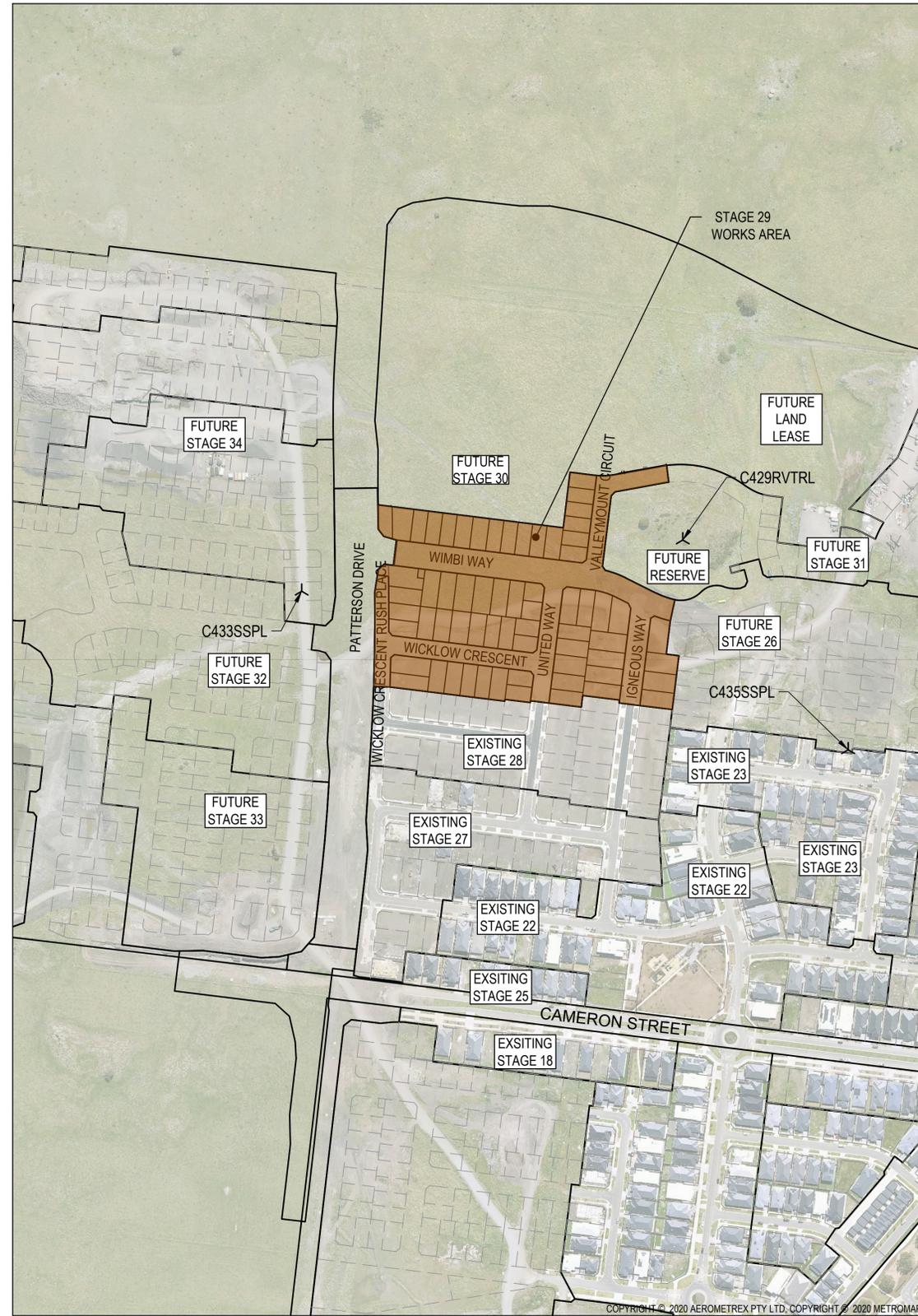


# Olivine Estate

## Stage 29



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ROAD NAME	ROAD RESERVE WIDTH (m)	ROAD WIDTH (m)				KERB TYPE		VERGE WIDTH (m)	
		LIP TO LIP	INV TO INV	BACK TO BACK	NTH/WEST	STH/EAST	NTH/WEST	STH/EAST	
		6.00 / 10.60	6.30 / 10.90	6.30 / 10.90	B2	B2	2.95/5.25	4.95/7.25	
WIMBI WAY	22.00	5.10 / 9.70	6.00 / 10.60	6.30 / 10.90	B2	B2	2.95/5.25	4.95/7.25	
WIMBI WAY (ADJACENT OPEN SPACE)	18.50	5.10 / 9.70	6.00 / 10.60	6.30 / 10.90	B2	B2	2.95/5.25	4.95/7.25	
IGNEOUS WAY	18.00	6.40	7.30	7.60	B2	B2	5.35	5.35	
UNITED WAY	16.00	6.40	7.30	7.60	B2	B2	4.35	4.35	
WICKLOW CRESCENT (LOTS 2927 TO 2933)	16.00	6.40	7.30	7.60	B2	B2	4.35	4.35	
WICKLOW CRESCENT (LOTS 2921 & 2922)	14.00	6.40	7.30	7.60	B2	B2	2.35	4.35	
