GERANIUM ESTATE – STAGE 1

ROAD & DRAINAGE

CARDINIA SHIRE COUNCIL

22 Business Park Drive Notting Hill 3168
A.C.N. 006 550 803
E: consulting@dpmvic.com.au
W: www.dpmvic.com.au
T: (03) 9538 5000

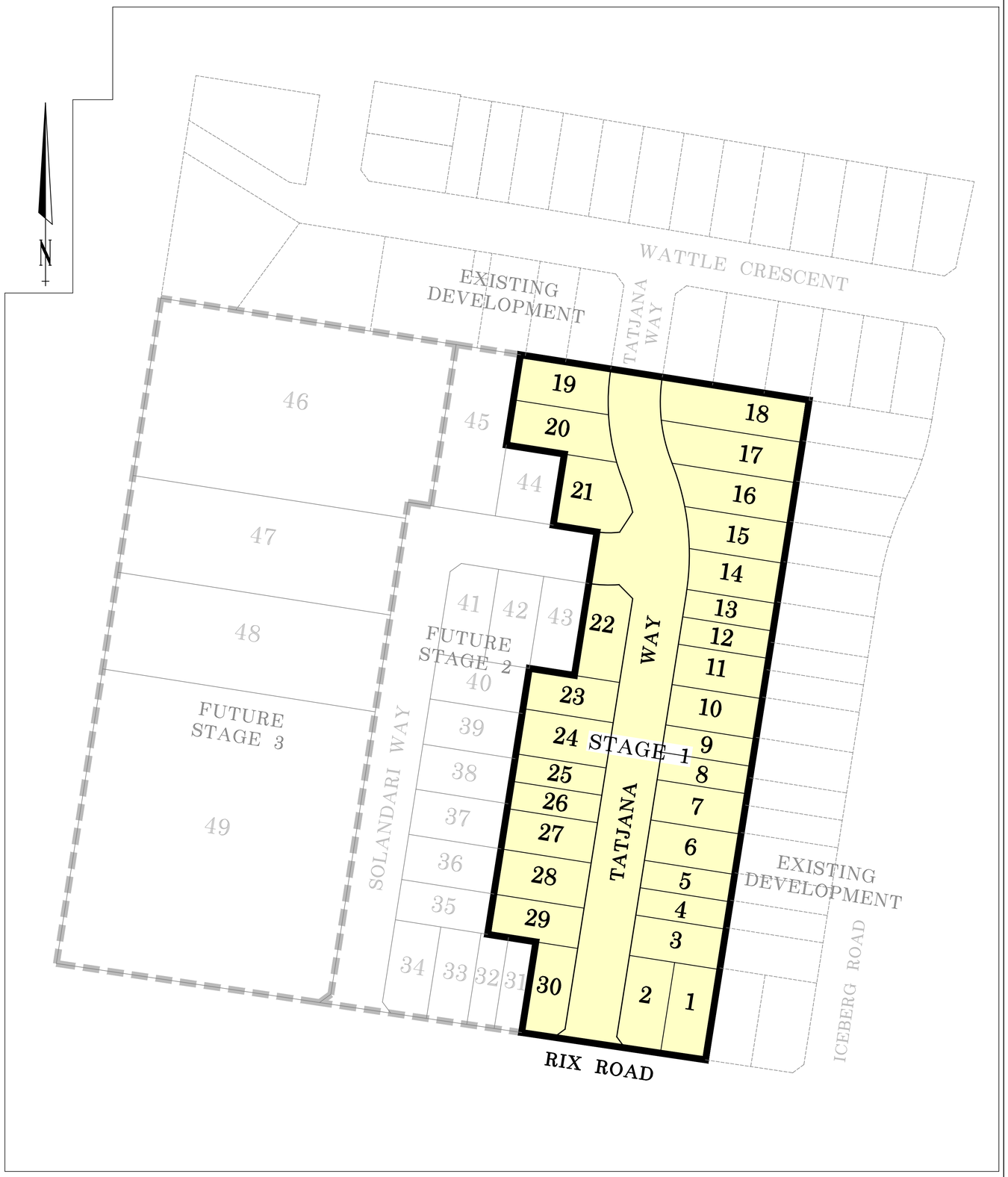
Consulting Group

PRINCIPAL

BANRIAR DEVELOPMENTS PTY LTD

C/ DPM CIVIL ENGINEERING PTY. LTD.

DRAWING NO	DETAILS
3257/01/R01	COVER SHEET
3257/01/R02	LAYOUT PLAN & SERVICES OFFSET TABLE
3257/01/R03	INTERSECTION DETAILS - SHEET 1 OF 2
3257/01/R04	INTERSECTION DETAILS - SHEET 2 OF 2
3257/01/R05	TYPICAL CROSS SECTIONS
3257/01/R06	GENERAL NOTES & TYPICAL DETAILS
3257/01/R07	PAVEMENT COMPOSITIONS AND MISCELLANEOUS DETAILS
3257/01/R08	RIX ROAD LONGITUDINAL & CROSS SECTIONS
3257/01/R09	TATJANA WAY LONGITUDINAL SECTIONS
3257/01/R10	TATJANA WAY CROSS SECTIONS
3257/01/R11	SOLANDERI WAY LONGITUDINAL & CROSS SECTIONS
3257/01/R12	DRAINAGE LONGITUDINAL SECTION - SHEET 1 OF 2
3257/01/R13	DRAINAGE LONGITUDINAL SECTIONS & PIT SCHEDULE - SHEET 2 OF 2
3257/01/R14	SIGNAGE AND LINEMARKING



LOCALITY PLAN

SCALE 1:1000

0 5 10 20 30 40

SCALE 1:1000 AT A1 SIZE

AS CONSTRUCTED

DRAWING No. 3257/01/R01

MELWAYS REF. MAP 214 B5

GERANIUM ESTATE STAGE 1

N

0 5 10 20 30 40

SCALE 1:500 AT A1 SIZE

NOTE:
THIS PLAN SHOWS DETAILS OF WORKS AFFECTING THE NATURAL SURFACE LEVEL OF THE LAND WITHIN THE SUBDIVISION WHICH HAVE BEEN CARRIED OUT OR ARE PROPOSED TO BE CARRIED OUT AS AT THE DATE OF THIS PLAN AND PRIOR TO THE REGISTRATION OF THE PLAN OF SUBDIVISION. IT IS EXPECTED THERE MAY BE A VARIANCE OF ±100MM OF THE LEVELS SHOWN ON THE PLAN.

NOTE:
WHERE THE WORDS 'REG TO ..' OR '1 IN 150 TO ..' APPEAR ALONG AN ALLOTMENT BOUNDARY, THAT LOT IS TO BE GRADED EVENLY BETWEEN THE LEVELS INDICATED UNLESS NOTED OTHERWISE.

'FS' INDICATES THE GRADING IS TO COMMENCE FROM THE FINISHED SURFACE LEVEL AT THE PROPERTY BOUNDARY

'T' INDICATES THE GRADING IS TO COMMENCE FROM THE TOP OR TOE LEVEL OF ANY BATTER AT THE FRONT OF THE PROPERTY

'R' INDICATES THE GRADING IS TO COMMENCE FROM A RIDGE LEVEL WHICH IS TO BE FORMED AT THE OFFSET INDICATED

ALL OTHER ALLOTMENTS REQUIRE NO REGRADING UNLESS DIRECTED IN WRITING BY THE SUPERINTENDENT.

DRIVEWAY CROSSINGS ARE SHOWN INDICATIVELY ON THESE PLANS. THEY ARE TO BE CONSTRUCTED IN ACCORDANCE WITH EDCM S01 AND S02.

PEDESTRIAN CROSSINGS ARE SHOWN INDICITAVELY ON THESE PLANS. THEY ARE TO BE CONSIDERED IN ACCORDACE WITH EDCM 403.

LEGEND:

- NATIVE VEGETATION PROTECTION AREA AS SHOWN IN THE OFFICER NATIVE VEGETATION PRECINCT PLAN
- NATIVE VEGETATION PROTECTION AREA AS MAPPED BY NATURE ADVISORY
- 30m BUFFER FROM NATIVE VEGETATION TO BE PROTECTED AND RETAINED APPLIES TO THE RELEVANT LOT(S) THAT CONTAIN THE NATIVE VEGETATION
- TREES TO BE REMOVED WITHIN THE NORTHERN VERGE OF RIX ROAD AS PART OF THE STAGE 1 WORKS
- TREES TO BE REMOVED WITHIN 228-236 RIX ROAD PRIOR TO SUBDIVISION WORKS
- LOT FALL ACROSS EACH LOT IS TO BE AT A MINIMUM OF 1 IN 150 TO THE LOWEST PONT OF THE LOT
- OVERALND FLOW PATH
- TACTILE GROUND SURFACE INDICATORS (TGSI) BOTH DIRECTIONAL AND WARNING TO BE INSTALLED AT PRAM CROSSING LOCATIONS IN ACCORDANCE WITH AS1428.4 AND DDA COMPLIANCE

BEWARE OF EXISTING SERVICES. SERVICES SHOWN ON THIS DRAWING ARE INDICATIVE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL SERVICES PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION, AND SHALL PROTECT THESE AT ALL TIMES.

DISCLAIMER:
THESE DRAWINGS ARE TO BE USED ONLY FOR THE PURPOSE FOR WHICH THEY WERE INTENDED FOR. NO RESPONSIBILITY WILL BE BORNE BY THE ENGINEERING CONSULTANT SHOULD THESE DRAWINGS BE USED FOR ANY OTHER PURPOSE.

NOTE:
ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT CARDINIA SHIRE COUNCIL SPECIFICATIONS AND STANDARD DRAWINGS AND TO THE SATISFACTION OF THE CONSTRUCTION AND ASSET PROTECTION TEAM

AS CONSTRUCTED

STAGE 1

NOTE: THIS TABLE IS FOR DESIGN PURPOSES ONLY AND CANNOT BE USED FOR ASSET LOCATION. ALL MEASUREMENTS IN METRES

ROAD	STREET NAME	NON DRINKING WATER		DRINKING WATER		NBN		ELECTRICITY		LIGHTING
		SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	COLUMN
20m ROAD (ULTIMATE)	RIX ROAD	SOUTH	4.95-7.10 (VARIES)	NORTH	4.30-4.40 (VARIES)	NORTH	3.50	NORTH	3.00	TBC
16m ROAD	TATJANA WAY	WEST	2.65	WEST	3.15	EAST	1.775	EAST	2.60	3.05E
16m ROAD	SOLANDERI WAY	SOUTH	2.65	SOUTH	3.15	NORTH	1.775	NORTH	2.60	3.05N

REV.	REVISION	DATE	REG ENG
AC1	AS CONSTRUCTED	07/04/2026	M.C.

LEGEND

GAS MAIN	HOUSE DRAIN PROPOSED/EX.	CH98.87 FS94.34	CHAINAGES AND TANGENT POINTS
WATER MAIN	PROPERTY INLET, DRAINAGE PITS	20.06	EXISTING SURFACE LEVEL
RECYCLED WATER MAIN	EX./FUT. INLET, DRAINAGE PITS	FS21.35	FINISHED LEVEL (TITLE BOUNDARY)
ELECTRICITY CABLE	DRAINAGE PIT STAGE/NUMBER	T21.35	DESIGN TOP/TOE OF BATTER LEVEL
TELECOMMUNICATIONS CABLE	SEWER LINE AND STRUCTURES	P21.350	DESIGN PAVEMENT LEVEL
WATER CONDUIT	EX.SEWER LINE AND STRUCTURES	19.29	PROPOSED CONTOUR LINE & LEVEL
GAS CONDUIT	KERB AND CHANNEL	19.29	EXISTING CONTOUR LINE & LEVEL
RECYCLED WATER CONDUIT	EX./FUT. KERB AND CHANNEL		FILLING IN EXCESS OF 200mm
COMBINED SERVICES CONDUIT	KERB TO BE REMOVED OFFSITE	CD21.35	CATCH DRAIN AND INVERT LEVEL
T.B.M. / P.S.M.	STREET SIGN		EX. BATTER / PROP. BATTER

22 Business Park Drive
Notting Hill VIC 3168
A.C.N. 006 550 803
E: consulting@dpmvic.com.au
W: www.dpmvic.com.au
T: (03) 9538 5000

