

Olivine Estate Stage 1C

Drawing Index

1700E-01C-01 Cover Plan

1700E-01C-02 Layout Plan & Typical Cross Sections

1700E-01C-03 Longsections, Intersection Details & Lip Profiles

1700E-01C-04 Cross Sections - Grovedon Circuit Ch 242.54 - Ch 280.54

1700E-01C-05 Cross Sections - Grovedon Circuit Ch 294.74 - Ch 346.54

1700E-01C-06 Cross Sections - Woodlet Way

1700E-01C-07 Drainage Longsections & Pit Śchedule 1700E-01C-08 Signs & Linemarking Plan

1700E-01C-09 General Notes & Pavement Details

1700E-01C-10 Earthworks Plan

1700E-01C-85 Safety in Design

ROAD LAYOUT TABLE										
DOAD NAME	RESERVE	ROAD WIDTH (m)			KERB	TYPE	VERGE WIDTH (m)			
ROAD NAME	WIDTH (m)	LIP to LIP	INV to INV	BACK to BACK	NTH/WEST	STH/EAST	NTH/WEST	STH/EAST		
GROVEDON CIRCUIT	13.50	4.60	5.50	5.80	B2	B2	4.75	3.25		
WOODLET WAY	16.00	6.40	7.30	7.60	B2	B2	4.35	4.35		

SERVICES OFFSET SCHEDULE										
ROAD NAME	G	AS	NON DRINKING WATER		DRINKING WATER		ELECTRICITY		NBN	
NO/ID IV/IIIE	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
GROVEDON CIRCUIT	NORTH	2.10	NORTH	2.60	NORTH	3.10	SOUTH	1.50	SOUTH	0.70
WOODLET WAY	EAST	2.10	EAST	2.50	EAST	3.00	WEST	2.60	WEST	1.85

*STREET TREES TO BE INSTALLED IN THE CENTRE OF NATURE STRIPS

AS CONSTRUCTED PLANS

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AS CONSTRUCTED

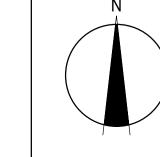
All setting out should be carried out in accordance with MPA/Council's	TITLE
standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information	DRAFT
only. Any discrepancies should be discussed with the superintendent.	DESIG



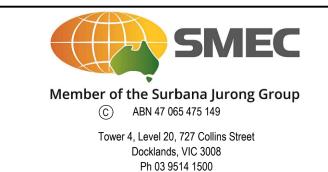


-		
n	DRAFTER	R.Barua
t.	DESIGNER	S.MacLaren
*	CHECKED	K.Moore
, 1501400 ₇	AUTHORISED	A.Burrows
4007	REFERENCE No. 1	
au®	REFERENCE No. 2	

NAME



SCALE AS SHOWN AT A1





Olivine Estate - Stage 1C Whittlesea City Council Road and Drainage Cover Plan

PROJECT / DRAWING No. 1700E-01C-01

01 of 11

GENERAL NOTES (WHITTLESEA CITY COUNCIL) I. THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE VPA MANUAL AND SPECIFICATIONS. WORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERVISING OFFICER. 2. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION.

AND THE MINES (TRENCHES) REGULATIONS 1982.

THEY SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.

THE CONTRACTOR SHALL: COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES,

NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER. ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN

TRENCHING OPERATIONS ARE IN PROGRESS. 4. THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

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

6. REDGUM TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED IN ACCORDANCE WITH COUNCIL'S PLANNING PERMIT. NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY EXISTING TREE WITHOUT

WRITTEN APPROVAL FROM COUNCIL'S SUPERVISING OFFICER. 7. ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHEADS, WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS, WRITTEN DIMENSIONS ONLY SHALL BE USED.

8. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM. 9. WHEN ENGAGED IN BLASTING OPERATIONS THE CONTRACTOR SHALL NOT BLAST WITHIN 4.5m OF AN EXISTING LINE OF WATER, GAS OR SEWER PIPES OR WITHIN 15m OF ANY COMPLETED PART OF THE WORKS WITHOUT THE CONSENT OF THE SUPERINTENDENT. BLASTING REQUIRES A BLASTING PERMIT FROM COUNCIL.

10. ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVES TO BE STRIPPED OF TOPSOIL AND STOCKPILED PRIOR TO EARTHWORKS COMMENCING. THESE AREAS SHALL BE SURFACED WITH A 100mm MINIMUM TO 200mm MAXIMUM LAYER OF TOPSOIL AS SPECIFIED. 11. NO TOPSOIL TO BE REMOVED FROM SITE.

12. NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE UNLESS DIRECTED BY THE

13. FILLING ON ALLOTMENTS AND UNDER ROAD PAVEMENTS TO HAVE LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-1996. INDIVIDUAL LOT CERTIFICATES ARE TO BE PROVIDED TO THE SUPERINTENDENT.

14. FILLING UNDER DRIVEWAYS AND FOOTPATH IS TO BE APPROVED BY THE SUPERINTENDENT AND CONSTRUCTED IN

LAYERS 150mm DEPTH. COMPACTION ACHIEVING 98% AUSTRALIAN STANDARD DENSITY. 15. CUT AND FILL BATTERS ARE NOT TO EXCEED 1 in 6 UNLESS SHOWN OTHERWISE.

16. ALLOTMENTS TO BE GRADED TO ENSURE A MINIMUM GRADE OF 1 in 150.

17. ALL DRAINAGE PIPES UP TO AND INCLUDING 750mm IN DIAMETER SHALL BE RUBBER RING JOINTED. PIPES ABOVE THIS SIZE MUST BE FLUSH JOINTED WITH EXTERNAL SEALING BANDS.

18. ALL DRAINAGE TRENCHES UNDER ROAD PAVEMENTS, KERB & CHANNEL, PARKING BAYS, DRIVEWAYS, FOOTPATHS AND BEHIND KERBS & CHANNEL SHALL BE BACKFILLED WITH CRUSHED ROCK AS SPECIFIED.

19. ALL PITS GREATER THAN OR EQUAL TO 900mm DEPTH TO BE PROVIDED WITH STEP IRONS IN ACCORDANCE WITH SD1041 AND COUNCIL STANDARD DRAWING EDCM 609

20. PROPERTY INLETS AS PER WHITTLESEA CITY COUNCIL STANDARD DRAWING EDCM 701-704 AND ARE TO BE LOCATED 1.0m FROM LOW SIDE BOUNDARY UNLESS SHOWN OTHERWISE. 21. ALL HOUSE DRAIN CONNECTIONS ARE TO BE LOCATED NO CLOSER THAN 7.0m FROM THE SIDE BOUNDARY OR FROM

EASEMENT ALONG THE SIDE BOUNDARY UNLESS NOTED OTHERWISE AND CONNECTED DIRECTLY TO UNDERGROUND DRAIN OR PIT. HOUSE DRAIN LOCATION TO BE MARKED (50mm STAMPED IMPRESSION) ON THE TOP OF THE KERB.

22. SUBSOIL DRAINS SHALL BE INSTALLED BEHIND OR BELOW ALL KERB AND CHANNEL AS PER STANDARD DRAWING EDCM 23. CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS

GIVEN BY THE SUPERINTENDENT. CONDUITS TO BE EXTENDED TO PROPERTY LINE AND ARE REQUIRED WHEN CONNECTIONS EXTEND UNDER ROAD PAVEMENT, FOOTPATH OR OTHER INFRASTRUCTURE. BOTH KERBS ARE TO BE MARKED WITH THE LETTERS H (PROPERTY STORMWATER CONNECTION), E (ELECTRICAL), G (GAS), T (TELEPHONE), W (WATER) AND C (COUNCIL COMMUNICATION) AS PER STANDARD DRAWING EDCM 303.

24. ALL SERVICING TRENCHES UNDER ROADS, DRIVEWAYS, FOOTPATHS ETC. ARE TO BE BACKFILLED & COMPACTED WITH F.C.R. IN THE CASE OF TRENCHES UNDER ROADS WHERE BACKFILLING HAS NOT ACHIEVED THE SPECIFIED COMPACTION OR SHOWS EXCESSIVE MOVEMENT UNDER PROFFROLLING, THE BACKFILLING SHALL BE REMOVED AND REPLACED WITH 2% STABILISED COMPACTED F.C.R. ALL SERVICES ARE TO BE PLACED PRIOR TO THE CAPPING LAYER. 25. NO TELSTRA PITS ARE TO BE LOCATED IN THE FOOTPATH.

