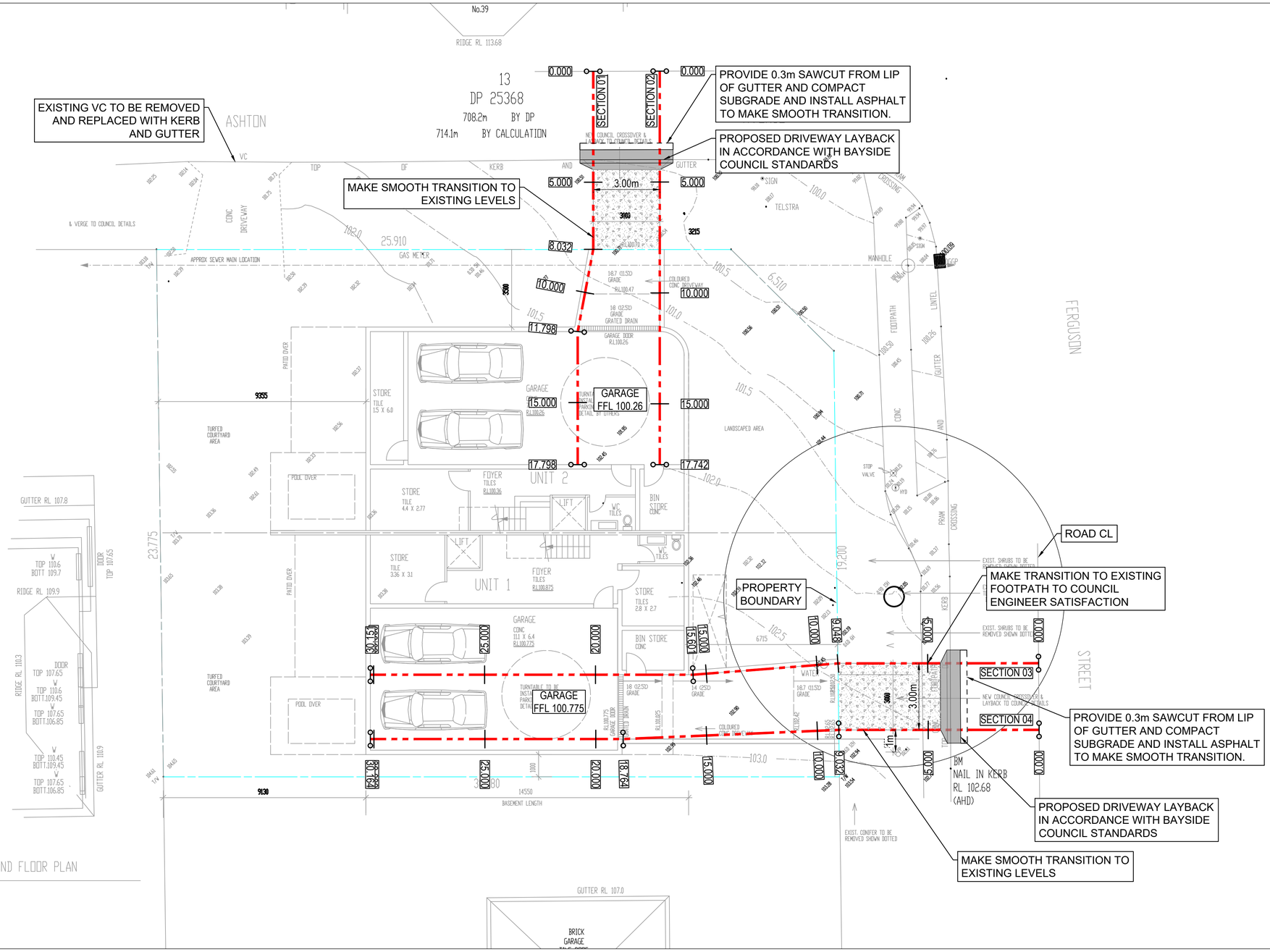


LOWER GROUND FLOOR PLAN
Scale: 1:100

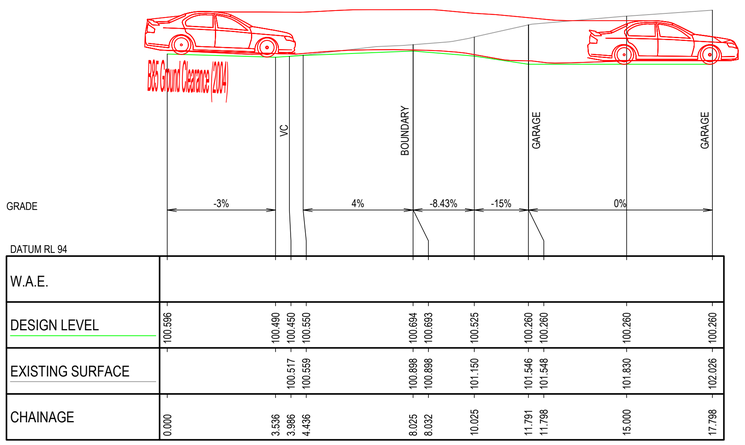
CIVIL PLAN
SCALE 1:100

REVISION	DESCRIPTION	ISSUED	DATE
1	ISSUED FOR DA	AE	07.03.2025

CANE CONSULTING
CIVIL . STORMWATER . FLOODING

DRAWN BY	AE	PROJECT	41 FERGUSON STREET, FORESTVILLE
DRAWN DATE	NOV'24		
COORDINATE SYSTEM	MGA-56	DRAWING TITLE	CIVIL PLAN
HEIGHT DATUM	AHD		

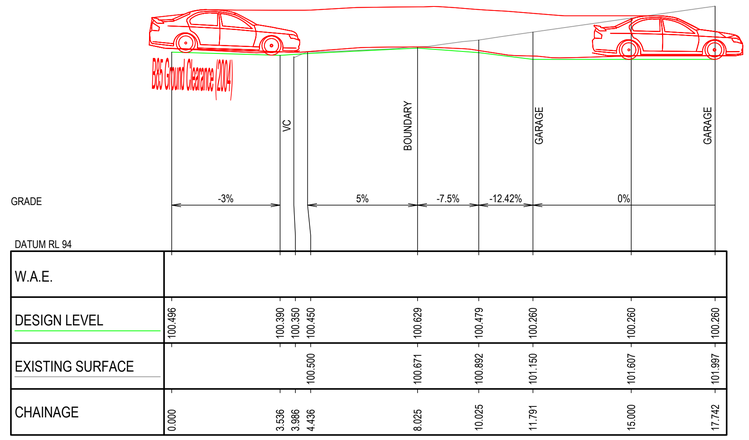
PROJECT NUMBER	STATUS	
24216	FOR APPROVAL FOR CONSTRUCTION PURPOSES WHEN STAMPED	
SHEET SIZE: A1	DRAWING NUMBER	REV: 1
	CV01	



W.A.E.									
DESIGN LEVEL	100.596	100.490 / 100.450 / 100.550	100.694 / 100.693	100.525	100.260 / 100.260	100.260	100.260		
EXISTING SURFACE		100.517 / 100.559	100.888 / 100.886	101.150	101.546 / 101.548	101.830	102.026		
CHAINAGE	0.000	3.536 / 3.986 / 4.436	8.025 / 8.032	10.025	11.791 / 11.798	15.000	17.798		