VALLEYMOUNT CIRCUIT	14.50	6.40	7.30	7.60	B2	B2	4.35	2.85	
RUSH PLACE	12.00	4.00	-	-	-	-	3.10	4.90	

ROAD NAME	SERVICES OFFSET TABLE						
	GAS	RECYCLED WATER	WATER	ELECTRICITY	OPTIC FIBRE	TREES*	PUBLIC LIGHTING POLE**
WIMBI WAY	2.10 S	2.75 S	3.50 S	4.40 N	3.35 N	1.6 BOK	1.1 N BOK
WIMBI WAY (ADJACENT OPEN SPACE)	2.10 S	2.75 S	3.50 S	1.10 N	0.35 N	1.6 S & 1.4 N	1.1 N BOK
IGNEOUS WAY	2.10 E	2.60 E	3.10 E	3.50 W	1.85 W	1.8 BOK	1.1 W BOK
UNITED WAY	2.10 E	2.55 E	3.05 E	2.50 W	1.85 W	1.3 BOK	1.1 W BOK
WICKLOW CRESCENT (LOTS 2927 TO 2933)	2.10 S	2.55 S	3.05 S	2.50 N	1.85 N	1.3 BOK	1.1 N BOK
WICKLOW CRESCENT (LOTS 2921 & 2922)	2.10 E	2.55 E	3.05 E	0.70 W	1.10 W	1.3 E & 1.1 W	1.1 W BOK
VALLEYMOUNT CIRCUIT	2.10 W	2.55 W	3.05 W	1.10 E	0.35 E	1.35 E & 1.3 W	1.1 E BOK
RUSH PLACE	1.80 E	2.20 E	2.70 E	4.10 E	3.40 E	1.7 E	1.1 W LOK