26. VEHICULAR CROSSINGS TO BE LOCATED CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TREES, VEHICLE CROSSINGS TO BE 1.5m FROM PROPERTY BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN. VEHICULAR CROSSINGS TO BE CONSTRUCTED AS PER WHITTLESEA CITY COUNCIL'S SPECIFICATIONS AND EDCM 501

28. ALL STREET SIGNS TO BE IN ACCORDANCE WITH SD812. STREET SIGNS TO BE ATTACHED TO LIGHT POLES USING 'SINGLE DIRECTION COLLAR' OR '90° RIGHT ANGLE COLLAR' UNLESS SHOWN OTHERWISE.

29. ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHOULD BE TO AS1742.2 AND AS1742.1 STANDARD RESPECTIVELY. TEMPORARY LINEMARKING TO BE PLACED DURING MAINTENANCE PERIOD PRIOR TO PLACEMENT OF WEARING COURSE. FINAL LINEMARKING TO BE LONG LIFE ROAD MARKING WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.

30. THE CAPPING LAYER MUST BE DEMONSTRATED THROUGH TESTING THAT ITS PROPERTIES (CBR, PERMEABILITY, ETC.) SATISFY LIMITS AS OUTLINED IN THE TECHNICAL SPECIFICATION TABLE 20.3.5B WITH A MINIMUM MODULAS OF 100MPa.

31. UPON COMPLETION OF CONSTRUCTION THE WHOLE SITE SHALL BE CLEANED UP, GRADED, ALL RUBBISH REMOVED

AND LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT. 32. ALL FOOTPATHS & SHARED PATHS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH EDCM 401.

WARNING

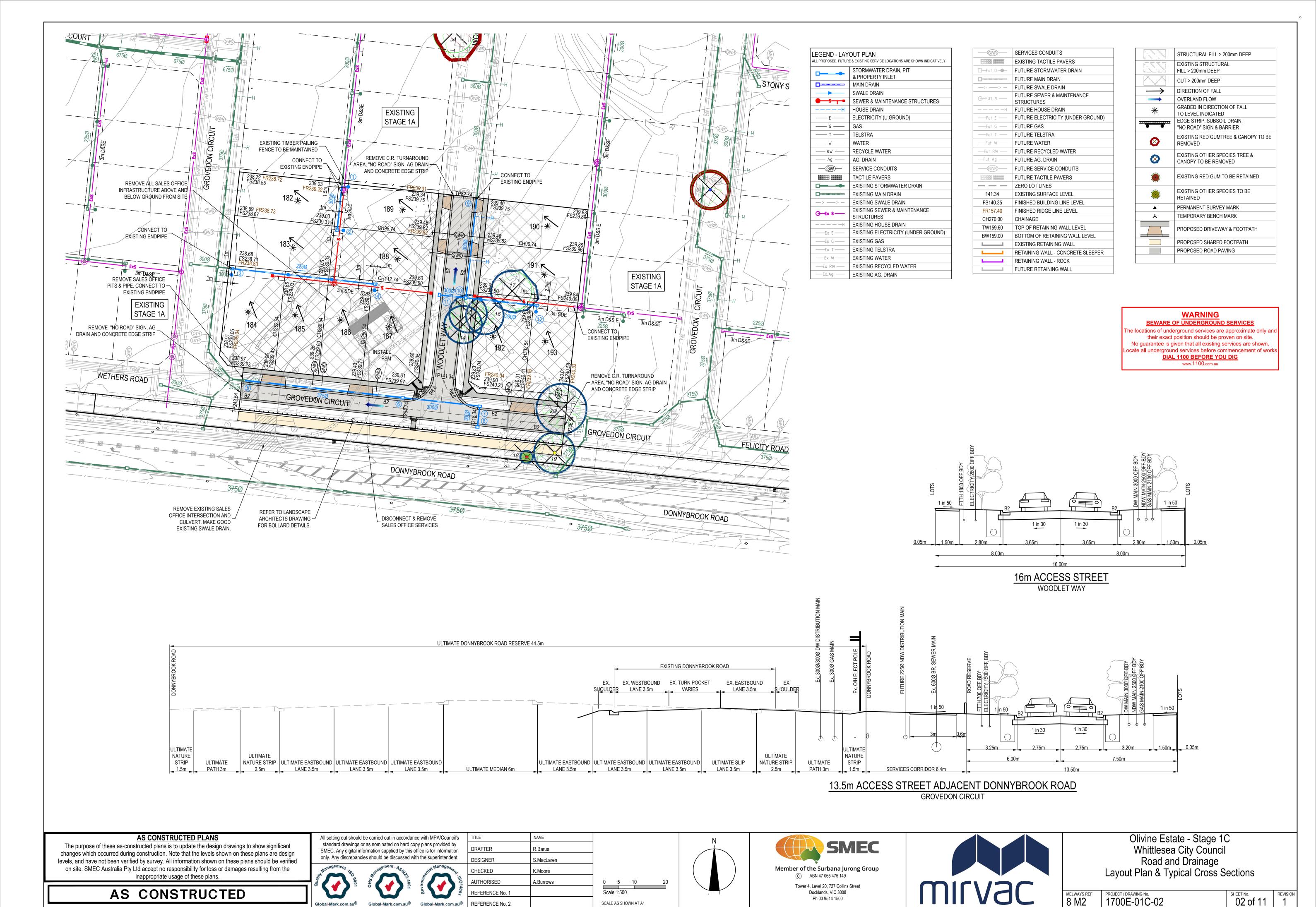
SAFETY MEASURES REQUIRED Please note there are risks attached to the construction of

this project, and any ongoing maintenance of structures. Consider the safety of all. For potential risks, consequences and controls refer to Safety In Design Risk Register SID P4.E6. 1700E-05A-01 ASSESS THE RISK - STAY SAFE

BEWARE OF UNDERGROUND SERVICES The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. ocate all underground services before commencement of works