Consulting Group

DRAWN:	J.DEMERTZIDIS
DESIGNED:	J.DEMERTZIDIS
CHECKED:	S.MAKARAS
AUTHORISED:	M.COLE
PE REG NO:	PE1124072
DATE:	06/02/2025

AUTHORITY: CARDINIA SHIRE COUNCIL

PROJECT: GERANIUM ESTATE - STAGE 1 ROAD & DRAINAGE

DETAILS: LAYOUT PLAN & SERVICES OFFSET TABLE

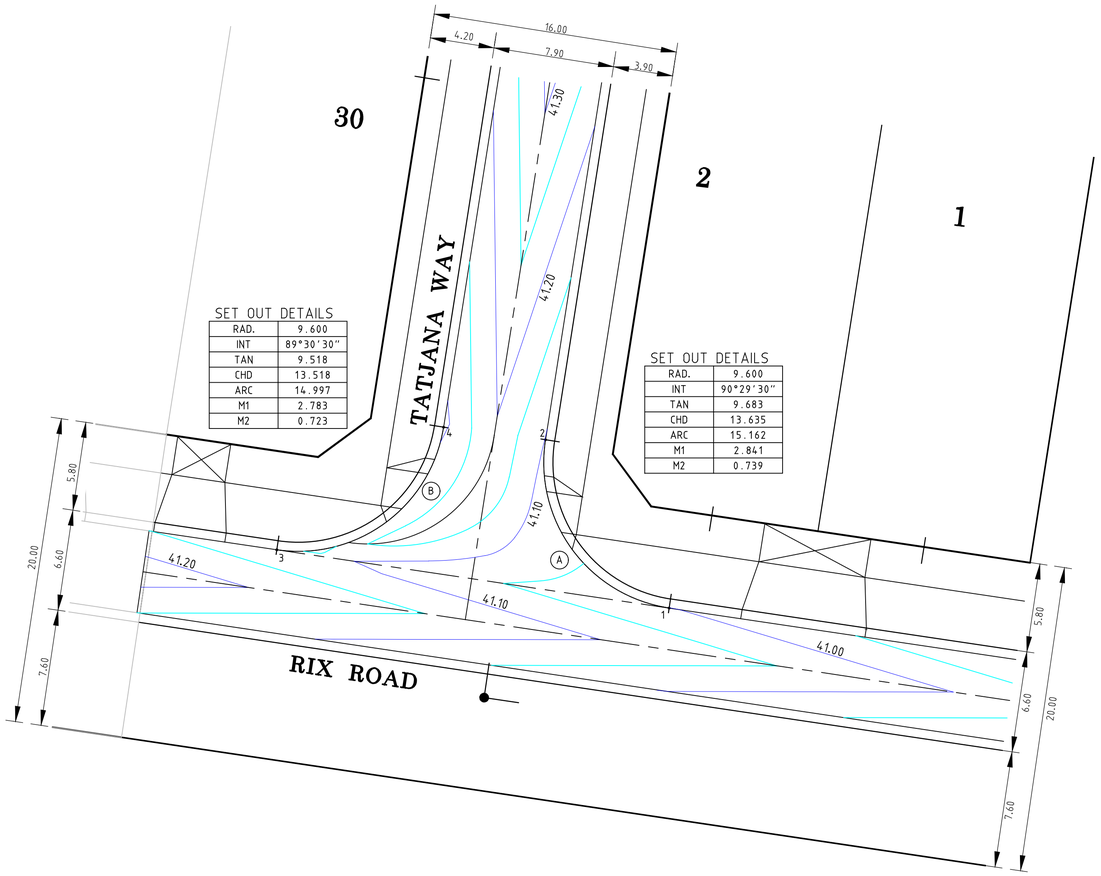
SCALE 1:500

LEVEL DATUM AHD

SHEET 02 OF 14

DRAWING No. 3257/01/R02

REV. AC1

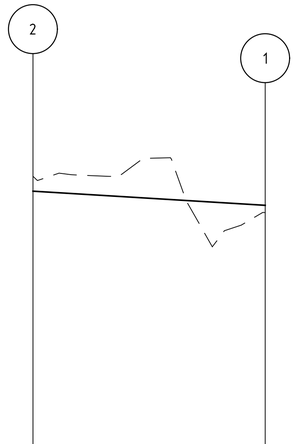


SET OUT DETAILS

RAD.	9.600
INT	89°30'30"
TAN	9.518
CHD	13.518
ARC	14.997
M1	2.783
M2	0.723

SET OUT DETAILS

RAD.	9.600
INT	90°29'30"
TAN	9.683
CHD	13.635
ARC	15.162
M1	2.841
M2	0.739



VERTICAL GEOMETRY

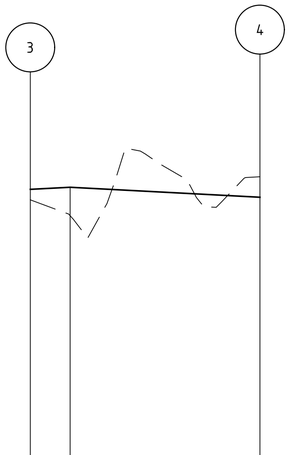
DESIGN GRADE

DATUM RL 39.00

GRADE LINE	41.096	41.019
EXISTING SURFACE	41.193	40.956
KERB CHAINAGE	0.000	15.162

KERB LIP A

Horizontal scale 1:200
Vertical scale 1:20



VERTICAL GEOMETRY

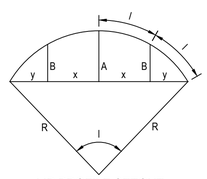
DESIGN GRADE

DATUM RL 39.00

GRADE LINE	41.148	41.142	41.099
EXISTING SURFACE	41.079	41.227	41.230
KERB CHAINAGE	0.000	2.599	14.997

KERB LIP B

Horizontal scale 1:200
Vertical scale 1:20



LIP PROFILE SETOUT

SETOUT DETAILS

POINT SET OUT SCHEDULE

POINT No.	EASTING	NORTHING	R.L.
1	358104.20	5785727.11	41.019
2	358096.13	5785738.10	41.096
3	358078.58	5785730.92	41.148
4	358089.48	5785738.92	41.099

H 1:200 @ A1 / V 1:20 — 0 2 4 8 12 16 / 0 0.2 0.4 0.8 1.2 1.6

AS CONSTRUCTED

REV.	REVISION	DATE	REG ENG
AC1	AS CONSTRUCTED	07/04/2026	M.C.

LEGEND

GAS MAIN	HOUSE DRAIN PROPOSED/EX.	CH0.00 / TP14.24	CHAINAGES AND TANGENT POINTS
WATER MAIN	PROPERTY INLET, DRAINAGE PITS	20.06	EXISTING SURFACE LEVEL
RECYCLED WATER MAIN	EX./FUT. INLET, DRAINAGE PITS	FS21.35	FINISHED LEVEL (TITLE BOUNDARY)
ELECTRICITY CABLE	DRAINAGE PIT STAGE/NUMBER	T21.35	DESIGN TOP/TOE OF BATTER LEVEL
TELECOMMUNICATIONS CABLE	SEWER LINE AND STRUCTURES	P21.350	DESIGN PAVEMENT LEVEL
WATER CONDUIT	EX.SEWER LINE AND STRUCTURES	19.20	PROPOSED CONTOUR LINE & LEVEL
GAS CONDUIT	KERB AND CHANNEL	19.20	EXISTING CONTOUR LINE & LEVEL
RECYCLED WATER CONDUIT	EX./FUT. KERB AND CHANNEL		FILLING IN EXCESS OF 200mm
COMBINED SERVICES CONDUIT	KERB TO BE REMOVED OFFSITE	CD2.34	CATCH DRAIN AND INVERT LEVEL
T.B.M. / P.S.M.	STREET SIGN		EX. BATTER / PROP. BATTER

22 Business Park Drive
Notting Hill VIC 3168
A.C.N. 006 550 803
E: consulting@dpmvic.com.au
W: www.dpmvic.com.au
T: (03) 9538 5000

Consulting Group

DRAWN:	J.DEMERTZIDIS
DESIGNED:	J.DEMERTZIDIS
CHECKED:	S.MAKARAS
AUTHORISED:	M.COLE
PE REG NO:	PE1124072
DATE:	06/02/2025

AUTHORITY: CARDINIA SHIRE COUNCIL

PROJECT: GERANIUM ESTATE - STAGE 1 ROAD & DRAINAGE

DETAILS: INTERSECTION DETAILS - SHEET 1 OF 2

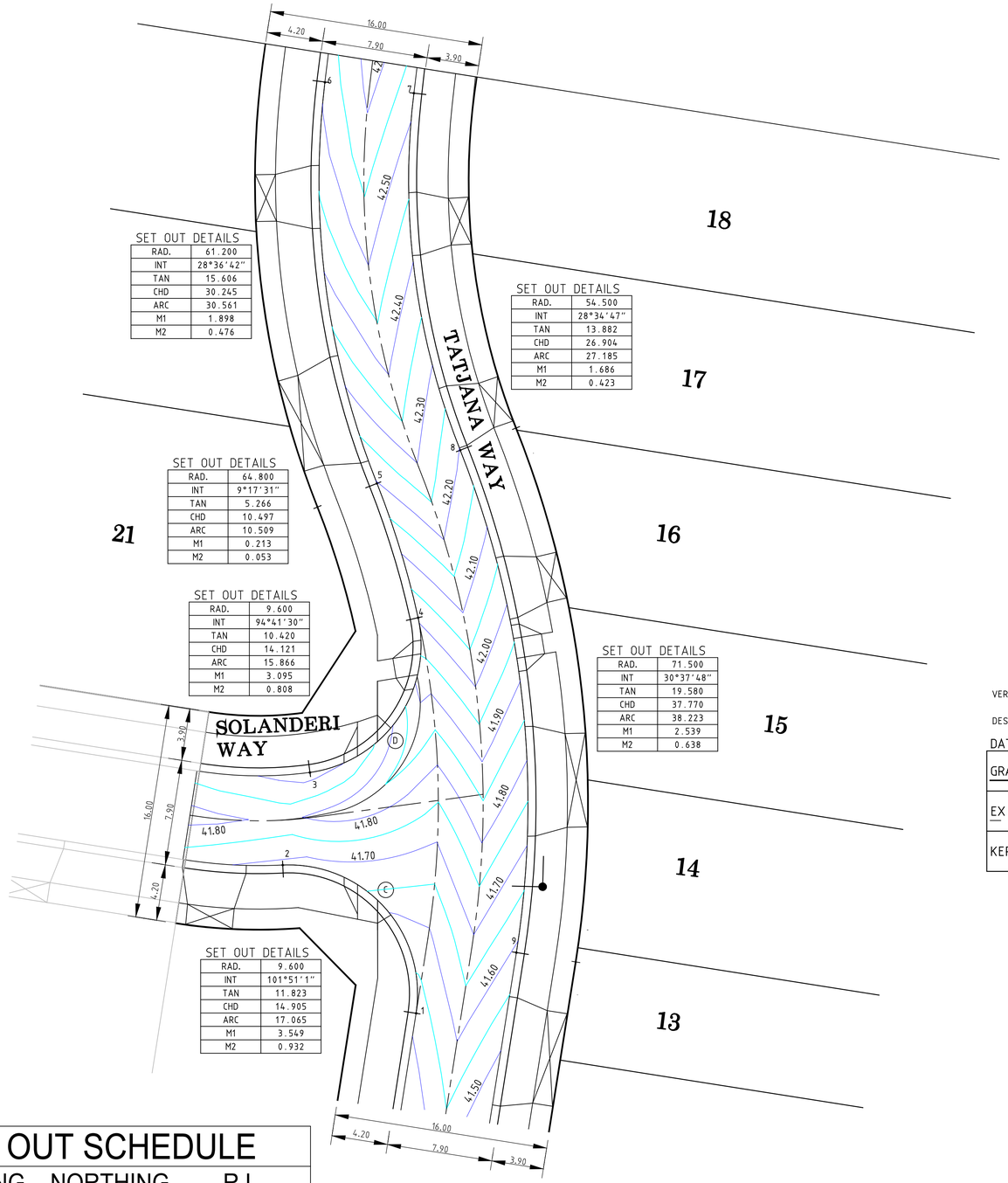
SCALE 1:200

LEVEL DATUM AHD

SHEET 03 OF 14

DRAWING No. 3257/01/R03

REV. AC1



SET OUT DETAILS

RAD.	61.200
INT	28°36'42"
TAN	15.606
CHD	30.245
ARC	30.561
M1	1.898
M2	0.476

SET OUT DETAILS

RAD.	54.500
INT	28°34'47"
TAN	13.882
CHD	26.904
ARC	27.185
M1	1.686
M2	0.423

SET OUT DETAILS

RAD.	64.800
INT	9°17'31"
TAN	5.266
CHD	10.497
ARC	10.509
M1	0.213
M2	0.053

SET OUT DETAILS

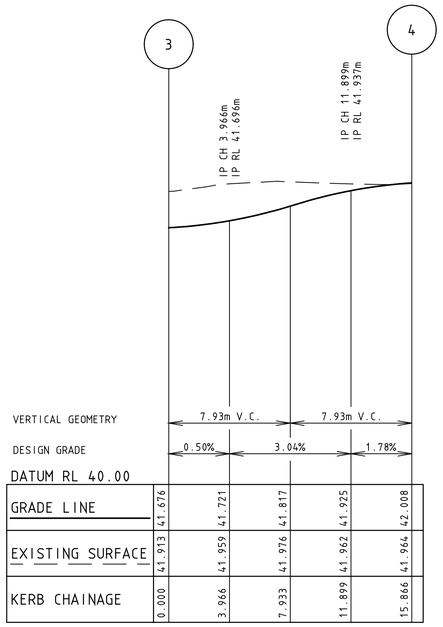
RAD.	9.600
INT	94°41'30"
TAN	10.420
CHD	14.121
ARC	15.866
M1	3.095
M2	0.808

SET OUT DETAILS

RAD.	71.500
INT	30°37'48"
TAN	19.580
CHD	37.770
ARC	38.223
M1	2.539
M2	0.638

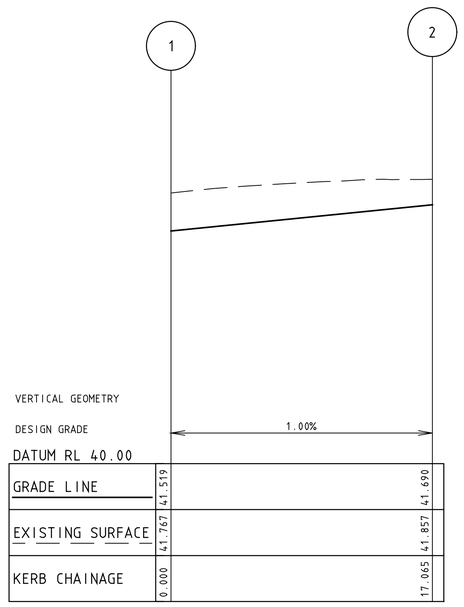
SET OUT DETAILS

RAD.	9.600
INT	101°51'1"
TAN	11.823
CHD	14.905
ARC	17.065
M1	3.549
M2	0.932



KERB LIP D

Horizontal scale 1:200
Vertical scale 1:20

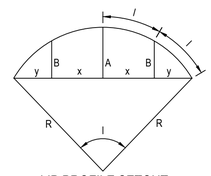


KERB LIP C

Horizontal scale 1:200
Vertical scale 1:20

POINT SET OUT SCHEDULE

POINT No.	EASTING	NORTHING	R.L.
1	358109.98	5785869.32	41.519
2	358100.01	5785880.40	41.69
3	358102.04	5785887.31	41.676
4	358110.13	5785898.88	42.008
5	358107.05	5785908.92	42.197
6	358103.16	5785938.89	42.526
7	358109.81	5785938.07	42.526
8	358113.28	5785911.39	42.197
9	358117.47	5785873.86	41.602



LIP PROFILE SETOUT

SETOUT DETAILS

AS CONSTRUCTED

REV.	REVISION	DATE	REG ENG
AC1	AS CONSTRUCTED	07/04/2026	M.C.

