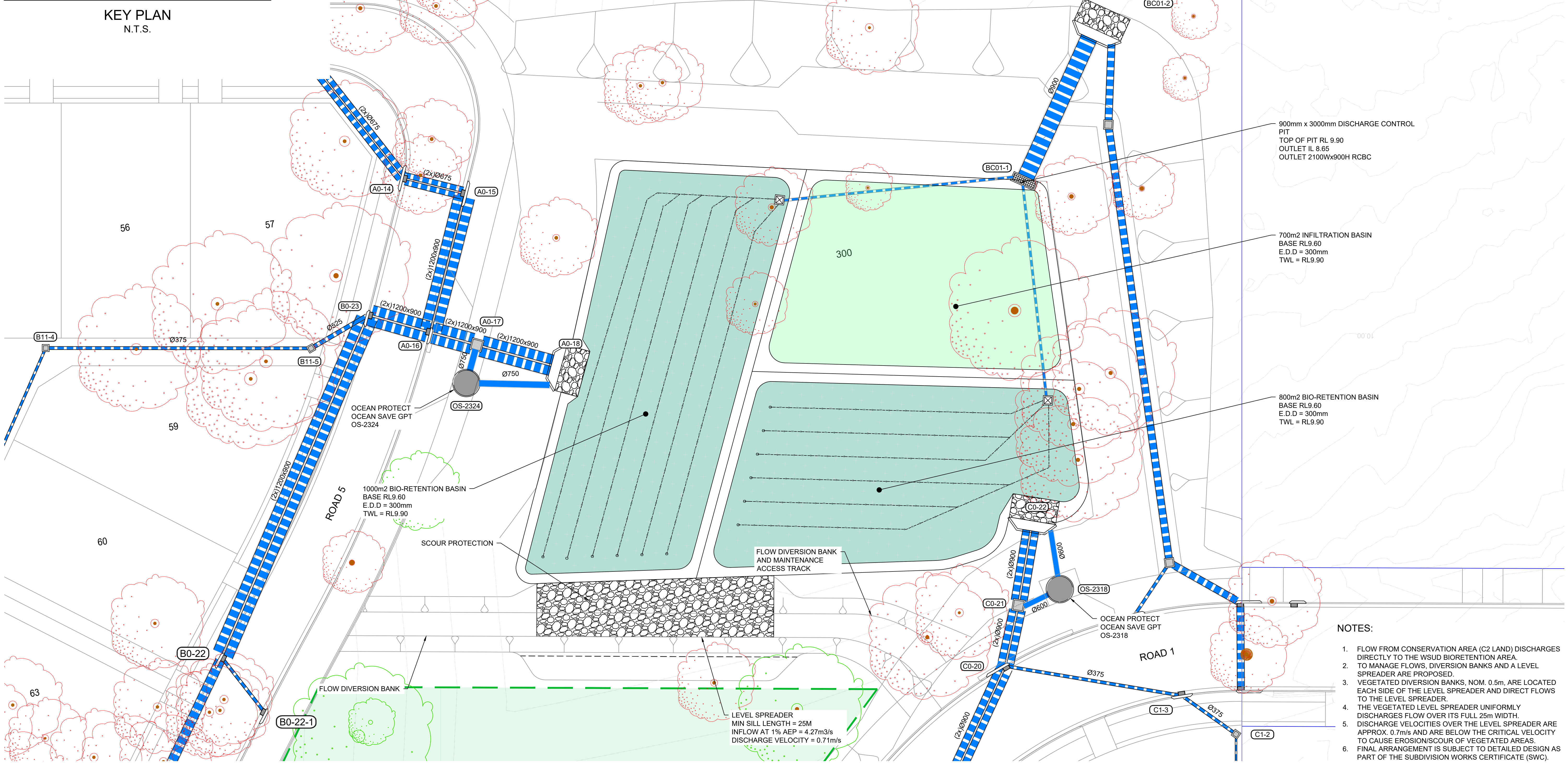
Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan -
@A1 Horiz. -
Vert. -
X-Sect. -
Datum: A.H.D.

Plan No.
CC180099-07-701
File Ref.
CC180099
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KEY PLAN
N.T.S.



PLAN
SCALE 1:250

- NOTES:
1. FLOW FROM CONSERVATION AREA (C2 LAND) DISCHARGES DIRECTLY TO THE WSUD BIORETENTION AREA.
 2. TO MANAGE FLOWS, DIVERSION BANKS AND A LEVEL SPREADER ARE PROPOSED.
 3. VEGETATED DIVERSION BANKS, NOM. 0.5m, ARE LOCATED EACH SIDE OF THE LEVEL SPREADER AND DIRECT FLOWS TO THE LEVEL SPREADER.
 4. THE VEGETATED LEVEL SPREADER UNIFORMLY DISCHARGES FLOW OVER ITS FULL 25m WIDTH.
 5. DISCHARGE VELOCITIES OVER THE LEVEL SPREADER ARE APPROX. 0.7m/s AND ARE BELOW THE CRITICAL VELOCITY TO CAUSE EROSION/SCOUR OF VEGETATED AREAS.
 6. FINAL ARRANGEMENT IS SUBJECT TO DETAILED DESIGN AS PART OF THE SUBDIVISION WORKS CERTIFICATE (SWC).

REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



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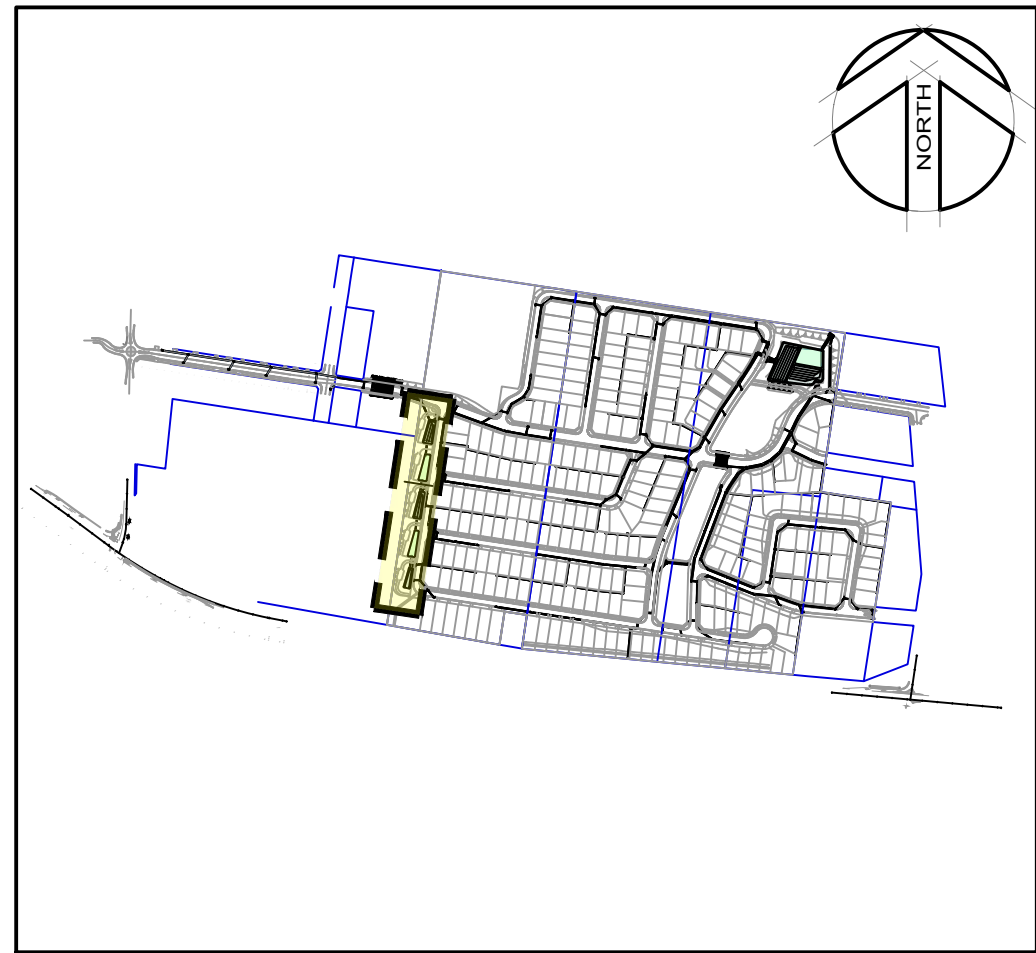
285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION

BASIN 1 DETAIL PLAN

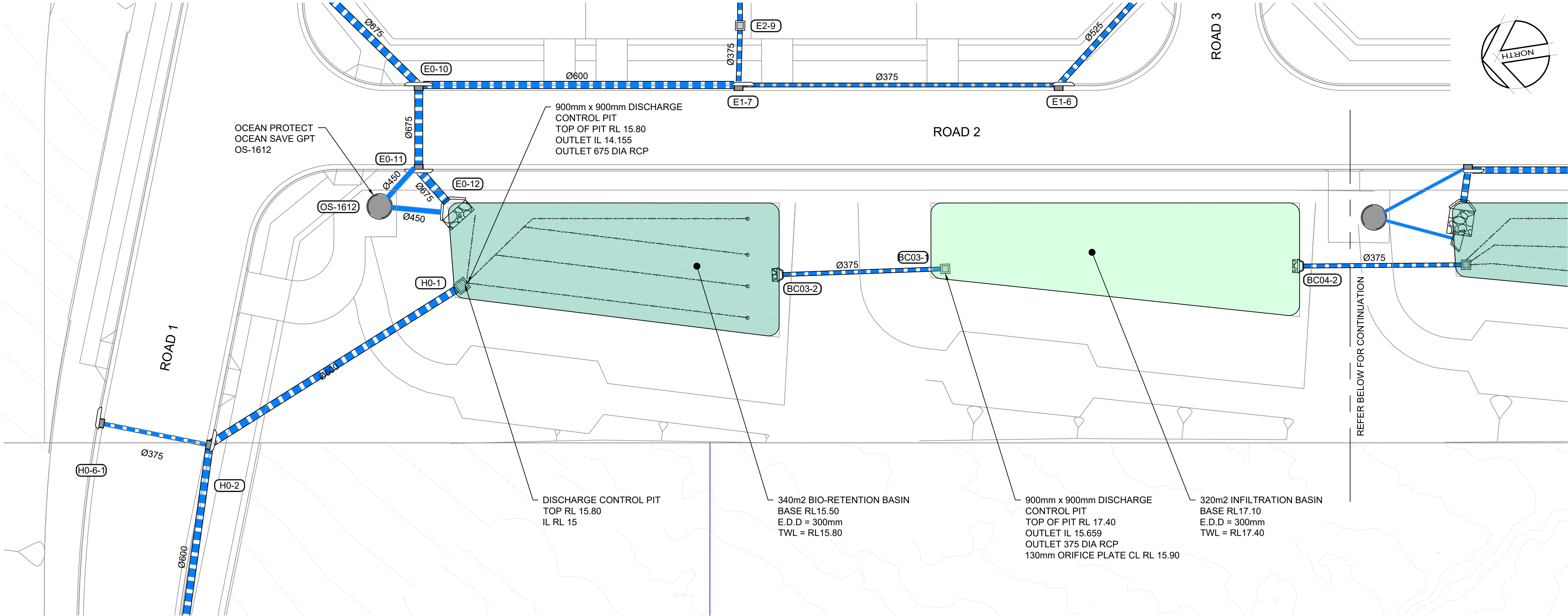
Designed: JT
Drawn: DKH
Checked: SGB

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@A1 Horiz. -
Vert. -
X-Sect. -
Datum: A.H.D.

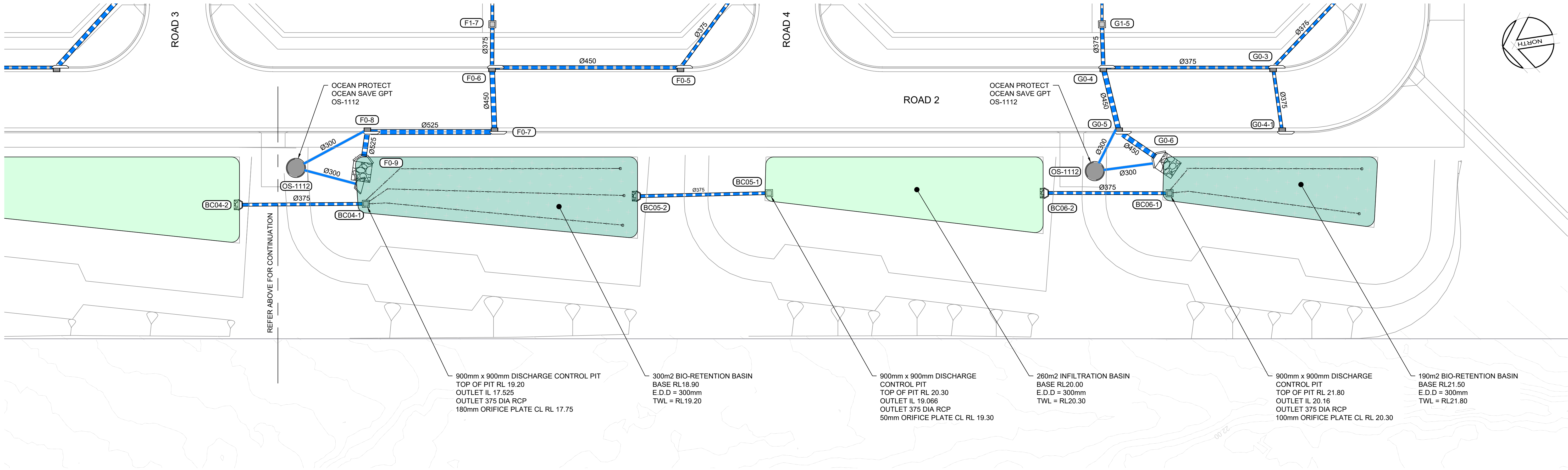
Plan No.
CC180099-07-711
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CC180099
REV.
C



KEY PLAN
N.T.S.



PLAN
SCALE 1:250



PLAN
SCALE 1:250



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



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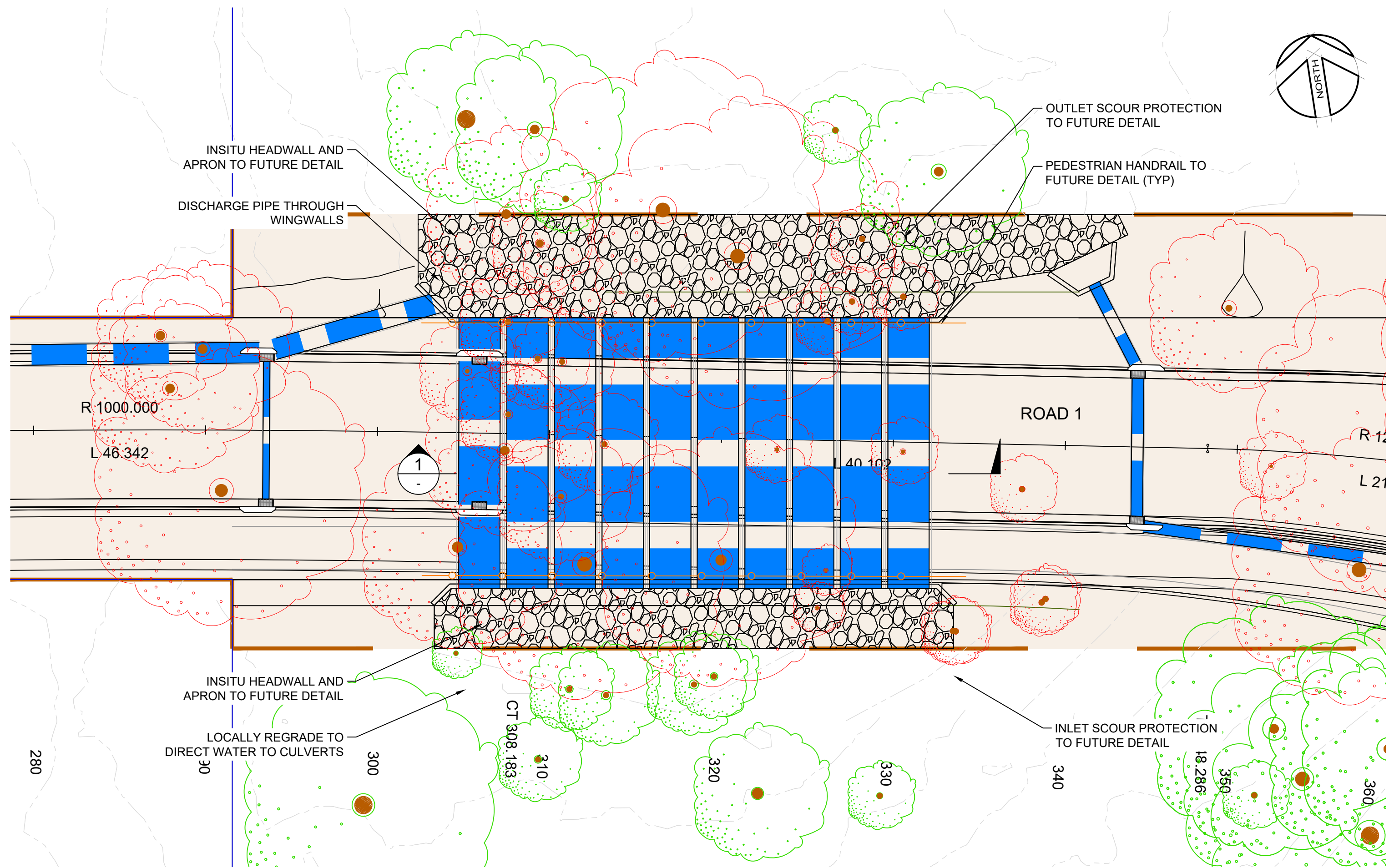
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BASIN 2-6 DETAIL PLAN

Designed: JT
Drawn: DKH
Checked: SGB

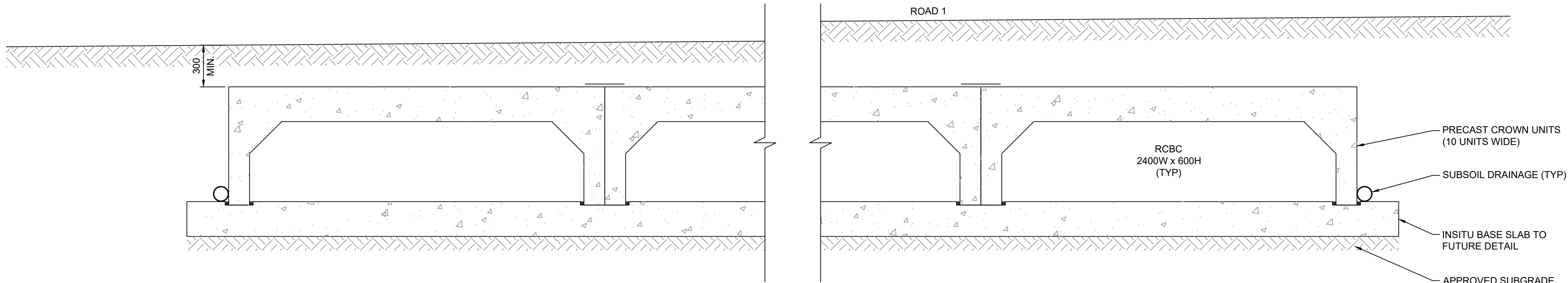
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Datum: A.H.D.

Plan No.
CC180099-07-712
File Ref.
CC180099
REV.
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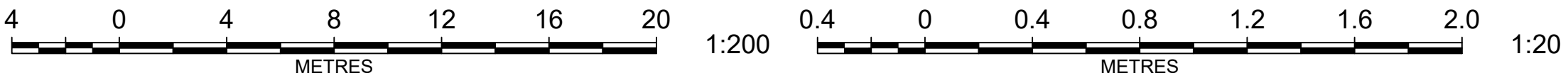


ROAD 1 CULVERT PLAN
SCALE 1:200

- NOTES:
1. CULVERTS WORKS DURING CONSTRUCTION ARE RESTRICTED TO THE FOOTPRINT ASSESSED BY THE PROJECT BCAR, AS OUTLINED IN BROWN.
 2. PROPOSED CULVERT WORKS, INCLUDING INLET AND OUTLET SCOUR PROTECTION WORKS DO NOT EXCEED THE BCAR FOOTPRINT.
 3. OUTLET CULVERT VELOCITY IS APPROX. 2.1m/s.
 4. MINIMUM SCOUR EXTENTS TO WITHSTAND THE ABOVE VELOCITY ARE NOTED ON THIS DRAWING.
 5. SCOUR PROTECTION EXTENTS AS SHOWN EXCEED MINIMUM REQUIREMENTS WHILE NOT PROPOSING WORKS BEYOND THE BCAR FOOTPRINT.
 6. FINAL ARRANGEMENT IS SUBJECT TO DETAILED DESIGN AS PART OF THE SUBDIVISION WORKS CERTIFICATE (SWC).