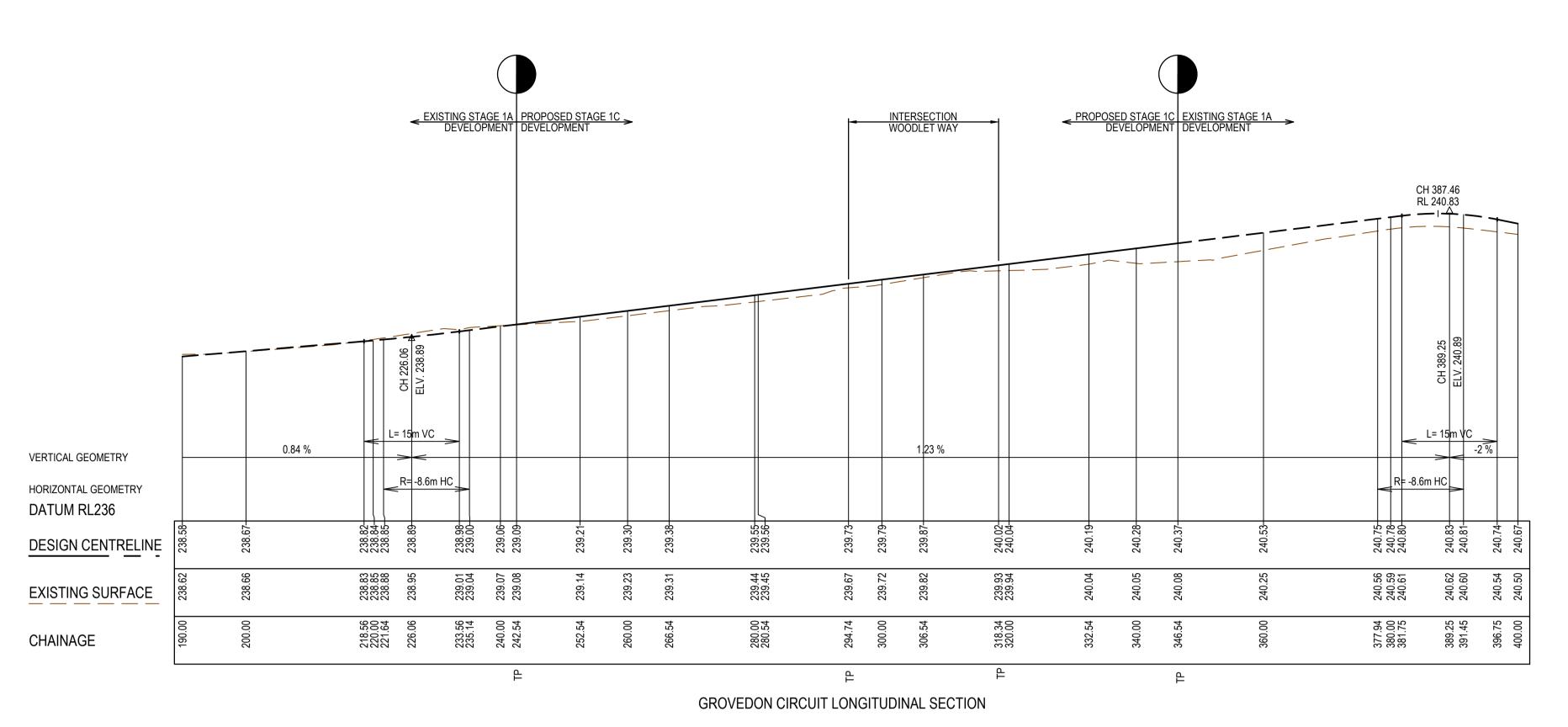
WARNING

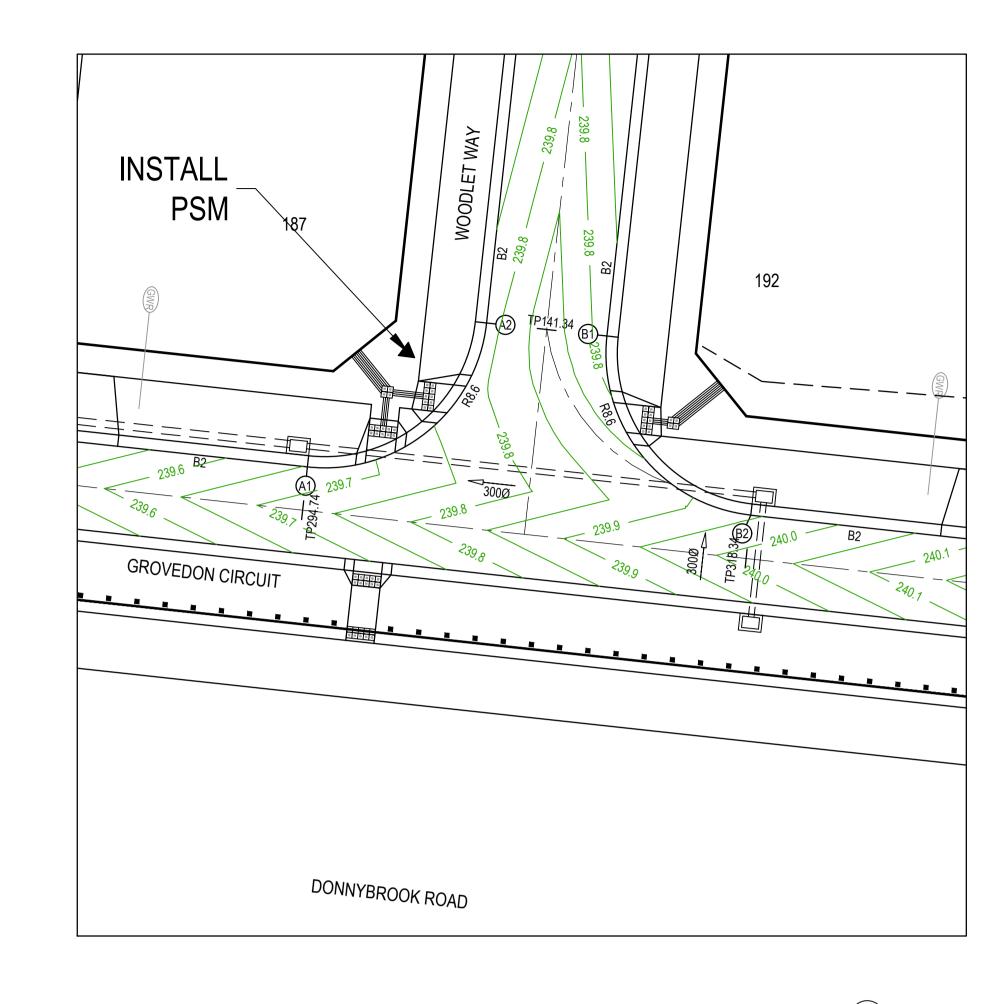
DIAL 1100 BEFORE YOU DIG www.1100.com.au

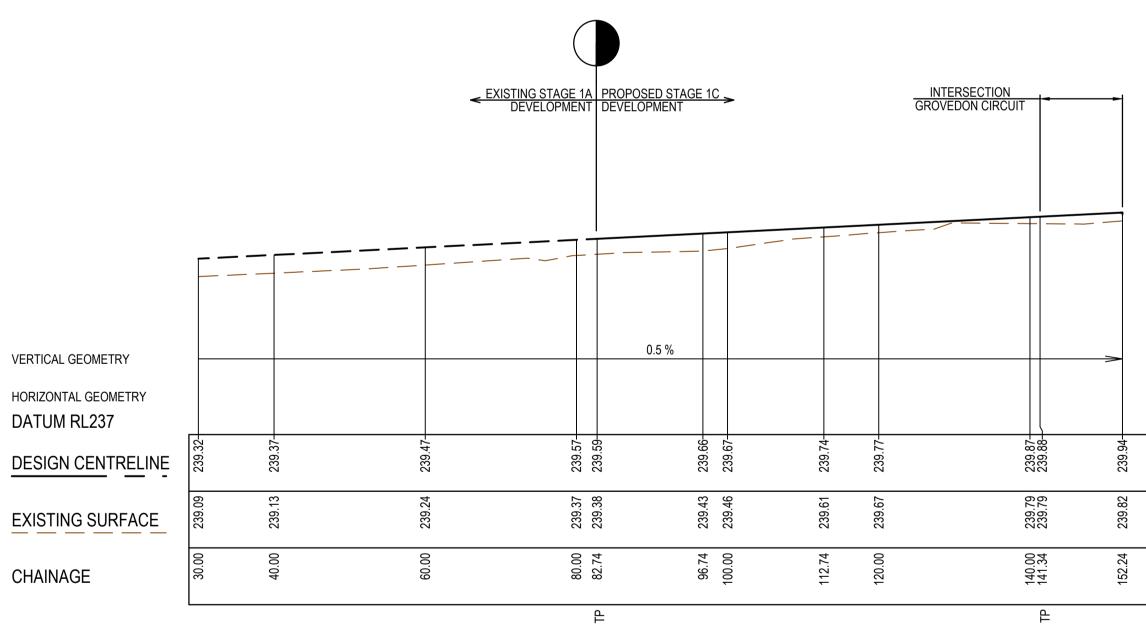


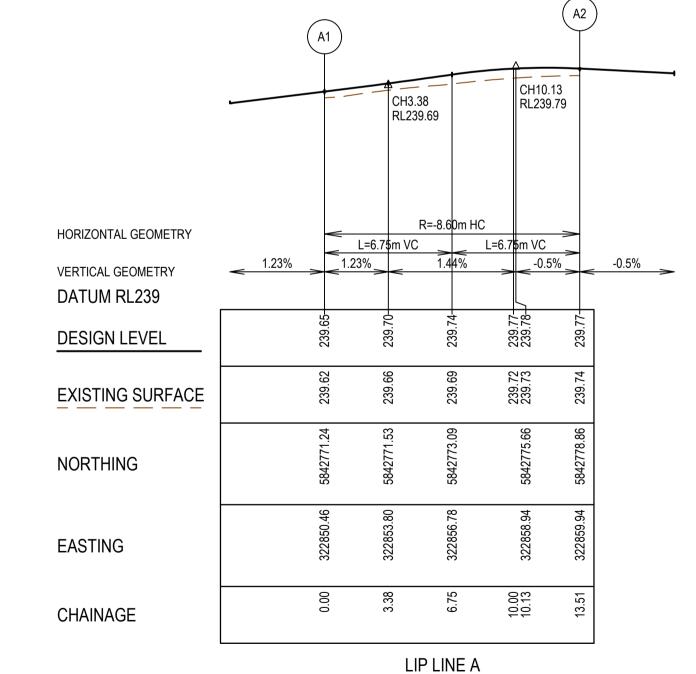
SCALE AS SHOWN AT A1

DWG PATH: V:_Vault\Projects_Urban\1700E-Olivine\1700E-01C\Dwgs\1700E-01C-02.dwg PRINTED BY: LC20143 on 03/03/2021 at 02:38:51 PM