\*INDICATIVE ONLY. SUBJECT TO FINAL LANDSCAPE DESIGN  
 \*\*INDICATIVE ONLY. SUBJECT TO FINAL ELECTRICAL DESIGN

### GENERAL NOTES (WHITTLESEA CITY COUNCIL)

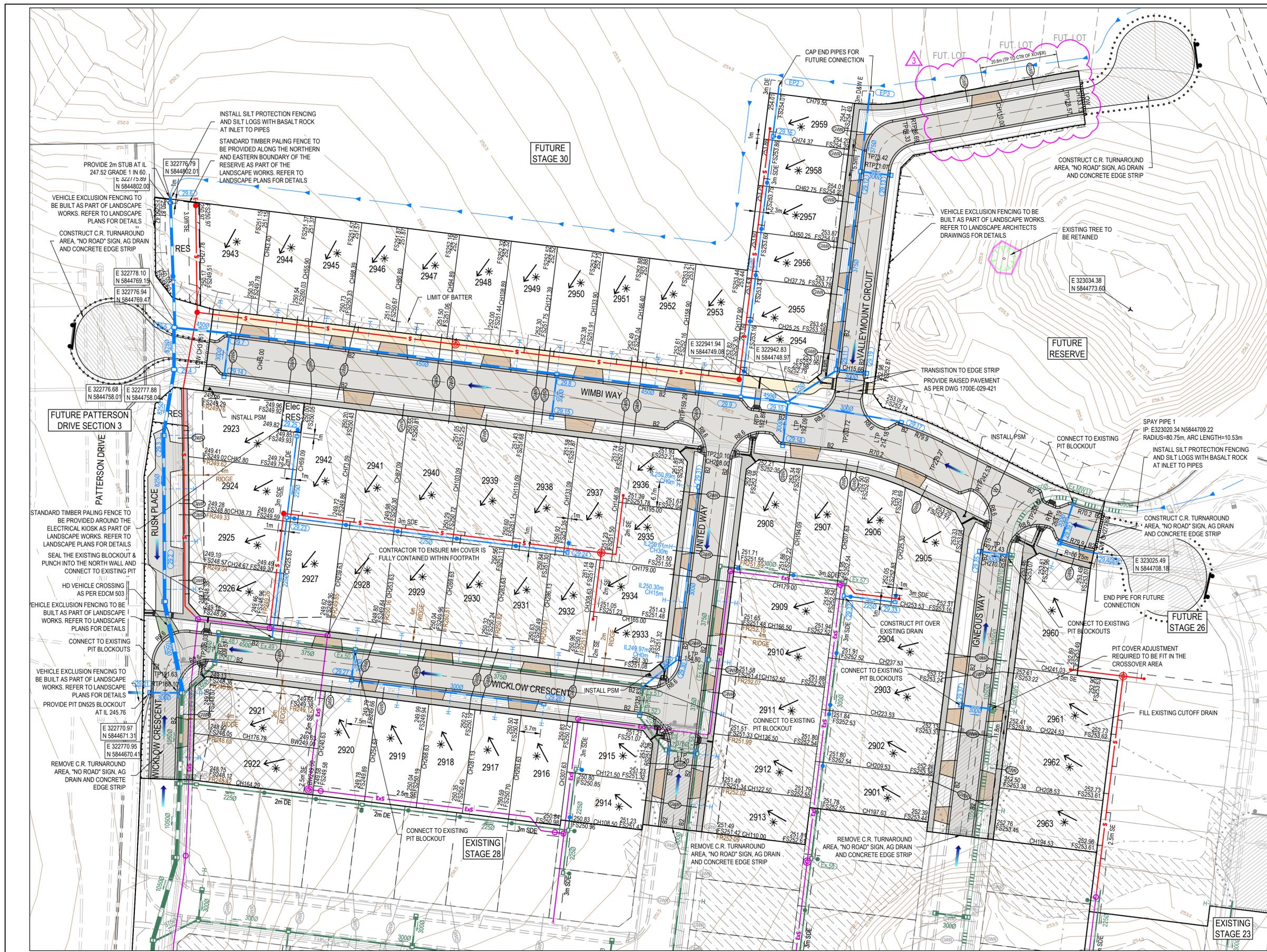
1. THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS. WORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SURVEILLANCE COORDINATOR OR HIS REPRESENTATIVE.
2. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION. 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.
3. THE CONTRACTOR SHALL:
  - 3.1. COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982.
  - 3.2. NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF THEIR INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
  - 3.3. ENSURE THAT THE MINE MANAGER OR THEIR DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
4. THE CONTRACTOR IS TO NOTIFY COUNCIL'S SENIOR SURVEILLANCE ENGINEER AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHHEADS, 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.
6. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
7. THE CONTRACTOR SHALL COOPERATE WITH OTHER AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE. THE CONTRACTOR SHALL CHECK WITH THE SUPERINTENDENT THE EXACT LOCATION OF ALL SERVICES PRIOR TO THE INSTALLATION OF CONDUITS.
8. ANY EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE COUNCIL REPRESENTATIVE.
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. APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.
11. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVANT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
12. ALL TREES AND SHRUBS TO BE RETAINED UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT AUTHORITY BECAUSE ROAD CONSTRUCTION NECESSITATES THEIR REMOVAL, OR REMOVAL IS DIRECTED BY THE AUTHORISED ENGINEER. TREES TO BE REMOVED ARE TO BE SUITABLY LABELLED. WHEN IT IS PROPOSED TO REMOVE EXISTING TREES IN ROAD RESERVES OR COUNCIL RESERVES, CONSULTATION IS TO OCCUR WITH COUNCIL'S PARKS AND GARDENS DEPARTMENT.
13. VICROADS ROADWORK SIGNING CODE OF PRACTICE WHICH COMPLIES WITH THE AUSTRALIAN STANDARD 1742.3-2002 IS TO BE ADHERED TO DURING THE CONSTRUCTION WORKS.