SECTION 1
SCALE 1:20



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



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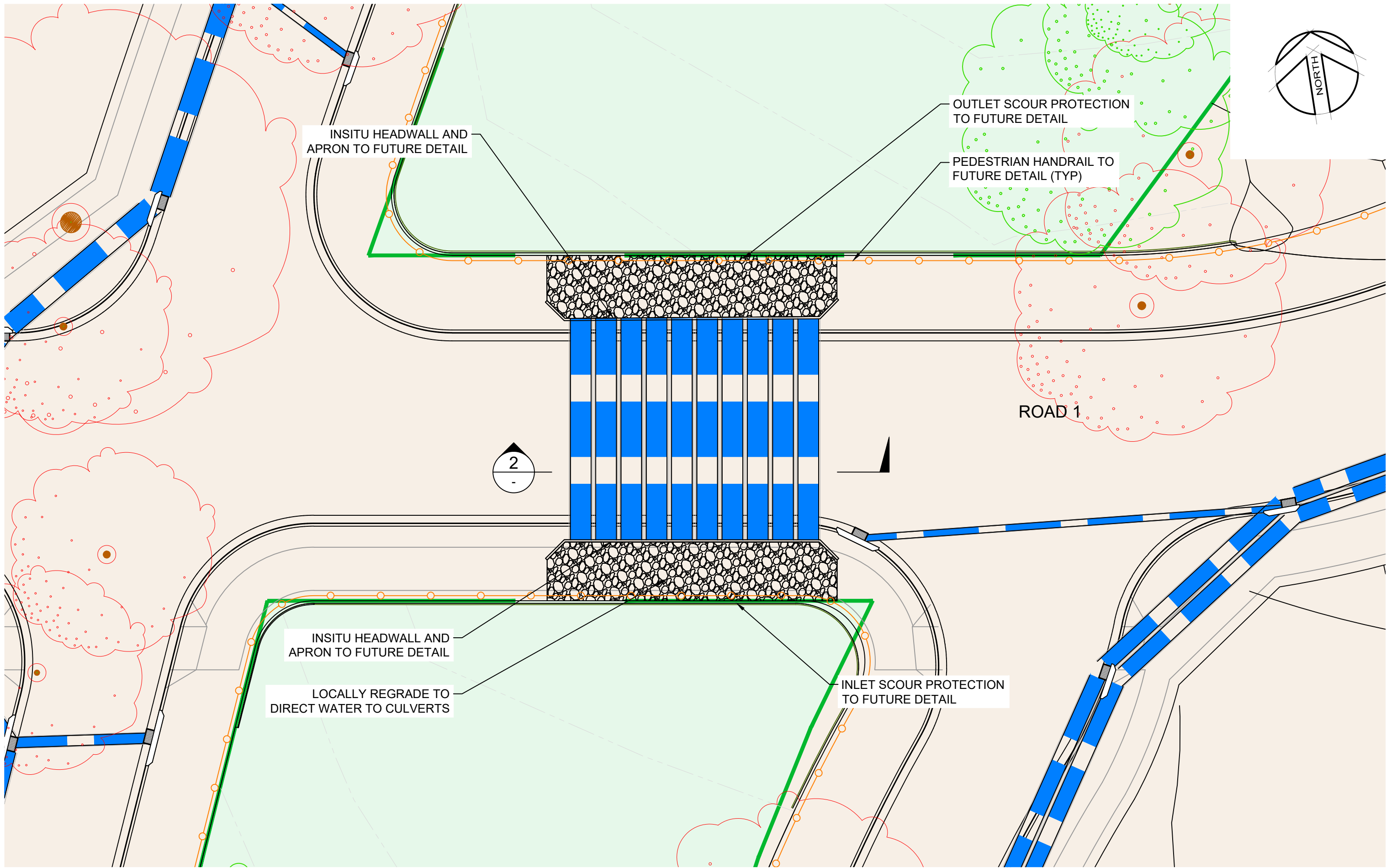
285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION

ROAD 1 CULVERT PLAN AND DETAILS SHEET 1

Designed: JT
Drawn: DKH
Checked: SGB

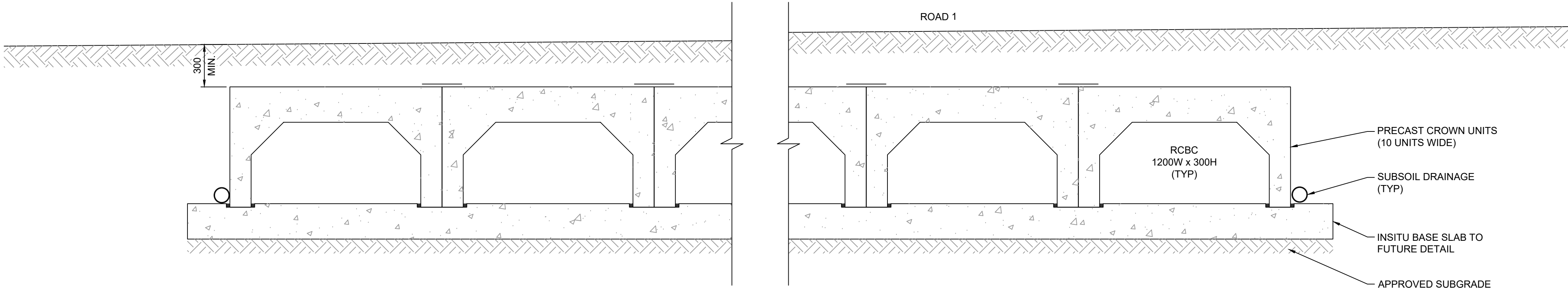
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Vert. -
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Datum: A.H.D.

Plan No.
CC180099-07-721
File Ref.
CC180099
REV.
C

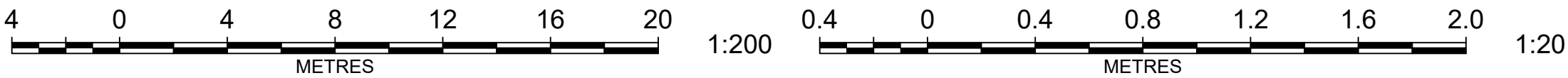


ROAD 1 CULVERT PLAN
SCALE 1:200

- NOTES:
1. CULVERTS WORKS DURING CONSTRUCTION ARE RESTRICTED TO THE FOOTPRINT ASSESSED BY THE PROJECT BCAR, AS OUTLINED IN BROWN.
 2. PROPOSED CULVERT WORKS, INCLUDING INLET AND OUTLET SCOUR PROTECTION WORKS DO NOT EXCEED THE BCAR FOOTPRINT.
 3. OUTLET CULVERT VELOCITY IS APPROX. 1.6m/s.
 4. MINIMUM SCOUR EXTENTS TO WITHSTAND THE ABOVE VELOCITY ARE NOTED ON THIS DRAWING.
 5. SCOUR PROTECTION EXTENTS AS SHOWN EXCEED MINIMUM REQUIREMENTS WHILE NOT PROPOSING WORKS BEYOND THE BCAR FOOTPRINT.
 6. FINAL ARRANGEMENT IS SUBJECT TO DETAILED DESIGN AS PART OF THE SUBDIVISION WORKS CERTIFICATE (SWC).



SECTION 2
SCALE 1:20



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



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PROPOSED RESIDENTIAL SUBDIVISION

ROAD 1 CULVERT PLAN AND DETAILS SHEET 2

Designed: JT
Drawn: DKH
Checked: SGB

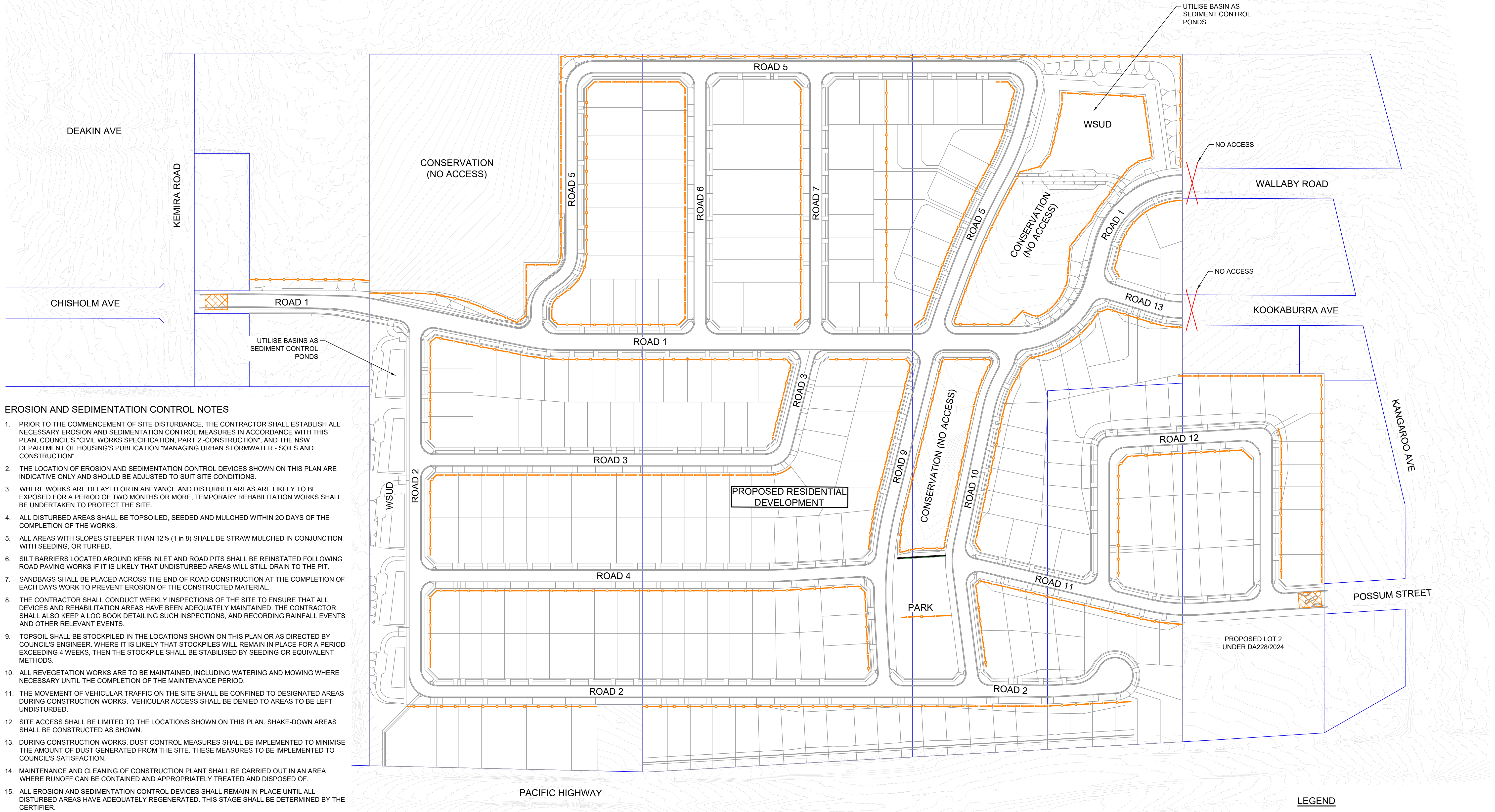
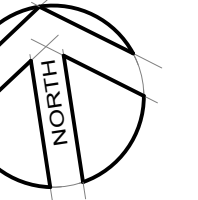
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Vert. -
X-Sect. 1:20

Datum: A.H.D.

Plan No.
CC180099-07-722

File Ref.
CC180099

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C



EROSION AND SEDIMENTATION CONTROL NOTES

1. PRIOR TO THE COMMENCEMENT OF SITE DISTURBANCE, THE CONTRACTOR SHALL ESTABLISH ALL NECESSARY EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THIS PLAN, COUNCIL'S "CIVIL WORKS SPECIFICATION, PART 2 - CONSTRUCTION", AND THE NSW DEPARTMENT OF HOUSING'S PUBLICATION "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION".
2. THE LOCATION OF EROSION AND SEDIMENTATION CONTROL DEVICES SHOWN ON THIS PLAN ARE INDICATIVE ONLY AND SHOULD BE ADJUSTED TO SUIT SITE CONDITIONS.
3. WHERE WORKS ARE DELAYED OR IN ABEYANCE AND DISTURBED AREAS ARE LIKELY TO BE EXPOSED FOR A PERIOD OF TWO MONTHS OR MORE, TEMPORARY REHABILITATION WORKS SHALL BE UNDERTAKEN TO PROTECT THE SITE.
4. ALL DISTURBED AREAS SHALL BE TOPSOILED, SEEDED AND MULCHED WITHIN 20 DAYS OF THE COMPLETION OF THE WORKS.
5. ALL AREAS WITH SLOPES STEEPER THAN 12% (1 in 8) SHALL BE STRAW MULCHED IN CONJUNCTION WITH SEEDING, OR TURFED.
6. SILT BARRIERS LOCATED AROUND KERB INLET AND ROAD PITS SHALL BE REINSTATED FOLLOWING ROAD PAVING WORKS IF IT IS LIKELY THAT UNDISTURBED AREAS WILL STILL DRAIN TO THE PIT.
7. SANDBAGS SHALL BE PLACED ACROSS THE END OF ROAD CONSTRUCTION AT THE COMPLETION OF EACH DAYS WORK TO PREVENT EROSION OF THE CONSTRUCTED MATERIAL.
8. THE CONTRACTOR SHALL CONDUCT WEEKLY INSPECTIONS OF THE SITE TO ENSURE THAT ALL DEVICES AND REHABILITATION AREAS HAVE BEEN ADEQUATELY MAINTAINED. THE CONTRACTOR SHALL ALSO KEEP A LOG BOOK DETAILING SUCH INSPECTIONS, AND RECORDING RAINFALL EVENTS AND OTHER RELEVANT EVENTS.
9. TOPSOIL SHALL BE STOCKPILED IN THE LOCATIONS SHOWN ON THIS PLAN OR AS DIRECTED BY COUNCIL'S ENGINEER. WHERE IT IS LIKELY THAT STOCKPILES WILL REMAIN IN PLACE FOR A PERIOD EXCEEDING 4 WEEKS, THEN THE STOCKPILE SHALL BE STABILISED BY SEEDING OR EQUIVALENT METHODS.
10. ALL REVEGETATION WORKS ARE TO BE MAINTAINED, INCLUDING WATERING AND MOWING WHERE NECESSARY UNTIL THE COMPLETION OF THE MAINTENANCE PERIOD.
11. THE MOVEMENT OF VEHICULAR TRAFFIC ON THE SITE SHALL BE CONFINED TO DESIGNATED AREAS DURING CONSTRUCTION WORKS. VEHICULAR ACCESS SHALL BE DENIED TO AREAS TO BE LEFT UNDISTURBED.
12. SITE ACCESS SHALL BE LIMITED TO THE LOCATIONS SHOWN ON THIS PLAN. SHAKE-DOWN AREAS SHALL BE CONSTRUCTED AS SHOWN.
13. DURING CONSTRUCTION WORKS, DUST CONTROL MEASURES SHALL BE IMPLEMENTED TO MINIMISE THE AMOUNT OF DUST GENERATED FROM THE SITE. THESE MEASURES TO BE IMPLEMENTED TO COUNCIL'S SATISFACTION.
14. MAINTENANCE AND CLEANING OF CONSTRUCTION PLANT SHALL BE CARRIED OUT IN AN AREA WHERE RUNOFF CAN BE CONTAINED AND APPROPRIATELY TREATED AND DISPOSED OF.
15. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE ADEQUATELY REGENERATED. THIS STAGE SHALL BE DETERMINED BY THE CERTIFIER.



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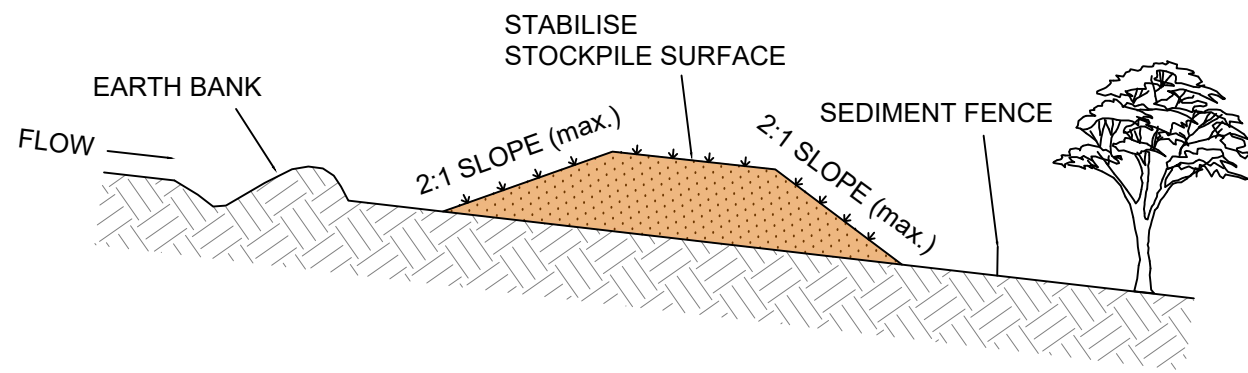
SOIL AND WATER MANAGEMENT PLAN

Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan 1:1250
@A1 Horiz. -
Vert. -
X-Sect. -
Datum: A.H.D.

Plan No.
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CC180099
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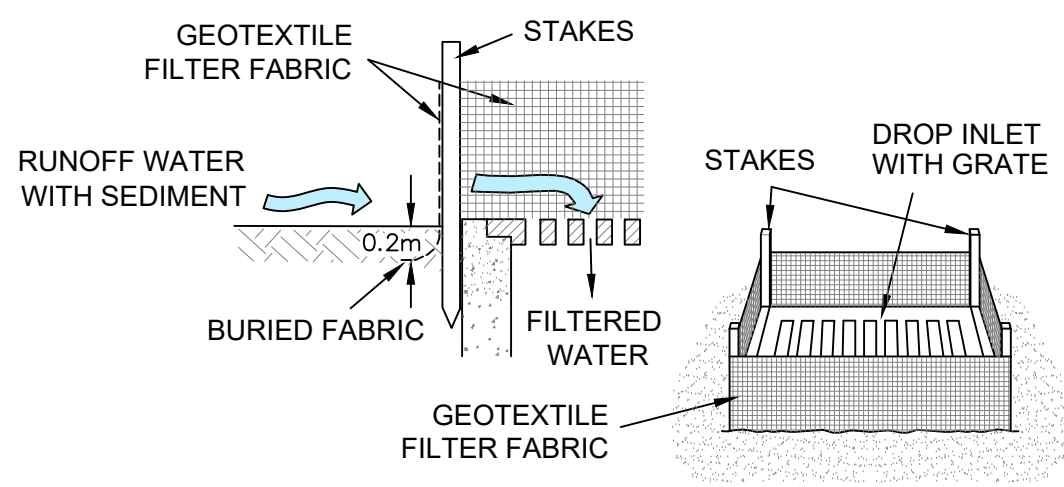




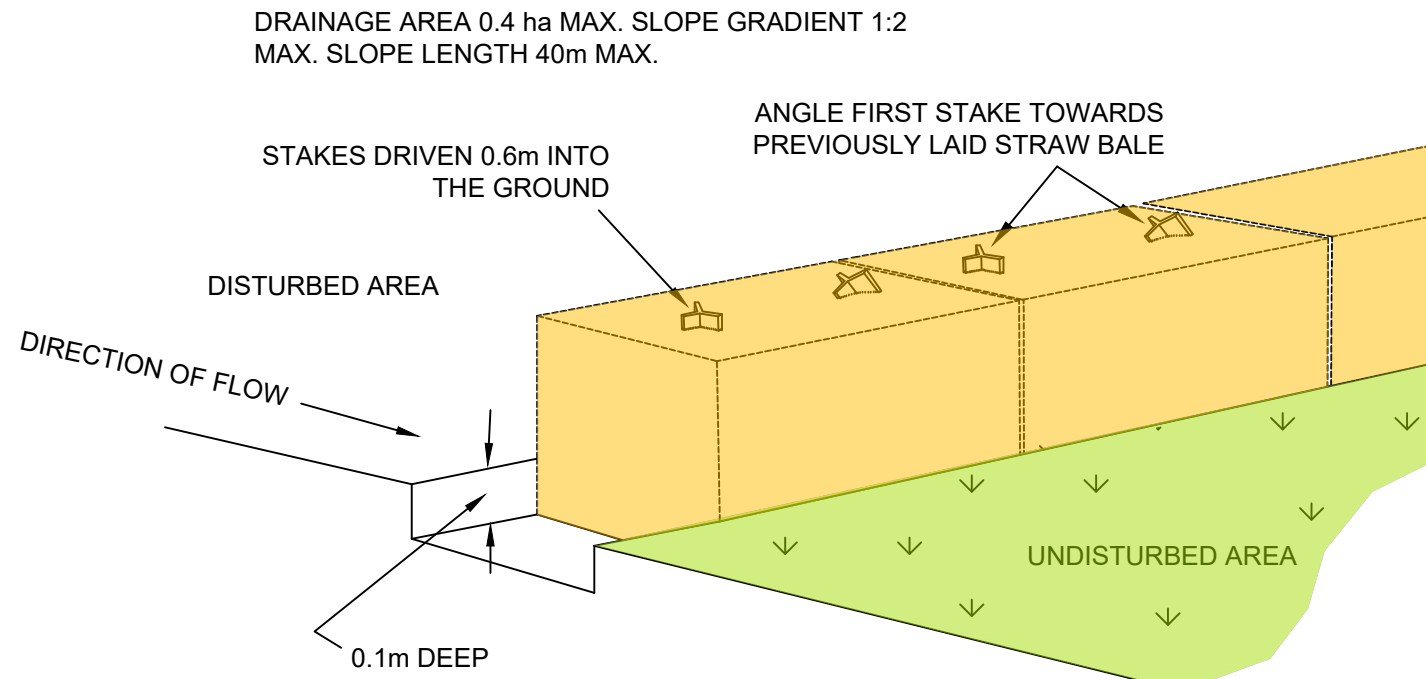
CONSTRUCTION NOTES

1. WHERE POSSIBLE LOCATE STOCKPILE AT LEAST 5 METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOWS, ROADS, HAZARD AREAS AND MIN. 1.5m AWAY FROM EMBANKMENTS.
2. 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.