RL239.9 RL239.79 R=-8.60m HC HORIZONTAL GEOMETRY L=6.7\$m VC L=6.7\$m VC 0.5% 1.23% VERTICAL GEOMETRY 239.90-239.90-DESIGN LEVEL **EXISTING SURFACE** LIP LINE B

WOODLET WAY DESIGN LINE

2 152.236

IP CHAINAGE X COORD Y COORD Z COORD TYPE BEARING LENGTH RADIUS 322869.469 5842836.767 239.589 IP 186°12'55.55" 1 82.736

322861.944 5842767.675 239.939 IP 186°12'55.55"

GROVEDON CIRCUIT DESIGN LINE

IP CHAINAGE X COORD Y COORD Z COORD TYPE BEARING LENGTH RADIUS 322798.320 5842774.605 239.089 IP 96°12'55.54" 1 242.545

322901.709 5842763.345 240.365 IP 96°12'55.54"

AS CONSTRUCTED PLANS

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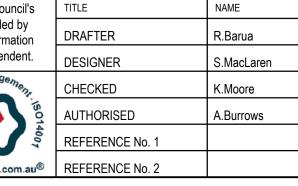
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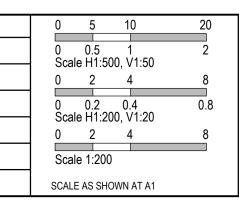
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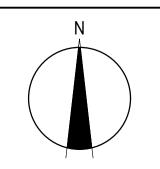


WOODLET WAY LONGITUDINAL SECTION

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	antal Management	CHE
180	Management, SO14007	AUTI
<u> </u>	4007	REF
®	Global-Mark.com.au [®]	REF











DATUM RL239

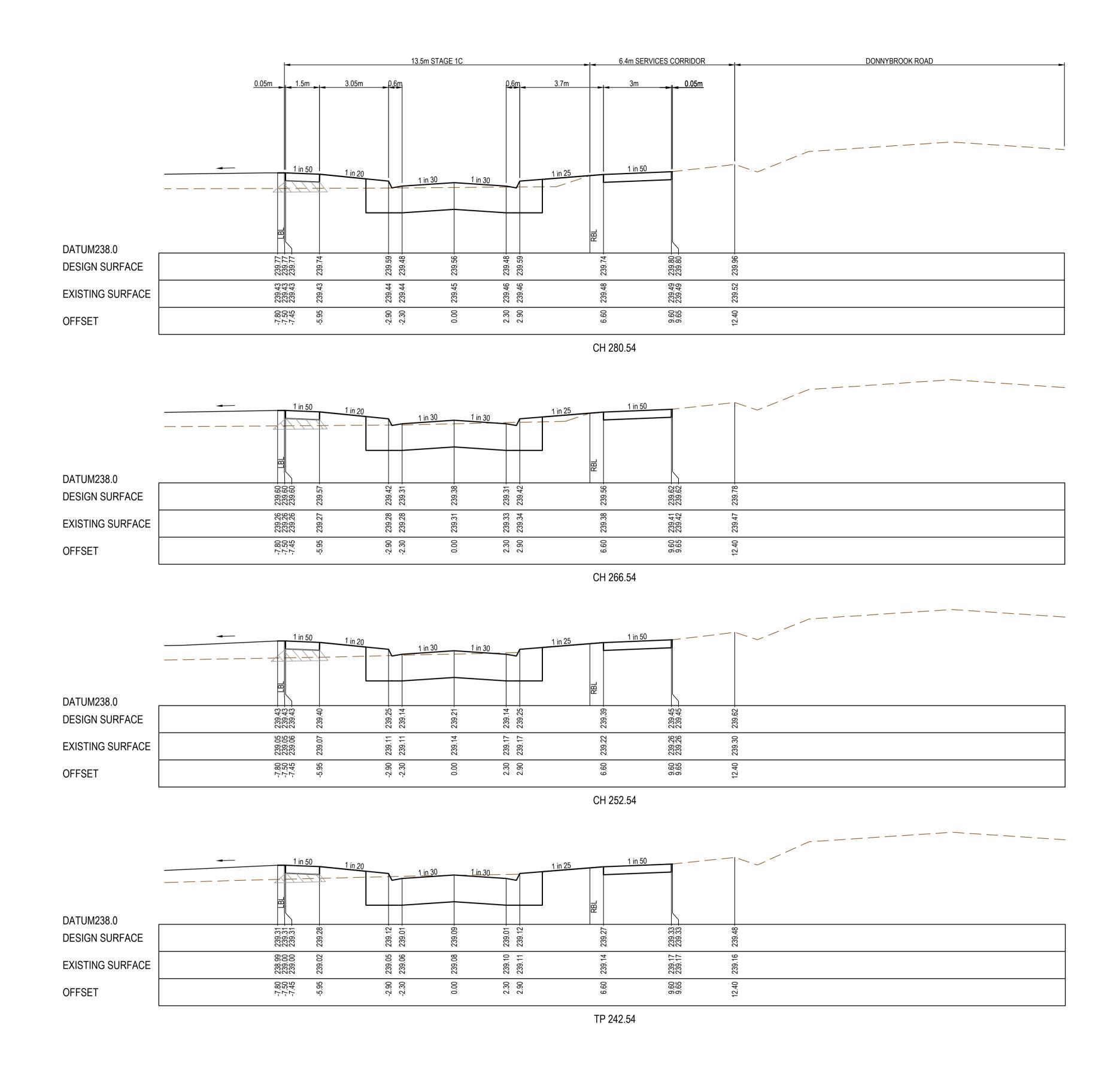
NORTHING

EASTING

CHAINAGE

Olivine Estate - Stage 1C
Whittlesea City Council
Road and Drainage
Longsections, Intersection Details
& Lip Profiles

MELWAYS REF PROJECT / DRAWING No. 1700E-01C-03 03 of 11



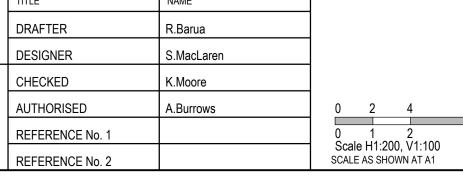
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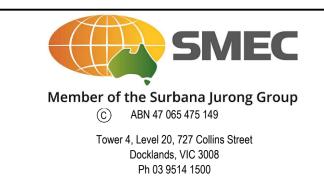
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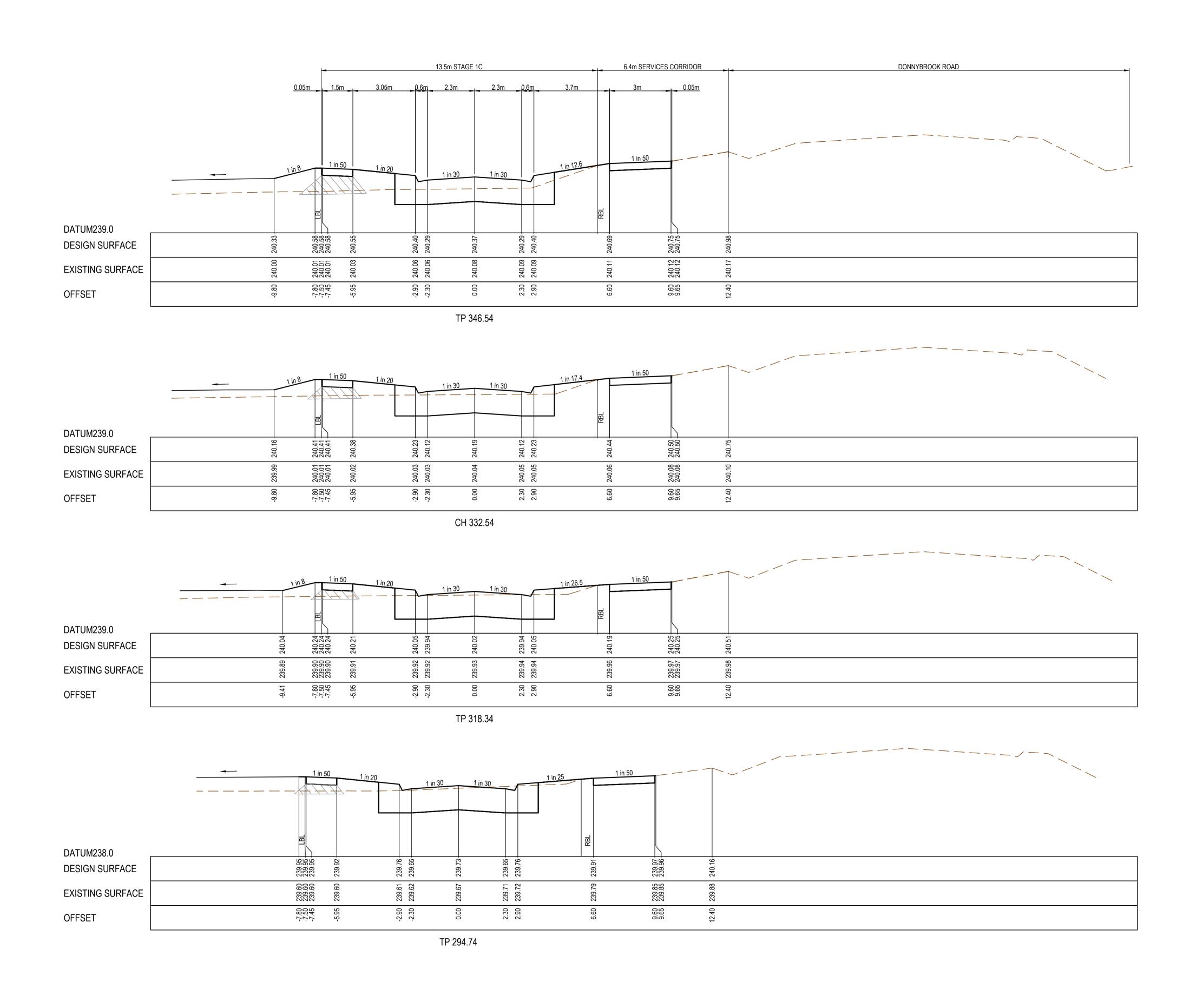