LEGEND

G	GAS MAIN	HOUSE DRAIN PROPOSED/EX.	CH3.00 RL41.00 CHAINAGES AND TANGENT POINTS
W	WATER MAIN	PROPERTY INLET, DRAINAGE PITS	20.06 EXISTING SURFACE LEVEL
R	RECYCLED WATER MAIN	EX./FUT. INLET, DRAINAGE PITS	FS21.35 FINISHED LEVEL (TITLE BOUNDARY)
E	ELECTRICITY CABLE	DRAINAGE PIT STAGE/NUMBER	T21.35 DESIGN TOP/TOE OF BATTER LEVEL
T	TELECOMMUNICATIONS CABLE	SEWER LINE AND STRUCTURES	F21.350 DESIGN PAVEMENT LEVEL
	WATER CONDUIT	EX.SEWER LINE AND STRUCTURES	19.38 PROPOSED CONTOUR LINE & LEVEL
	GAS CONDUIT	KERB AND CHANNEL	19.38 EXISTING CONTOUR LINE & LEVEL
	RECYCLED WATER CONDUIT	EX./FUT. KERB AND CHANNEL	FILLING IN EXCESS OF 200mm
	COMBINED SERVICES CONDUIT	KERB TO BE REMOVED OFFSITE	22.19 CATCH DRAIN AND INVERT LEVEL
	T.B.M. ▲ P.S.M.	STREET SIGN	EX. BATTER / PROP. BATTER

22 Business Park Drive
Notting Hill VIC 3168
A.C.N. 006 550 803
E: consulting@dpmvic.com.au
W: www.dpmvic.com.au
T: (03) 9538 5000

Consulting Group

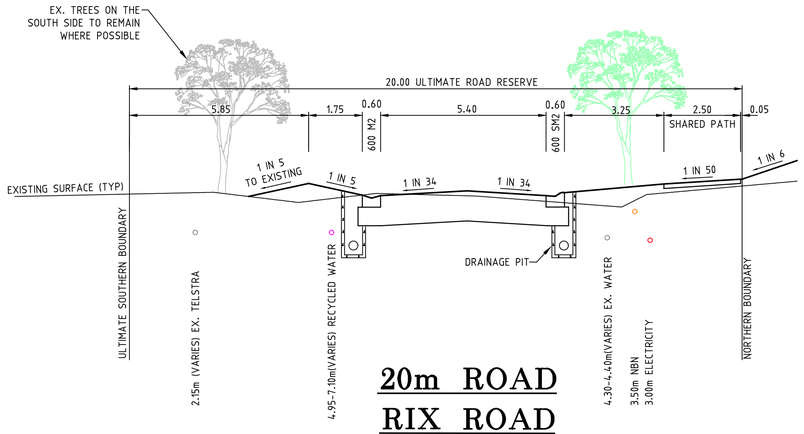
DRAWN:	J.DEMERTZIDIS
DESIGNED:	J.DEMERTZIDIS
CHECKED:	S.MAKARAS
AUTHORISED:	M.COLE
PE REG NO:	PE1124072
DATE:	06/02/2025

AUTHORITY: **CARDINIA SHIRE COUNCIL**

PROJECT: **GERANIUM ESTATE - STAGE 1 ROAD & DRAINAGE**

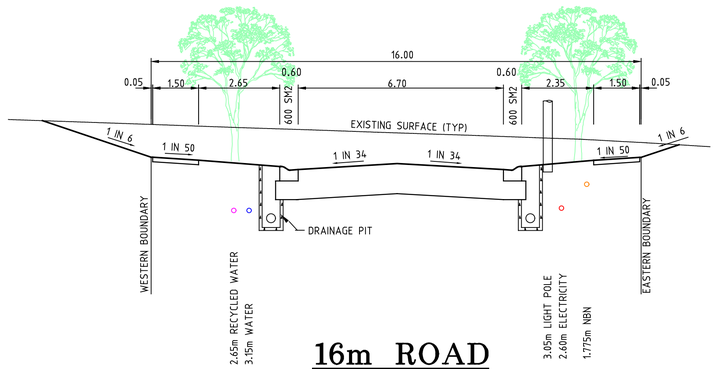
DETAILS: **INTERSECTION DETAILS - SHEET 2 OF 2**

SCALE 1:200
LEVEL DATUM AHD
SHEET 04 **OF** 14
DRAWING No. **3257/01/R04**
REV. AC1

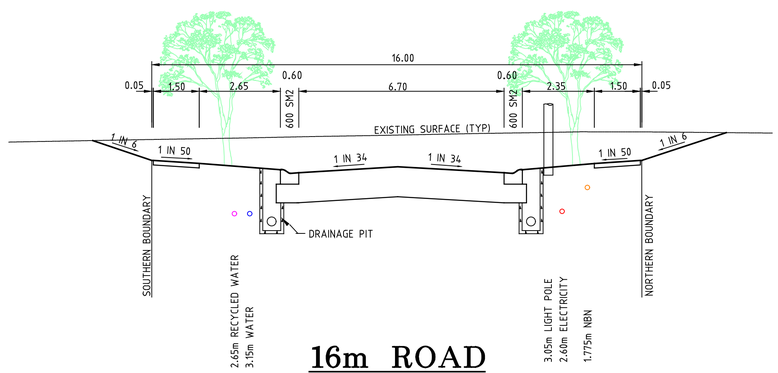


20m ROAD
RIX ROAD

NOTE: EXISTING SERVICES TO BE PROVEN & REMOVED/RELCOATED AS REQUIRED



16m ROAD
TATJANA WAY



16m ROAD
SOLANDERI WAY

TYPICAL ROAD CROSS SECTIONS

NOT TO SCALE

NOTE: THE DIRECTION OF FALL OF THE EXISTING SURFACE IN THESE SECTIONS IS ONLY DIAGRAMMATIC TO INDICATE CUT AND FILL BATTER SLOPES.

AS CONSTRUCTED

REV.	REVISION	DATE	REG ENG
AC1	AS CONSTRUCTED	07/04/2026	M.C.

LEGEND

G	GAS MAIN	HOUSE DRAIN PROPOSED/EX.	CH0.00 27 17/04/26 — CHAINAGES AND TANGENT POINTS
W	WATER MAIN	PROPERTY INLET, DRAINAGE PITS	20.06 — EXISTING SURFACE LEVEL
R	RECYCLED WATER MAIN	EX./FUT. INLET, DRAINAGE PITS	FS21.35 — FINISHED LEVEL (TITLE BOUNDARY)
E	ELECTRICITY CABLE	DRAINAGE PIT STAGE/NUMBER	T21.35 — DESIGN TOP/TOE OF BATTER LEVEL
T	TELECOMMUNICATIONS CABLE	SEWER LINE AND STRUCTURES	P21.350 — DESIGN PAVEMENT LEVEL
W	WATER CONDUIT	EX.SEWER LINE AND STRUCTURES	19.20 — PROPOSED CONTOUR LINE & LEVEL
G	GAS CONDUIT	KERB AND CHANNEL	19.20 — EXISTING CONTOUR LINE & LEVEL
R	RECYCLED WATER CONDUIT	EX./FUT. KERB AND CHANNEL	FILLING IN EXCESS OF 200mm
CW	COMBINED SERVICES CONDUIT	KERB TO BE REMOVED OFFSITE	CATCH DRAIN AND INVERT LEVEL
T.B.M.	P.S.M.	STREET SIGN	EX. BATTER / PROP. BATTER

22 Business Park Drive
Notting Hill VIC 3168
A.C.N. 006 550 803
E: consulting@dpmvic.com.au
W: www.dpmvic.com.au
T: (03) 9538 5000

Consulting Group

DRAWN:	J.DEMERTZIDIS
DESIGNED:	J.DEMERTZIDIS
CHECKED:	S.MAKARAS
AUTHORISED:	M.COLE
PE REG NO:	PE1124072
DATE:	06/02/2025

AUTHORITY: **CARDINIA SHIRE COUNCIL**

PROJECT: **GERANIUM ESTATE - STAGE 1 ROAD & DRAINAGE**

DETAILS: **TYPICAL CROSS SECTIONS**

SCALE N.T.S.
LEVEL DATUM AHD
SHEET 05 **OF** 14
DRAWING No. 3257/01/R05
REV. AC1

GENERAL NOTES

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH PLANS AND CURRENT CITY OF CASEY SPECIFICATIONS & STANDARD DRAWINGS APPROVED BY COUNCIL, THE EDCM, VPA GUIDELINES AND TO THE SATISFACTION OF THE ENGINEER.

2. A PRE COMMENCEMENT MEETING SHALL BE HELD PRIOR TO WORKS COMMENCING. THE CONTRACTOR SHALL CONTACT THE SUPERINTENDENT AND ARRANGE THIS MEETING.

3. DRAINAGE AND PITS TO BE SETOUT FROM OFFSETS SHOWN RATHER THAN FROM CENTRELINE PIPE CHAINAGES.

4. ALL STORMWATER DRAINAGE PIPES ARE TO BE R.C. CLASS 2 RUBBER RING JOINTED UNLESS OTHERWISE STATED.
   ALL DRAINS BENEATH CONCRETE FOOTPATH, DRIVEWAYS, KERB & CHANNEL OR ANY SEALED SURFACE SHALL BE BACKFILLED WITH 20mm NOMINAL SIZE CLASS 3 C.R. ALL DRAINS AND SEWERS BENEATH THE ROAD PAVEMENT SHALL BE BE BACKFILLED WITH 20mm NOMINAL SIZE CLASS 2 F.C.R.
   ALL DRAINS BEHIND KERB & CHANNEL SHALL BE BACKFILLED TO MATCH PAVEMENT SUBGRADE LEVEL WITH 20mm CLASS 3 F.C.R.
   ALL BACKFILLING TO BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S. 1289.5.2.1 - 2003

5. JOINTING FOR CURVED PIPE ALIGNMENT SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS (RRJ'S FOR MINOR DEFLECTIONS OR COMPLETE R.C. BANDAGES).

6. APPROVED GRANULAR BACKFILL TO BE PROVIDED WHERE PIPE TRENCHES ENCROACH UNDER ROADWAY AND LOTS DUE TO DEEP EXCAVATIONS IN ROCK.

7. SHALLOW CUT OFF DRAINS ARE TO BE PROVIDED ON SUBDIVISION BOUNDARY WHERE NECESSARY.

8. PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004, INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED. IN PARTICULAR, THE REQUIRED NOTIFICATIONS MUST BE CONVEYED TO THE VICTORIAN WORKCOVER AUTHORITY - HEALTH & SAFETY DIVISION WITH RESPECT TO TRENCHING OPERATIONS. DETAILS OF THE CONTRACTORS OCCUPATIONAL HEALTH & SAFETY PROCEDURES MUST BE LODGED WITH THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.
   PRIOR TO COMMENCEMENT OF WORKS ON SITE,THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION TO CITY OF CASEY COUNCIL:
   i. SOURCE OF QUARRY MATERIAL
   ii. N.A.T.A APPROVED TEST RESULTS FOR THE F.C.R. THAT IS TO BE USED.
   iii. IF THE SOURCE THE QUARRY MATERIAL IS CHANGED DURING THE COURSE OF THE WORKS, THEN NEW TEST RESULTS SHALL BE PROVIDED.
   THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL NECESSARY SHORING, PLANKING AND STRUTTING, DE-WATERING DEVICES, BARRICADES, SIGNS, LIGHTS ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION AND PROTECT THE PUBLIC FROM THE WORKS AS PER AUSTRALIAN STANDARD 1742-2&3.

9. 100mm DIAMETER AGRICULTURAL DRAINS ARE TO BE CONSTRUCTED BEHIND ALL KERB & CHANNEL, KERB ONLY, BUFFER STRIP AND OPEN CONCRETE INVERT.
   A.G.'s LAID BENEATH CONCRETE INVERT DRAINS SHALL BE BACKFILLED WITH CLASS 3 BASALTIC SCREENINGS OR NO FINES CONCRETE COVERED WITH GEOTEXTILE FABRIC EXTENDING 225mm EITHER SIDE OF THE A.G. TRENCH. CONCRETE INVERT AT INTERSECTIONS TO BE LAID AT THE SAME GRADE AS THE LIP OF THE THROUGH ROAD. A.G. DRAINS TO CONNECT TO UNDERGROUND DRAINS VIA PITS.

10. BATTERS SHALL BE 1 IN 6 FOR CUT & FILL UNLESS OTHERWISE SHOWN.

11. ALL INDIGENOUS TREES AND VEGETATION (INCLUDING ALL VICTORIAN NATIVE SPECIES) ARE TO BE PROTECTED AND RETAINED UNTIL COUNCIL HAS ISSUED A PLANNING PERMIT ENDORSING THEIR REMOVAL PRIOR TO ANY WORKS OCCURRING ON SITE, A PRECOMMENCEMENT MEETING WITH THE CIVIL CONSULTANT AND CONTRACTOR MUST BE ARRANGED WITH COUNCIL'S OPEN SPACE PLANNER AND SENIOR ARBORIST.

12. LOTS TO BE GRADED AND LEFT CLEAN TO THE SATISFACTION OF THE SUPERINTENDENT.

13. AT COMPLETION OF ALL WORKS, ALL RUBBISH, DEBRIS AND SURPLUS SPOIL SHALL BE REMOVED, AND THE SITE SHALL BE CLEARED TO THE SATISFACTION OF THE CHEF EXECUTIVE OFFICER/OR THEIR REPRESENTATIVE.

14. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.

15. THE WATER CONDUIT OFFSET FROM THE LOT BOUNDARY IS GIVEN ON THE WATER RETICULATION PLAN. THE CONTRACTOR MUST CONSTRUCT CONDUITS TO ACCORD WITH THE GIVEN OFFSET AND ENSURE THAT THE CONCRETE MARKS AT THE KERB AND FOOTPATH EXACTLY ABOVE THE CONDUIT.

16. GAS AND COMMUNICATIONS CONDUITS ARE TO BE 50mm DIAMETER HEAVY DUTY PVC LAID AT A MINIMUM DEPTH OF 200mm BELOW PAVEMENT SUBGRADE LEVEL, UNLESS OTHERWISE SHOWN. WATER CONDUITS ARE TO BE IN ACCORDANCE WITH MRWA-W-110 AND MRWA-W-202. THE LOCATION OF THE GAS AND WATER IS TO BE MARKED ON THE KERB.

17. NBN CO. TO BE NOTIFIED 7 DAYS PRIOR TO CONCRETE BEING POURED.

18. CONDUITS ARE TO BE EXTENDED 450mm BEHIND FACE OF KERB AND TO BE REFERENCED ON FACE OF KERB.

19. ALL DRIVEWAYS TO BE OFFSET 0.75m FROM SIDE BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN.

20. ALL DRIVEWAY RAMPS INTO PROPERTIES ARE TO BE CUT IN AT A MAXIMUM GRADE OF 1 IN 6.

21. EARTHWORKS ARE TO BE PERFORMED IN ACCORDANCE WITH AS3798-2007. ON COMPLETION THE CONTRACTOR SHALL PRESENT A "LEVEL 1" TYPED REPORT NOMINATING THE EXTENT OF FILL PLACED, ITS CONFORMANCE WITH THE SPECIFICATION AND ITS CLASSIFICATION AS CONTROLLED FILL.
   FILLING IN PROPERTIES IS TO BE CARRIED OUT USING APPROVED CLAY FILL.
   ALL FILL CONSTRUCTION BENEATH CAPPING LAYER AND/OR SUBGRADE TO BE TYPE A SELECTED MATERIAL, SELECTED, PLACE AND COMPACTED IN ACCORDANCE WITH CLAUSE 20.6 CASEY.
   ALL OTHER FILL OUTSIDE OF PROPOSED PAVEMENT (INCLUDING BENEATH FOOTPATHS) IS TO BE STRUCTURAL FILL TO COMPLY WITH A.S. 3798 - 1996 APPENDIX B, LEVEL 1 (OR 2) AS SPECIFIED.
   TOPSOIL AND ALL VEGETABLE MATTER IS TO BE STRIPPED FROM SITE PRIOR TO FILLING.
   ALL FILLING TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED TO MINIMUM DRY DENSITY RATIO OF 95% STANDARD IN ACCORDANCE WITH A.S. 3978.
   COMPACTION RESULTS ARE TO BE PROVIDED TO THE SUPERINTENDENT FOR ALLOTMENTS WITH EXCESS OF 300mm OF FILL.

22. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION No. 448 (MAY '07) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERVISING ENGINEER.