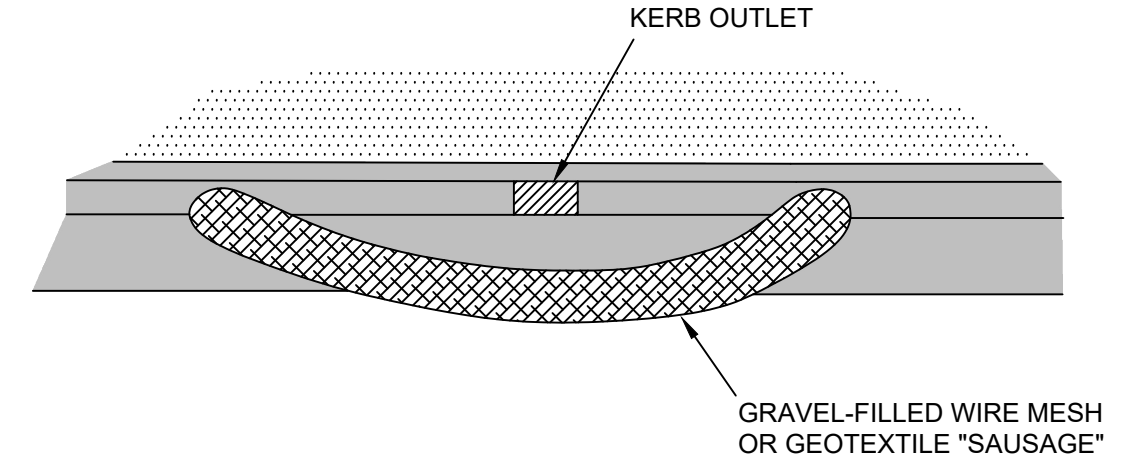
TOPSOIL STOCKPILE



SURFACE INLET PIT SEDIMENT TRAP



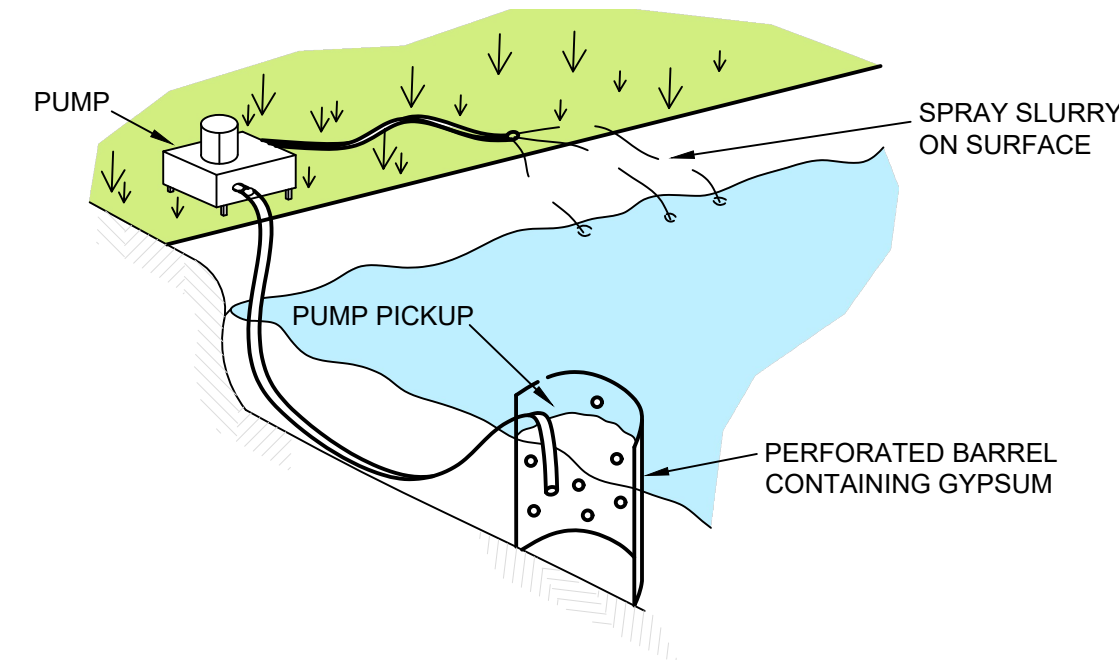
STRAW BALE SEDIMENT FILTER



CONSTRUCTION NOTES

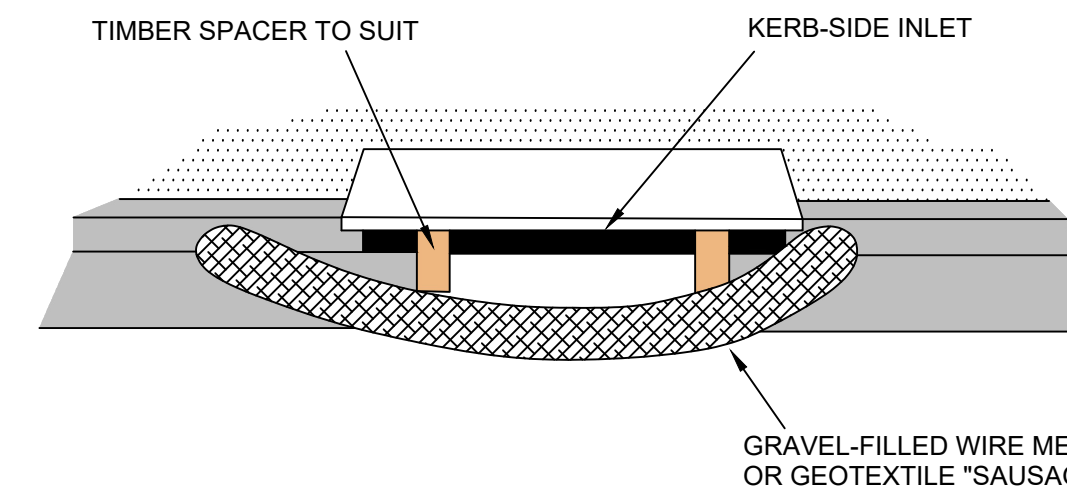
1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH AND FILL IT WITH 25mm TO 50mm GRAVEL.
2. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH X 400mm WIDE.
3. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING FILTER.
4. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

MESH & GRAVEL FILTER "SAUSAGE" BARRIER



- NOTE:
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".

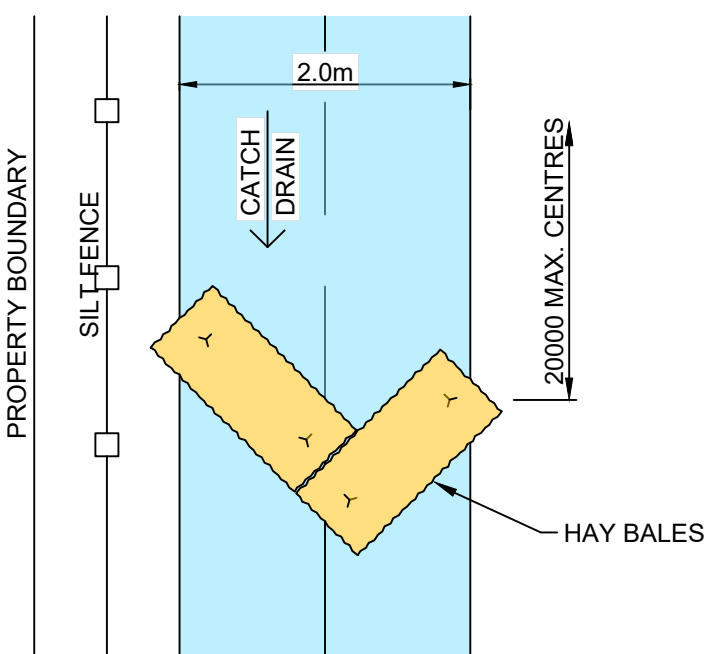
FLOCCULATION DETAIL



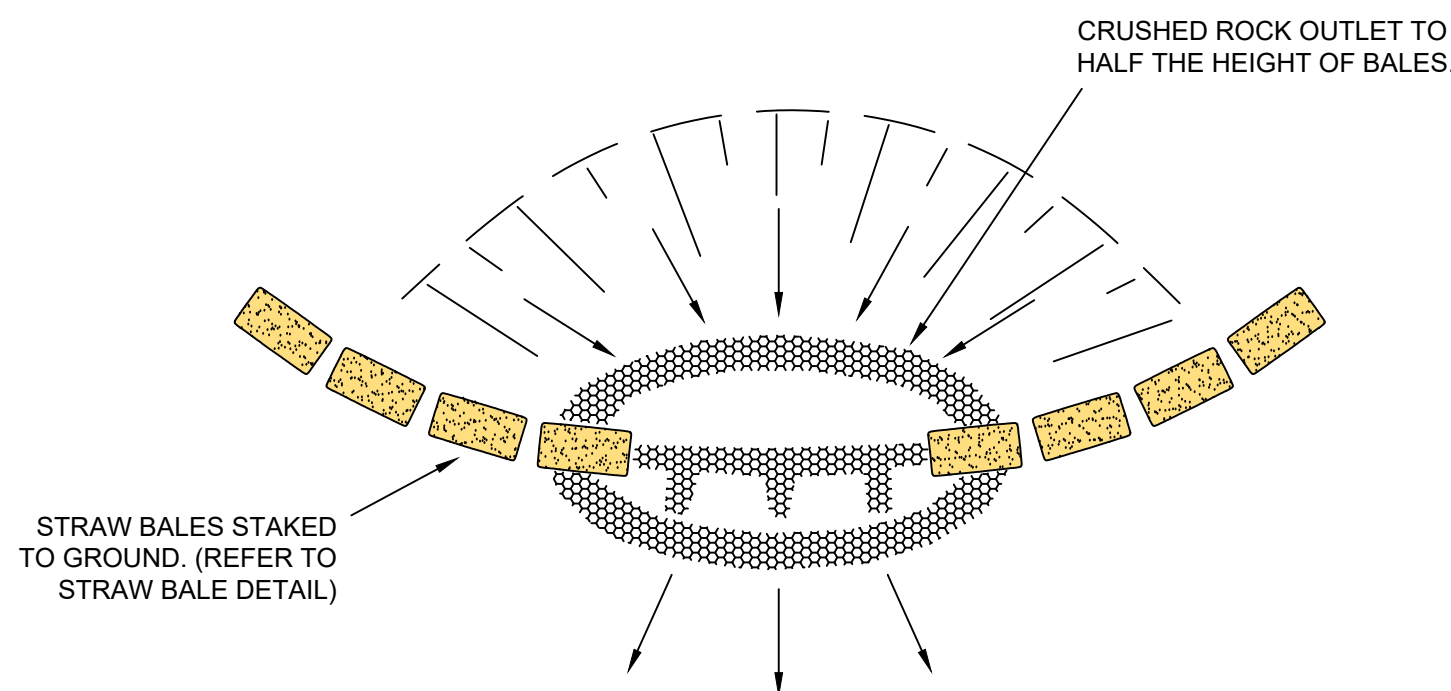
CONSTRUCTION NOTES

1. INSTALL FILTERS TO KERB INLET ONLY AT SAG POINTS.
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 CANNOT PASS BETWEEN.

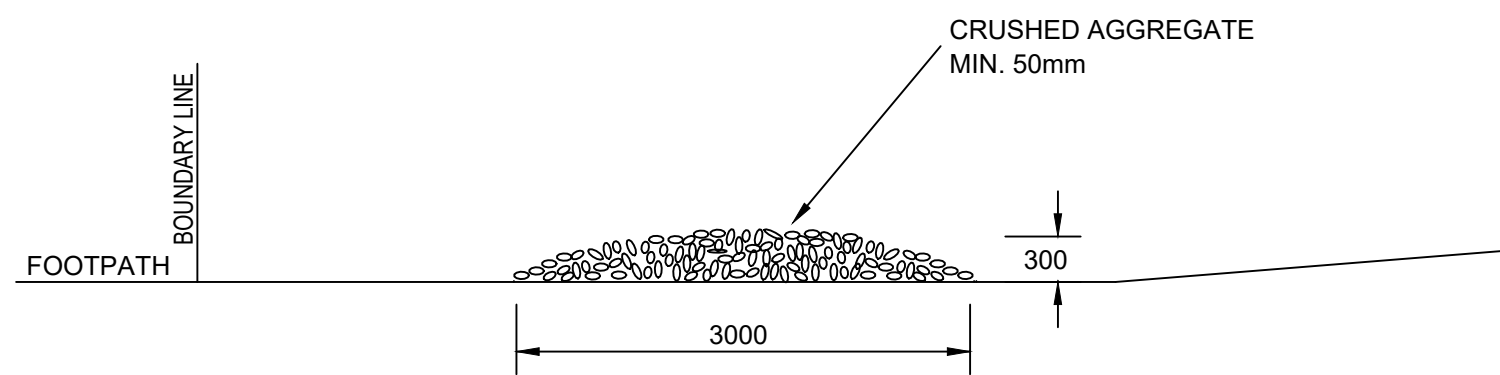
MESH & GRAVEL INLET "SAUSAGE" FILTER



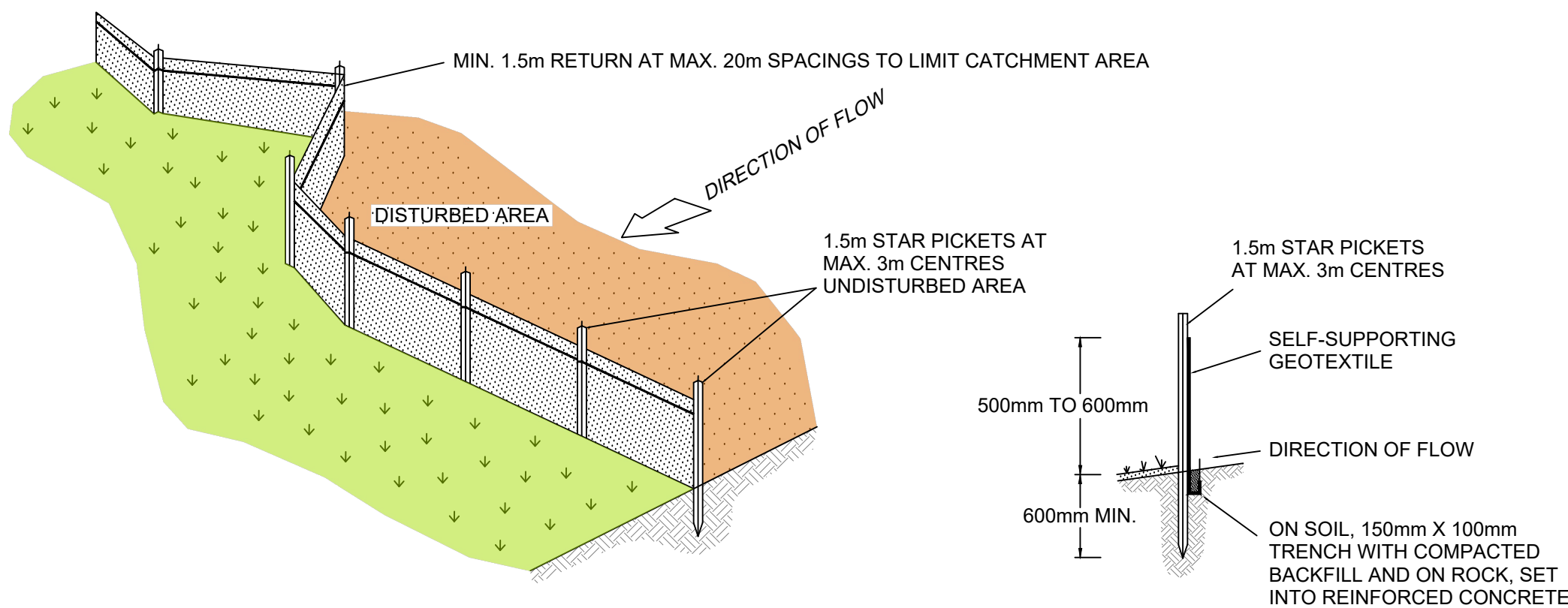
CATCH DRAIN DETAIL



STRAW BALE & CRUSHED ROCK SEDIMENT FILTER



VEHICLE DUST SHAKE DOWN DETAIL

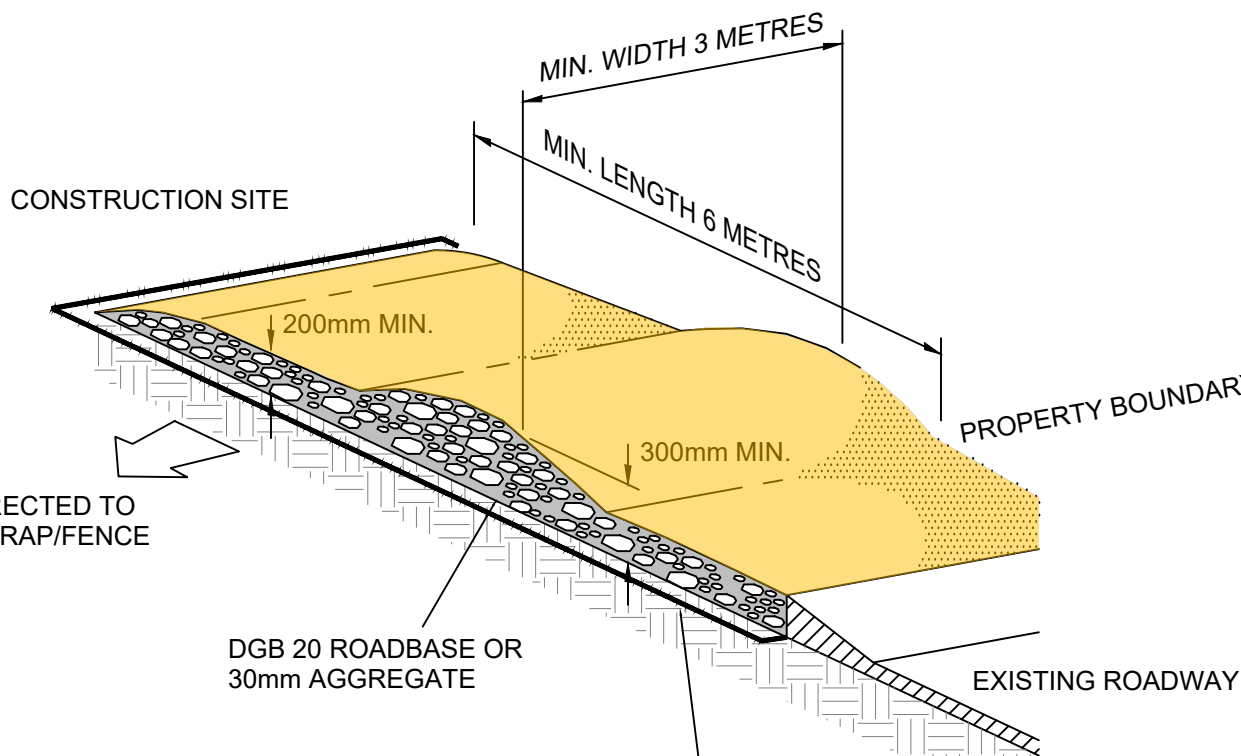


SECTION DETAIL

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 EVENT.
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.

SEDIMENT FENCE



CONSTRUCTION NOTES

1. STRIP TOPSOIL AND LEVEL SITE.
2. COMPACT SUBGRADE.
3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING ROADBASE OR 30mm AGGREGATE. MINIMUM LENGTH 15 METRES OR TO BUILDING ALIGNMENT. MINIMUM WIDTH 3 METRES.
5. CONSTRUCT HUMPS IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP.

GEOTEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS.

GEOTEXTILE MAY BE A WOVEN OR NEEDLE PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500 N



STABILISED SITE ACCESS

REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
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C	REVISED FOR COUNCIL RFI	JT	11/03/2025



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SOIL AND WATER MANAGEMENT DETAILS

Designed: JT
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Checked: SGB

Scales: Plan -
@A1 Horiz. -
Vert. -
X-Sect. -
Datum: A.H.D.