1 LONG SECTION

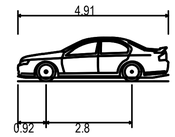
1:100 HORI
1:100VERT



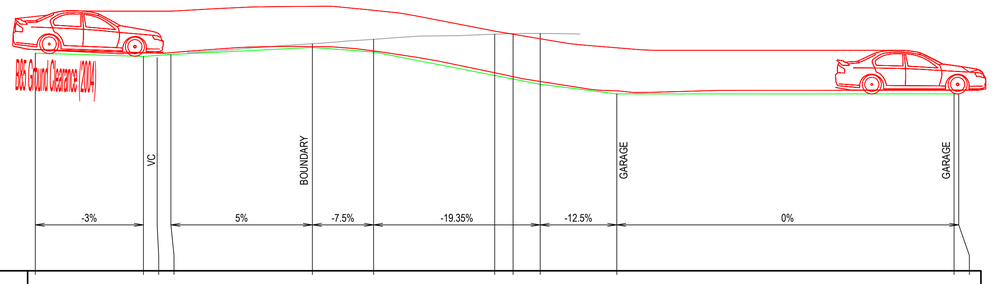
W.A.E.									
DESIGN LEVEL	100.496	100.390 / 100.350 / 100.450	100.629	100.479	100.260	100.260	100.260		
EXISTING SURFACE		100.500	100.671	100.892	101.150	101.607	101.997		
CHAINAGE	0.000	3.536 / 3.986 / 4.436	8.025	10.025	11.791	15.000	17.742		

2 LONG SECTION

1:100 HORI
1:100VERT



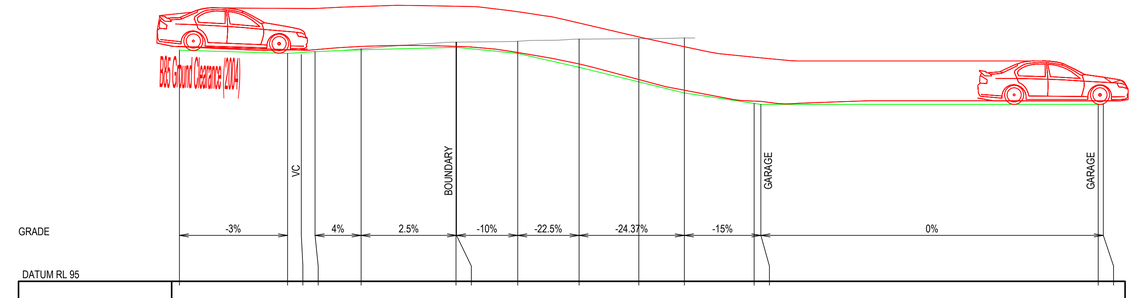
B85 Ground Clearance (2004)	
Overall Length	4.910m
Overall Width	1.870m
Overall Body Height	1.421m
Min Body Ground Clearance	0.120m
Track Width	1.770m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	8.000m



W.A.E.									
DESIGN LEVEL	102.105	101.999 / 101.959 / 102.059	102.290	102.140	101.375 / 101.259	101.087	100.775	100.775 / 100.775	
EXISTING SURFACE			102.410	102.557	102.723 / 102.742	102.747			
CHAINAGE	0.000	3.531 / 3.981 / 4.431	9.048	11.048	15.000 / 15.601	16.487	18.987	30.000 / 30.151	

3 LONG SECTION

1:100 HORI
1:100VERT



W.A.E.										
DESIGN LEVEL	102.546	102.440 / 102.400 / 102.500	102.560	102.638 / 102.638	102.438	101.988	101.512	101.150	100.808 / 100.775	100.775 / 100.775
EXISTING SURFACE			102.588	102.807 / 102.807	102.836	102.908	102.922	102.944		
CHAINAGE	0.000	3.531 / 3.981 / 4.431	5.931	9.032 / 9.048	11.048	13.048	15.000	16.487	18.764 / 18.987	30.000 / 30.164