23. PAVEMENT DEPTHS MAY BE MODIFIED DURING CONSTRUCTION DEPENDING ON THE ON SITE CONDITIONS AS DIRECTED BY THE CASEY CONSTRUCTION ENGINEER OR WORKS SUPERVISOR

24. THE CONTRACTOR IS TO ORGANISE AND PAY FOR TESTING OF PAVEMENT BASE COURSE MATERIAL AND FINAL LAYER OF CRUSHED ROCK. A COPY OF RESULTS IS TO BE FORWARDED TO THE DIRECTOR OF ENGINEERING OR HIS REPRESENTATIVE. THE RESULTS MUST MEET THE REQUIREMENTS OF THE CITY OF CASEY SPECIFICATION BEFORE ANY FURTHER WORKS ARE REQUIRED.

25. THE CONTRACTOR MUST COMPLETE A LEVEL CHECK BETWEEN ALL TBM'S TO VERIFY LEVEL VALUES BEFORE COMMENCEMENT OF WORKS
   ALL TBM,s AND CONTROL POINTS ARE TO BE MAINTAINED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION. SHOULD ANY MARKS BE DISTURBED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE CONSULTANT TO ARRANGE RE-INSTATEMENT AT THE CONTRACTORS EXPENSE.

26. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR MUST SUBMIT A SMP TO THE CONSULTANT FOR APPROVAL. THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION No.275 "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL". APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.

27. ALL FOOTPATHS IN ROADS TO BE OFFSET 50mm FROM PROPERTY BOUNDARY. FOOTPATHS CONSTRUCTED ABOVE EXISTING LEVEL TO BE CONSTRUCTED ON APPROVED FILL (TO AS-3798) OF F.C.R. INTO NATURAL GROUND.

28. REFER TO LANDSCAPE ARCHITECT PLANS FOR DETAILS OF VEHICLE EXCLUSION ZONES. FENCING TO BE PLACED AROUND PERIMETER OF WORKS.

29. PRIOR TO COMMENCEMENT OF WORKS ANY TREE PROTECTION ZONES ARE INSTALLED AS SPECIFIED IN THE ANNOTATED DETAILS FORMING PART OF THE PLANNING PERMIT TO TREES NOTED "TO BE RETAINED". THIS INCLUDES THE FOLLOWING:
   - RING LOCK WIRE MESH APPROXIMATELY 1.80m HIGH
   - MAIN POSTS 100mm TREATED PINE (TP)
   - INTERMEDIATE POSTS STEEL STAR PICKETS (SP)
   - THE CORNER POSTS ARE TO BE TP WITH TP STAYS
   - EVERY THIRD POST TO BE TP
   - SP TO BE PLACED INTERMEDIATELY BETWEEN THE TP
   - POSTS AT 3.00m INTERVALS
   - THE RING LOCK MESH TO ENCIRCLE THE STRUCTURE AND BE FIRMLY SECURED AT EACH POST
   - POSTS MUST BE SUNK INTO THE GROUND BY 450mm (THERE IS TO BE NO CONCRETE TO SECURE POSTS AS THIS WILL AFFECT p.H LEVELS)
   -THE TREE PROTECTION ZONE IS TO BE CLEARLY SIGN POSTED IN ACCORDANCE WITH CONDITION 8 OF PLANNING PERMIT

   NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY TREE UNTIL APPROVAL IS GIVEN BY THE ENGINEER.

30. ALL FENCES ADJOINING ALL RESERVES (OTHER THAN ROAD RESERVES) ARE TO BE ERECTED TO A MINIMUM HEIGHT OF 1.8m BY THE DEVELOPER (OR OWNER) AT NO COST TO COUNCIL.

31. EXISTING DAM OR WATERCOURSES TO BE EXCAVATED TO A FIRM BASE AND BACKFILLED AS SPECIFIED. CONSULTING ENGINEER TO BE NOTIFIED WHEN THE DAM OR WATERCOURSES ARE EXCAVATED TO A FIRM BASE. NO FILLING IS TO BE PLACED PRIOR TO DAMS BEING INSPECTED AND LEVELS TAKEN. BACKFILLING IS TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL SUPERVISING ENGINEER.

32. TACTILE GROUND SURFACE INDICATORS (TGSI) ARE TO BE INSTALLED WHERE SHOWN IN ACCORDANCE WITH CITY OF CASEY SD 302 AND AS 1428.

33. PRIOR TO THE COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST SEEK AND ACQUIRE APPROPRIATE WORKS PERMITS FOR WORKING UNDER LIVE O/H POWER POLES.

34. PRIOR TO THE COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST SUBMIT A TRAFFIC MANAGEMENT PLAN TO THE SUPERINTENDENT, COUNCIL AND VICROADS. THE CONTRACTOR MUST ALSO SUBMIT A COPY OF THE CERTIFICATE CERTIFYING THAT THE PLAN HAS BEEN AUDITED AND APPROVED BY AN INDEPENDENT AND QUALIFIED AUDITOR.

35. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL THE NECESSARY WORK PERMITS FOR WORKING IN CLOSE PROXIMITY TO ANY EXISTING OR LIVE SERVICES AND CIVIL INFRASTRUCTURE. THIS INCLUDES BUT IS NOT LIMITED TO VICROADS, AUSNET AND COUNCIL.

36. ALL DRAINAGE OFFSETS AT THE REAR OF ALLOTMENTS ARE TO BE AT 1.0m OFFSET WITH PROPERTY INLETS 1.00m FROM THE LOW CORNER OF THE LOT UNLESS NOTED OTHERWISE.

37. ALL CHAINAGES AND RADII REFER TO THE BACK OF KERB, ALL SET OUT INFORMATION REFERS TO THE LIP OF KERB UNLESS SPECIFIED OTHERWISE.

38. ALL PLAIN CONCRETE IS TO BE 25MPa UNLESS NOTED OTHERWISE. ALL COLOURED CONCRETE IS TO BE 32MPa UNLESS NOTED OTHERWISE.

39. THE CONTRACTOR CANNOT CONSTRUCT ANY ELECTRICAL WORKS WITHOUT THE PRIOR CONSENT OF AUSNET.

40. BEFORE COMMENCEMENT OF WORKS ON TRENCHES IN EXCESS OF 1.5 METRES DEEP, NOTICE OF SUCH INTENTION IS TO BE SUBMITTED ON THE PRESCRIBED FORMS TO THE WORKCOVER AUTHORITY IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY REGULATIONS 2007 CLAUSE 5.1.27.

41. THE CONTRACTOR WHEN ENGAGED IN BLASTING OPERATION, SHALL NOT BLAST WITHIN 4.5m OF WATER, GAS OR SEWER PIPES OR WITHIN 15m OF ANY COMPLETED PART OF THE WORKS WITHOUT THE CONSENT OF THE SUPERINTENDENT.

42. THE DISPOSAL SITE FOR SPOIL FROM SITE AND THE TRUCK ROUTE IS TO BE SUBMITTED TO AND APPROVED BY CITY OF CASEY COUNCIL IN WRITING PRIOR TO THE COMMENCEMENT OF ANY WORKS. THE CONSENT OF THE SUPERINTENDENT.

43. PROPERTY INLETS AND HOUSE DRAINS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH EDCM 701-704. HOUSE DRAINS FOR ALLOTMENTS SHALL BE AT A SUFFICIENT DEPTH TO CONTROL DISCHARGE AT A MINIMUM OF 1 IN 100 FALL FROM ALL POINTS WITHIN THE PROPERTY AREA AND SHALL BE CONNECTED TO UNDERGROUND DRAINS IN ROAD RESERVES WHERE POSSIBLE WITH 600mm MINIMUM COVER AT THE PROPERTY LINE. HOUSE DRAINS SHALL BE PLACED 5.5m FROM THE LOW CORNER OF THE LOT UNLESS OTHERWISE SHOWN.

44. THE CONTRACTOR SHALL CO-OPERATE WITH OTHER CONTRACTORS AND/OR SERVICE AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE,

45. TRENCHING FOR UNDERGROUND ELECTRICAL CABLES, SUPPLY AND INSTALLATION OF CONDUITS AND SUPPLY AND PLACEMENT OF BACKFILL IS TO BE UNDERTAKEN BY THE CONTRACTOR UNDER THE SUPERVISION OF THE ELECTRICAL CONSULTANT.

46. ANY FOOTPATHS OR KERB AND CHANNEL DAMAGED DURING CONSTRUCTION AND MAINTENANCE PERIODS TO BE REINSTATED TO THE SATISFACTION OF CASEY CITY COUNCIL.

47. UPON COMPLETION, THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL RUBBISH AND SPOIL FROM THE SITE.

48. ALL SIGNS AND TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH AS1742.1-2014, AS1742.2-2009 AND SA1742.3-2009. LINEMARKINGS SHALL BE IN ACCORDANCE WITH VICROADS REQUIREMENTS WITH LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TOWELED INTO PLACE (MATERIAL DEGADUR OR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL (VICROADS SPECIFICATION SECTION 710 & 722).

49. THE CONTRACTOR IS TO INSTALL MARKER POSTS & RRPMs TO INDICATE THE LOCATION OF FIRE PLUGS IN ACCORDANCE WITH MRWA-W-300.

50. WHERE CONCRETE PAVING CROSSES SERVICE TRENCHES, SEWERAGE AND DRAINAGE, TRENCHES SHALL BE BACKFILLED WITH COMPACTED FINE CRUSH ROCK.

51. ALL PSMs SHALL BE HIGH STABILITY TYPE.

52. ALL LEVELS ARE TO A.H.D.

53. ALL CO-ORDINATES ARE TO AUSTRALIAN MAP GRID (AMG)

54. ALL DIMENSION ARE IN METRES UNLESS NOTED OTHERWISE.

55. CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURE/FENCES AND OR ANY RETAINING WALLS GREATER THAT 1m IN HEIGHT

56. THE CONTRACTOR MUST ARRANGE THE REQUISITE INSPECTIONS OF THE WORKS WITH THE CHIEF EXECUTIVE OFFICER/OR THEIR REPRESENTATIVE AS PER THE HOLD POINTS IN THE CASEY CITY COUNCIL SPECIFICATIONS.

57. ANY INFRASTRUCTURE DAMAGE DURING THE DEFECT LIABILITY PERIOD IS THE RESPONSIBILITY OF THE DEVELOPER OR HIS REPRESENTATIVE AND IS TO REINSTATED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER/OR THEIR REPRESENTATIVE.

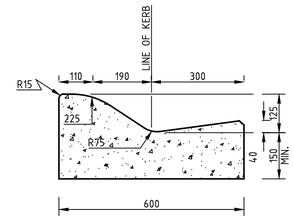
58. ALL FIRE HYDRANTS ARE TO BE MARKED IN ACCORDANCE WITH "IDENTIFICATION OF STREET HYDRANTS FOR FIRE-FIGHTING PURPOSES" PUBLICATION (DEVELOPED BY C.F.A., M.F.E.S.B. & N.R.E.). MARKINGS TO BE VIA BLUE PAVEMENT MARKER AND A (RED TOPPED) WHITE POST.

59. IF ANY SUBSTANDARD FILLING IS TO BE ENCOUNTERED IT MUST BE REMOVED AND REPLACED WITH FILL MATERIAL PROPERLY COMPACTED TO COUNCIL REQUIREMENTS. A GEO-TECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.

60. A CCTV REPORT MUST BE PROVIDED FOR ALL DRAINAGE LINES PRIOR TO ISSUE OF PRACTICAL COMPLETION.

61. FILLING IN ALL PROPERTIES & ROAD RESERVES IS TO BE CARRIED OUT USING APPROVED CLAY FILL. TOPSOIL & ALL VEGETABLE MATTER TO BE STRIPPED FROM SITE PRIOR TO FILLING. ALL FILLING TO BE CARRIED OUT IN 150MM LAYERS AND COMPACTED TO 95% OF MAX. DRY DENSITY. ALL FILLING TO COMPLY WITH AS 3798-2007, SECTION 8.2, LEVEL 1.
   A FILL REPORT MUST BE SUBMITTED FROM A NATA REGISTERED SOIL TESTING LABORATORY'.

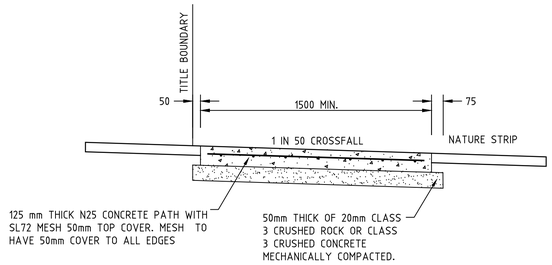
62. ALL WORKS ARE TO BE IN ACCORDANCE WITH CURRENT CITY OF CASEY AND/OR EDCM SPECIFICATIONS AND STANDARD DRAWINGS AND TO THE SATISFACTION OF CITY OF CASEY SUPERVISING ENGINEER.



SM2 KERB PROFILE

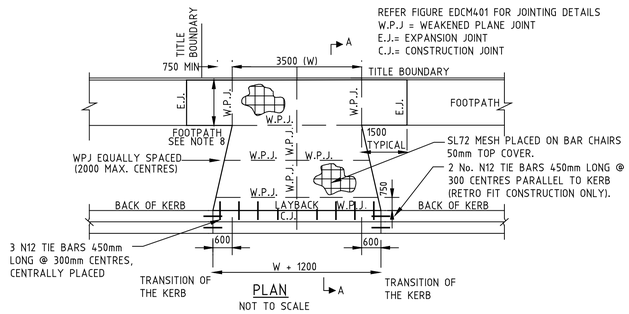
KERB DETAIL

NOT TO SCALE



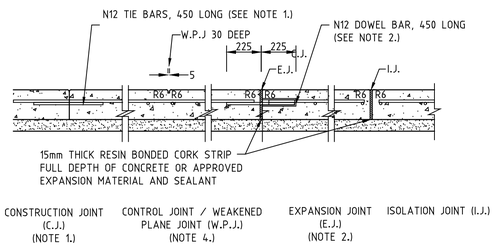
TYPICAL FOOTPATH AND SHARED PATH CROSS SECTION (EDCM401)

NOT TO SCALE



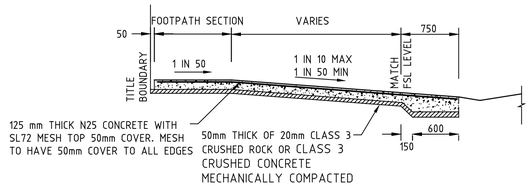
PLAN

NOT TO SCALE



CONCRETE JOINT DETAILS

NOT TO SCALE



SECTION A-A

RESIDENTIAL VEHICLE CROSSING (EDCM 501)

NOT TO SCALE

NOTES (EDCM 401)

1. TIE BARS TO BE INSTALLED AT 400 MAXIMUM CENTRES COMMENCING 150 FROM EDGE.
2. DOWEL BARS TO BE INSTALLED AT 400 CENTRES COMMENCING AT A MINIMUM OF 100 AND A MAXIMUM OF 200 FROM THE EDGE OF PATH. 16 DIAMETER PVC SLEEVE WITH END CAP OR CLOSED END TO BE FITTED TO ONE END OF THE BAR. DOWEL BARS TO BE SECURELY TIED TO LONGITUDINAL REINFORCING MESH.
3. EXPANSION JOINTS (EJ) LOCATED BOTH SIDE OF VEHICLE CROSSING AND AT A MAXIMUM OF 12000 CENTRES.
4. WEAKENED PLANE JOINTS LOCATED AT SPACINGS EQUAL TO THE WIDTH OF THE PATH AND MADE WITH A 'T' IRON OR CONCRETE SAW CUT.
5. IN SHARED PATHS WEAKENED PLANE JOINTS MUST BE MADE BY CONCRETE SAW CUTTING.
6. CONCRETE TO BE LIGHT BROOM FINISH WITH EDGE AND JOINTS NEATLY TOOLED AFTER THE BROOM IS APPLIED.
7. ALL FINISHED SURFACES TO COMPLY WITH AS 4586 SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIAL.
8. THE USE OF COLOURED CONCRETE MUST BE APPROVED BY COUNCIL. MINIMUM STRENGTH OF COLOURED CONCRETE TO BE 32 MPa.
9. FORMWORK TIMBER TO BE MIN. 125mm DEEP.
10. ALL DIMENSIONS IN MILLIMETERS.
11. SHARED PATHS TO BE 2.5m IN WIDTH MINIMUM. REFER TO APPROVED CONSTRUCTION PLANS FOR ACTUAL WIDTH.