Plan No.
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File Ref.
CC180099

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BARKER
RYAN
STEWART

Client:

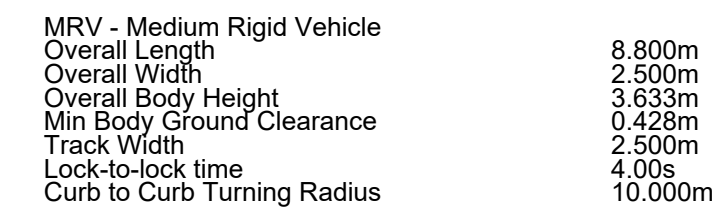
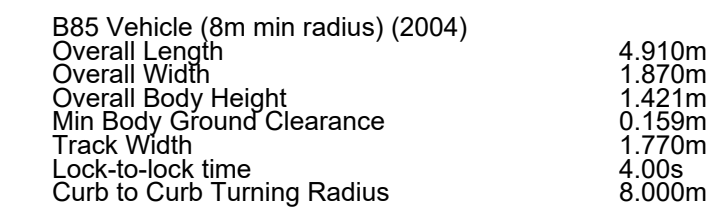
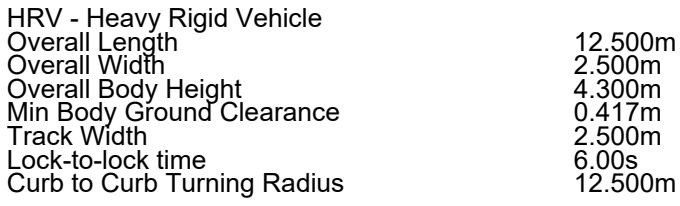
ALDA | **ROSE** | **URBAN LAND REDEVELOPMENT**
PROPERTIES PTY LTD

SWEPT PATH SHEET 2

Plan No.
CC180099-07-902

File Ref.
CC180099

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BARKER
RYAN
STEWART

Client:

ALDA | ROSE | URBAN LAND REDEVELOPMENT

285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION

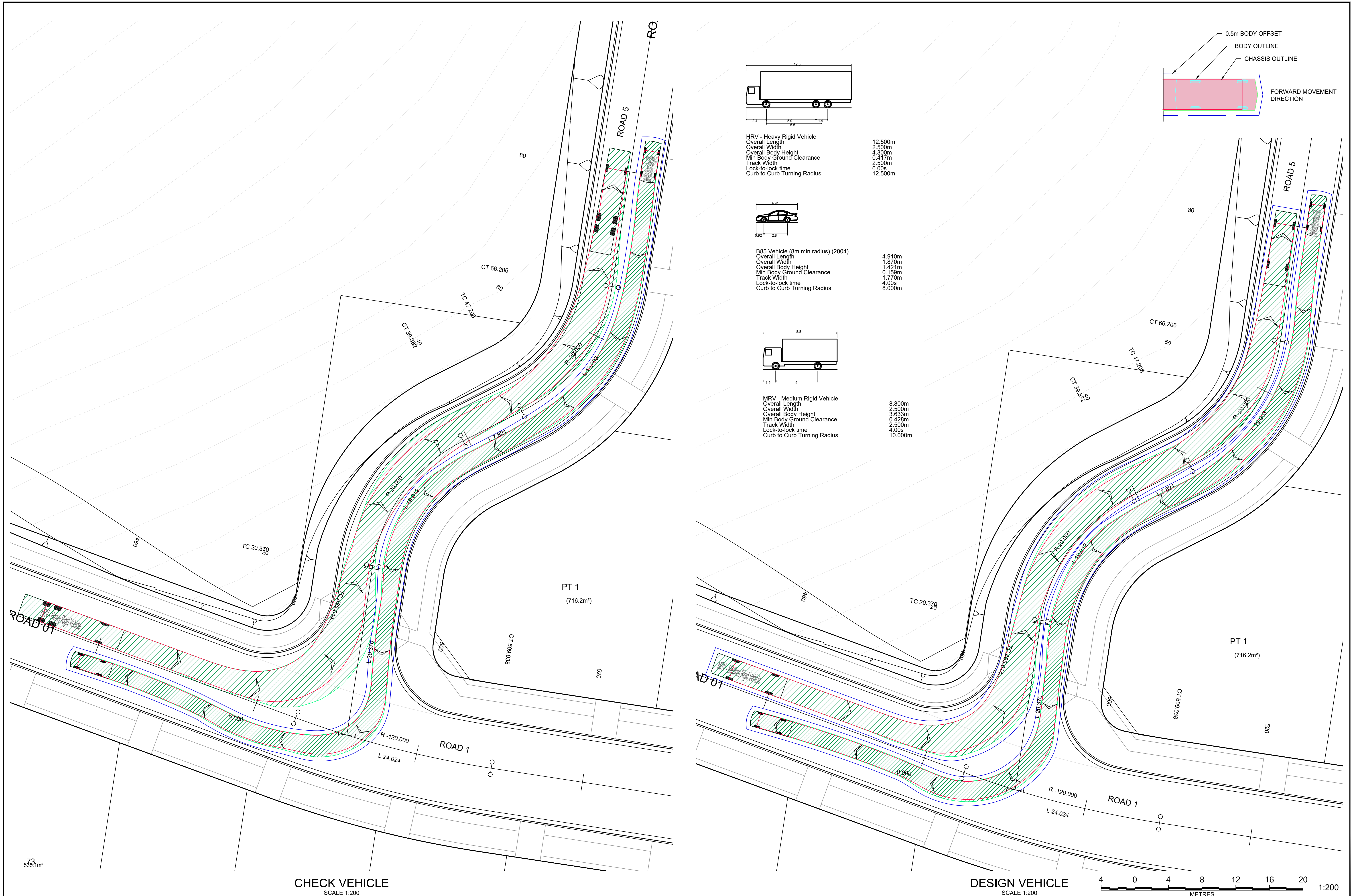
SWEPT PATH SHEET 3

Designed:	JT
Drawn:	DKH
Checked:	SGB

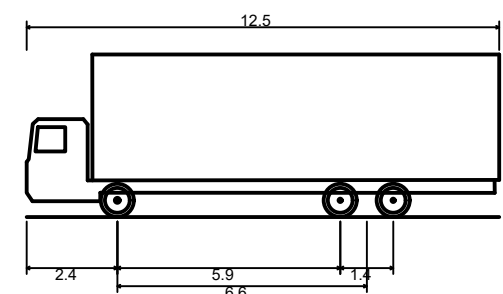
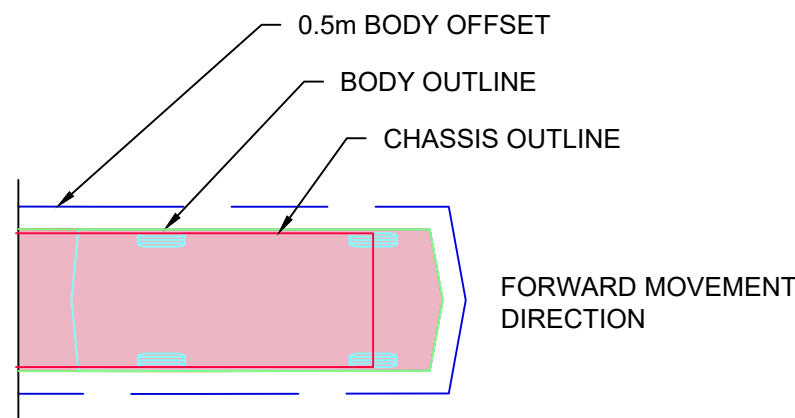
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Plan No.
CC180099-07-903

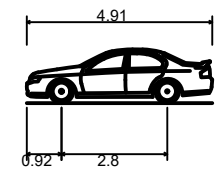
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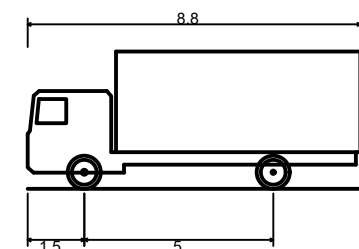
REV	AMENDMENT	ISSUED	DATE	 ENGINEERING PLANNING PROJECT MANAGEMENT SURVEYING CERTIFICATION SYDNEY P: 02 9659 0005 CENTRAL COAST P: 02 4325 5255 HUNTER P: 02 4966 8388 S.E. QLD P: 07 5582 6555 www.brs.com.au mail@brs.com.au ABN: 26 134 067 842 ©2019 ALDA PROPERTIES PTY LTD  ROSE URBAN LAND REDEVELOPMENT Client: 285-325 PACIFIC HIGHWAY, LAKE MUNMORAH PROPOSED RESIDENTIAL SUBDIVISION SWEPT PATH SHEET 4	Designed: JT	Scales: Plan 1:200	Plan No.
A	ISSUED FOR D.A.	SGB	03/11/2023		Drawn: DKH	@A1 Horiz. -	CC180099-07-904
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024		Checked: SGB	Vert. -	File Ref.
C	REVISED FOR COUNCIL RFI	JT	11/03/2025			X-Sect. -	CC180099
							REV.
					Datum: A.H.D.	C	



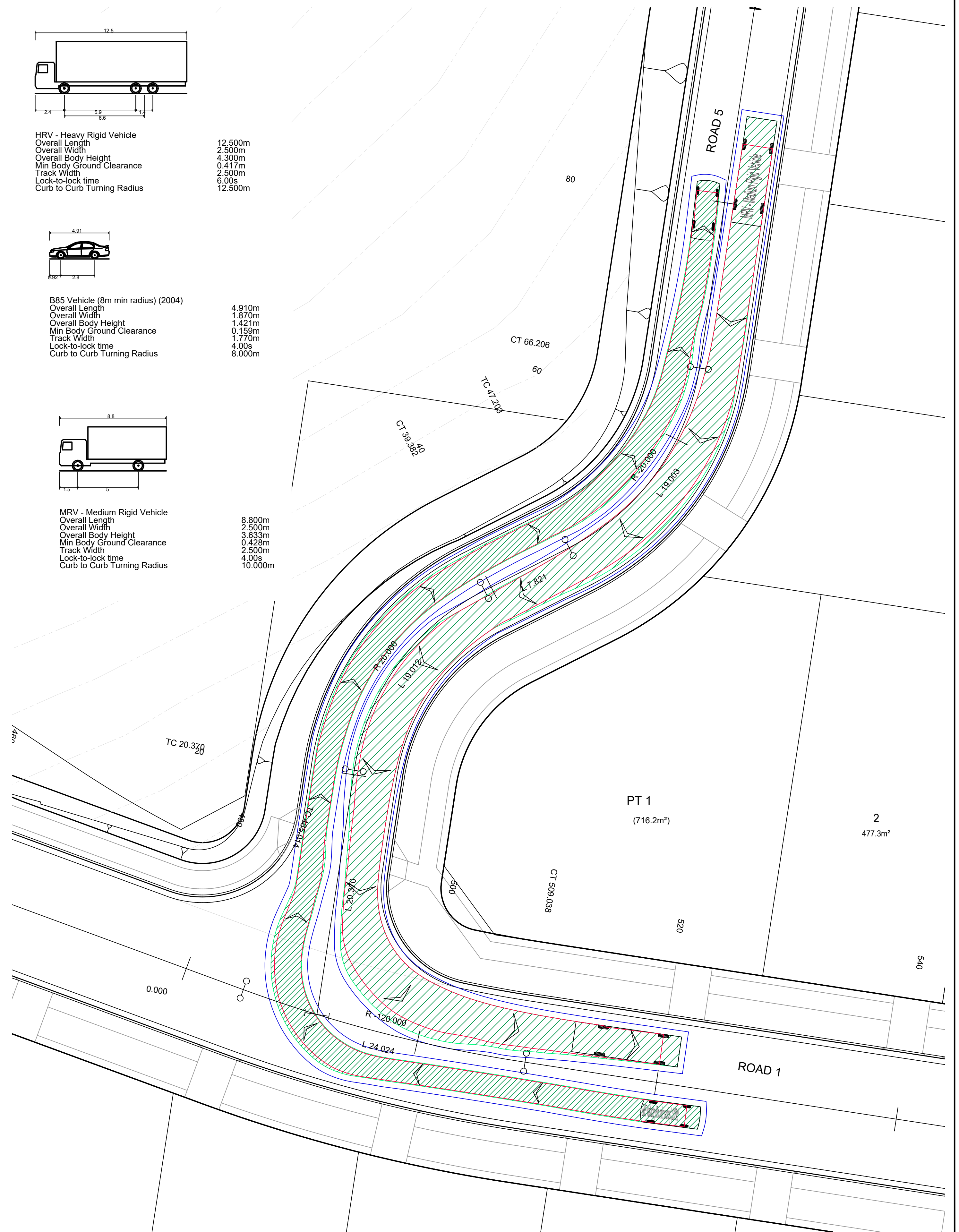
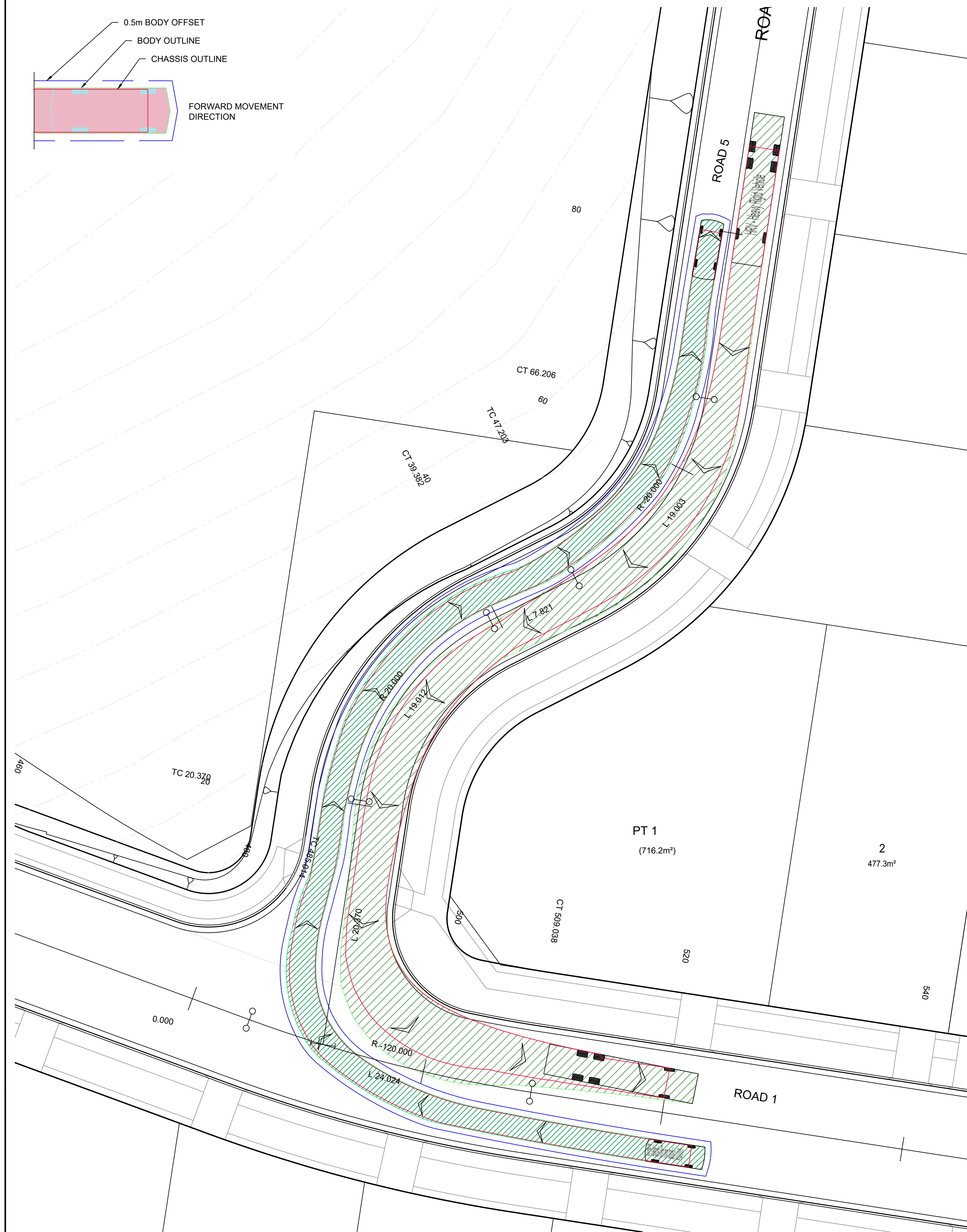
HRV - Heavy Rigid Vehicle
Overall Length 12.500m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.417m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



B85 Vehicle (8m min radius) (2004)
Overall Length 4.910m
Overall Width 1.870m
Overall Body Height 1.421m
Min Body Ground Clearance 0.159m
Track Width 1.770m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 8.000m



MRV - Medium Rigid Vehicle
Overall Length 8.800m
Overall Width 2.500m
Overall Body Height 3.633m
Min Body Ground Clearance 0.428m
Track Width 2.500m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 10.000m



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025

**BARKER
RYAN
STEWART**

SYDNEY
P: 02 9659 0005
CENTRAL COAST
P: 02 4325 5255

HUNTER
P: 02 4966 8388
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Client:

285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION

SWEPT PATH SHEET 5

DESIGNED: JT
DRAWN: DKH
CHECKED: SGB

Scales:

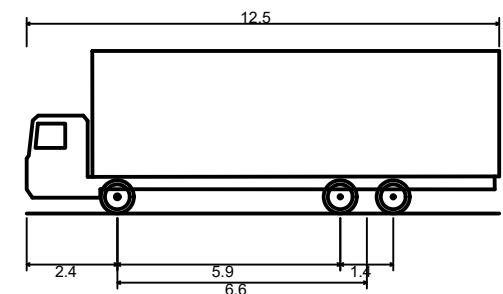
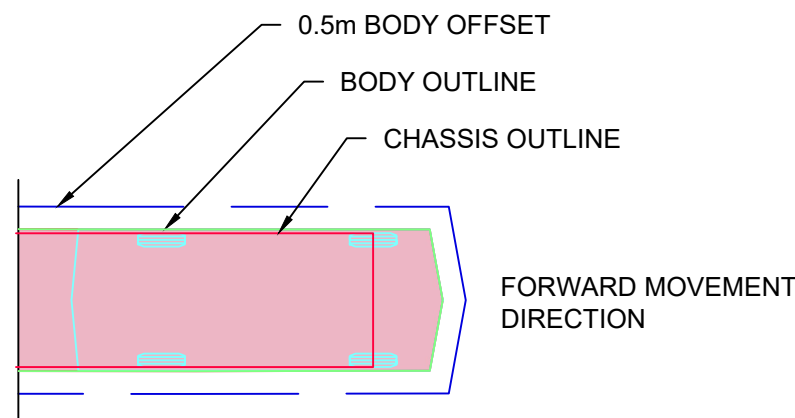
Plan 1:200
@A1
Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

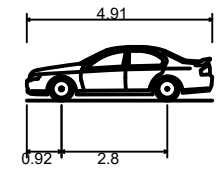
Plan No.
CC180099-07-905

File Ref.
CC180099

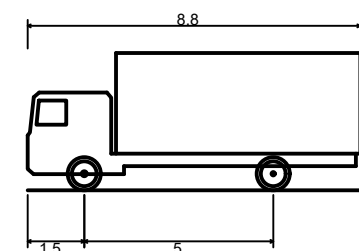
REV.
C



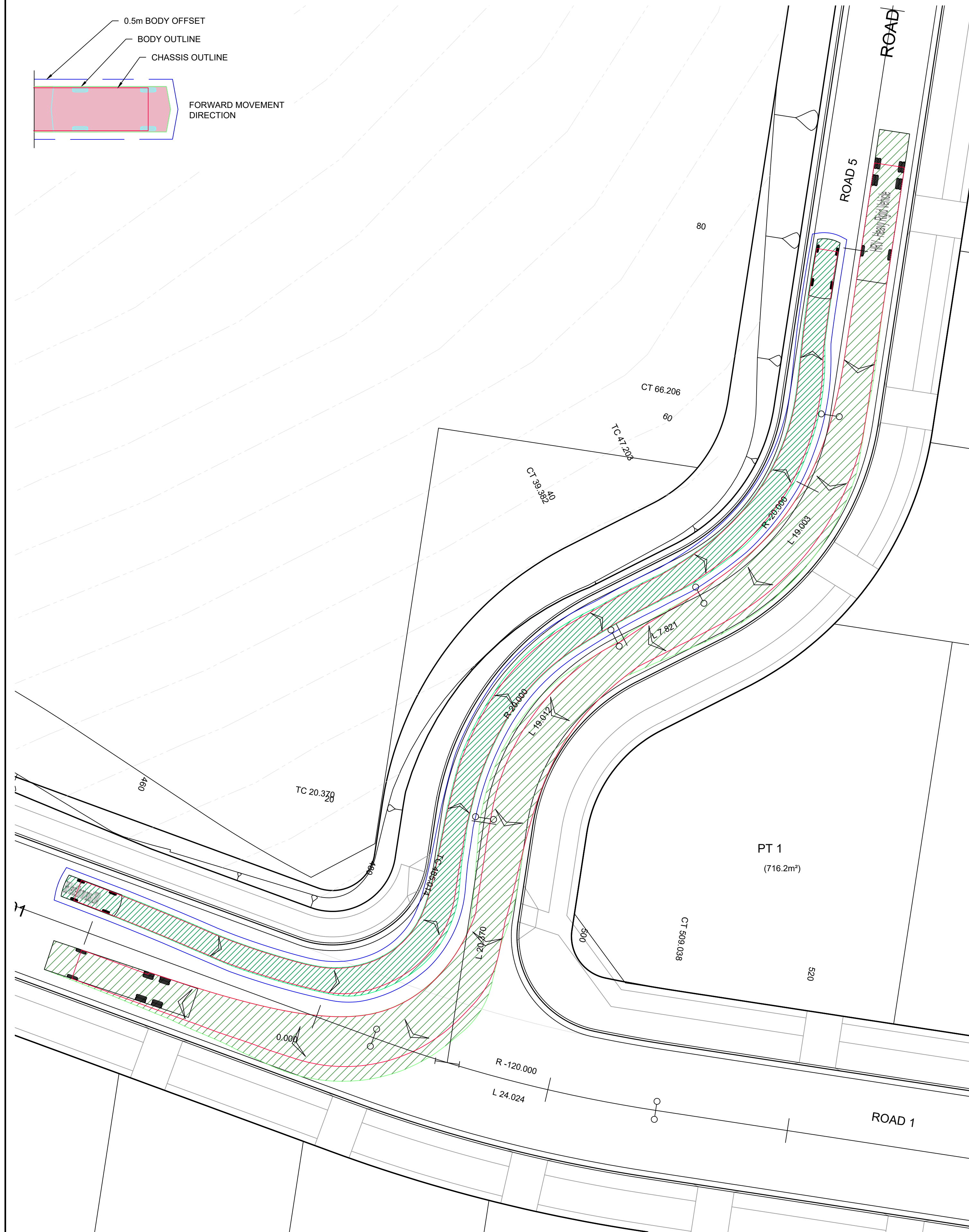
HRV - Heavy Rigid Vehicle
Overall Length 12.500m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.417m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