4 LONG SECTION

1:100 HORI
1:100VERT

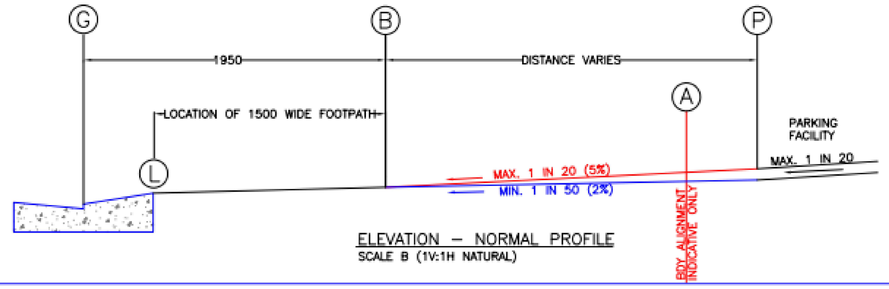
REVISION	DESCRIPTION	ISSUED	DATE
1	ISSUED FOR DA	AE	07.03.2025

BDt

CANE CONSULTING
CIVIL . STORMWATER . FLOODING

DRAWN BY	AE	PROJECT	41 FERGUSON STREET, FORESTVILLE
DRAWN DATE	NOV'24		
COORDINATE SYSTEM	MGA-56	DRAWING TITLE	DRIVEWAY LONGSECTIONS
HEIGHT DATUM	AHD		

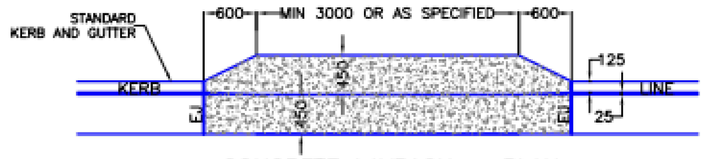
PROJECT NUMBER	STATUS	
24216	FOR APPROVAL FOR CONSTRUCTION PURPOSES WHEN STAMPED	
SHEET SIZE: A1	DRAWING NUMBER: CV02	REV: 1



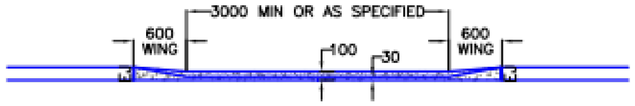
ELEVATION – NORMAL PROFILE
SCALE B (1V:1H NATURAL)

DRIVEWAY SET–OUT SCHEDULE

POINT	REMARK	LEVELS
G	GUTTER INVERT	DRIVEWAY CROSSING SET–OUT POINT
L	REAR OF LAYBACK	100mm ABOVE GUTTER INVERT (MAY BE ALTERED AT COUNCIL'S DISCRETION)
B	1950mm FROM GUTTER INVERT	138mm ABOVE GUTTER INVERT
A	BOUNDARY ALIGNMENT	PLACE 10mm EXPANSION JOINT
P	PARKING FACILITY	MAXIMUM GRADE PARALLEL TO ANGLE OF PARKING 1V:20H. FOR ANY OTHER DIRECTION 1V:16H



CONCRETE LAYBACK – PLAN
NOT TO SCALE



CONCRETE LAYBACK – FRONT ELEVATION
NOT TO SCALE

CONCRETE DRIVEWAY NOTES

1. LAYBACK AND GUTTER SHALL BE CONSTRUCTED IN PLAIN CONCRETE AND FINISHED WITH A STEEL TROWEL.
2. THE MINIMUM COMPRESSIVE STRENGTH FOR DRIVEWAYS SHALL BE 25MPa AT 28 DAYS. FOR COMMERCIAL OR INDUSTRIAL DRIVEWAYS THE SLAB DEPTH SHALL BE INCREASED TO MINIMUM OF 180mm WITH SL82 STEEL MESH AND TOP COVER OF 30mm.
3. THE SUBGRADE SHALL BE EVENLY COMPACTED USING A VIBRATORY COMPACTION EQUIPMENT UNTIL IT SHOWS NO SIGNS OF MOVEMENT, OR AS DIRECTED BY COUNCIL.
4. ALL VEHICLE CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH LEVELS AND SPECIFICATION ISSUED BY COUNCIL AND MUST COMPLY WITH AS/NZS 2890.1:2004 "OFF STREET CAR PARKING" CODE.
5. ALL KERBING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS AND SPECIFICATION ISSUED BY COUNCIL.
6. WHERE COUNCIL OR ITS REPRESENTATIVE DIRECTS THAT THE GUTTER IS TO BE RETAINED, THE CONTRACTOR IS TO PLACE A 75mm DEEP SAW CUT IN THE GUTTER INVERT AND REMOVE THE KERB AND/OR LAYBACK.
7. WHERE COUNCIL OR ITS REPRESENTATIVE DIRECTS THAT THE GUTTER IS TO BE REMOVED, A ROAD OPENING PERMIT OR APPLICATION IS TO BE OBTAINED PRIOR TO COMMENCEMENT OF WORKS.
8. THE CONSTRUCTION OF ALL VEHICLE CROSSINGS AND ASSOCIATED WORKS MUST BE PERFORMED BY A COUNCIL APPROVED CONTRACTOR.
9. SAWCUT 500mm ASPHALT STRIP AND MATCH IN LAYBACK WITH ROAD SURFACE TO SMOOTH TRANSITION.