NOTES (EDCM 501)

1. NO BULLNOSE IN THE INVERT OF KERB.
2. CONCRETE TO BE LIGHT BROOM FINISH WITH EDGES AND JOINTS NEATLY TOOLED AFTER THE BROOM IS APPLIED.
3. ALL FINISHED SURFACES TO COMPLY WITH AS 4586 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS.
4. THE USE OF PATTERN PAVING OR COLOURED CONCRETE MUST BE APPROVED BY COUNCIL. MINIMUM STRENGTH OF COLOURED CONCRETE 32 MPa.
5. WIDTH OF CROSSING (W) 3500 UNLESS SHOWN OTHERWISE ON APPROVED PLANS.
6. WHERE CONCRETE PAVING CROSSES SERVICE, SEWER AND DRAINAGE TRENCHES, THE TRENCHES TO BE BACKFILLED WITH COMPACTED 20mm CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE.
7. WHERE VEHICLE CROSSING IS RETROFITTED THE EXISTING KERB AND CHANNEL IS TO BE REMOVED AND IF THE EXISTING FOOTPATH IS LESS THAN 125mm THICK - ONE BAY OF PATH (TYPICAL 1500 WIDE) ON EITHER SIDE OF THE CROSSING IS TO BE REMOVED, REPLACED WITH 125mm THICK FOOTPATH AND JOINED TO THE EXISTING PATH WITH AN EXPANSION JOINT REFER FIGURE EDCM401.

AS CONSTRUCTED

REV.	REVISION	DATE	REG ENG
AC1	AS CONSTRUCTED	07/04/2026	M.C.

LEGEND

GAS MAIN	HOUSE DRAIN PROPOSED/EX.	100.00 / 99.75	CHAINAGES AND TANGENT POINTS
WATER MAIN	PROPERTY INLET, DRAINAGE PITS	20.06	EXISTING SURFACE LEVEL
RECYCLED WATER MAIN	EX./FUT. INLET, DRAINAGE PITS	F52.135	FINISHED LEVEL (TITLE BOUNDARY)
ELECTRICITY CABLE	DRAINAGE PIT STAGE/NUMBER	T21.35	DESIGN TOP/TOE OF BATTER LEVEL
TELECOMMUNICATIONS CABLE	SEWER LINE AND STRUCTURES	F21.550	DESIGN PAVEMENT LEVEL
WATER CONDUIT	EX.SEWER LINE AND STRUCTURES	19.28	PROPOSED CONTOUR LINE & LEVEL
GAS CONDUIT	KERB AND CHANNEL	19.28	EXISTING CONTOUR LINE & LEVEL
RECYCLED WATER CONDUIT	EX./FUT. KERB AND CHANNEL		FILLING IN EXCESS OF 200mm
COMBINED SERVICES CONDUIT	KERB TO BE REMOVED OFFSITE	CD.24	CATCH DRAIN AND INVERT LEVEL
T.B.M. / P.S.M.	STREET SIGN		EX. BATTER / PROP. BATTER

22 Business Park Drive
Notting Hill VIC 3168
A.C.N. 006 550 803
E: consulting@dpmvic.com.au
W: www.dpmvic.com.au
T: (03) 9538 5000

Consulting Group

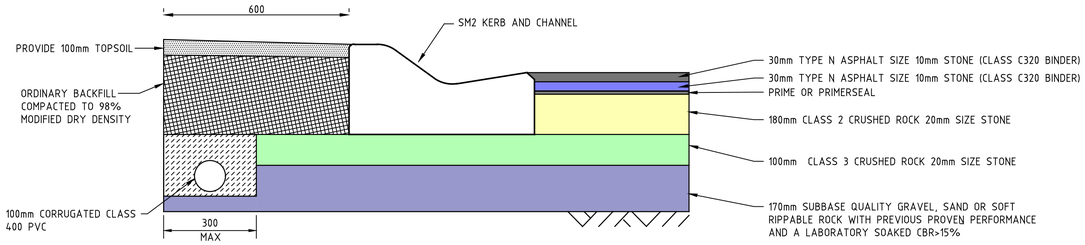
DRAWN:	J.DEMERTZIDIS
DESIGNED:	J.DEMERTZIDIS
CHECKED:	S.MAKARAS
AUTHORISED:	M.COLE
PE REG NO:	PE1124072
DATE:	06/02/2025

AUTHORITY: CARDINIA SHIRE COUNCIL

PROJECT: GERANIUM ESTATE - STAGE 1 ROAD & DRAINAGE

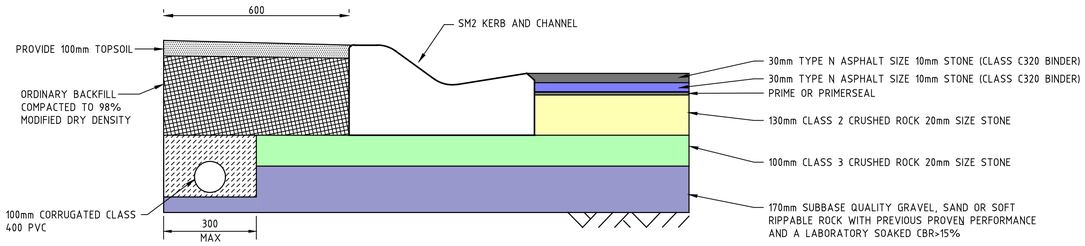
DETAILS: GENERAL NOTES & TYPICAL DETAILS

SCALE N.T.S.
LEVEL DATUM AHD
SHEET 06 OF 14
DRAWING No. 3257/01/R06
REV. AC1



TOTAL MIN. COMPACTED DEPTH 510mm

RIX ROAD



TOTAL MIN. COMPACTED DEPTH 460mm

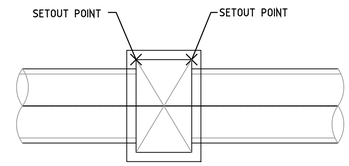
TATJANA WAY & SOLANDERI WAY

PAVEMENT COMPOSITIONS

NOT TO SCALE

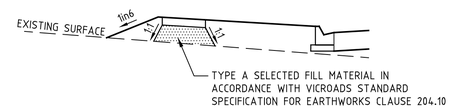
PAVEMENT NOTES:

1. DESIGN CBR OF LOWER SUBBASE MATERIALS COMPRIMISING SOFT RIPPABLE ROCK OR MECHANICALLY STABILISED MATERIALS TO BE DETERMINED USING VICROADS CODES OF PRACTICE RC500.20, RC324.02 & RC301.04.



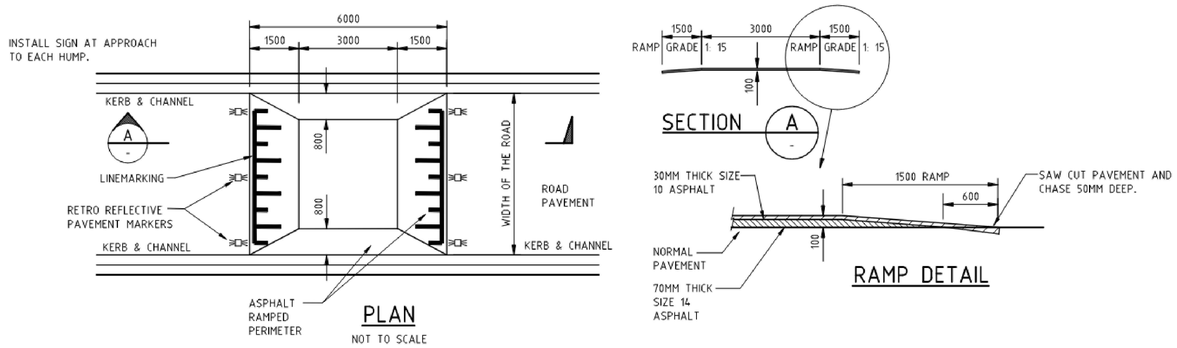
PIT SETOUT POINT DETAIL

NOT TO SCALE



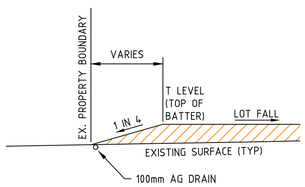
BACKFILL UNDER FOOTPATH WHEN IN FILL

NOT TO SCALE



SPEED HUMP DETAIL

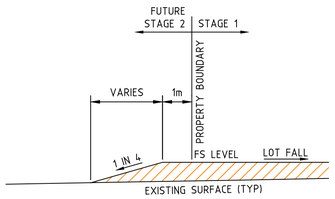
NOT TO SCALE



BATTER TREATMENT - REAR/SIDE LOTS 1-19

BATTER DETAIL A

NOT TO SCALE



TEMP. BATTER TREATMENT - REAR/SIDE LOTS 19-30

BATTER DETAIL B

NOT TO SCALE

AS CONSTRUCTED

REV.	REVISION	DATE	REG ENG
AC1	AS CONSTRUCTED	07/04/2026	M.C.

LEGEND

GAS MAIN	HOUSE DRAIN PROPOSED/EX.	CHAINAGES AND TANGENT POINTS	
WATER MAIN	PROPERTY INLET, DRAINAGE PITS	20.06	EXISTING SURFACE LEVEL
RECYCLED WATER MAIN	EX./FUT. INLET, DRAINAGE PITS	FS21.35	FINISHED LEVEL (TITLE BOUNDARY)
ELECTRICITY CABLE	DRAINAGE PIT STAGE/NUMBER	T21.35	DESIGN TOP/TOE OF BATTER LEVEL
TELECOMMUNICATIONS CABLE	SEWER LINE AND STRUCTURES	P21.350	DESIGN PAVEMENT LEVEL
WATER CONDUIT	EX.SEWER LINE AND STRUCTURES	19.20	PROPOSED CONTOUR LINE & LEVEL
GAS CONDUIT	KERB AND CHANNEL	19.20	EXISTING CONTOUR LINE & LEVEL
RECYCLED WATER CONDUIT	EX./FUT. KERB AND CHANNEL		FILLING IN EXCESS OF 200mm
COMBINED SERVICES CONDUIT	KERB TO BE REMOVED OFFSITE	22.38	CATCH DRAIN AND INVERT LEVEL
T.B.M. / P.S.M.	STREET SIGN		EX. BATTER / PROP. BATTER

22 Business Park Drive
Notting Hill VIC 3168
A.C.N. 006 550 803
E: consulting@dpmvic.com.au
W: www.dpmvic.com.au
T: (03) 9538 5000

Consulting Group

DRAWN:	J.DEMERTZIDIS
DESIGNED:	J.DEMERTZIDIS
CHECKED:	S.MAKARAS
AUTHORISED:	M.COLE
PE REG NO:	PE1124072
DATE:	06/02/2025

AUTHORITY: **CARDINIA SHIRE COUNCIL**

PROJECT: **GERANIUM ESTATE - STAGE 1 ROAD & DRAINAGE**

DETAILS: **PAVEMENT COMPOSITIONS AND MISCELLANEOUS DETAILS**

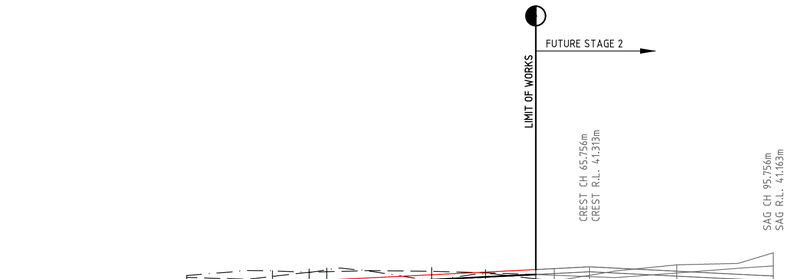
SCALE N.T.S.

LEVEL DATUM AHD

SHEET 07 **OF** 14

DRAWING No. 3257/01/R07

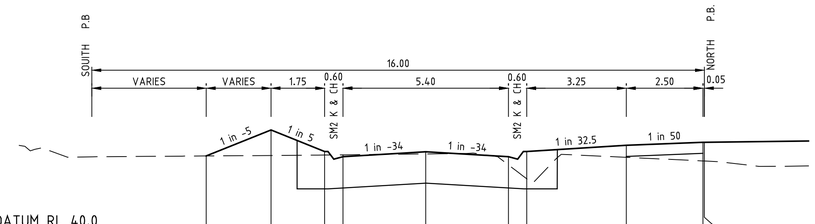
REV. AC1



DATUM RL38.00

DESIGN CENTRELINE	40.984	41.054	41.084	41.098	41.184	41.228	41.269	41.284	41.313	41.242	41.163
LEFT DESIGN LIP OF KERB	40.905	40.975	41.005	41.019	41.105	41.148	41.190	41.205	41.233	41.162	41.083
RIGHT DESIGN LIP OF KERB	40.905	40.975	41.005	41.019	41.105	41.148	41.190	41.205	41.233	41.162	41.083
EXISTING SURFACE LEFT PROP BOUNDARY	41.140	41.157	41.226	41.233	41.240	41.216	41.187	41.176	41.154	41.213	41.329
EXISTING SURFACE RIGHT PROP BOUNDARY	41.171	41.248	41.221	41.244	41.084	41.196	41.117	41.079	41.175	41.345	41.542
CHAINAGE	0.000	14.001	20.000	22.873	40.000	48.774	57.002	60.000	65.756	80.000	95.756

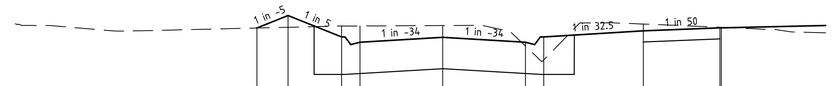
LONGITUDINAL SECTION - RIX ROAD



DATUM RL 40.0

DESIGN SURFACE LEVEL	41.201	41.625	41.275	41.190	41.269	41.190	41.275	41.375	41.425	41.425
EXISTING SURFACE LEVEL	41.201	41.209	41.216	41.220	41.234	41.056	40.828	41.179	41.120	41.119
OFFSET	-7.166	-5.050	-3.300	-2.700	0.000	2.700	3.300	6.550	9.050	9.100

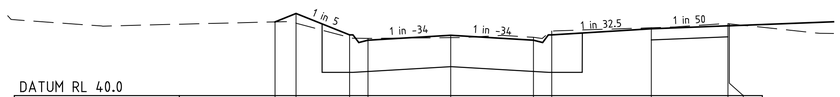
CH 57.00



DATUM RL 40.0

DESIGN SURFACE LEVEL	41.250	41.454	41.104	41.019	41.098	41.019	41.104	41.204	41.254	41.254
EXISTING SURFACE LEVEL	41.250	41.262	41.282	41.283	41.290	40.956	40.730	41.315	41.263	41.261
OFFSET	-6.068	-5.050	-3.300	-2.700	0.000	2.700	3.300	6.550	9.050	9.100

CH 22.87



DATUM RL 40.0

DESIGN SURFACE LEVEL	41.202	41.340	40.990	40.905	40.984	40.905	40.990	41.090	41.140	41.140
EXISTING SURFACE LEVEL	41.202	41.182	40.947	40.934	40.945	40.951	41.052	41.107	41.174	41.171
OFFSET	-5.736	-5.050	-3.300	-2.700	0.000	2.700	3.300	6.550	9.050	9.100

CH 0.00

H 1 : 500 @ A1 — 0 5 10 20 30 40
V 1 : 50 — 0 0.5 1 2 3 4

AS CONSTRUCTED

REV.	REVISION	DATE	REG ENG
AC1	AS CONSTRUCTED	07/04/2026	M.C.