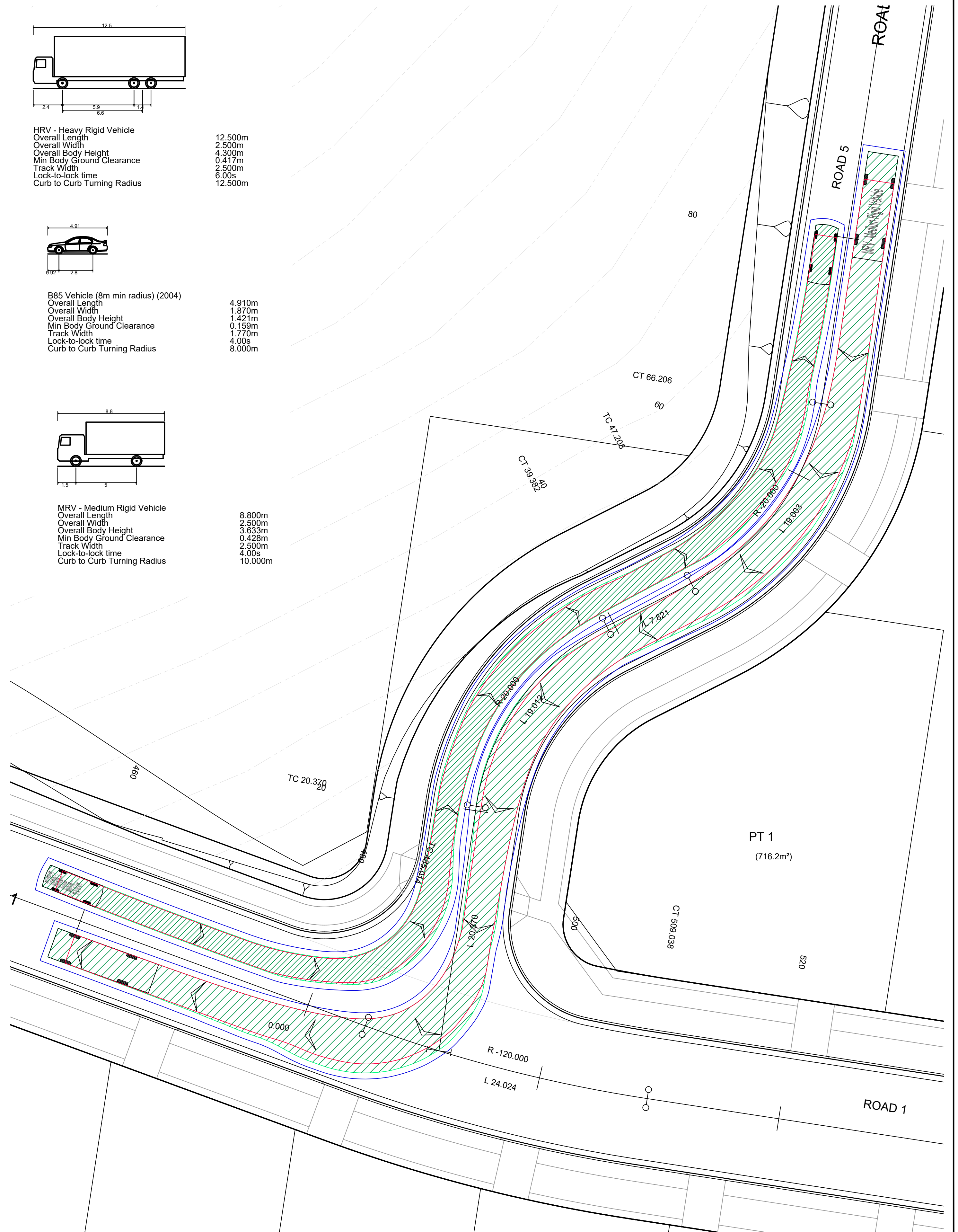
B85 Vehicle (8m min radius) (2004)
Overall Length 4.910m
Overall Width 1.870m
Overall Body Height 1.421m
Min Body Ground Clearance 0.159m
Track Width 1.770m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 8.000m



MRV - Medium Rigid Vehicle
Overall Length 8.800m
Overall Width 2.500m
Overall Body Height 3.633m
Min Body Ground Clearance 0.428m
Track Width 2.500m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 10.000m



CHECK VEHICLE
SCALE 1:200



DESIGN VEHICLE
SCALE 1:200



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



SYDNEY
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CENTRAL COAST
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ABN: 26 134 067 842
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Client:
ALDA ROSE URBAN LAND REDEVELOPMENT

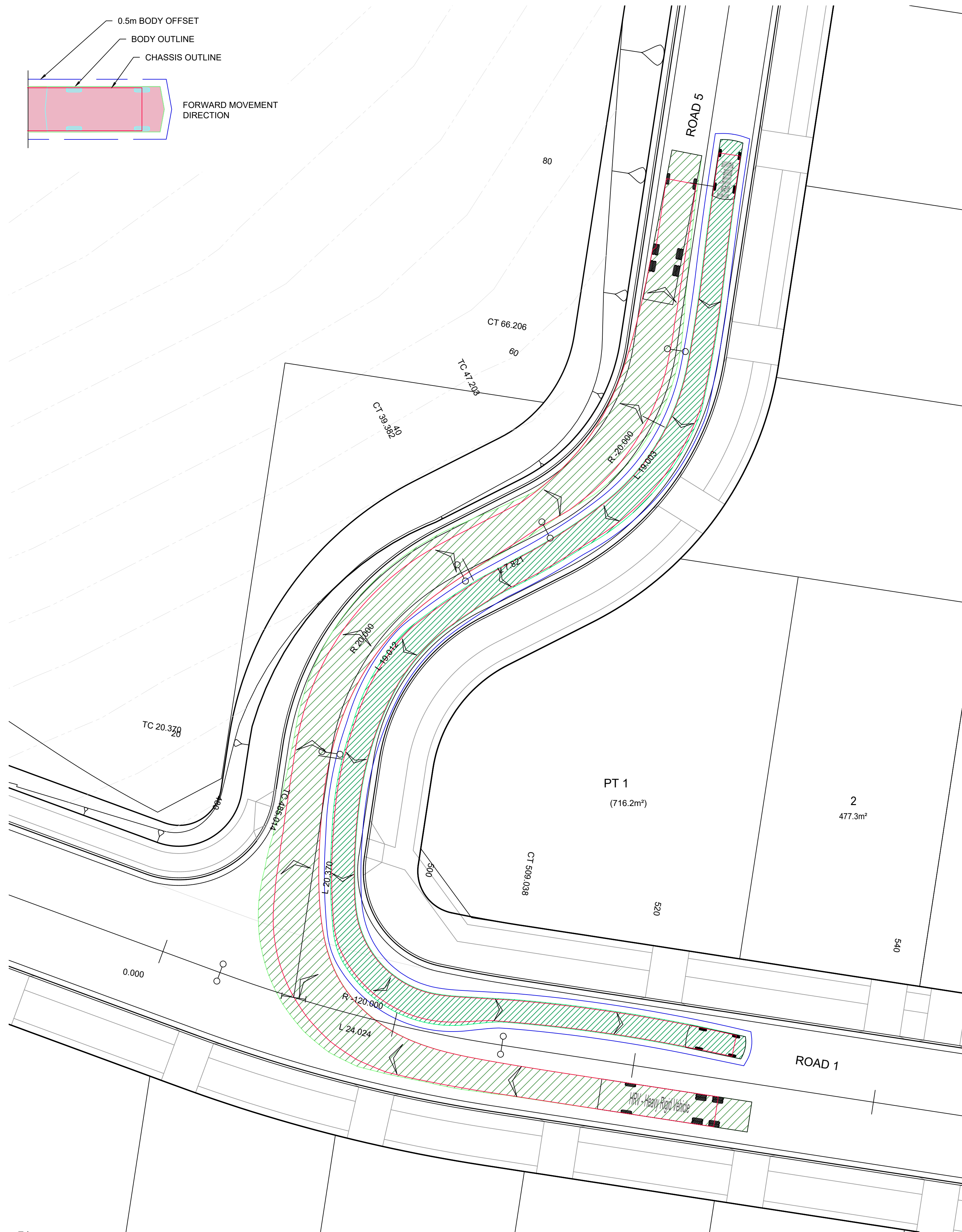
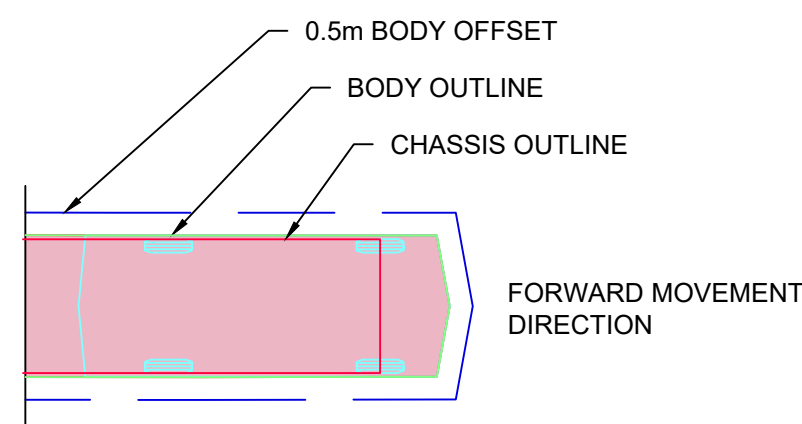
285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION

SWEEP PATH SHEET 6

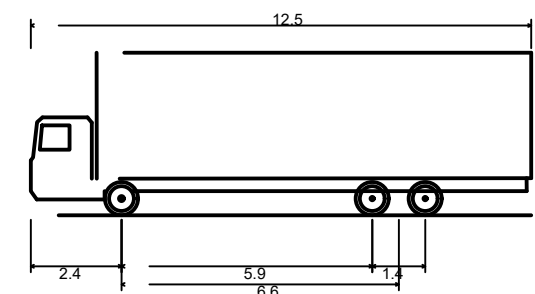
Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan 1:200
@A1 Horiz. -
Vert. -
X-Sect. -
Datum: A.H.D.

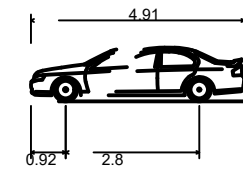
Plan No.
CC180099-07-906
File Ref.
CC180099
REV.
C



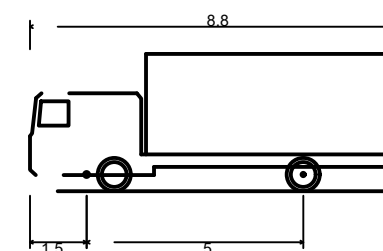
CHECK VEHICLE
SCALE 1:200



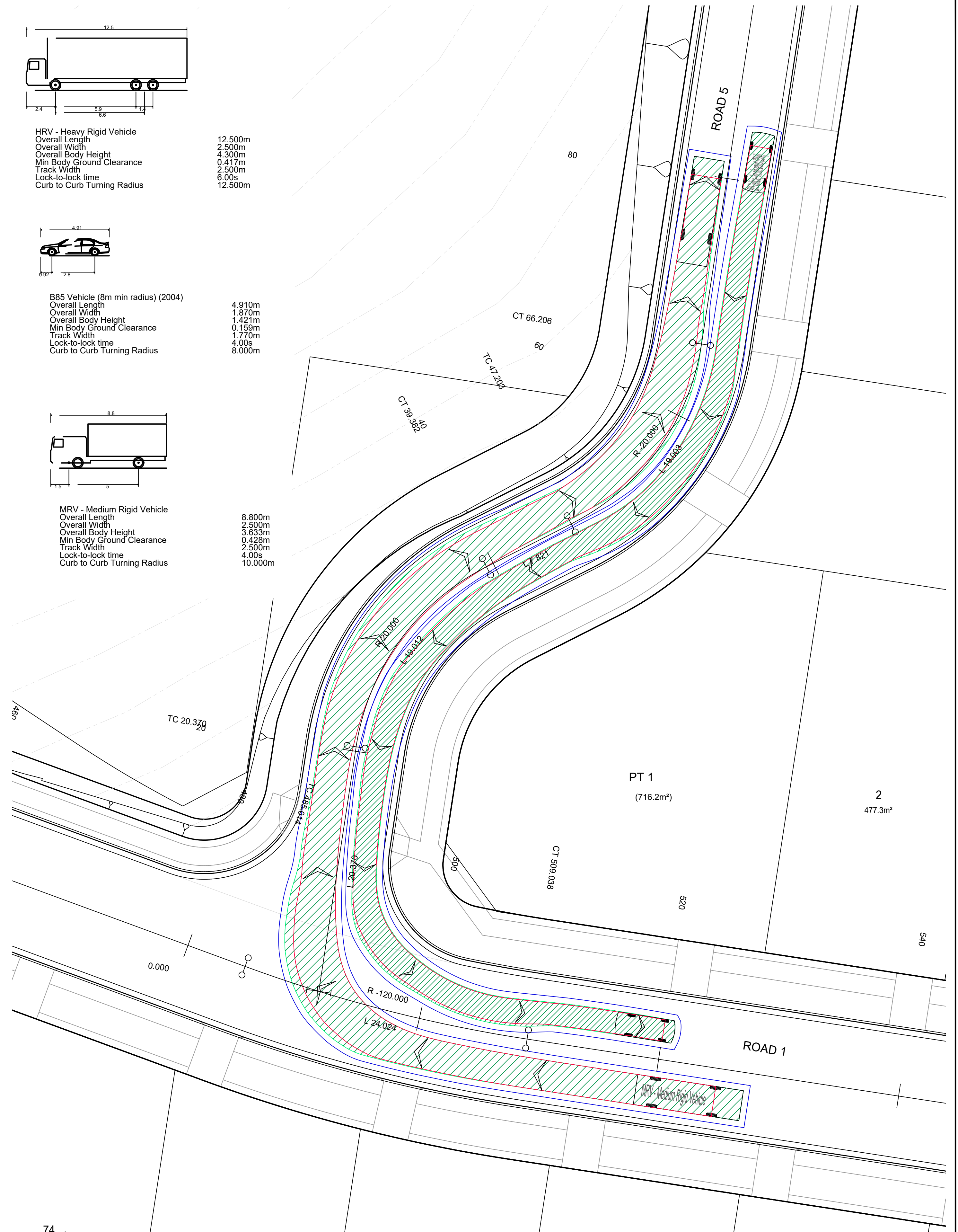
HRV - Heavy Rigid Vehicle
Overall Length 12.500m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.417m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



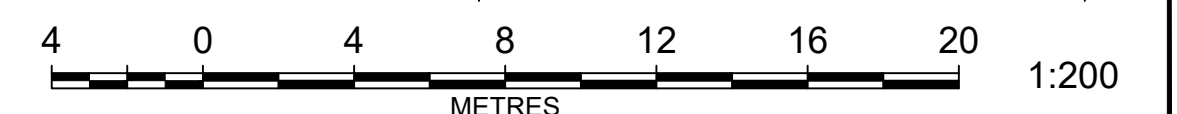
B85 Vehicle (8m min radius) (2004)
Overall Length 4.910m
Overall Width 1.870m
Overall Body Height 1.421m
Min Body Ground Clearance 0.159m
Track Width 1.770m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 8.000m



MRV - Medium Rigid Vehicle
Overall Length 8.800m
Overall Width 2.500m
Overall Body Height 3.633m
Min Body Ground Clearance 0.428m
Track Width 2.500m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 10.000m



DESIGN VEHICLE
SCALE 1:200



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



SYDNEY
P: 02 9659 0005
CENTRAL COAST
P: 02 4325 5255

HUNTER
P: 02 4966 8388
S.E. QLD
P: 07 5582 6555

Client:



URBAN LAND
REDEVELOPMENT

285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION

SWEEP PATH SHEET 7

Designed: JT
Drawn: DKH
Checked: SGB

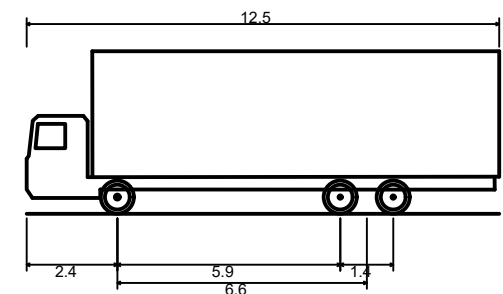
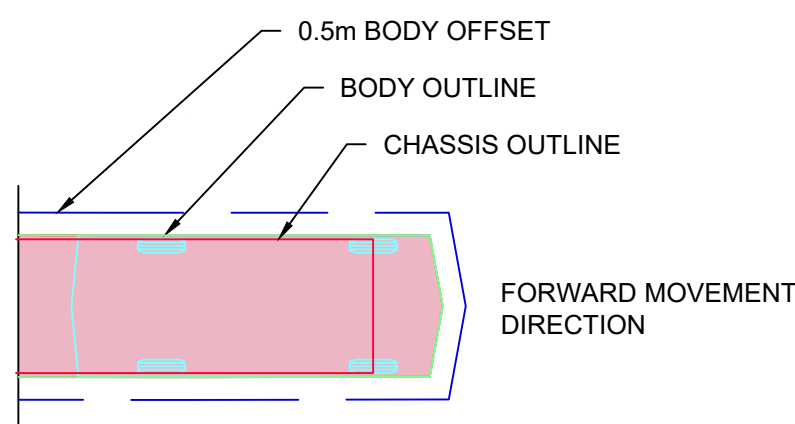
Scales: Plan 1:200
@A1
Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

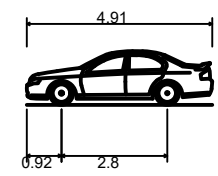
Plan No.
CC180099-07-907

File Ref.
CC180099

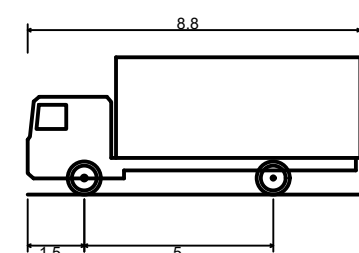
REV.
C



HRV - Heavy Rigid Vehicle
Overall Length 12.500m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.417m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



B85 Vehicle (8m min radius) (2004)
Overall Length 4.910m
Overall Width 1.870m
Overall Body Height 1.421m
Min Body Ground Clearance 0.159m
Track Width 1.770m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 8.000m



MRV - Medium Rigid Vehicle
Overall Length 8.800m
Overall Width 2.500m
Overall Body Height 3.633m
Min Body Ground Clearance 0.426m
Track Width 2.500m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 10.000m

CHECK VEHICLE
SCALE 1:200

DESIGN VEHICLE
SCALE 1:200



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



SYDNEY
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CENTRAL COAST
P: 02 4325 5255

HUNTER
P: 02 4966 8388
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P: 07 5582 6555

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285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION

SWEEP PATH SHEET 8

Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan 1:200
@A1 Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-07-908

File Ref.
CC180099

REV.
C



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025

**BARKER
RYAN
STEWART**

ENGINEERING | PLANNING | PROJECT MANAGEMENT | SURVEYING | CERTIFICATION

SYDNEY
P: 02 9659 0005
CENTRAL COAST
P: 02 4325 5255

HUNTER
P: 02 4966 8388
S.E. QLD
P: 07 5582 6555

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Client:

URBAN LAND
REDEVELOPMENT

285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION

SWEPT PATH SHEET 9

Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan 1:200
@A1 Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-07-909

File Ref.
CC180099

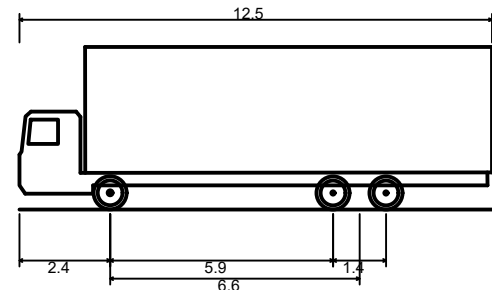
REV.
C



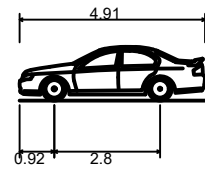
REV	AMENDMENT	ISSUED	DATE	 BARKER RYAN STEWART ENGINEERING PLANNING PROJECT MANAGEMENT SURVEYING CERTIFICATION	SYDNEY P: 02 9659 0005 CENTRAL COAST P: 02 4325 5255	HUNTER P: 02 4966 8388 S.E. QLD P: 07 5582 6555	Client:   URBAN LAND REDEVELOPMENT	285-325 PACIFIC HIGHWAY, LAKE MUNMORAH PROPOSED RESIDENTIAL SUBDIVISION	SWEPT PATH SHEET 11	Designed: JT Drawn: DKH Checked: SGB	Scales: Plan 1:200 @A1 Horiz. - Vert. - X-Sect. -	Datum: A.H.D.	Plan No. CC180099-07-911 File Ref. CC180099 REV. C
A	ISSUED FOR D.A.	SGB	03/11/2023										
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024										
C	REVISED FOR COUNCIL RFI	JT	11/03/2025										
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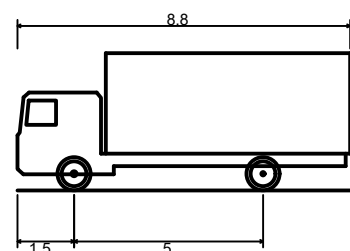
REV	AMENDMENT	ISSUED	DATE	 BARKER RYAN STEWART SYDNEY P: 02 9659 0005 CENTRAL COAST P: 02 4325 5255 HUNTER P: 02 4966 8388 S.E. QLD P: 07 5582 6555 www.brs.com.au mail@brs.com.au ABN: 26 134 067 842 ©2019 ENGINEERING PLANNING PROJECT MANAGEMENT SURVEYING CERTIFICATION	Client:	  URBAN LAND REDEVELOPMENT	285-325 PACIFIC HIGHWAY, LAKE MUNMORAH PROPOSED RESIDENTIAL SUBDIVISION	SWEPT PATH SHEET 12	Designed:	JT	Scales:	Plan	1:200	Plan No. CC180099-07-912																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
A	ISSUED FOR D.A.	SGB	03/11/2023		Drawn:				DKH	@A1	Horiz.	-	File Ref. CC180099																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024		Checked:				SGB		Vert.	-			REV. C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
C	REVISED FOR COUNCIL RFI	JT	11/03/2025								X-Sect.	-																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				