Olivine Estate - Stage 1C
Whittlesea City Council
Road and Drainage
Cross Sections - Grovedon Circuit
Ch 242.54 - Ch 280.54

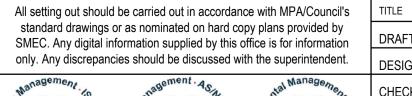
1700E-01C-04

SHEET No. REVISION 1

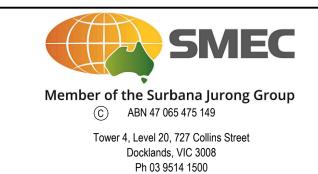


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AS CONSTRUCTED



s	TITLE	NAME	
1	DRAFTER	R.Barua	
i.	DESIGNER	S.MacLaren	
	CHECKED	K.Moore	
\\$01400 ₇	AUTHORISED	A.Burrows	0 2 4
4007	REFERENCE No. 1		0 1 2
u®	REFERENCE No. 2		Scale H1:200, V1:100 SCALE AS SHOWN AT A1

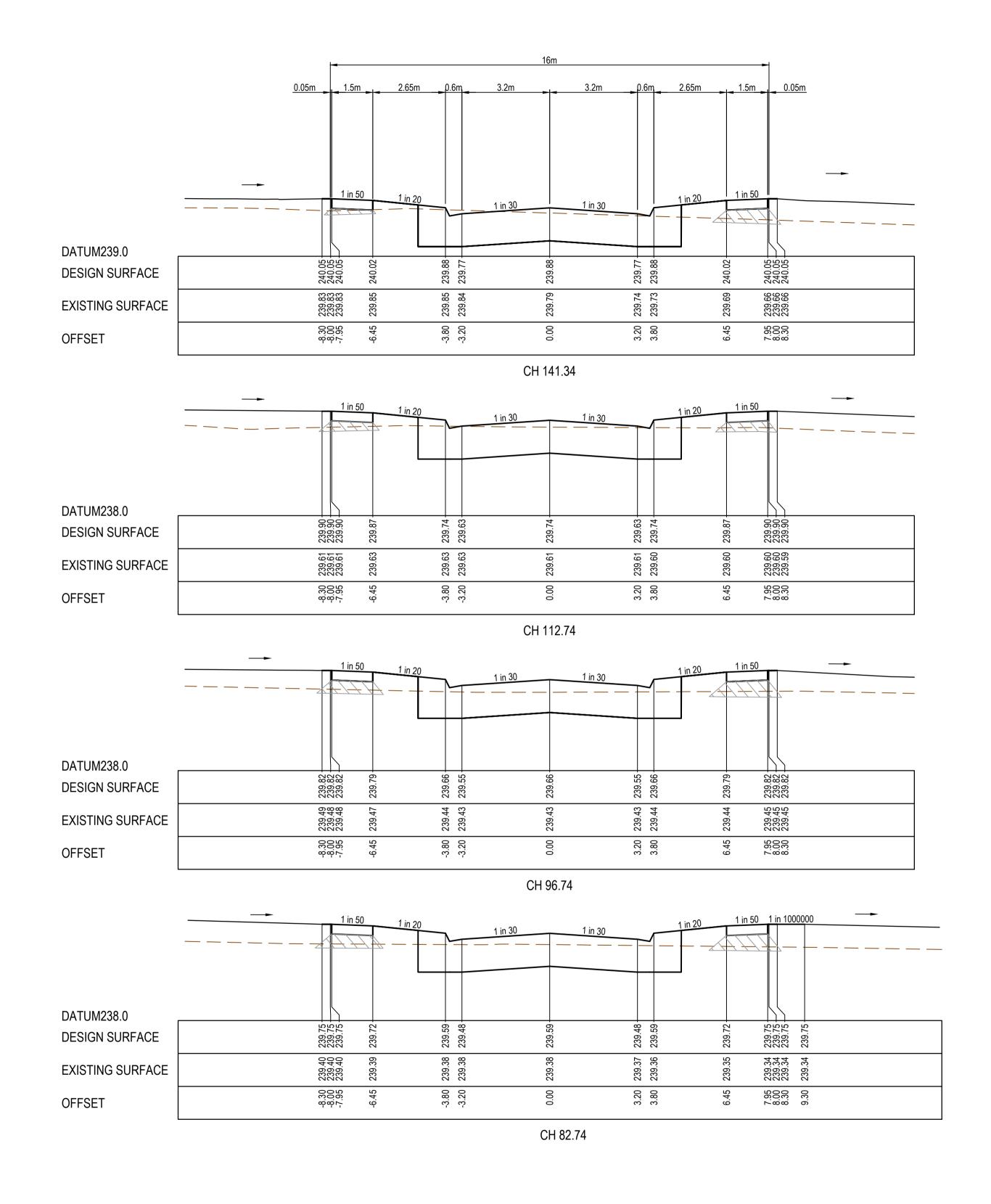




Olivine Estate - Stage 1C
Whittlesea City Council
Road and Drainage
Cross Sections - Grovedon Circuit Ch 294.74 - Ch 346.54