LEGEND

GAS MAIN	HOUSE DRAIN PROPOSED/EX.	CHAIN 97 TR 24.36	CHAINAGES AND TANGENT POINTS
WATER MAIN	PROPERTY INLET, DRAINAGE PITS	20.06	EXISTING SURFACE LEVEL
RECYCLED WATER MAIN	EX./FUT. INLET, DRAINAGE PITS	FS21.35	FINISHED LEVEL (TITLE BOUNDARY)
ELECTRICITY CABLE	DRAINAGE PIT STAGE/NUMBER	T21.35	DESIGN TOP/TOE OF BATTER LEVEL
TELECOMMUNICATIONS CABLE	SEWER LINE AND STRUCTURES	F21.350	DESIGN PAVEMENT LEVEL
WATER CONDUIT	EX.SEWER LINE AND STRUCTURES	19.24	PROPOSED CONTOUR LINE & LEVEL
GAS CONDUIT	KERB AND CHANNEL	19.24	EXISTING CONTOUR LINE & LEVEL
RECYCLED WATER CONDUIT	EX./FUT. KERB AND CHANNEL		FILLING IN EXCESS OF 200mm
COMBINED SERVICES CONDUIT	KERB TO BE REMOVED OFFSITE	F22.50	CATCH DRAIN AND INVERT LEVEL
T.B.M. ▲ P.S.M.	STREET SIGN		EX. BATTER / PROP. BATTER

22 Business Park Drive
Notting Hill VIC 3168
A.C.N. 006 550 803
E: consulting@dpmvic.com.au
W: www.dpmvic.com.au
T: (03) 9538 5000

Consulting Group

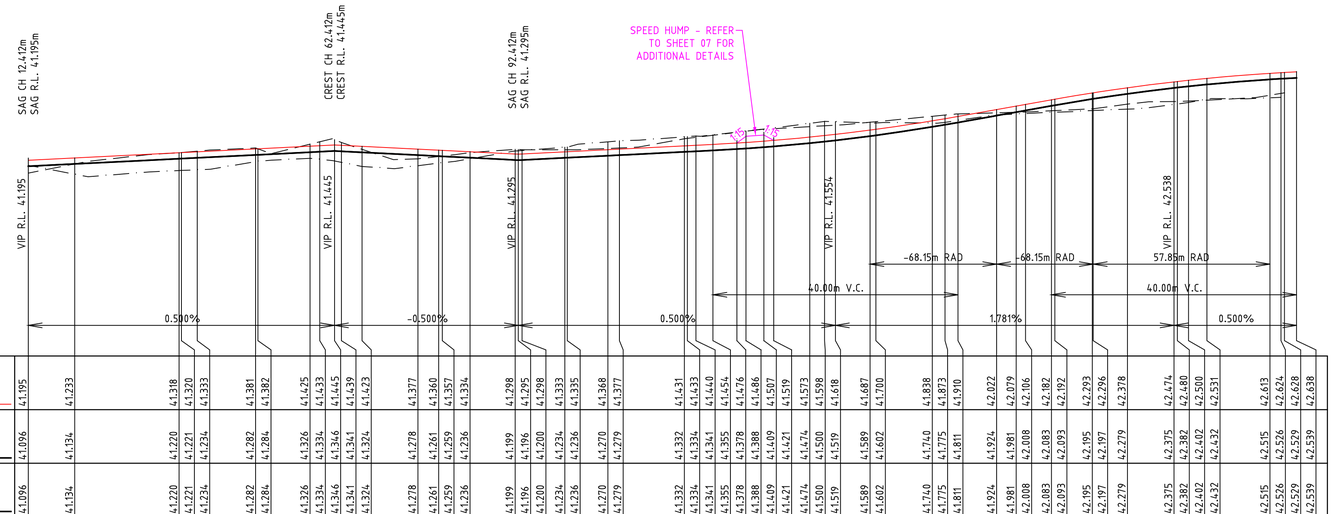
DRAWN:	J.DEMERTZIDIS
DESIGNED:	J.DEMERTZIDIS
CHECKED:	S.MAKARAS
AUTHORISED:	M.COLE
PE REG NO:	PE1124072
DATE:	06/02/2025

AUTHORITY: **CARDINIA SHIRE COUNCIL**

PROJECT: **GERANIUM ESTATE - STAGE 1 ROAD & DRAINAGE**

DETAILS: **RIX ROAD LONGITUDINAL & CROSS SECTIONS**

SCALE H: 1:500 V: 1:50
LEVEL DATUM AHD
SHEET 08 **OF** 14
DRAWING No. **3257/01/R08**
REV. AC1



DATUM RL38.00

CHAINAGE	DESIGN CENTRELINE	LEFT DESIGN LIP OF KERB	RIGHT DESIGN LIP OF KERB	EXISTING SURFACE LEFT PROP BOUNDARY	EXISTING SURFACE RIGHT PROP BOUNDARY
12.412	41.195	41.096	41.096	40.986	41.113
20.000	41.233	41.134	41.134	41.135	40.967
37.030	41.318	41.220	41.220	41.317	41.027
37.408	41.320	41.221	41.221	41.320	41.029
40.000	41.333	41.234	41.234	41.343	41.039
49.530	41.381	41.282	41.282	41.396	41.173
49.908	41.382	41.284	41.284	41.381	41.180
58.408	41.425	41.326	41.326	41.458	41.226
60.000	41.433	41.334	41.334	41.497	41.210
62.412	41.445	41.346	41.346	41.531	41.183
63.530	41.439	41.341	41.341	41.484	41.161
66.908	41.423	41.324	41.324	41.373	41.093
76.030	41.377	41.278	41.278	41.219	41.106
79.408	41.360	41.261	41.261	41.256	41.148
80.000	41.357	41.259	41.259	41.263	41.155
84.530	41.334	41.236	41.236	41.320	41.219
91.908	41.298	41.199	41.199	41.373	41.347
92.412	41.295	41.196	41.196	41.371	41.350
93.030	41.298	41.200	41.200	41.367	41.354
100.000	41.333	41.234	41.234	41.367	41.407
100.408	41.335	41.236	41.236	41.367	41.410
107.030	41.368	41.270	41.270	41.386	41.496
108.908	41.377	41.279	41.279	41.395	41.511
119.530	41.431	41.332	41.332	41.545	41.577
120.000	41.433	41.334	41.334	41.551	41.580
121.408	41.440	41.341	41.341	41.569	41.591
124.186	41.454	41.355	41.355	41.603	41.610
128.908	41.476	41.378	41.378	41.652	41.655
130.408	41.486	41.388	41.388	41.669	41.671
133.408	41.507	41.409	41.409	41.701	41.703
134.908	41.519	41.421	41.421	41.710	41.721
140.000	41.573	41.474	41.474	41.744	41.798
142.408	41.598	41.500	41.500	41.758	41.830
144.186	41.618	41.519	41.519	41.767	41.824
149.836	41.687	41.589	41.589	41.817	41.805
150.797	41.700	41.602	41.602	41.825	41.802
160.000	41.838	41.740	41.740	41.913	41.801
162.072	41.873	41.775	41.775	41.932	41.813
164.186	41.910	41.811	41.811	41.951	41.845
170.499	42.022	41.924	41.924	41.969	41.933
173.700	42.079	41.981	41.981	41.978	41.950
175.219	42.106	42.008	42.008	41.983	41.958
179.457	42.182	42.083	42.083	42.003	41.977
180.000	42.192	42.093	42.093	42.005	41.979
186.113	42.293	42.195	42.195	42.035	42.007
186.268	42.296	42.197	42.197	42.036	42.008
191.849	42.378	42.279	42.279	42.111	42.029
199.457	42.474	42.375	42.375	42.153	42.104
200.000	42.480	42.382	42.382	42.154	42.111
201.830	42.500	42.402	42.402	42.161	42.138
204.829	42.531	42.432	42.432	42.175	42.190
215.424	42.643	42.515	42.515	42.260	42.213
216.913	42.624	42.526	42.526	42.287	42.272
217.485	42.628	42.529	42.529	42.296	
219.457	42.638	42.539	42.539		

LONGITUDINAL SECTION - TATJANA WAY

H 1 : 100 @ A1 — 0 1 2 4 6 8
V 1 : 50 — 0 0.5 1 2 3 4

AS CONSTRUCTED

REV.	REVISION	DATE	REG ENG
AC1	AS CONSTRUCTED	07/04/2026	M.C.

LEGEND

GAS MAIN	HOUSE DRAIN PROPOSED/EX.	CH20.37 TF24.20	CHAINAGES AND TANGENT POINTS
WATER MAIN	PROPERTY INLET, DRAINAGE PITS	20.06	EXISTING SURFACE LEVEL
RECYCLED WATER MAIN	EX./FUT. INLET, DRAINAGE PITS	F521.35	FINISHED LEVEL (TITLE BOUNDARY)
ELECTRICITY CABLE	DRAINAGE PIT STAGE/NUMBER	T21.35	DESIGN TOP/TOE OF BATTER LEVEL
TELECOMMUNICATIONS CABLE	SEWER LINE AND STRUCTURES	F21.350	DESIGN PAVEMENT LEVEL
WATER CONDUIT	EX.SEWER LINE AND STRUCTURES	19.20	PROPOSED CONTOUR LINE & LEVEL
GAS CONDUIT	KERB AND CHANNEL	19.20	EXISTING CONTOUR LINE & LEVEL
RECYCLED WATER CONDUIT	EX./FUT. KERB AND CHANNEL		FILLING IN EXCESS OF 200mm
COMBINED SERVICES CONDUIT	KERB TO BE REMOVED OFFSITE	CP21.W	CATCH DRAIN AND INVERT LEVEL
T.B.M. ▲ P.S.M.	STREET SIGN		EX. BATTER / PROP. BATTER

22 Business Park Drive
Notting Hill VIC 3168
A.C.N. 006 550 803
E: consulting@dpmvic.com.au
W: www.dpmvic.com.au
T: (03) 9538 5000

dpm Consulting Group

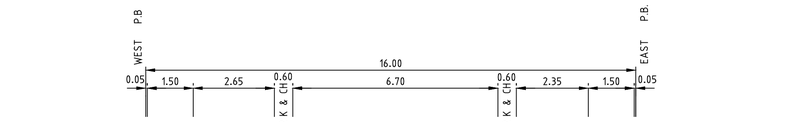
DRAWN:	J.DEMERTZIDIS
DESIGNED:	J.DEMERTZIDIS
CHECKED:	S.MAKARAS
AUTHORISED:	M.COLE
PE REG NO:	PE1124072
DATE:	06/02/2025

AUTHORITY: **CARDINIA SHIRE COUNCIL**

PROJECT: **GERANIUM ESTATE - STAGE 1 ROAD & DRAINAGE**

DETAILS: **TATJANA WAY LONGITUDINAL SECTIONS**

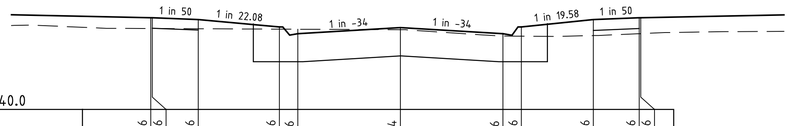
SCALE H: 1:100 V: 1:50
LEVEL DATUM AHD
SHEET 09 **OF** 14
DRAWING No. 3257/01/R09
REV. AC1



DATUM RL 40.0

DESIGN SURFACE LEVEL	41.539	41.539	41.509	41.389	41.279	41.377	41.279	41.389	41.509	41.539	41.539
EXISTING SURFACE LEVEL	41.394	41.394	41.399	41.439	41.443	41.467	41.499	41.505	41.522	41.512	41.511
OFFSET	-8.150	-8.100	-6.600	-3.950	-3.350	0.000	3.350	3.950	6.300	7.800	7.850

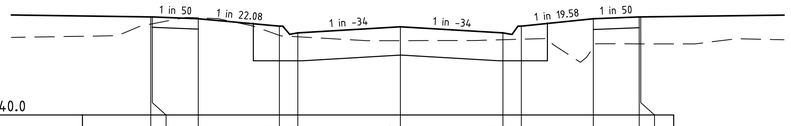
CH 108.91



DATUM RL 40.0

DESIGN SURFACE LEVEL	41.496	41.496	41.466	41.346	41.236	41.334	41.236	41.346	41.466	41.496	41.496
EXISTING SURFACE LEVEL	41.320	41.319	41.316	41.310	41.308	41.300	41.198	41.195	41.205	41.235	41.236
OFFSET	-8.150	-8.100	-6.600	-3.950	-3.350	0.000	3.350	3.950	6.300	7.800	7.850

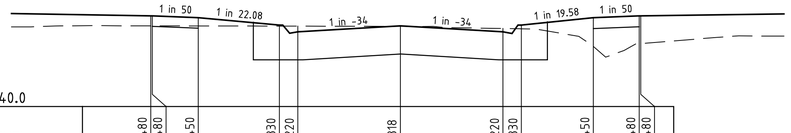
CH 84.53



DATUM RL 40.0

DESIGN SURFACE LEVEL	41.601	41.601	41.571	41.451	41.341	41.439	41.341	41.451	41.571	41.601	41.601
EXISTING SURFACE LEVEL	41.484	41.489	41.585	41.299	41.275	41.214	41.228	41.237	41.103	41.161	41.161
OFFSET	-8.150	-8.100	-6.600	-3.950	-3.350	0.000	3.350	3.950	6.300	7.800	7.850