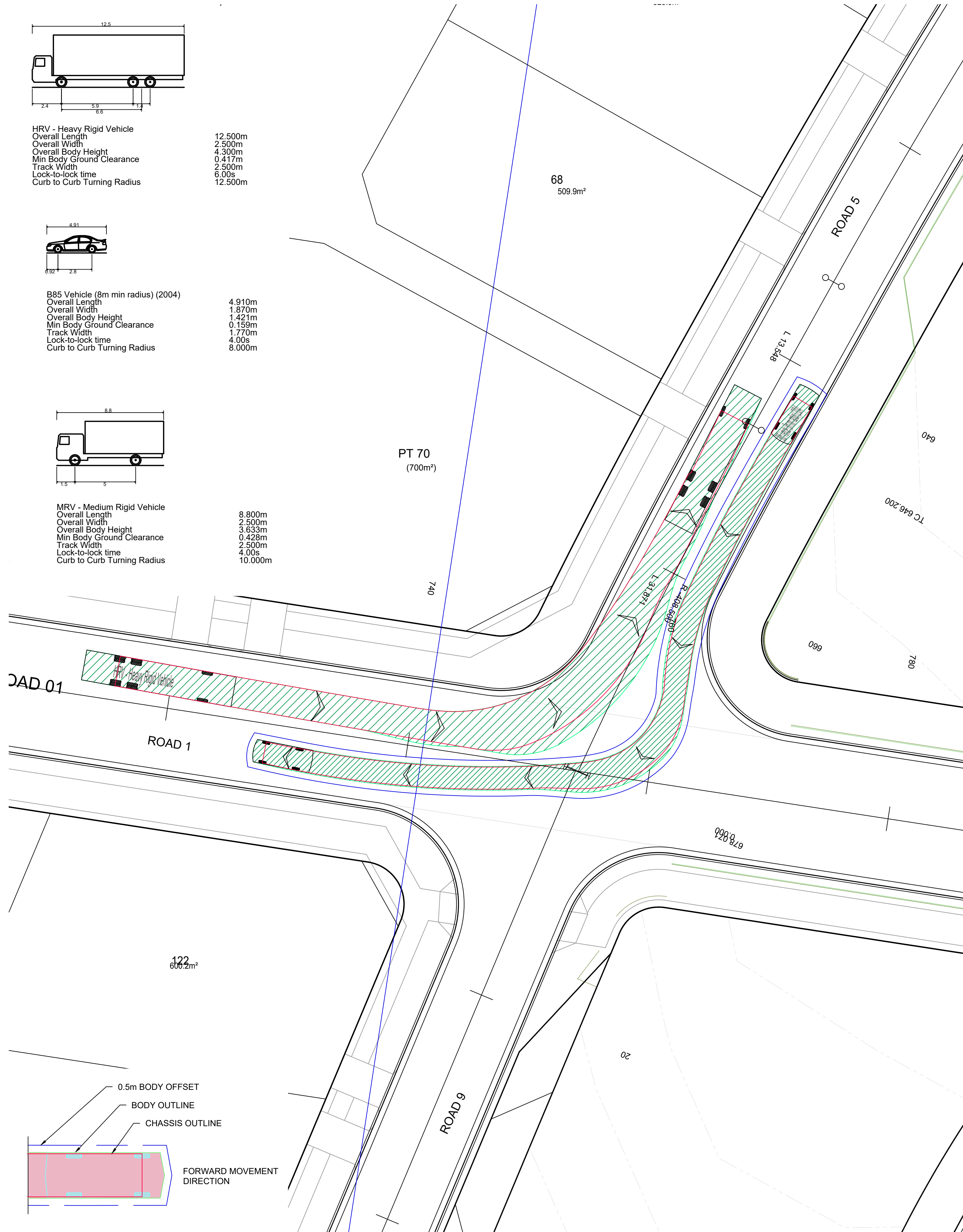
HRV - Heavy Rigid Vehicle
Overall Length 12.500m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.417m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



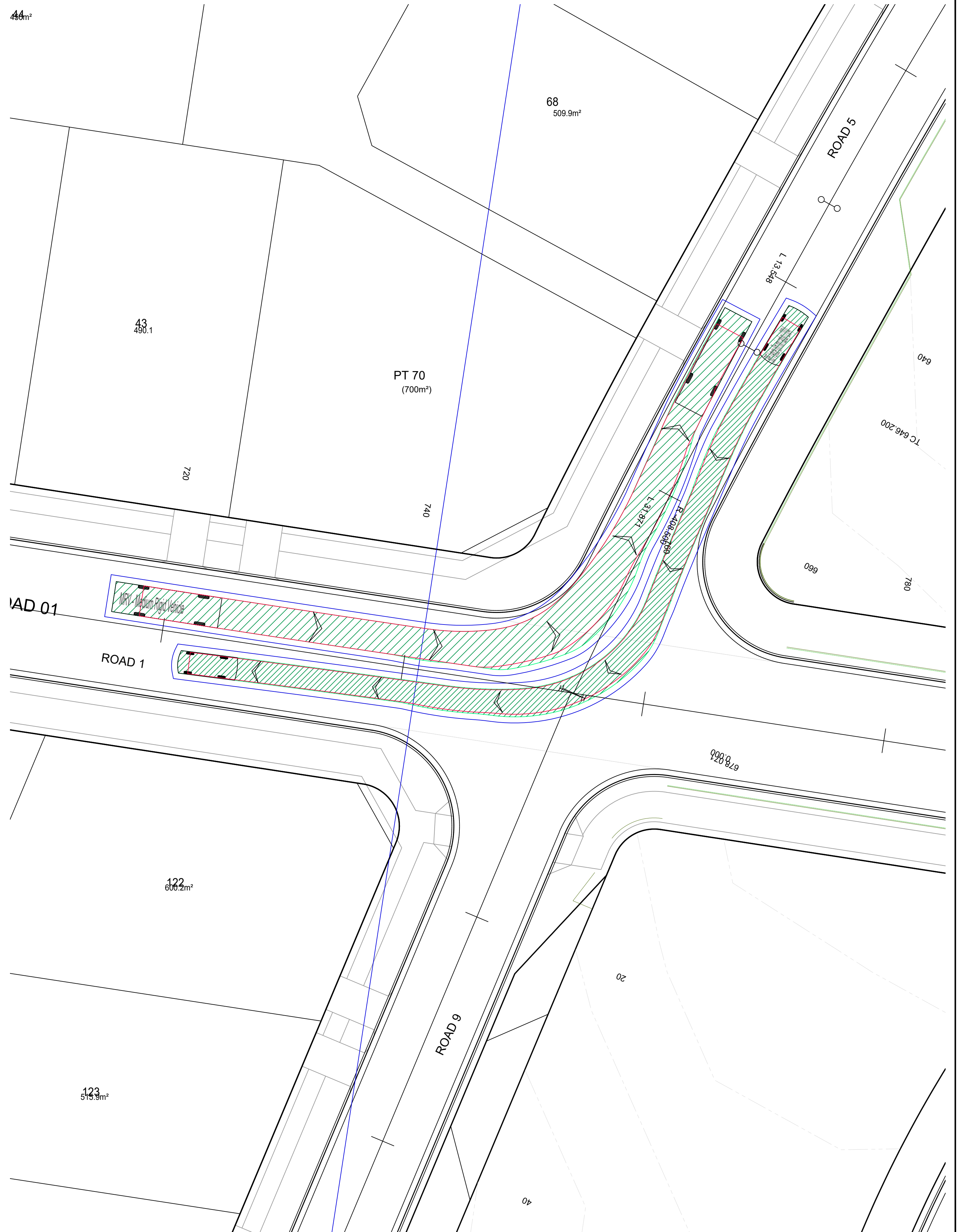
B85 Vehicle (8m min radius) (2004)
Overall Length 4.910m
Overall Width 1.870m
Overall Body Height 1.421m
Min Body Ground Clearance 0.159m
Track Width 1.770m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 8.000m



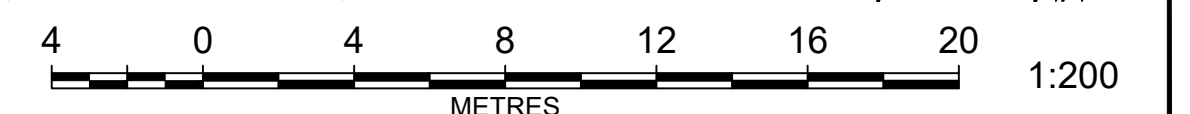
MRV - Medium Rigid Vehicle
Overall Length 8.800m
Overall Width 2.500m
Overall Body Height 3.633m
Min Body Ground Clearance 0.428m
Track Width 2.500m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 10.000m



CHECK VEHICLE
SCALE 1:200



DESIGN VEHICLE
SCALE 1:200



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



SYDNEY
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Client:
ALDA ROSE URBAN LAND REDEVELOPMENT
PROPERTIES PTY LTD

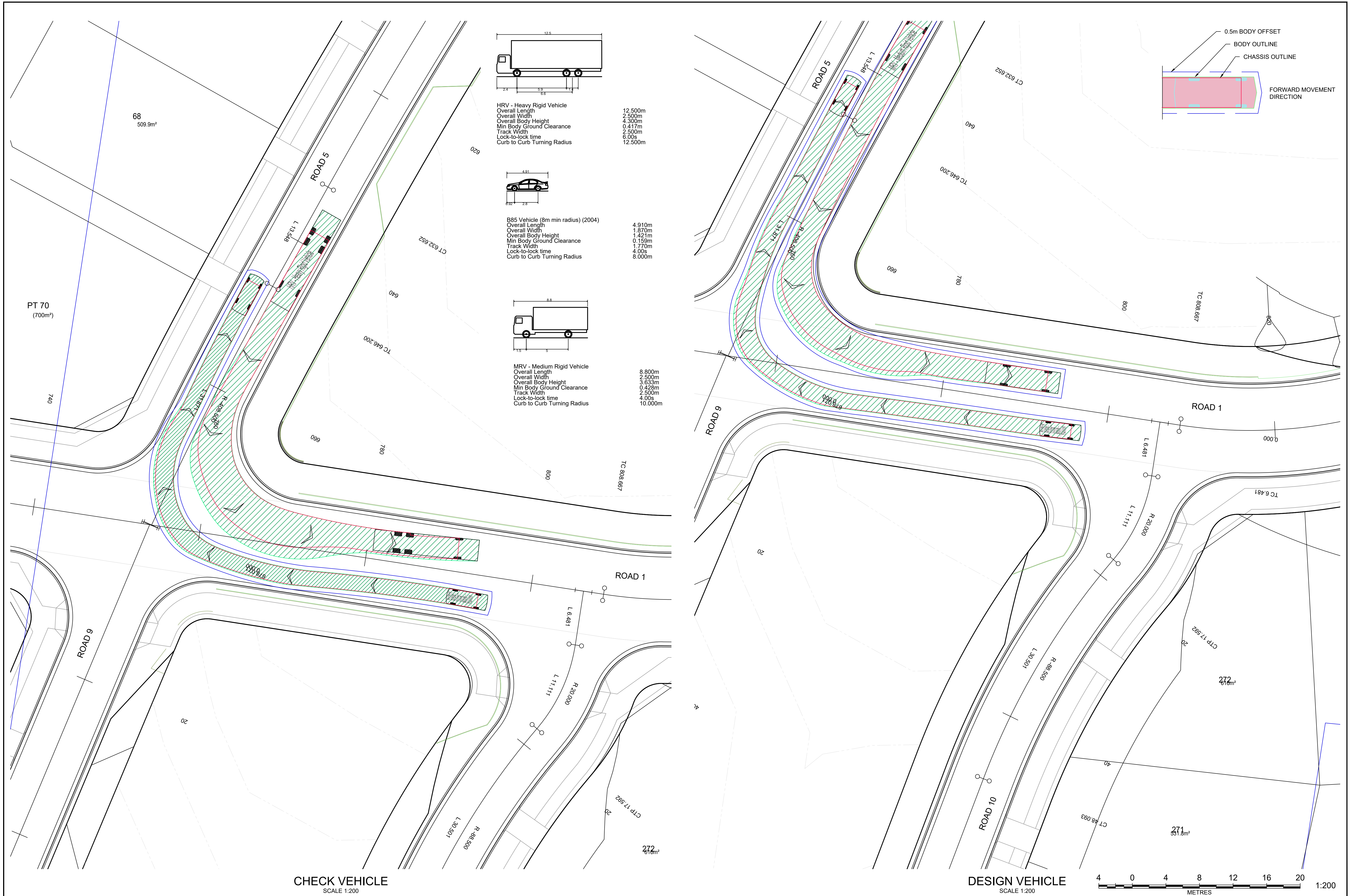
285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION

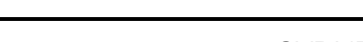
SWEPT PATH SHEET 13

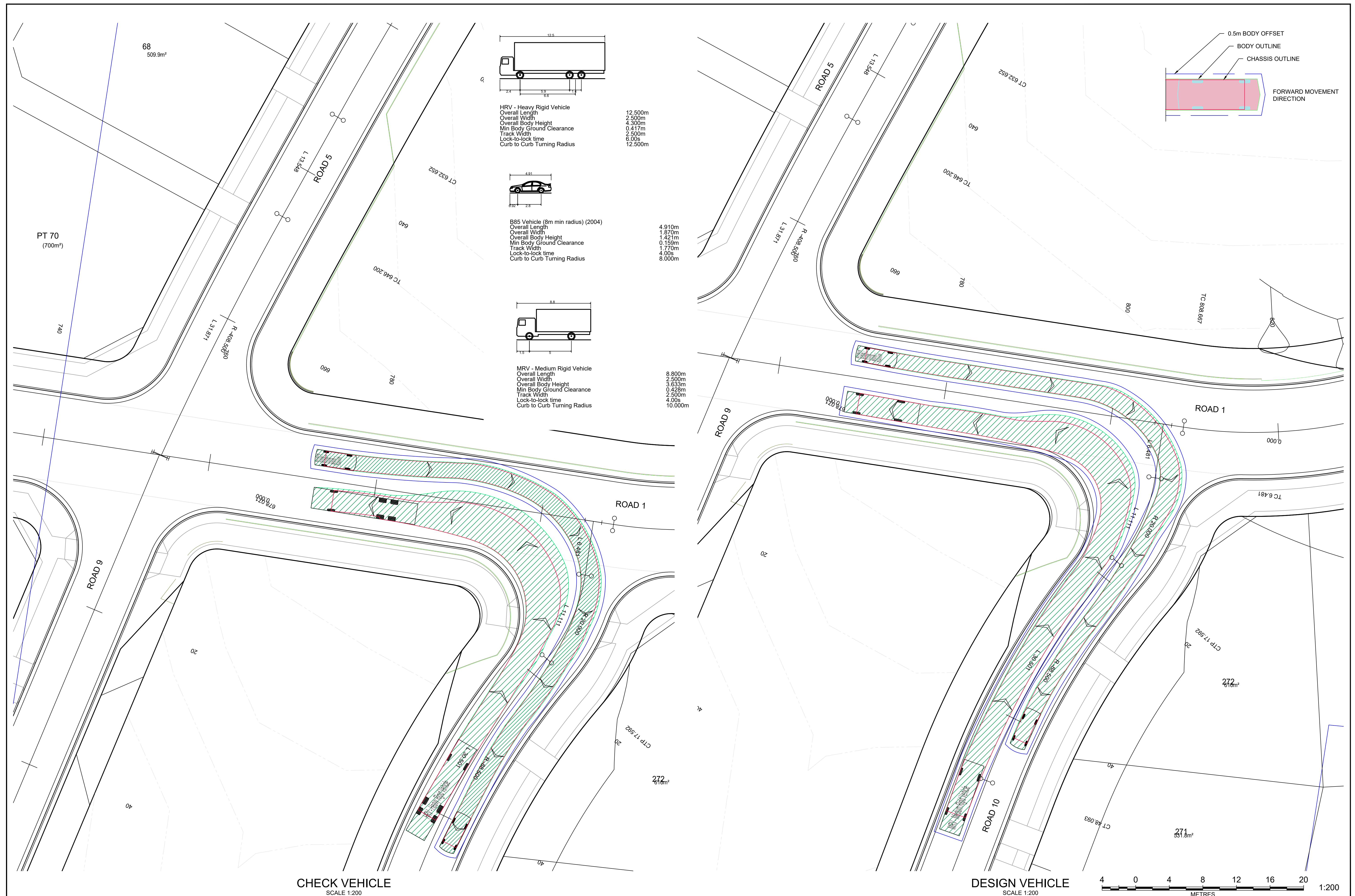
Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan 1:200
@A1 Horiz. -
Vert. -
X-Sept. -
Datum: A.H.D.

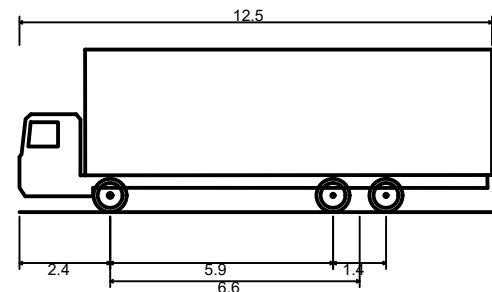
Plan No.
CC180099-07-913
File Ref.
CC180099
REV.
C



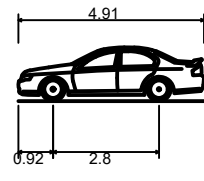
REV	AMENDMENT	ISSUED	DATE	 BARKER RYAN STEWART ENGINEERING PLANNING PROJECT MANAGEMENT SURVEYING CERTIFICATION	SYDNEY P: 02 9659 0005 CENTRAL COAST P: 02 4325 5255	HUNTER P: 02 4965 8388 S.E. QLD P: 07 5582 6555	Client:   URBAN LAND REDEVELOPMENT	285-325 PACIFIC HIGHWAY, LAKE MUNMORAH PROPOSED RESIDENTIAL SUBDIVISION	SWEPT PATH SHEET 14	Designed: JT Drawn: DKH Checked: SGB	Scales: Plan 1:200 @A1 Horiz. - Vert. - X-Sect. - Datum: A.H.D.	Plan No. CC180099-07-914 File Ref. CC180099 REV. C
A	ISSUED FOR D.A.	SGB	03/11/2023									
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024									
C	REVISED FOR COUNCIL RFI	JT	11/03/2025									



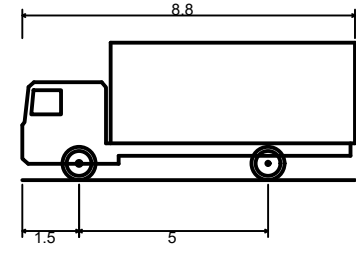
REV	AMENDMENT	ISSUED	DATE	 BARKER RYAN STEWART SYDNEY P. 02 9659 0005 CENTRAL COAST P. 02 4325 5255 HUNTER P. 02 4966 8388 S.E. QLD P. 07 5582 6555 www.brs.com.au mail@brs.com.au ABN: 26 134 067 842 ©2019 ENGINEERING PLANNING PROJECT MANAGEMENT SURVEYING CERTIFICATION	Client:   URBAN LAND REDEVELOPMENT 285-325 PACIFIC HIGHWAY, LAKE MUNMORAH PROPOSED RESIDENTIAL SUBDIVISION SWEPT PATH SHEET 15	Designed: JT Drawn: DKH Checked: SGB Scales: Plan 1:200 @A1 Horiz. - Vert. - X-Sect. - Datum: A.H.D.	Plan No. CC180099-07-915 REV. C File Ref. CC180099
A	ISSUED FOR D.A.	SGB	03/11/2023				
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024				
C	REVISED FOR COUNCIL RFI	JT	11/03/2025				



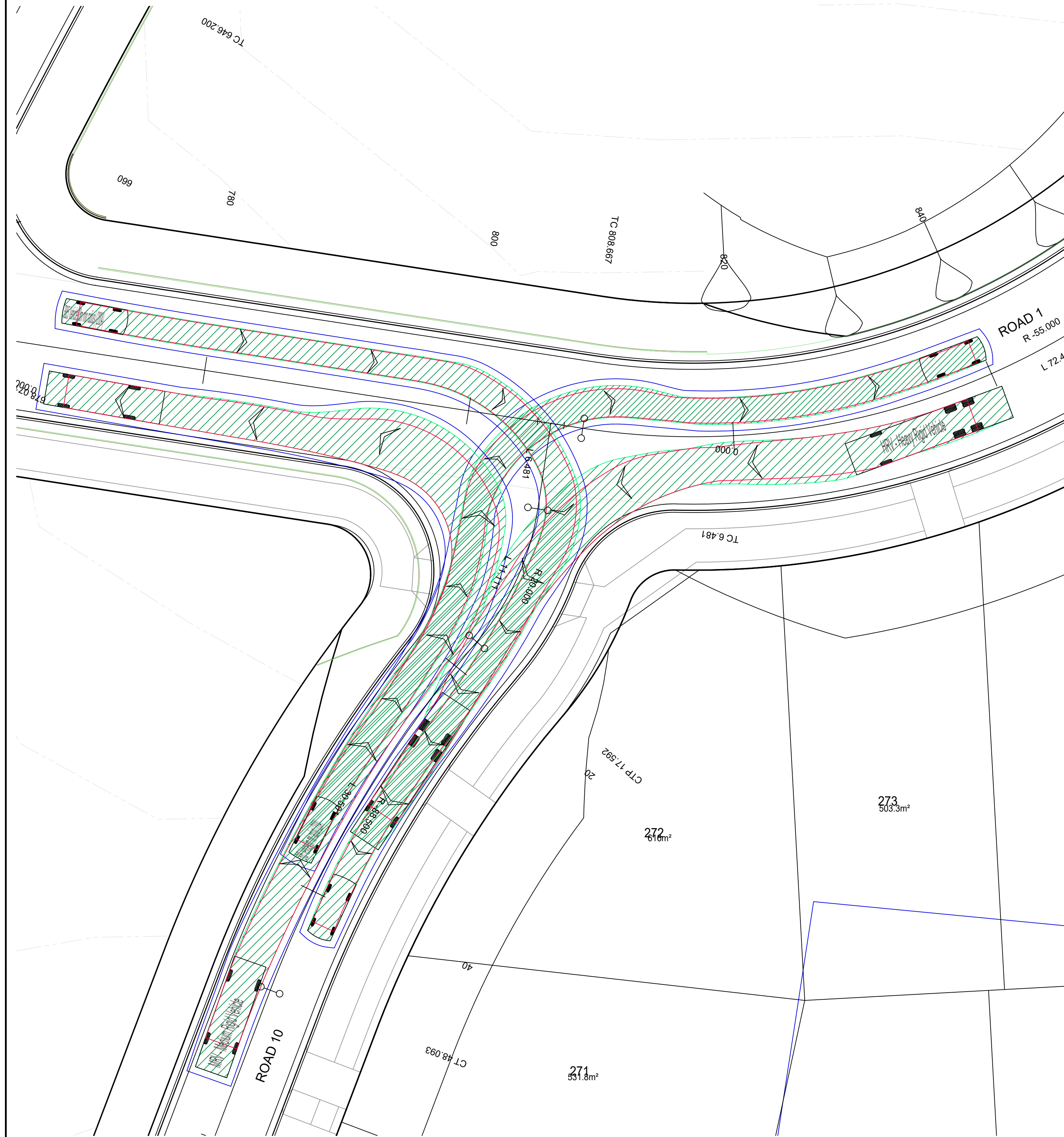
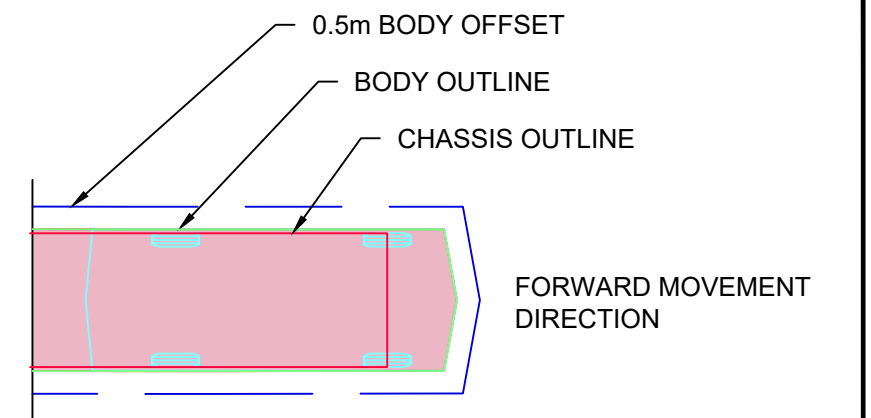
HRV - Heavy Rigid Vehicle
Overall Length 12.500m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.417m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