VEHICLE CROSSING CONSTRUCTION NOTES

1. AT LEAST 48 HOURS' NOTICE OF INTENTION SHALL BE GIVEN TO COUNCIL ENGINEER TO POUR CONCRETE WITHIN THE ROAD RESERVE AND NO CONCRETE SHALL BE PLACED UNTIL THE FORMWORK HAS BEEN APPROVED AND AN INSPECTION NOTICE ISSUED.
2. ALL DISTURBED AREAS OF THE FOOTWAY ADJACENT TO THE VEHICLE CROSSING SHALL BE TURFED AND FINISHED LEVEL WITH THE CONCRETE SURFACE. RAISED EDGES ARE UNACCEPTABLE.
3. THE ROAD ADJOINING THE VEHICLE CROSSING SHALL BE BATTERED AND TURFED AT A MAXIMUM GRADIENT OF 1V:6H OR AS DIRECTED BY COUNCIL.
4. CONCRETE FOOTPATH ADJUSTMENTS SHALL BE IN ACCORDANCE WITH COUNCIL'S SPECIFICATION AND SATISFACTION.
5. THE SUBGRADE MUST BE THOROUGHLY COMPACTED BY THE USE OF VIBRATORY COMPACTION EQUIPMENT UNTIL IT SHOWS NO SIGNS OF MOVEMENT, OR AS DIRECTED BY COUNCIL.
6. VEHICLE CROSSING SLABS MUST BE POURED IN PLAIN CONCRETE. SLAB SURFACE MUST BE COVE FINISHED (OR EQUIVALENT) AND EDGES TO BE FINISHED WITH A 50mm MARGIN.
7. ALL CHANGES IN GRADE SHALL BE SCREEDED TO ENSURE NO RIGID/SHARP TRANSITIONS.
8. THE MINIMUM COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 25MPa AT 28 DAYS.
9. THE MINIMUM THICKNESS OF CONCRETE SHALL BE AS FOLLOWS:
(a) SINGLE RESIDENTIAL DWELLING: 130mm THICK REINFORCED WITH SL72 MESH PLACED 30mm BELOW TOP OF CONCRETE SLAB
(b) MULTI–UNIT RESIDENTIAL: 150mm THICK REINFORCED WITH SL82 MESH PLACED 30mm BELOW TOP OF CONCRETE SLAB
(c) COMMERCIAL OR INDUSTRIAL: 180mm THICK REINFORCED WITH SL82 MESH PLACED 30mm BELOW TOP OF CONCRETE SLAB
10. THE VEHICLE CROSSING UP TO 2400mm FROM THE GUTTER INVERT SHALL BE GRADED PARALLEL WITH THE ROAD CENTRELINE.
11. THE VEHICLE CROSSING SHALL BE CONSTRUCTED PERPENDICULAR TO THE ROAD PAVEMENT UNLESS OTHERWISE INSTRUCTED BY COUNCIL.
12. THE CONSTRUCTION OF ALL VEHICLE CROSSINGS AND ASSOCIATED WORKS ON THE ROAD RESERVE MUST BE COMPLETED BY A COUNCIL APPROVED CONCRETE CONTRACTOR.
13. NO TREE ROOTS GREATER THAN 50mm IN DIAMETER ARE TO BE REMOVED UNLESS AUTHORISED BY A QUALIFIED ARBORIST.
14. ANY ROOTS APPROVED FOR REMOVAL SHALL BE CLEAN CUT WITH SHARP TOOLS SUCH AS SECATEURS, PRUNERS, HANDSAWS, CHAINSAWS OR SPECIALISED ROOT PRUNING EQUIPMENT.