MELWAYS REF | PROJECT / DRAWING No. | 1700E-01C-05

SHEET No. REVISION 1



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DESIG





	DRAFTER	R.Barua				
	DESIGNER	S.MacLaren				
	CHECKED	K.Moore				
,c01400	AUTHORISED	A.Burrows	0	2	4	8
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®	REFERENCE No. 2				00, V1:100 DWN AT A1	
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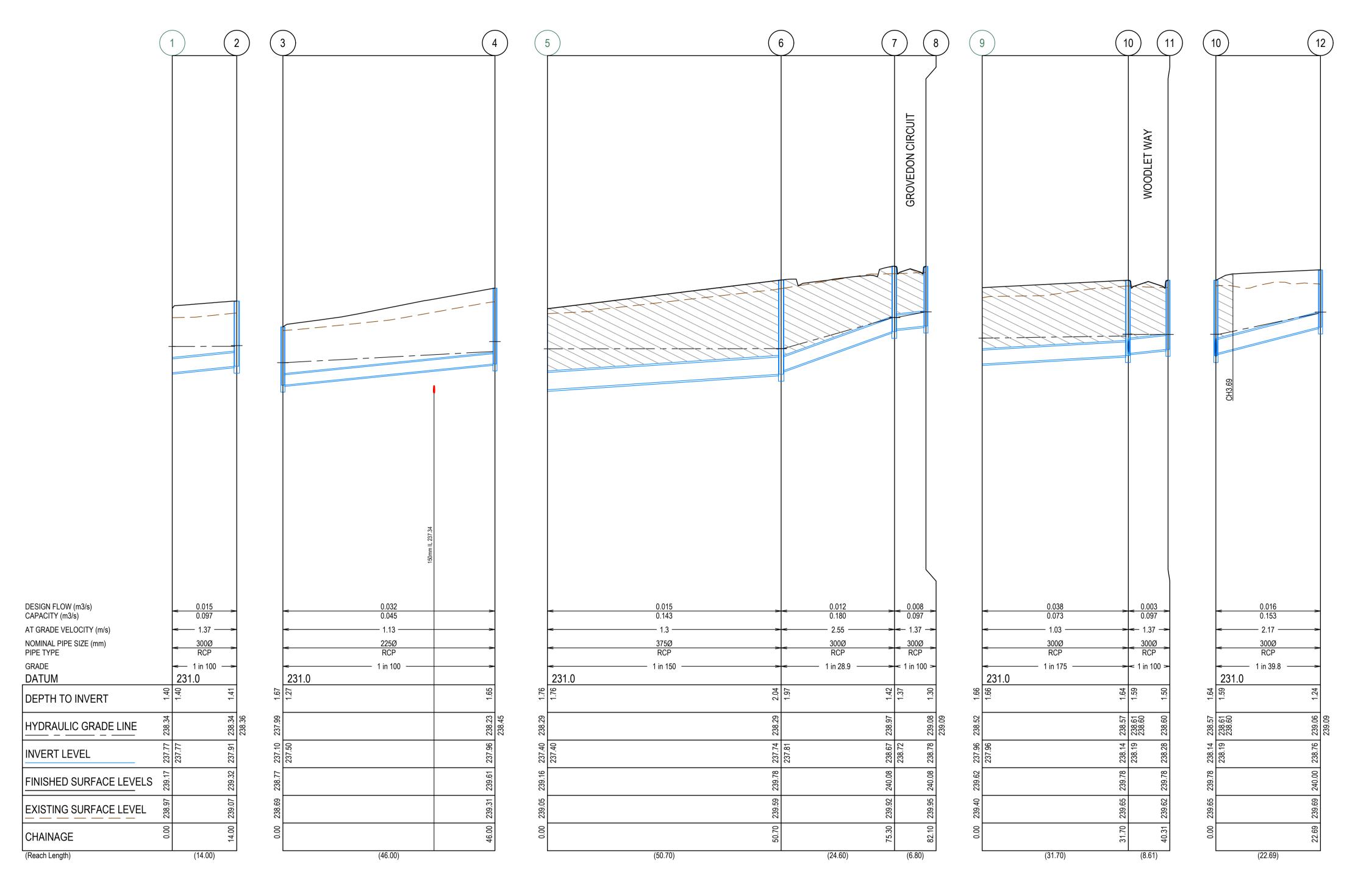




Olivine Estate - Stage 1C Whittlesea City Council Road and Drainage Cross Sections - Woodlet Way

Cross Sections - Woodlet Way

MELWAYS REF PROJECT / DRAWING No. SHEET No. REVISION 2 1700E-01C-06 06 of 11 2



						PIT SCHEDULE					
PIT NUMBER	TYPE	INTE	INTERNAL		INLET		OUTLET		DEPTH	STANDARD DRAWING	REMARKS
FII NUMBER	IIFE	WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INV R.L. (m)	DIAMETER (mm)	INV R.L. (m)	PIT SETOUT RL.	DEFIN	STANDARD DRAWING	REWARKS
1	Ex ENDPIPE			300	237.77			239.17	1.4		CONNECT TO EXISTING ENDPIPE
2	JUNCTION PIT	600	900			300	237.91	239.32	1.41	EDCM 605	
3	JUNCTION PIT	600	900	225	237.5	300	237.1	238.77	1.67	EDCM 605	CONNECT TO EXISTING ENDPIPE
4	JUNCTION PIT	600	900			225	237.96	239.61	1.65	EDCM 605	
5	Ex ENDPIPE			375	237.4			239.16	1.76		CONNECT TO EXISTING ENDPIPE & REMOVE PIT
6	GRATED ENTRY PIT	600	900	300	237.81	375	237.74	239.78	2.04	EDCM 601 & 605	
7	GRATED ENTRY PIT	600	900	300	238.72	300	238.67	240.08	1.42	EDCM 601 & 605	
8	GRATED ENTRY PIT	600	900			300	238.78	240.08	1.3	EDCM 601 & 605	
9	Ex ENDPIPE			300	237.96			239.62	0		CONNECT TO EXISTING ENDPIPE
10	GRATED ENTRY PIT	600	900	300	238.19	300	238.14	239.78	1.64	EDCM 601 & 605	
				300	238.19						
11	GRATED ENTRY PIT	600	900			300	238.28	239.78	1.5	EDCM 601 & 605	
12	JUNCTION PIT	600	900			300	238.76	240	1.24	EDCM 605	

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TITLE

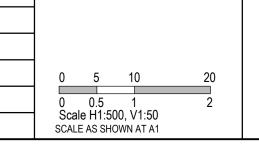
DRAFT

DESIGN



ice is for information	DRAFTER	R.Barua
the superintendent.	DESIGNER	S.MacLaren
antal Management	CHECKED	K.Moore
Management, 15014007	AUTHORISED	A.Burrows
4007	REFERENCE No. 1	
Global-Mark.com.au®	REFERENCE No. 2	

NAME







Olivine Estate - Stage 1C
Whittlesea City Council
Road and Drainage
Drainage Longsections
& Pit Schedule

ALL DRAINS TO BE BACKFILLED IN ACCORDANCE WITH CLAUSE 35.1.7 OF

WHERE DRAINS ARE UNDER ANY PAVED AREA OR BEHIND THE KERB AND

LOW PERMEABILITY CLASS 4 FCR FROM 100mm ABOVE THE TOP OF

2.1. 30mm NOM. SIZE CLASS 3 FCR TO 100mm ABOVE THE TOP OF PIPE.

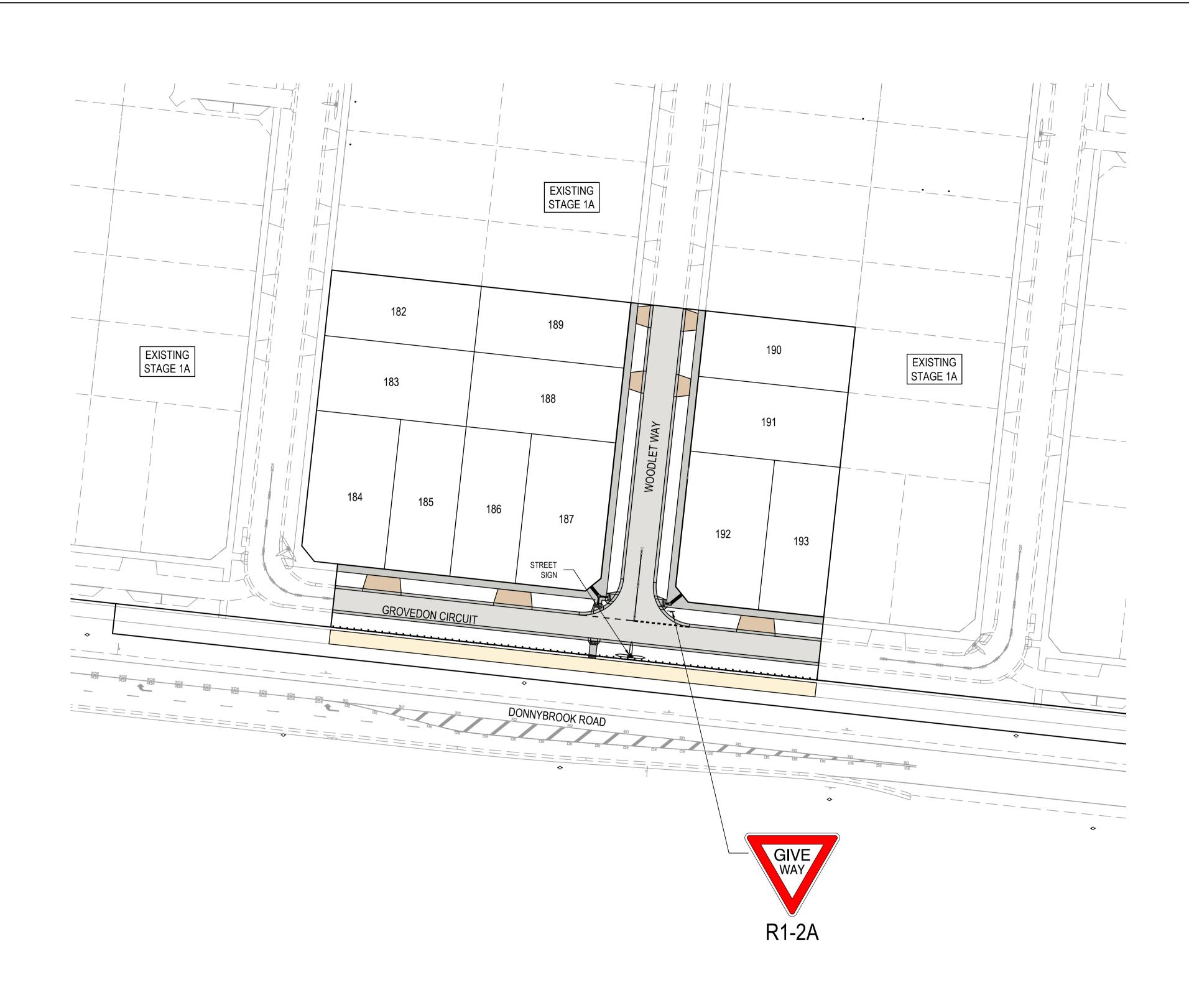
CHANNEL THE DRAINS IS TO BE BACKFILLED AS FOLLOWS

PIPE TO UNDERSIDE OF PAVEMENT

COUNCIL'S SPECIFICATION.