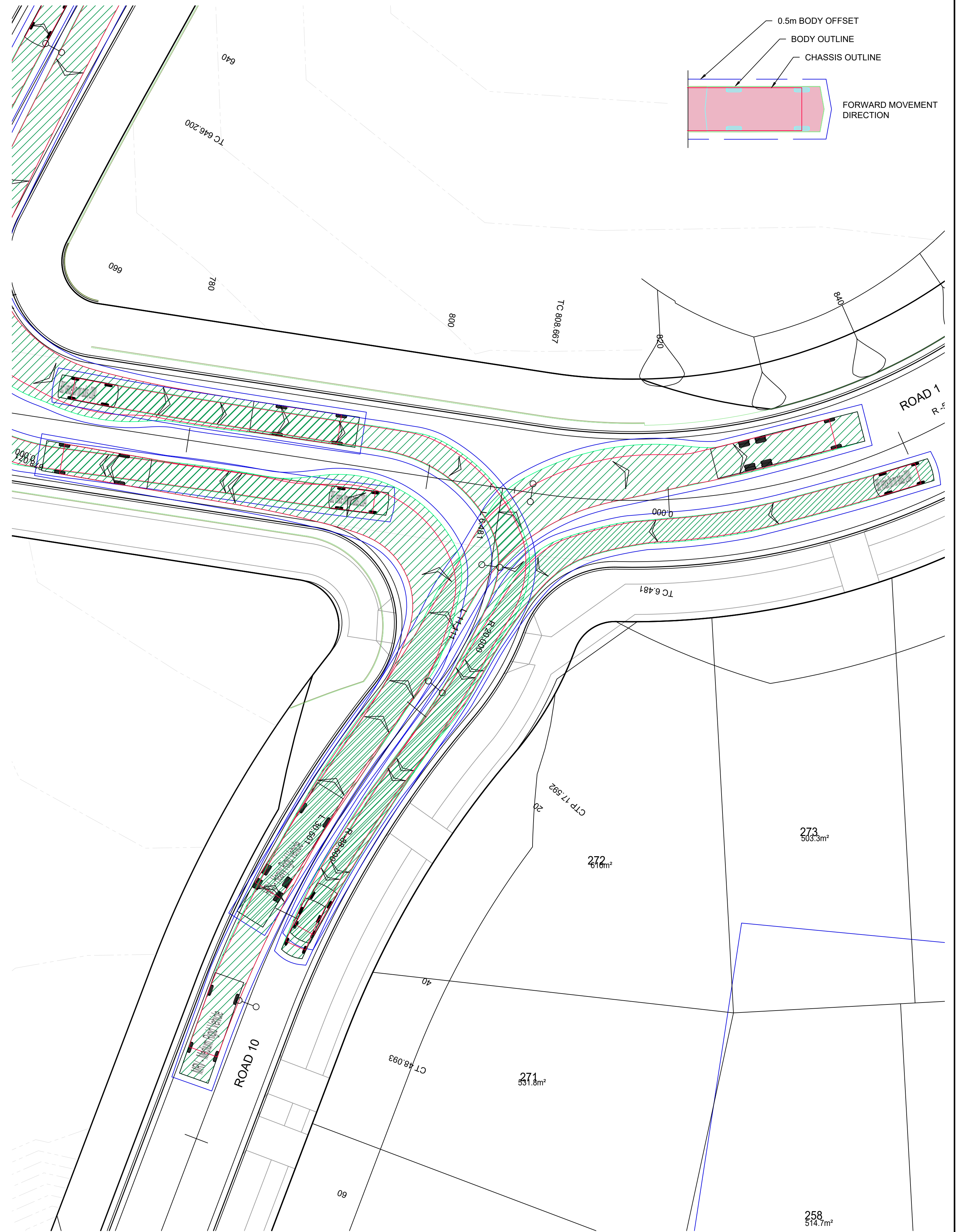
B85 Vehicle (8m min radius) (2004)
Overall Length 4.910m
Overall Width 1.870m
Overall Body Height 1.421m
Min Body Ground Clearance 0.159m
Track Width 1.770m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 8.000m



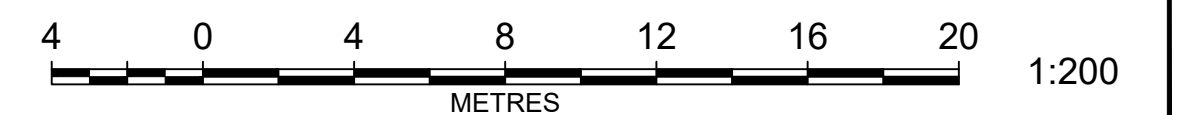
MRV - Medium Rigid Vehicle
Overall Length 8.800m
Overall Width 2.500m
Overall Body Height 3.633m
Min Body Ground Clearance 0.428m
Track Width 2.500m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 10.000m



CHECK VEHICLE
SCALE 1:200



CHECK VEHICLE
SCALE 1:200



REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



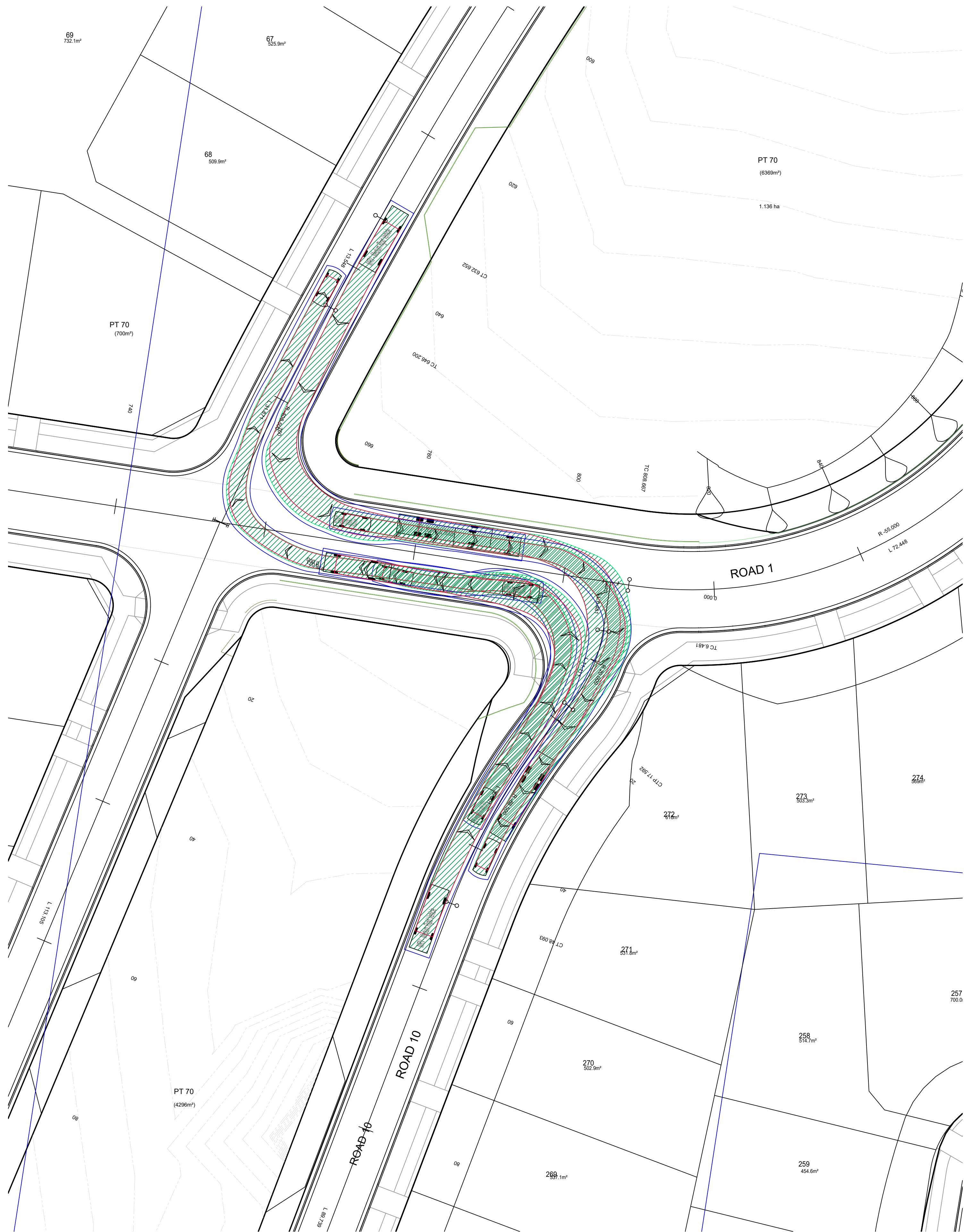
SYDNEY
P: 02 9659 0005
CENTRAL COAST
P: 02 4325 5255
HUNTER
P: 02 4966 8388
S.E. QLD
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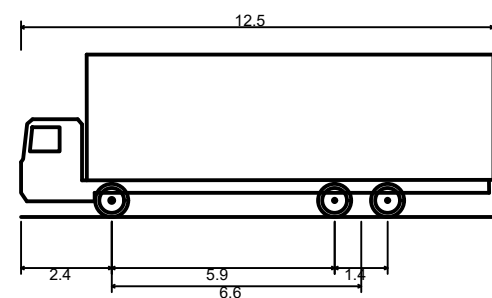
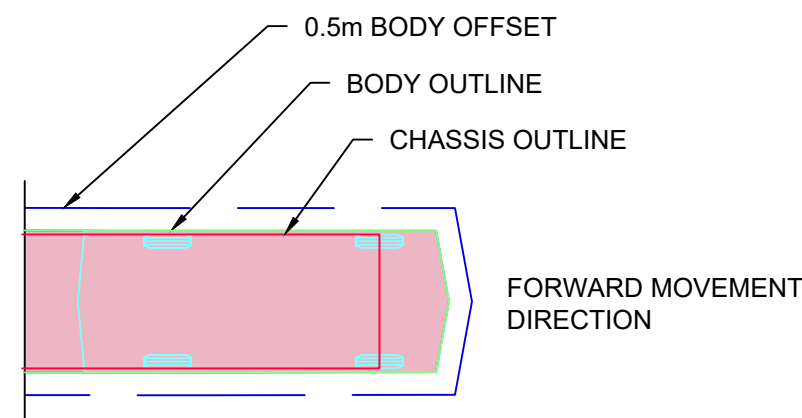
285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION
SWEEP PATH SHEET 16

Designed: JT
Drawn: DKH
Checked: SGB
Scales: Plan 1:200
@A1 Horiz. -
Vert. -
X-Sect. -
Datum: A.H.D.

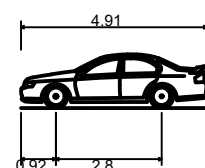
Plan No.
CC180099-07-916
File Ref.
CC180099
REV.
C



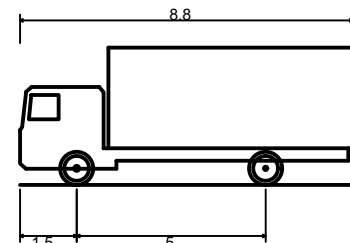
CHECK VEHICLE
N.T.S.



HRV - Heavy Rigid Vehicle
Overall Length 12.500m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.417m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



B85 Vehicle (8m min radius) (2004)
Overall Length 4.910m
Overall Width 1.870m
Overall Body Height 1.421m
Min Body Ground Clearance 0.159m
Track Width 1.770m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 8.000m



MRV - Medium Rigid Vehicle
Overall Length 8.800m
Overall Width 2.500m
Overall Body Height 3.633m
Min Body Ground Clearance 0.428m
Track Width 2.500m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 10.000m

REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



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285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION

SWEPT PATH SHEET 17

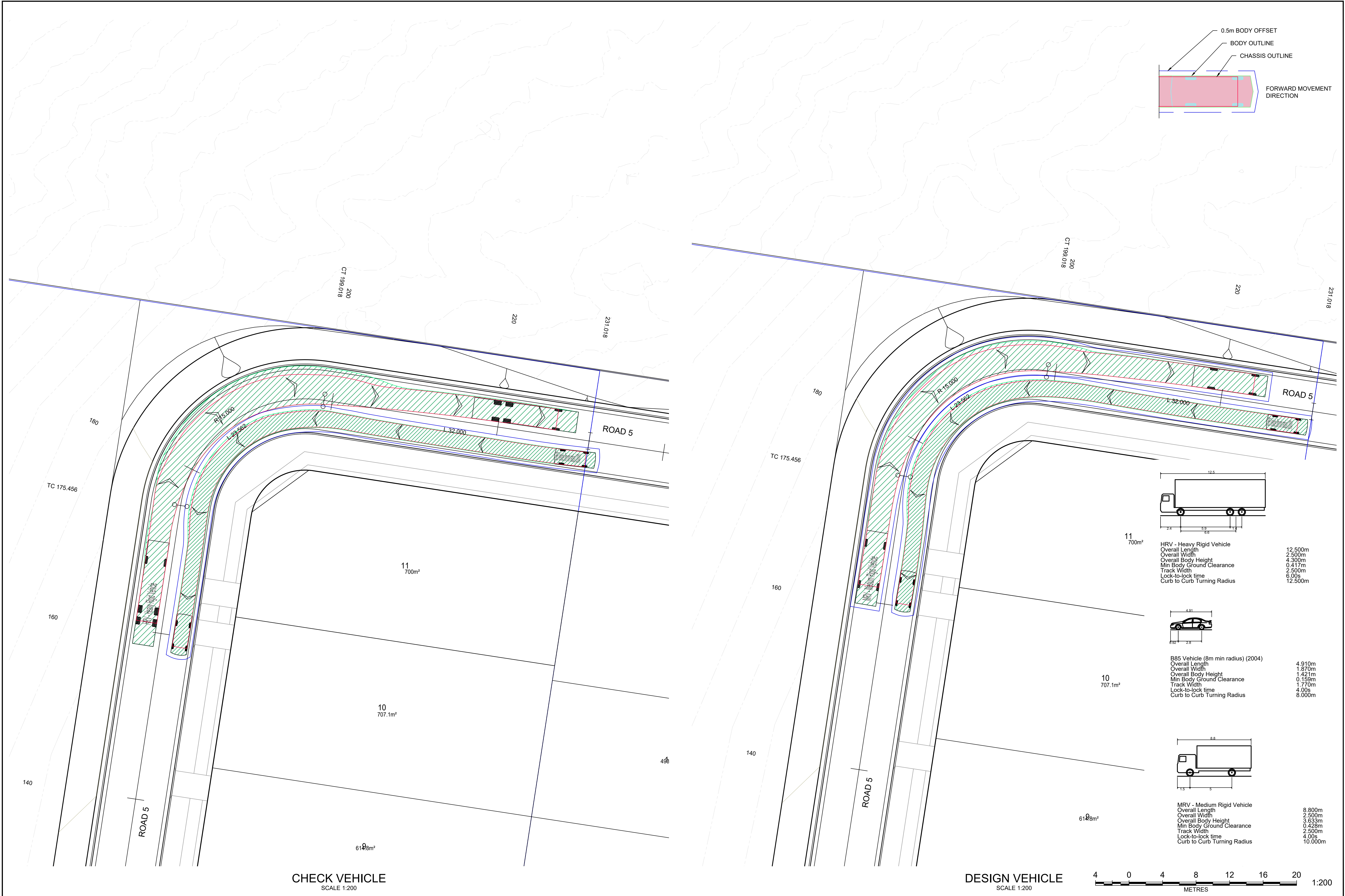
Designed: JT
Drawn: DKH
Checked: SGB

Scales: Plan -
@A1 Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-07-917
File Ref.
CC180099

REV.
C

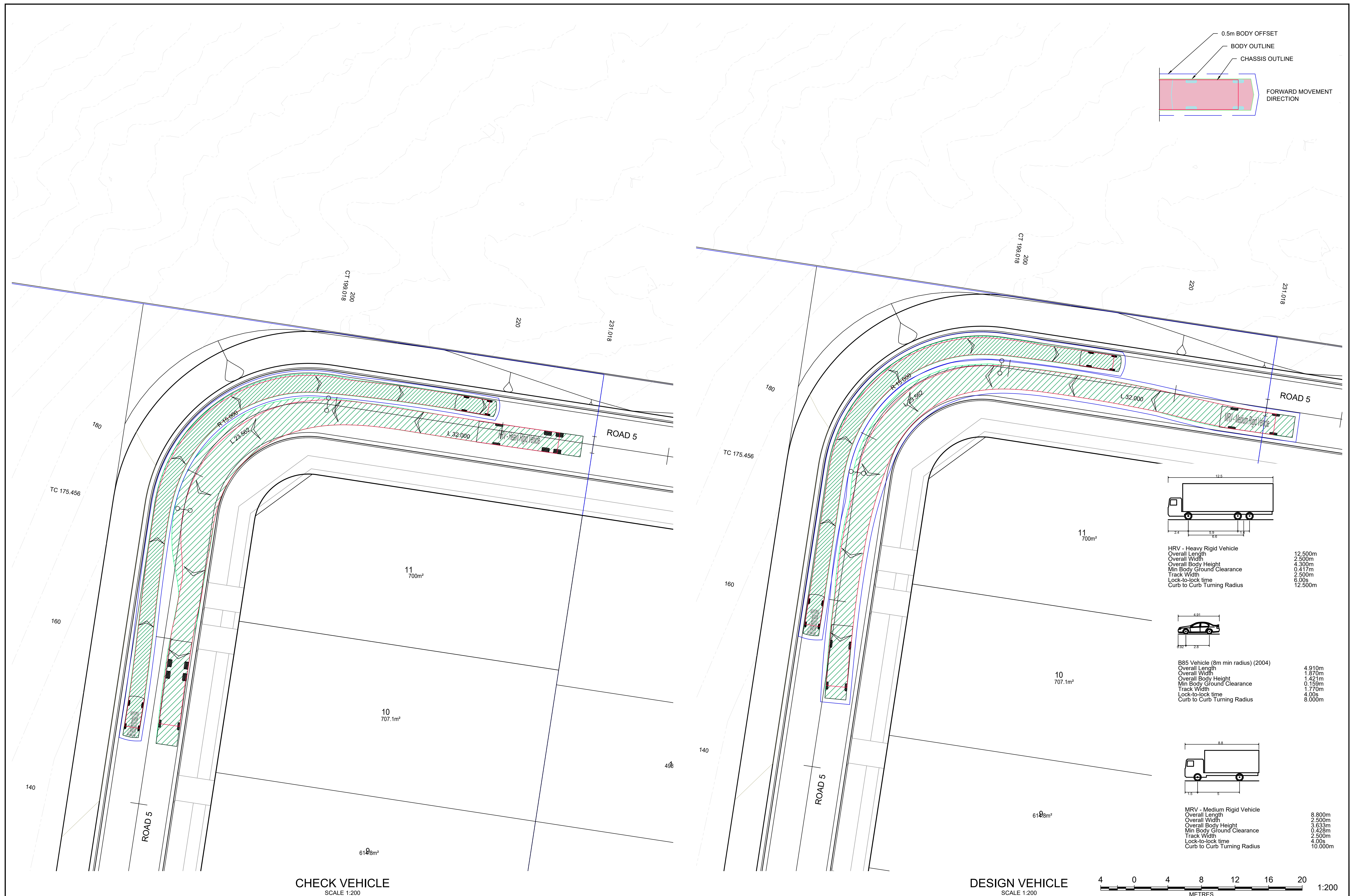


REV	AMENDMENT	ISSUED	DATE																
A	ISSUED FOR D.A.	SGB	03/11/2023																
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024																
C	REVISED FOR COUNCIL RFI	JT	11/03/2025																