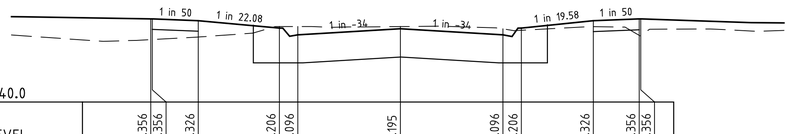
CH 63.53



DATUM RL 40.0

DESIGN SURFACE LEVEL	41.480	41.480	41.450	41.330	41.220	41.318	41.220	41.330	41.450	41.480	41.480
EXISTING SURFACE LEVEL	41.317	41.317	41.316	41.313	41.312	41.309	41.274	41.270	40.982	41.025	41.027
OFFSET	-8.150	-8.100	-6.600	-3.950	-3.350	0.000	3.350	3.950	6.300	7.800	7.850

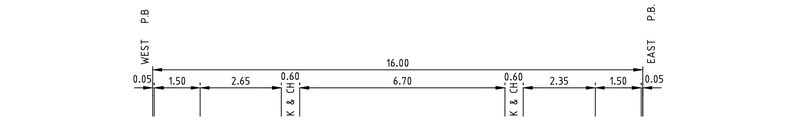
CH 37.03



DATUM RL 40.0

DESIGN SURFACE LEVEL	41.356	41.356	41.326	41.206	41.096	41.195	41.096	41.206	41.326	41.356	41.356
EXISTING SURFACE LEVEL	41.019	41.020	41.061	41.231	41.231	41.231	41.193	41.171	41.229	41.087	41.086
OFFSET	-8.150	-8.100	-6.600	-3.950	-3.350	0.000	3.350	3.950	6.300	7.800	7.850

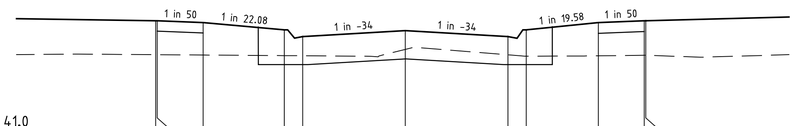
CH 12.41



DATUM RL 40.0

DESIGN SURFACE LEVEL	41.760	41.760	41.730	41.610	41.500	41.598	41.500	41.610	41.730	41.760	41.760
EXISTING SURFACE LEVEL	41.756	41.756	41.759	41.763	41.764	41.763	41.779	41.786	41.812	41.829	41.830
OFFSET	-8.150	-8.100	-6.600	-3.950	-3.350	0.000	3.350	3.950	6.300	7.800	7.850

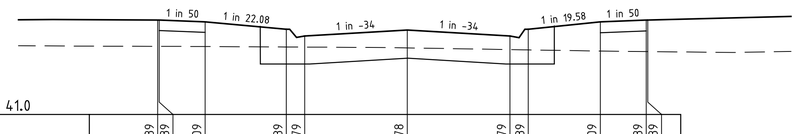
CH 142.41



DATUM RL 41.0

DESIGN SURFACE LEVEL	42.786	42.786	42.756	42.636	42.526	42.624	42.526	42.636	42.756	42.786	42.786
EXISTING SURFACE LEVEL	42.231	42.231	42.226	42.216	42.214	42.318	42.228	42.206	42.213	42.221	42.222
OFFSET	-8.150	-8.100	-6.600	-3.950	-3.350	0.000	3.350	3.950	6.300	7.800	7.850

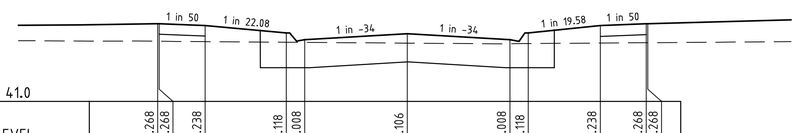
CH 216.91



DATUM RL 41.0

DESIGN SURFACE LEVEL	42.539	42.539	42.509	42.389	42.279	42.378	42.279	42.389	42.509	42.539	42.539
EXISTING SURFACE LEVEL	42.111	42.111	42.108	42.100	42.099	42.086	42.058	42.053	42.034	42.025	42.025
OFFSET	-8.150	-8.100	-6.600	-3.950	-3.350	0.000	3.350	3.950	6.300	7.800	7.850

CH 191.85



DATUM RL 41.0

DESIGN SURFACE LEVEL	42.268	42.268	42.238	42.118	42.008	42.106	42.008	42.118	42.238	42.268	42.268
EXISTING SURFACE LEVEL	41.983	41.982	41.976	41.966	41.964	41.951	41.942	41.944	41.953	41.958	41.959
OFFSET	-8.150	-8.100	-6.600	-3.950	-3.350	0.000	3.350	3.950	6.300	7.800	7.850

CH 175.22

H 1 : 500 @ A1 — 0 5 10 20 30 40
V 1 : 50 — 0 0.5 1 2 3 4

AS CONSTRUCTED

REV.	REVISION	DATE	REG ENG
AC1	AS CONSTRUCTED	07/04/2026	M.C.

LEGEND

GAS MAIN	HOUSE DRAIN PROPOSED/EX.	0.00 RL 97 / 99.00 RL 98	CHAINAGES AND TANGENT POINTS
WATER MAIN	PROPERTY INLET, DRAINAGE PITS	20.06	EXISTING SURFACE LEVEL
RECYCLED WATER MAIN	EX./FUT. INLET, DRAINAGE PITS	FS21.35	FINISHED LEVEL (TITLE BOUNDARY)
ELECTRICITY CABLE	DRAINAGE PIT STAGE/NUMBER	T21.35	DESIGN TOP/TOE OF BATTER LEVEL
TELECOMMUNICATIONS CABLE	SEWER LINE AND STRUCTURES	P21.350	DESIGN PAVEMENT LEVEL
WATER CONDUIT	EX.SEWER LINE AND STRUCTURES	19.20	PROPOSED CONTOUR LINE & LEVEL
GAS CONDUIT	KERB AND CHANNEL	19.20	EXISTING CONTOUR LINE & LEVEL
RECYCLED WATER CONDUIT	EX./FUT. KERB AND CHANNEL		FILLING IN EXCESS OF 200mm
COMBINED SERVICES CONDUIT	KERB TO BE REMOVED OFFSITE	22.19	CATCH DRAIN AND INVERT LEVEL
T.B.M. ▲ P.S.M.	STREET SIGN		EX. BATTER / PROP. BATTER

22 Business Park Drive
Notting Hill VIC 3168
A.C.N. 006 550 803
E: consulting@dpmvic.com.au
W: www.dpmvic.com.au
T: (03) 9538 5000

Consulting Group

DRAWN:	J.DEMERTZIDIS
DESIGNED:	J.DEMERTZIDIS
CHECKED:	S.MAKARAS
AUTHORISED:	M.COLE
PE REG NO:	PE1124072
DATE:	06/02/2025

AUTHORITY: **CARDINIA SHIRE COUNCIL**

PROJECT: **GERANIUM ESTATE - STAGE 1 ROAD & DRAINAGE**

DETAILS: **TATJANA WAY CROSS SECTIONS**

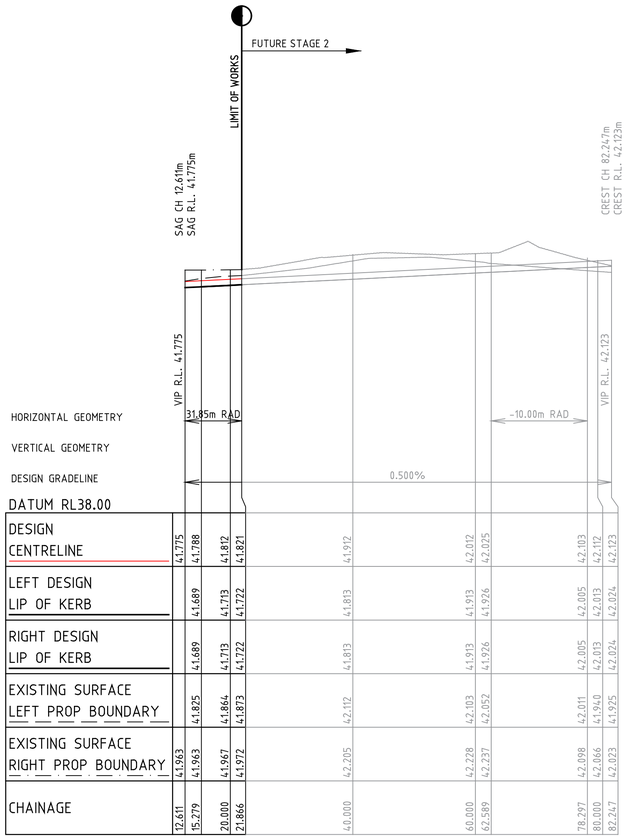
SCALE H: 1:500 V: 1:50

LEVEL DATUM AHD

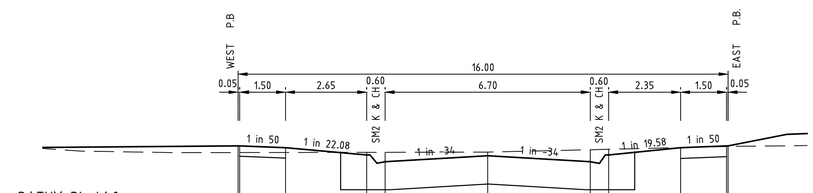
SHEET 10 **OF** 14

DRAWING No. **3257/01/R10**

REV. AC1



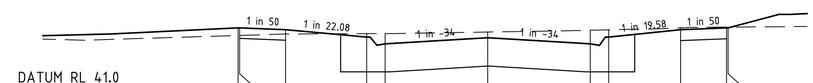
LONGITUDINAL SECTION - SOLANDERI WAY



DATUM RL 41.0

DESIGN SURFACE LEVEL	41.982	41.982	41.952	41.832	41.722	41.821	41.722	41.832	41.952	41.982	41.982
EXISTING SURFACE LEVEL	41.873	41.873	41.874	41.876	41.877	41.881	41.919	41.926	41.954	41.972	41.972
OFFSET	-8.150	-8.100	-6.600	-3.950	-3.350	0.000	3.350	3.950	6.300	7.800	7.850

CH 21.87



DATUM RL 41.0

DESIGN SURFACE LEVEL	41.949	41.949	41.919	41.799	41.689	41.788	41.689	41.799	41.919	41.949	41.949
EXISTING SURFACE LEVEL	41.826	41.826	41.849	41.855	41.857	41.882	41.911	41.918	41.950	41.962	41.963
OFFSET	-8.150	-8.100	-6.600	-3.950	-3.350	0.000	3.350	3.950	6.300	7.800	7.850

CH 15.28

H 1 : 100 @ A1 — 0 1 2 4 6 8
V 1 : 50 — 0 0.5 1 2 3 4

AS CONSTRUCTED

REV.	REVISION	DATE	REG ENG
AC1	AS CONSTRUCTED	07/04/2026	M.C.

LEGEND

GAS MAIN	HOUSE DRAIN PROPOSED/EX.	CH21.87 TF15.28	CHAINAGES AND TANGENT POINTS
WATER MAIN	PROPERTY INLET, DRAINAGE PITS	20.06	EXISTING SURFACE LEVEL
RECYCLED WATER MAIN	EX./FUT. INLET, DRAINAGE PITS	F521.35	FINISHED LEVEL (TITLE BOUNDARY)
ELECTRICITY CABLE	DRAINAGE PIT STAGE/NUMBER	T21.35	DESIGN TOP/TOE OF BATTER LEVEL
TELECOMMUNICATIONS CABLE	SEWER LINE AND STRUCTURES	F21.350	DESIGN PAVEMENT LEVEL
WATER CONDUIT	EX.SEWER LINE AND STRUCTURES	19.20	PROPOSED CONTOUR LINE & LEVEL
GAS CONDUIT	KERB AND CHANNEL	19.20	EXISTING CONTOUR LINE & LEVEL
RECYCLED WATER CONDUIT	EX./FUT. KERB AND CHANNEL		FILLING IN EXCESS OF 200mm
COMBINED SERVICES CONDUIT	KERB TO BE REMOVED OFFSITE	CATCH DRAIN AND INVERT LEVEL	
T.B.M. / P.S.M.	STREET SIGN	EX. BATTER / PROP. BATTER	

22 Business Park Drive
Notting Hill VIC 3168
A.C.N. 006 550 803
E: consulting@dpmvic.com.au
W: www.dpmvic.com.au
T: (03) 9538 5000

Consulting Group

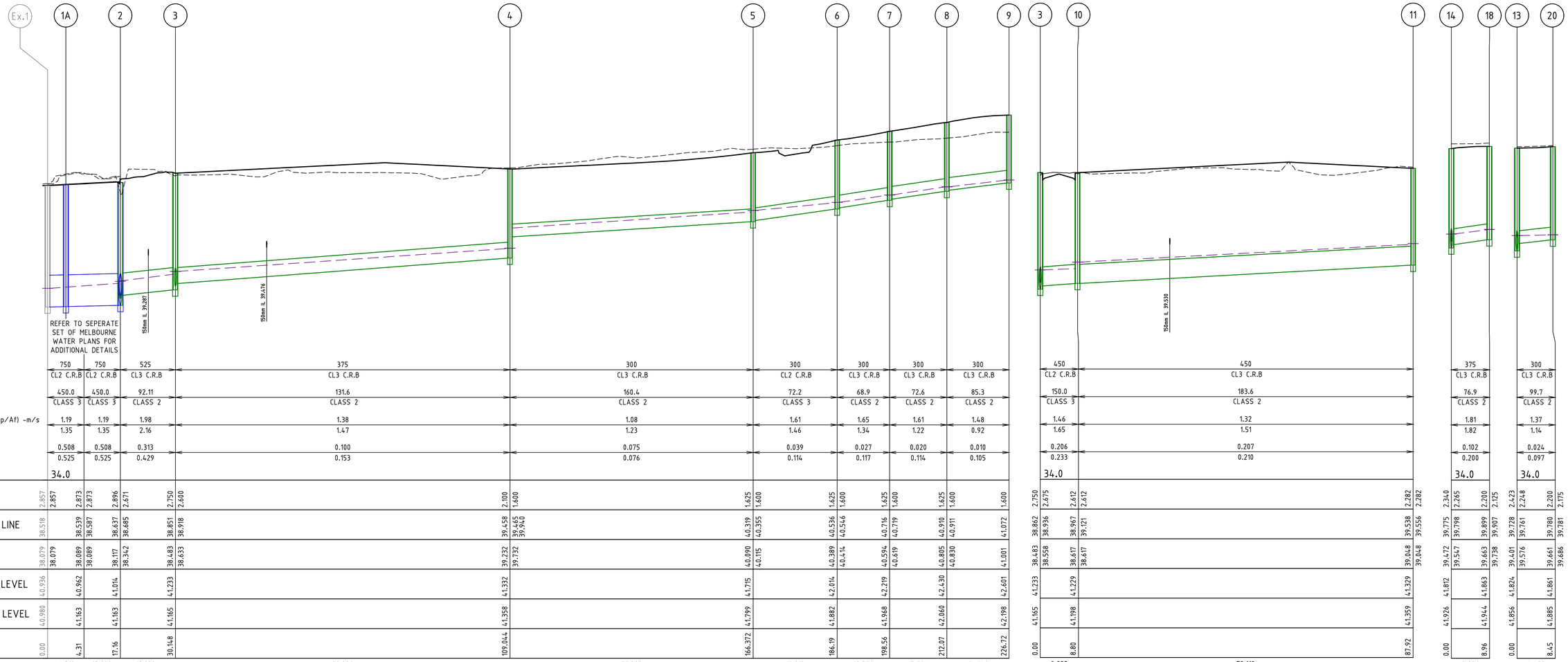
DRAWN:	J.DEMERTZIDIS
DESIGNED:	J.DEMERTZIDIS
CHECKED:	S.MAKARAS
AUTHORISED:	M.COLE
PE REG NO:	PE1124072
DATE:	06/02/2025