MELWAYS REF PROJECT / DRAWING No. 1700E-01C-07

SHEET No. REVISION 1



90° BENDS TO HAVE CENTRELINE MARKING WITH RRPM'S AT MAX 6m SPACING.

- 2. RRPMs TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL MANUAL VOL 2.
- 3. ALL LINEMARKING & SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.

AS CONSTRUCTED PLANS

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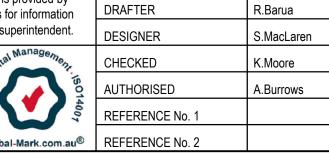
AS CONSTRUCTED

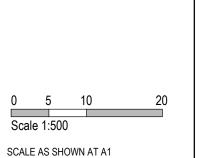
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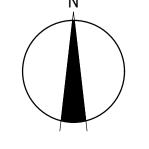
















Olivine Estate - Stage 1C Whittlesea City Council Road and Drainage Signs & Linemarking Plan

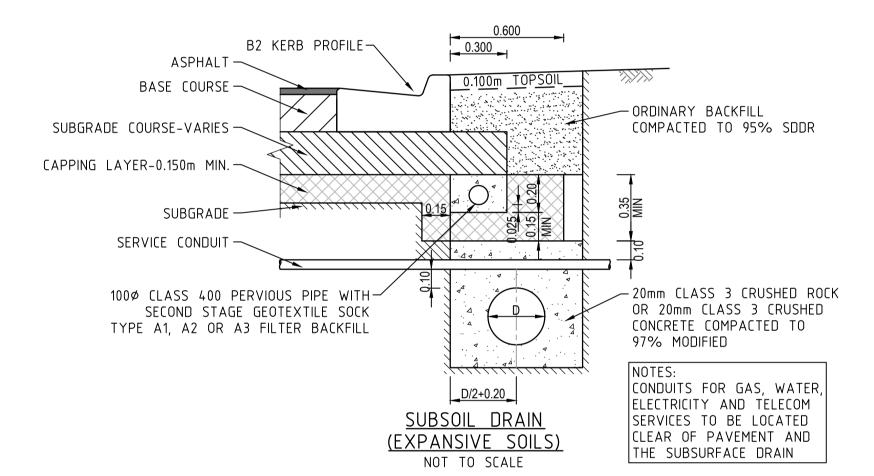
MELWAYS REF 8 M2

PROJECT / DRAWING No. 1700E-01C-08 SHEET No. REVISION 1

PAVEMENT COMPOSITION **KEY DIAGRAM**

GROVEDON CIRCUIT & WOODLET WAY PAVEMENT COMPOSITION

595mm DEPTH PAVEME	NT COMPOSITION	
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
A WEARING COURSE	30	SIZE 10 TYPE N (CLASS 170 BINDER) ASPHALT
B INTERMEDIATE COURSE 1	30	SIZE 10 TYPE N (CLASS 170 BINDER) ASPHALT
C INTERMEDIATE COURSE 2	-	-
D SAMI SEAL	10	SIZE 10 S18RF
E PRIME	YES	
F BASE COURSE	130	SIZE 20 CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% MODIFIED AS1289,5.2.1
G UPPER BASE COURSE	110	SIZE 20 CLASS 3 CRUSHED ROCK, COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% (MODIFIED) AS1289.5.2.1
H LOWER BASE	-	
I CAPPING LAYER	285	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10₃m/s OR LIME STABILISED SITE WON CLAY WHICH CONFORMS TO THE PARAMETERS ABOVE
J SUBGRADE		C.B.R 1.5%, EXPANSIVE



AS CONSTRUCTED PLANS

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GROVEDON CIRCUIT

AS CONSTRUCTED

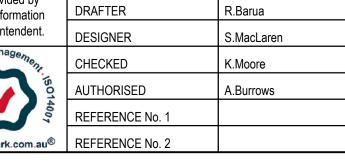
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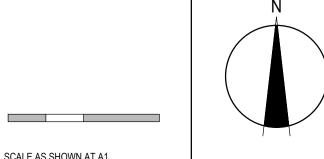
DONNYBROOK ROAD







NAME



SCALE AS SHOWN AT A1





Olivine Estate - Stage 1C Whittlesea City Council Road and Drainage General Notes & Pavement Details

PROJECT / DRAWING No. 1700E-01C-09 MELWAYS REF SHEET No. REVISION 1



STORMWATER DRAIN, PIT MAIN DRAIN SWALE DRAIN SEWER & MAINTENANCE STRUCTURES HOUSE DRAIN ELECTRICITY (U.GROUND) —— G —— — т — TELSTRA —— w —— RECYCLE WATER —— Ag —— AG. DRAIN —<u>GW</u>— SERVICE CONDUITS TACTILE PAVERS **EXISTING STORMWATER DRAIN** EXISTING MAIN DRAIN EXISTING SWALE DRAIN **EXISTING SEWER & MAINTENANCE ⊖**—Ех S — STRUCTURES EXISTING HOUSE DRAIN EXISTING ELECTRICITY (UNDER GROUND) ——Ex E —— EXISTING GAS <u>——</u>Ех G —— EXISTING TELSTRA <u>——</u>Ех Т — **EXISTING WATER** ——Ex W —— EXISTING RECYCLED WATER Ex RW — —Ех.Ад — EXISTING AG. DRAIN SERVICE CONDUITS EXISTING TACTILE PAVERS FUTURE STORMWATER DRAIN —Fut D —— **FUTURE MAIN DRAIN** FUTURE SWALE DRAIN **FUTURE SEWER & MAINTENANCE** O-FUT S -STRUCTURES FUTURE HOUSE DRAIN FUTURE ELECTRICITY (UNDER GROUND) ----Fut E ----—Fut G — FUTURE GAS —Fut T — FUTURE TELSTRA FUTURE WATER —Fut W — FUTURE RECYCLED WATER —Fut RW — —Fut Ag — FUTURE AG. DRAIN FUTURE SERVICE CONDUITS 00000 FUTURE TACTILE PAVERS ZERO LOT LINES 141.34 EXISTING SURFACE LEVEL FS140.35 FINISHED BUILDING LINE LEVEL FR157.40 FINISHED RIDGE LINE LEVEL CH270.00 CHAINAGE TW159.60 TOP OF RETAINING WALL LEVEL BOTTOM OF RETAINING WALL LEVEL BW159.00 EXISTING RETAINING WALL RETAINING WALL **FUTURE RETAINING WALL** STRUCTURAL FILL > 200mm DEEP EXISTING STRUCTURAL FILL > 200mm DEEP CUT > 200mm DEEP DIRECTION OF FALL OVERLAND FLOW GRADED IN DIRECTION OF FALL TO LEVEL INDICATED EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER EXISTING RED GUMTREE & CANOPY TO BE REMOVED EXISTING OTHER SPECIES TREE & CANOPY TO BE REMOVED EXISTING RED GUM TO BE RETAINED EXISTING OTHER SPECIES TO BE PERMANENT SURVEY MARK TEMPORARY BENCH MARK

LEGEND - LAYOUT PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

WARNING

BEWARE OF UNDERGROUND SERVICES

The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works **DIAL 1100 BEFORE YOU DIG** www.1100.com.au