IMPORTANT DRIVEWAY DESIGN NOTES:

1. THE STANDARD DRIVEWAY PROFILES SHOWN MAY NOT SUIT ALL TERRAIN CONDITIONS.
2. THESE STANDARD DRIVEWAY PROFILES MAY NEED TO BE MODIFIED TO SUIT.
3. THE STANDARD DRIVEWAY PROFILES SHOWN MAY NOT TAKE INTO CONSIDERATION CONNECTING FOOTPATHS WHERE THE FOOTPATH MEETS THE DRIVEWAY. FOR DISABLED ACCESSIBILITY, A SECTION OF THE DRIVEWAY MAY NEED TO BE DESIGNED WITH A MAXIMUM 2.5% CROSS–FALL GRADED TOWARDS THE KERB OR ROAD SIDE. ALSO THE STANDARD DRIVEWAY PROFILES SHOWN HAS NOT BEEN DESIGNED TO ACCOMMODATE ANY SPECIAL NEEDS, FOR EXAMPLE, IN A FLOOD PLANNING AREA WHERE A MINIMUM FREE BOARD CREST IS REQUIRED TO PROTECT THE PARKING FACILITY.
4. WHERE MODIFICATION OF THE DRIVEWAY IS REQUIRED TO MEET EXISTING OR PROPOSED CROSS FALLS OR LEVELS, THE FINAL DESIGN PROFILE MUST BE CHECKED AGAINST THE AUSTRALIAN STANDARD AS/NZS 2890.1:2004 "OFF STREET CAR PARKING" CODE FOR SCRAPING AND BOTTOMING USING THE 85TH PERCENTILE PASSENGER VEHICLE.
5. THE DESIGNER WILL NEED TO LIAISE WITH COUNCIL TO DEVELOP A SUITABLE DESIGN SOLUTION.

			LEVEL DATUM: AHD	PLOT DATE: 07/07/2022			
			CO–ORD SYSTEM: N.A.	PRELIMINARY	DESIGN APPROVED	APPROVED FOR CONSTRUCTION	A 0 0.10 0.20 0.30 0.40 0.60 METRES 1:20 @ A3
			SURVEYED: N.A.	DRAWN BY: THOMAS LAU	DESIGNED BY: THOMAS LAU	PROJ. MGR: N.A.	B 0 0.2 0.4 0.6 0.8 1 METRES 1:40 @ A3
			WORK–AS–EXECUTED	DATED: 20/04/18	DATE: 20/04/18	DATE: (dd/mm/yyyy)	C 0 0.5 1.0 1.5 2.0 2.5 METRES 1:100 @ A3
			BY: N.A.	INITIATED BY: STEVE WATSON (ASSET MANAGER)	APPROVED BY: E. HAVENSTEIN DESIGN MANAGER	APPROVED BY: THOMAS LAU PRINCIPAL ENGINEER	
1	16/06/22	INITIATE DRAWINGS	JM	DATE: mm/dd/yyyy			
No	DATE	AMENDMENTS	INITIALS				

northern beaches council

STANDARD DRAWINGS
DRIVEWAY PROFILE – NORMAL (N)

DRAWING NO. 1

REVISION	DESCRIPTION	ISSUED	DATE
1	ISSUED FOR DA	AE	07.03.2025

BDT

CANE CONSULTING
CIVIL . STORMWATER . FLOODING

DRAWN BY	AE	PROJECT	41 FERGUSON STREET, FORESTVILLE
DRAWN DATE	NOV'24		
COORDINATE SYSTEM	MGA–56	DRAWING TITLE	COUNCIL DETAILS
HEIGHT DATUM	AHD		

PROJECT NUMBER: 24216
SHEET SIZE: A1
STATUS: FOR APPROVAL
FOR CONSTRUCTION PURPOSES WHEN STAMPED
DRAWING NUMBER: CV03
REV: 1