AUTHORITY: **CARDINIA SHIRE COUNCIL**

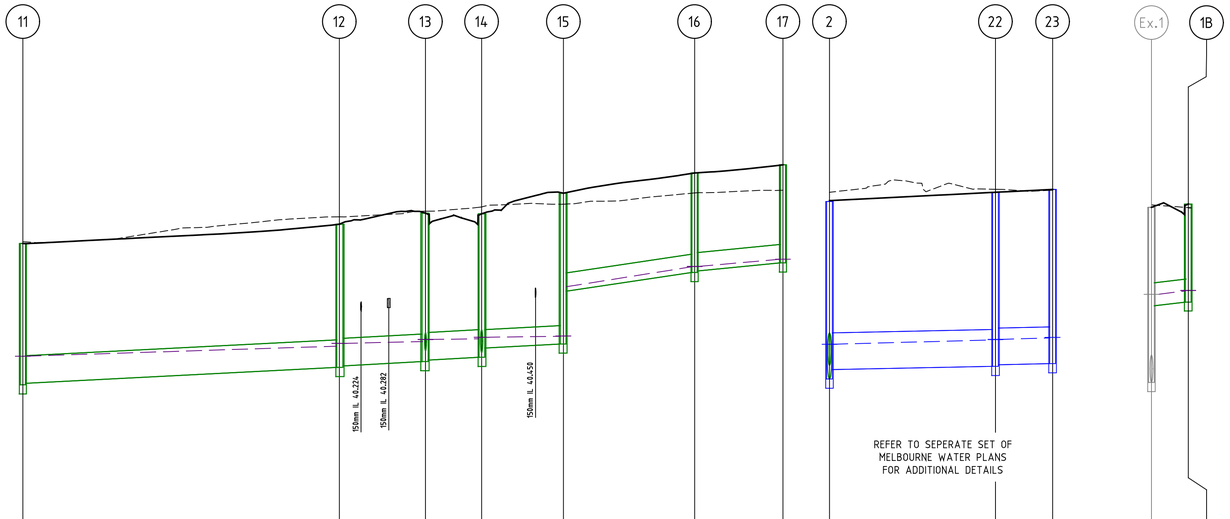
PROJECT: **GERANIUM ESTATE - STAGE 1 ROAD & DRAINAGE**

DETAILS: **SOLANDERI WAY LONGITUDINAL & CROSS SECTIONS**

SCALE H: 1:100 V: 1:50
LEVEL DATUM AHD
SHEET 11 **OF** 14
DRAWING No. 3257/01/R11
REV. AC1


Ex.1
1A
2
3
4
5
6
7
8
9
3
10
11
14
18
13
20
REFER TO SEPERATE SET OF MELBOURNE WATER PLANS FOR ADDITIONAL DETAILS
150mm IL 39.287
150mm IL 39.476
150mm IL 39.930

| | | |



PIPE DIAMETER-mm	450						450		450		300		300		300		600		600			300	
BACKFILL TYPE	CL3 C.R.B						CL3 C.R.B		CL2 C.R.B		CL3 C.R.B		CL3 C.R.B		CL3 C.R.B		CL3 C.R.B		CL3 C.R.B			CL2 C.R.B	
PIPE GRADE	200.0						200.0		200.0		200.0		69.9		108.4		500.0		500.0			100	
PIPE CLASS	CLASS 2						CLASS 2		CLASS 3		CLASS 2		CLASS 2		CLASS 2		CLASS 2		CLASS 2			CLASS 3	
CAPACITY VELOCITY (=Qcap/Af) -m/s	1.27						1.27		1.27		0.97		1.64		1.31		0.97		0.97			1.30	
VELOCITY (=Q/An)-m/s	1.44						1.41		1.36		0.90		1.15		0.75		1.10		1.10			0.73	
PIPE FLOW-m3/s	0.189						0.162		0.137		0.026		0.016		0.006		0.252		0.253			0.008	
PIPE CAPACITY-m3/s	0.202						0.202		0.202		0.068		0.116		0.093		0.275		0.275			0.093	
DATUM	34.0																33.0					33.0	
DEPTH TO INVERT	2.282	2.282				2.337	2.312	2.423	2.398	2.340	2.190	2.460	1.600		1.625	1.600	1.600	2.896	2.744	2.841	2.816	2.843	2.857	1.606	1.600
HYDRAULIC GRADE LINE	39.474	39.490				39.653	39.698	39.728	39.761	39.775	39.798	39.815	39.819		40.949	40.954	41.071	38.637	38.685	38.754	38.762	38.788	39.775	39.798	39.899
INVERT LEVEL	39.048	39.048				39.306	39.331	39.401	39.426	39.472	39.622	39.689	40.549		40.855	40.880	41.013	38.117	38.270	38.324	38.349	38.368	38.079	39.330	39.390
FINISHED SURFACE LEVEL	41.329					41.643		41.824		41.812		42.149			42.480		42.613	41.014		41.165		41.211	40.936		40.990
EXISTING SURFACE LEVEL	41.359					41.764		41.856		41.926		41.970			42.154		42.199	41.163		41.214		41.210	40.980		40.947
CHAINAGE	87.92					139.60		153.66		162.81		176.17			197.59		212.01	0.00		27.10		36.42	0.00		6.00
			51.678				14.061		9.154		13.355		21.424			14.415			27.101			9.324		6.00	

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	
Ex.1	Ex.JP	900	1050	750	38.079	750	38.054	40.936	2.857	REFER TO MELBOURNE WATER SET OF DRAWINGS
1A	JP	900	1650	750	38.089	750	38.089	40.962	2.873	REFER TO MELBOURNE WATER SET OF DRAWINGS
1B	GSEP	900	600			300	39.390	40.990	1.600	EDCM 603
2	GSEP	1050	1650	525	38.342	750	38.117	41.014	2.896	REFER TO MELBOURNE WATER SET OF DRAWINGS
				600	38.270					
3	GSEP	1200	600	375	38.633	525	38.483	41.233	2.750	EDCM 603. HAUNCH SHAFT TO 600 X 900.
				450	38.558					
4	DGSEP	600	900	300	39.732	375	39.232	41.332	2.100	EDCM 604
5	GSEP	600	900	300	40.115	300	40.090	41.715	1.625	EDCM 603
6	JP	600	900	300	40.414	300	40.389	42.014	1.625	EDCM 607.
7	JP	600	900	300	40.619	300	40.594	42.219	1.625	EDCM 607.
8	GSEP	600	900	300	40.830	300	40.805	42.430	1.625	EDCM 603
9	JP	600	900			300	41.001	42.601	1.600	
10	GSEP	900	600	450	38.617	450	38.617	41.229	2.612	EDCM 603
11	DGSEP	600	900	450	39.048	450	39.048	41.329	2.307	EDCM 604
12	GSEP	600	900	450	39.331	450	39.306	41.643	2.337	EDCM 603
13	JP	900	600	450	39.426	450	39.401	41.824	2.423	EDCM 607.
				300	39.576					
14	GSEP	900	600	300	39.622	450	39.472	41.812	2.340	EDCM 603
				375	39.547					
15	GSEP	600	900	300	40.549	300	39.689	42.149	2.460	EDCM 603
16	GSEP	600	900	300	40.880	300	40.855	42.480	1.625	EDCM 603
17	JP	600	900			300	41.013	42.613	1.600	EDCM 607.
18	JP	600	900	300	39.738	375	39.663	41.863	2.200	EDCM 607.
20	GSEP	600	900	300	39.686	300	39.661	41.861	2.200	EDCM 603
22	GSEP	900	1500	600	38.349	600	38.324	41.165	2.841	REFER TO MELBOURNE WATER SET OF DRAWINGS
23	GP	900	900	600	38.368			41.211	2.843	REFER TO MELBOURNE WATER SET OF DRAWINGS

H 1 : 500 @ A1 — 0 5 10 20 30 40
V 1 : 50 — 0 0.5 1 2 3 4

AS CONSTRUCTED

REV.	REVISION	DATE	REG ENG
AC1	AS CONSTRUCTED	07/04/2026	M.C.

LEGEND

G	GAS MAIN	HOUSE DRAIN PROPOSED/EX.	CHAINAGES AND TANGENT POINTS
W	WATER MAIN	PROPERTY INLET, DRAINAGE PITS	20.06 EXISTING SURFACE LEVEL
R	RECYCLED WATER MAIN	EX./FUT. INLET, DRAINAGE PITS	F521.35 FINISHED LEVEL (TITLE BOUNDARY)
E	ELECTRICITY CABLE	DRAINAGE PIT STAGE/NUMBER	T21.35 DESIGN TOP/TOE OF BATTER LEVEL
T	TELECOMMUNICATIONS CABLE	SEWER LINE AND STRUCTURES	F21.350 DESIGN PAVEMENT LEVEL
	WATER CONDUIT	EX.SEWER LINE AND STRUCTURES	19.20 PROPOSED CONTOUR LINE & LEVEL
	GAS CONDUIT	KERB AND CHANNEL	19.20 EXISTING CONTOUR LINE & LEVEL
	RECYCLED WATER CONDUIT	EX./FUT. KERB AND CHANNEL	FILLING IN EXCESS OF 200mm
	COMBINED SERVICES CONDUIT	KERB TO BE REMOVED OFFSITE	CATCH DRAIN AND INVERT LEVEL
	T.B.M. ▲ P.S.M.	STREET SIGN	EX. BATTER PROP. BATTER

22 Business Park Drive
Notting Hill VIC 3168
A.C.N. 006 550 803
E: consulting@dpmvic.com.au
W: www.dpmvic.com.au
T: (03) 9538 5000

dpm Consulting Group

DRAWN:	J.DEMERTZIDIS
DESIGNED:	J.DEMERTZIDIS
CHECKED:	S.MAKARAS
AUTHORISED:	M.COLE
PE REG NO:	PE1124072
DATE:	06/02/2025

AUTHORITY: **CARDINIA SHIRE COUNCIL**

PROJECT: **GERANIUM ESTATE - STAGE 1 ROAD & DRAINAGE**

DETAILS: **DRAINAGE LONGITUDINAL SECTIONS & PIT SCHEDULE - SHEET 2 OF 2**

SCALE 1:500
LEVEL DATUM AHD
SHEET 13 **OF** 14
DRAWING No. **3257/01/R13**
REV. AC1

SIGN SCHEDULE

SIGN	DESCRIPTION	QUANTITY
S1 G9–20	ROAD CLOSED	1 No.
S2	STREET NAME SIGN DOUBLE	2 No.
S3 W5–10B W8–2B	20 km/h	2 No.

H 1 : 1000 @ A1 0 10 20 40 60 80

AS CONSTRUCTED

TACTILE GROUND SURFACE INDICATORS (TGSI) BOTH DIRECTIONAL AND WARNING TO BE INSTALLED AT PRAM CROSSING LOCATIONS IN ACCORDANCE WITH AS1428.4

DISCLAIMER:
THESE DRAWINGS ARE TO BE USED ONLY FOR THE PURPOSE FOR WHICH THEY WERE INTENDED FOR. NO RESPONSIBILITY WILL BE BORNE BY THE ENGINEERING CONSULTANT SHOULD THESE DRAWINGS BE USED FOR ANY OTHER PURPOSE.

NOTES
1. RRPM'S ARE TO BE WHITE AND AT MAX 6m SPACING.
2. LINEMARKING TO BE EXTENDED AT LEAST 6m FROM THE TANGENT POINT
3. LINEMARKING IN ACCORDANCE WITH AS1742.
4. TGSI TO BE INSTALLED IN ACCORDANCE WITH VICROADS RDN 06-06 - JULY 2010
5. ALL STREET NAME SIGNS AT INTERSECTIONS TO INCLUDE RELEVENT STREET NUMBERING.
6. ALL LINE MARKING PAINT SHALL BE LONG LIFE TYPE. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.

REV.	REVISION	DATE	REG ENG
AC1	AS CONSTRUCTED	07/04/2026	M.C.

LEGEND

GAS MAIN	HOUSE DRAIN PROPOSED/EX.	20.00 20.10	CHAINAGES AND TANGENT POINTS
WATER MAIN	PROPERTY INLET, DRAINAGE PITS	20.06	EXISTING SURFACE LEVEL
RECYCLED WATER MAIN	EX./FUT. INLET, DRAINAGE PITS	F521.35	FINISHED LEVEL (TITLE BOUNDARY)
ELECTRICITY CABLE	DRAINAGE PIT STAGE/NUMBER	T21.35	DESIGN TOP/TOE OF BATTER LEVEL
TELECOMMUNICATIONS CABLE	SEWER LINE AND STRUCTURES	P21.350	DESIGN PAVEMENT LEVEL
WATER CONDUIT	EX.SEWER LINE AND STRUCTURES	19.28	PROPOSED CONTOUR LINE & LEVEL
GAS CONDUIT	KERB AND CHANNEL	19.30	EXISTING CONTOUR LINE & LEVEL
RECYCLED WATER CONDUIT	EX./FUT. KERB AND CHANNEL		FILLING IN EXCESS OF 200mm
COMBINED SERVICES CONDUIT	KERB TO BE REMOVED OFFSITE	CD2.0	CATCH DRAIN AND INVERT LEVEL
T.B.M. ▲ P.S.M.	STREET SIGN	Y Y	EX. BATTER Y Y PROP. BATTER

22 Business Park Drive
Notting Hill VIC 3168
A.C.N. 006 550 803
E: consulting@dpmvic.com.au
W: www.dpmvic.com.au
T: (03) 9538 5000

Consulting Group

DRAWN:	J.DEMERTZIDIS
DESIGNED:	J.DEMERTZIDIS
CHECKED:	S.MAKARAS
AUTHORISED:	M.COLE
PE REG NO:	PE1124072
DATE:	06/02/2025

AUTHORITY: CARDINIA SHIRE COUNCIL

PROJECT: GERANIUM ESTATE - STAGE 1 ROAD & DRAINAGE

DETAILS: SIGNAGE AND LINEMARKING

SCALE 1:500
LEVEL DATUM AHD
SHEET 14 OF 14
DRAWING No. 3257/01/R14
REV. AC1