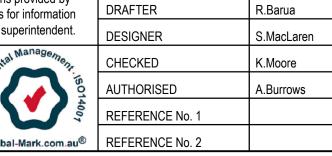
AS CONSTRUCTED PLANS

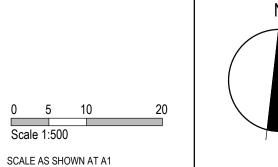
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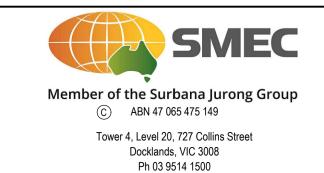
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Olivine Estate - Stage 1C Whittlesea City Council Road and Drainage Earthworks Plan

MELWAYS REF PROJECT / DRAWING No. 1700E-01C-10

10 of 11 | 1

<u>PHASE</u>	DISC	IPLINE CODE		ction- Operations- Maintenance NTIAL RISK	RISK OWNER	POTENTIAL CONSEQUENCES	POTENTIAL ELIMINATION MEASURE, DESIGN INITIATIVE or CONTROL (Identify any Standard or Code of practice used)	HOW ISSUE ADDRESED IN DESIGN AND/OR CONSTRUCTION OF THE WORKS	IS THE RISK ELIMINATED YES/NO	Residual Risk	Residual Risk Consequ ence (0-5)	Residual Risk Rating	RESIDUAL RISK OWNER
		R	oad Furniture / Roadside features										
Construction	RD	#N/A	Construction close to live traffic	New works will be constructed adjacent to live traffic when abutting existing stages.	Contractor	Disruptions to live traffic, construction incident involving live traffic.	Provide safe temporary traffic control (TCP)	TCP provided within contract	N	5	3	15	Constructor
Construction	RD	#N/A	Culverts	Potential risk from culverts under construction and height / fall hazards	Contractor	Falling from a height	Temporary barriers to be provided	Temporary barrier provided in contract	N	2	5	10	Constructor
Construction	US	#N/A U	tilities become a hazard within clear zones	Vehicle conflict with utility / pit	Contractor	Personal injury, vehicle damage	Sequence works and protect with temp barrier or traffic control (TCP)	TCP provided within contract	N	1	5	5	Constructor
Operational	RD	#N/A	Sight Lines	Inadequate drivers response time.	Road Authority	Increased potential for accidents	Ensure design complies with relevant standard. Undertake thorough Safety Audit	Vis lines checked and discussed with approval authority as part of design approval process	N	1	4	4	Road Authority
Operational	LS	#N/A	Signs and street lights	Potential for drivers / riders to strike signs and street lights	Road Authority	Increased potential for accidents	Ensure design complies with relevant standard. Undertake thorough Safety Audit	Refer to appropriate standard for sign and lighting offsets	N	1	4	4	Road Authority
Operational	RF	#N/A	Headwalls	Potential vehicle conflict within clear zone	Road Authority	Increased potential for accidents	Establish adequate clear zone provision	Adequate barrier provided as per appropriate standard where within clear zone. Culvert headwall selection in accordance with authority standard	N	2	4	8	Road Authority
Operational	RD	#N/A	Culverts	Potential fall hazard during maintenance, by vechicles and pedestrians	Relevant Authority	Falling from a height	Barriers to be provided in accordance with road standards	Barriers to be provided and safe batter slopes (>1:3)	N	2	5	10	Constructor
			Retaining Walls										
Construction	RW	#N/A	Retaining Wall Alignment	Falling from height during construction or commissioning of walls and adjacent structures eg. sewer manholes	Contractor	Falling from a height	Provide temporary and permanent fencing at top of wall.	Provide fencing (at heights) during design process	N	1	1	1	Constructor
Operational	RW	#N/A	Retaining Wall Alignment	Lack of safe access/setback from road	Road/ Local Authority	Increased potential for accidents	Establish adequate and accessible clear zone provision. Provide guardrail where required	Wall located in suitable position during design process and approved by authority	N	1	1	1	Authority
Operational	RW	#N/A	Retaining Wall Height	Potential for falling from height	Road/ Local Authority	Personal injury	Provide temporary and permanent fencing at top of wall.	Provide fencing (at heights) during design process	N	1	5	5	Authority
Operational	RW	#N/A	Retaining Wall Design	Potential for wall failure	Road/ Local Authority	Increased potential for accidents	Structural design in accordance with standards, geotechnical conditions, end use and good practise.	Refer to structural drawings and calculations	N	1	5	5	Authority
			Drainage										
Operational	DR	#N/A	Grated Pits	Trip/fall hazard with large spaced grate	Relevant Authority	Increased potential for accidents	Provide pedestrian/bicycle friendly grates where applicable. Refer to pit schedule	Design in accordance with authority and manufacturers standards	N	3	2	6	Authority
Operational	DR	#N/A	Non Standard Large Pits	Potential for pit failure	Relevant Authority	Increased risk to maintenance crews/ vehicles	Structural design in accordance with relevant design principles.	Refer to structural drawings and calculations	N	1	4	4	Authority
Operational	DR	#N/A	Culvert Endwalls/Headwalls	Potential for falling from height	Relevant Authority	Increased potential for accidents	Fencing to be provided where culverts/headwalls are at height in accordance with relevant authority standards	Allow for fencing in Design Process	N	1	4	4	Authority
Operational	DR	#N/A	Culvert Endwall/Headwall Outlets	Children playing in large pipes / watercourses and access for maintenance	Relevant Authority	Increased potential for accidents	Grate provided to authority standards	Design in accordance with authority and manufacturers standards	N	2	5	10	Authority
Maintenance	DR	#N/A	Access to Pits	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	landing/ access arrangements as per relevant authority standards	Where possible design pit in location for easy access and outside of permanent water bodies	N	2	5	10	Authority
Maintenance	DR	#N/A	Deep Pits	Lack of safe entry for maintenance	Relevant Authority	Increased potential for accidents	Contractor to be certified for work in confined spaces, step irons to be provided to appropriate authority standards. Refer to pit schedule	Design in accordance with authority standards	N	1	5	5	Authority
Maintenance	DR	#N/A	Access to drains / culverts	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Access as approved by authority	Design pit in location for easy access as agreed with authority	N	2	3	6	
			Sewer										
Construction	SE	#N/A Se	ewer Manhole located adjacent to Retaining Wall Alignment	Falling from height during construction or commissioning of adjacent sewer manholes	Contractor	Falling from a height	Provide temporary fencing until such time that permanent fencing is constructed	Provide fencing (at heights) during design process	N	1	1	1	Constructor
Maintenance	SE	#N/A	Deep Manholes	Lack of safe entry for maintenance	Relevant Authority	Increased potential for accidents	Contractor to be certified for work in confined spaces, landings and step access provided as per authority standards and schedule	Design in accordance with authority standards. Refer pit schedule on drawings	N	1	5	5	Authority
Maintenance	SE	#N/A	Access to Manholes	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Manholes located in compliance with authority standards	Where possible design manhole in location for easy access	N	1	5	5	Authority
Maintenance	SE	#N/A	Pump Station Access	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance	Design pump station in location for easy access	N	2	4	8	Authority
			Electricity										
Operational	ES	#N/A	Electrical Design	Location of assets within clear zones e.g., pits/ substations	Relevant Authority	Increased potential for accidents	Electrical designed by sub consultant with appropriate accreditation and in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2	3	6	Authority
			Telstra										
Operational	TE	#N/A	Telstra Design	Location of assets within clear zones e.g., pits	Relevant Authority	Increased potential for accidents	Telecommunications designed by authority consultant with appropriate accreditation and in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2	3	6	Authority
			Water					. ,					
Operational	WA	#N/A	Water Design	Location of assets within clear zones e.g., pits/ substations	Relevant Authority	Increased potential for accidents	Water pits designed in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2	3	6	Authority
			Gas					,					
Operational	GA	#N/A	Gas Design	Location of assets within clear zones e.g., pits/ substations	Relevant Authority	Increased potential for accidents	Water pits designed in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	1	1	1	Authority
								F. 2.1.222 2. Same, protestion provided				0	

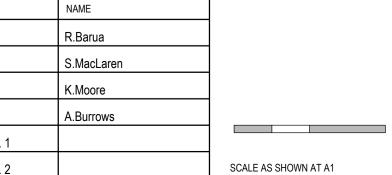
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DRAFTER DESIGNER S.MacLaren K.Moore AUTHORISED REFERENCE No. 1







Olivine Estate - Stage 1C Whittlesea City Council Road and Drainage Safety in Design

MELWAYS REF

PROJECT / DRAWING No. 1700E-01C-85 SHEET No. REVISION 1