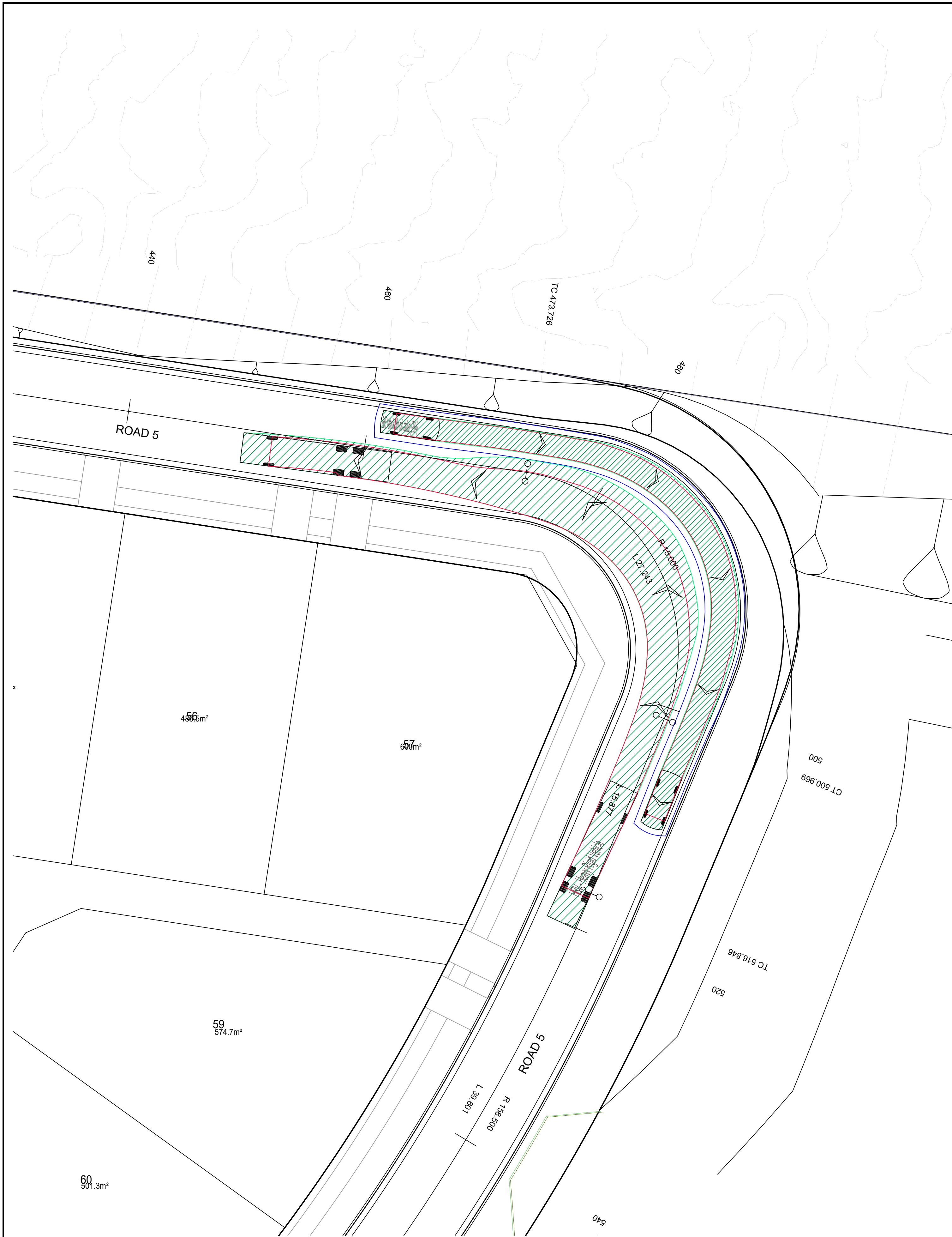
	BARKER RYAN STEWART	SYDNEY P: 02 9659 0005 CENTRAL COAST P: 02 4325 5255	HUNTER P: 02 4966 8388 S.E. QLD P: 07 5582 6555	Client:   URBAN LAND REDEVELOPMENT	285-325 PACIFIC HIGHWAY, LAKE MUNMORAH PROPOSED RESIDENTIAL SUBDIVISION	Designed: JT Drawn: DKH Checked: SGB	Scales: Plan 1:200 @A1 Horiz. - Vert. - X-Sect. - Datum: A.H.D.	Plan No. CC180099-07-918 File Ref. CC180099	REV. C

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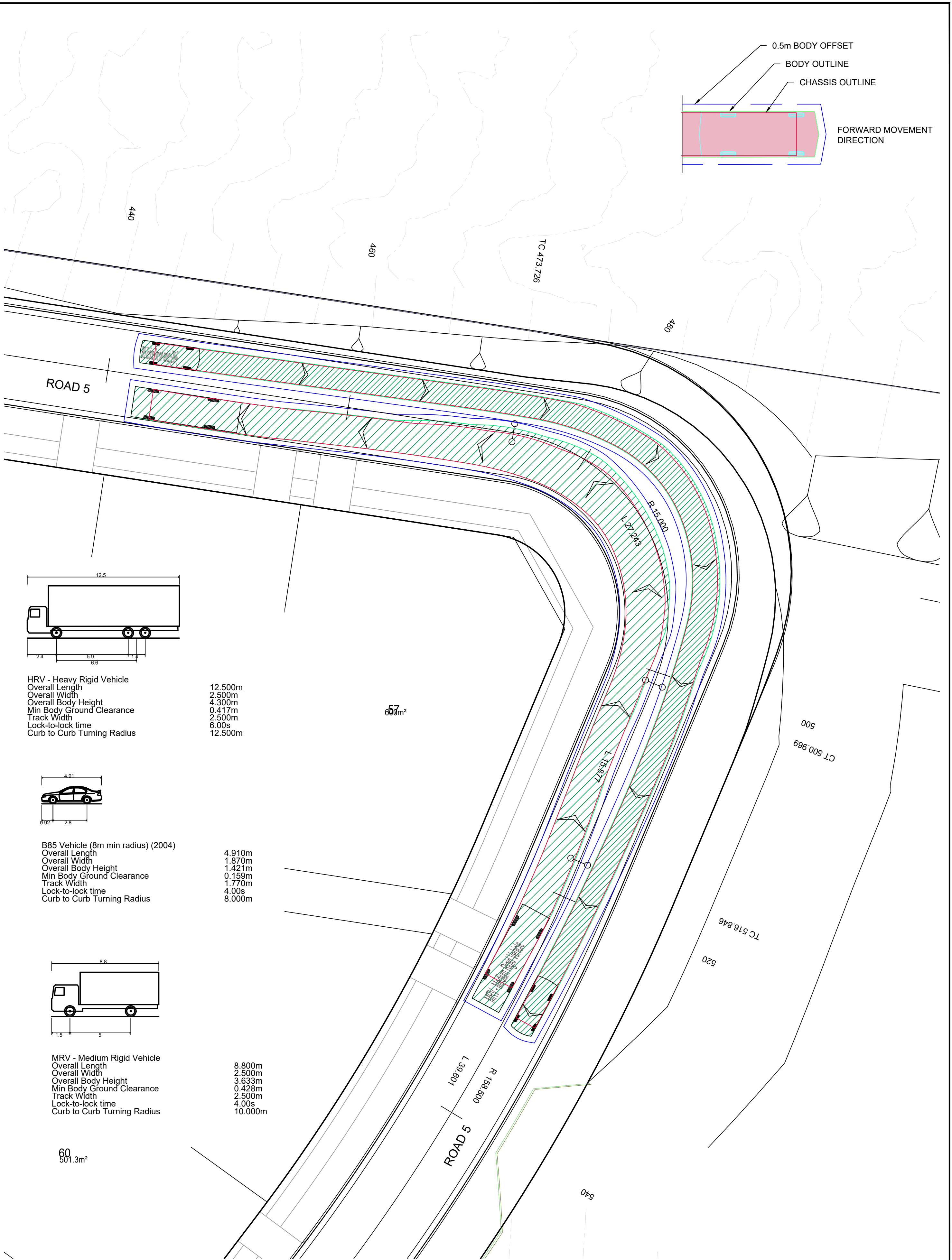
285-325 PACIFIC HIGHWAY, LAKE MUNMORAH PROPOSED RESIDENTIAL SUBDIVISION				SWEPT PATH SHEET 18			
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REV	AMENDMENT	ISSUED	DATE	 BARKER RYAN STEWART ENGINEERING PLANNING PROJECT MANAGEMENT SURVEYING CERTIFICATION	SYDNEY P: 02 9659 0005 CENTRAL COAST P: 02 4325 5255	HUNTER P: 02 4966 8388 S.E. QLD P: 07 5582 6555	Client:  	285-325 PACIFIC HIGHWAY, LAKE MUNMORAH PROPOSED RESIDENTIAL SUBDIVISION SWEPT PATH SHEET 19	Designed: JT Drawn: DKH Checked: SGB	Scales: Plan 1:200 @A1 Horiz. - Vert. - X-Sect. - Datum: A.H.D.	Plan No. CC180099-07-919 File Ref. CC180099 REV. C
A	ISSUED FOR D.A.	SGB	03/11/2023								
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024								
C	REVISED FOR COUNCIL RFI	JT	11/03/2025								



CHECK VEHICLE
SCALE 1:200



DESIGN VEHICLE
SCALE 1:200

REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



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ALDA ROSE URBAN LAND REDEVELOPMENT

285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION

SWEPT PATH SHEET 20

Designed: JT
Drawn: DKH
Checked: SGB

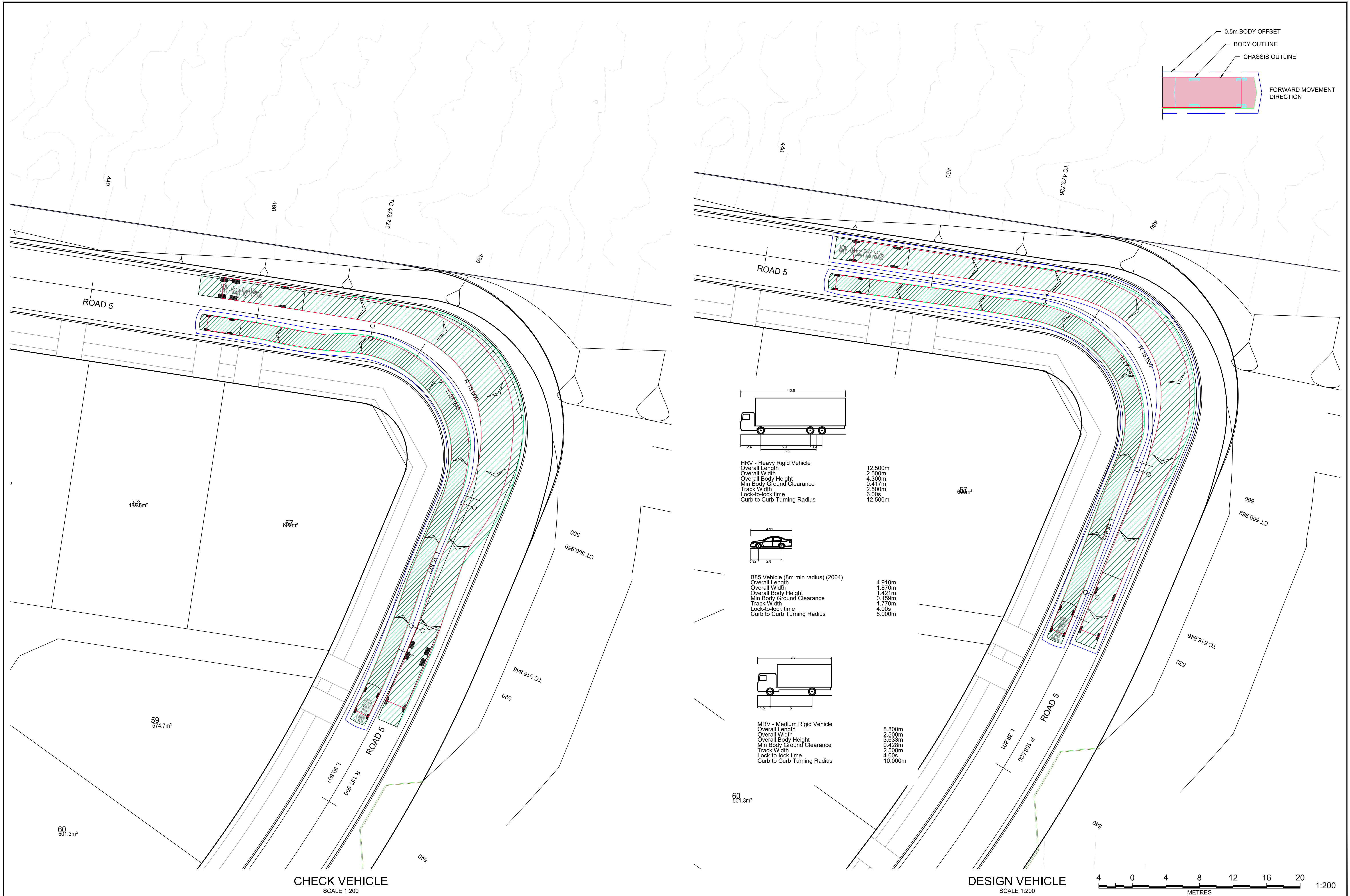
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@A1 Horiz. -
Vert. -
X-Sect. -

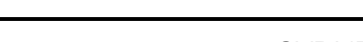
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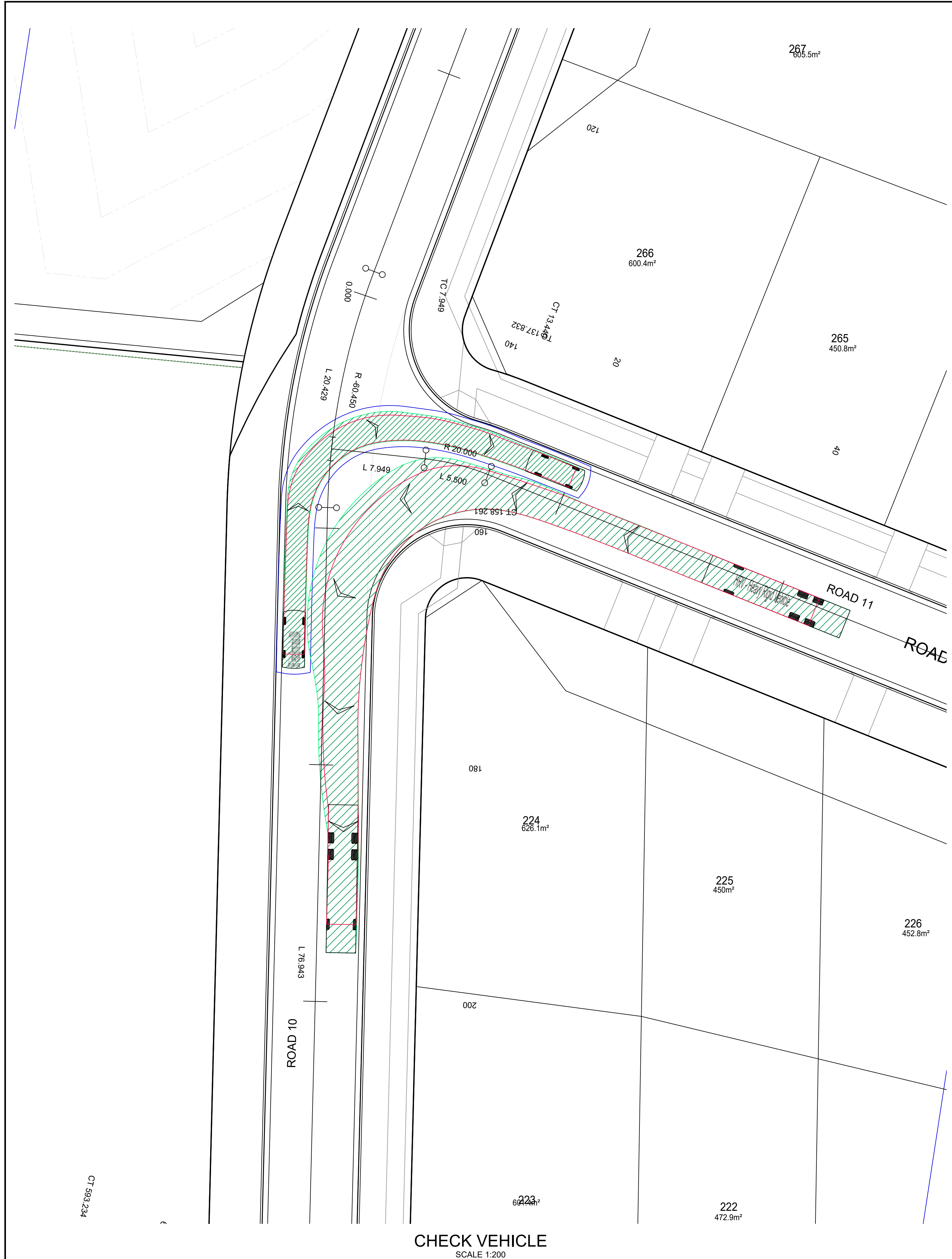
Plan No.
CC180099-07-920

File Ref.
CC180099

REV.
C



REV	AMENDMENT	ISSUED	DATE										
A	ISSUED FOR D.A.	SGB	03/11/2023	 ENGINEERING PLANNING PROJECT MANAGEMENT SURVEYING CERTIFICATION	SYDNEY P: 02 9659 0005 CENTRAL COAST P: 02 4325 5255	HUNTER P: 02 4966 8388 S.E. QLD P: 07 5582 6555	Client:   URBAN LAND REDEVELOPMENT	285-325 PACIFIC HIGHWAY, LAKE MUNMORAH PROPOSED RESIDENTIAL SUBDIVISION	SWEPT PATH SHEET 21	Designed: JT Drawn: DKH Checked: SGB	Scales: Plan 1:200 @A1 Horiz. - Vert. - X-Sect. - Datum: A.H.D.	Plan No. CC180099-07-921 File Ref. CC180099	REV. C
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024										
C	REVISED FOR COUNCIL RFI	JT	11/03/2025										
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REV	AMENDMENT	ISSUED	DATE
A	ISSUED FOR D.A.	SGB	03/11/2023
B	UPDATE FOR DA228/2024 NEAR POSSUM ST	SGB	20/05/2024
C	REVISED FOR COUNCIL RFI	JT	11/03/2025



**BARKER
RYAN
STEWART**

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CENTRAL COAST
P: 02 4325 5255

HUNTER
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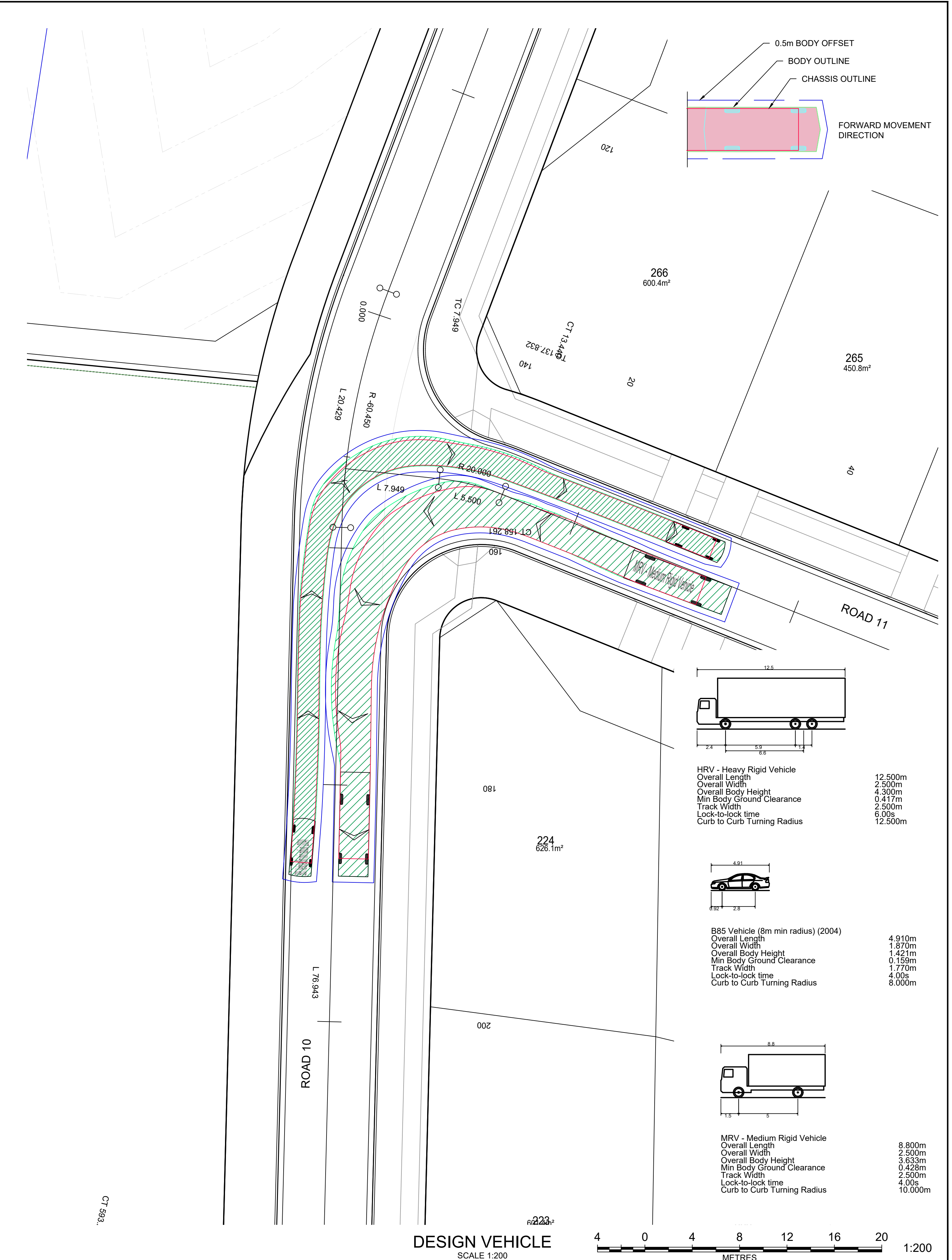
Client:



URBAN LAND
REDEVELOPMENT

285-325 PACIFIC HIGHWAY, LAKE MUNMORAH
PROPOSED RESIDENTIAL SUBDIVISION

SWEPT PATH SHEET 22



Designed: JT

Drawn: DKH

Checked: SGB

Scales: Plan 1:200
@A1 Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-07-922

File Ref.
CC180099

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C