14. 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 CONNECTING TO EXISTING UNDER ROAD PAVEMENT, FOOTPATH OR OTHER INFRASTRUCTURE. BOTH KERBS ARE TO BE MARKED WITH THE LETTERS H (PROPER WATER CONNECTION), E (ELECTRICAL), G (GAS), T (TELEPHONE), W (WATER), R (RECYCLED WATER) AND C (COUNCIL COMMUNICATION) AS PER STANDARD DRAWING EDM 303.
15. ALL EARTHWORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S EARTHWORK SPECIFICATION AND THE EARTHWORKS SECTION OF SMEC'S CONTRACT SPECIFICATION.
16. BATTERS INTO ALLOTMENTS SHALL NOT BE STEEPER THAN 1 IN 6 UNLESS NOTED OTHERWISE.
17. ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVE AND NATURESTRIPS TO BE STRIPPED OF TOPSOIL AND STOCKPILED PRIOR TO EARTHWORK COMMENCING.
18. NO FILLING OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE UNLESS DIRECTED BY THE SUPERINTENDENT.
19. NO TOPSOIL TO BE REMOVED FROM SITE UNLESS OTHERWISE APPROVED.
20. LOTS SHALL BE EVENLY GRADED TO ENSURE MINIMUM LOT FALLS AS SPECIFIED ON DRAWINGS ARE ACHIEVED.
21. ALL DRAINAGE PIPES TO BE CLASS 2 RCP UNLESS NOTED OTHERWISE. ALL DRAINAGE PIPE UP TO AND INCLUDING 750mm IN DIAMETER SHALL BE RUBBER RING JOINTED. PIPES ABOVE THIS SIZE MAY BE FLUSH JOINTED WITH EXTERNAL SEALING BANDS. RUBBER RING PIPES TO BE PRESSURE RESISTANT, I.E. SPECIFIC MANUFACTURERS RUBBER RING TO BE USED, SUITED TO PRESSURE CONDITIONS AND THE PIPES ARE NOT TO HAVE ANY PLUGS.
22. ALL PITS GRATER THAN OR EQUAL TO 1000mm DEPTH TO BE PROVIDED WITH STEP IRONS IN ACCORDANCE WITH EDM 609.
23. ALL DRAINAGE TRENCHES UNDER ROAD PAVEMENTS, KERB & CHANNEL, PARKING BAYS, DRIVEWAYS, FOOTPATHS AND BEHIND KERBS & CHANNEL SHALL BE BACKFILLED WITH COMPACTED CRUSHED ROCK AS SPECIFIED.
24. OFFSETS TO DRAINAGE IN EASEMENTS AS SHOWN ARE TO THE CENTRELINE OF THE DRAIN, UNLESS OTHERWISE SPECIFIED OR DETAILED. ALL EASEMENT DRAINS ARE TO BE CONSTRUCTED TO AN OFFSET OF 1.0m FROM ALLOTMENT BOUNDARY.
25. AG DRAINS TO BE PROVIDED BEHIND ALL KERBS AND SHALL HAVE SUITABLE OUTLET. CONSTRUCTION TO BE IN ACCORDANCE WITH EDM 605-608.
26. HOUSE DRAINS ARE TO BE CONNECTED DIRECT TO UNDERGROUND DRAIN UNLESS NOTED OTHERWISE.
27. PROPERTY INLET PITS AS PER EDM 701-704.
28. DRIVEWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL'S STANDARDS AND CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TREES.
29. FOOTPATHS ARE TO BE OFFSET 50mm FROM THE BUILDING LINE.
30. ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHOULD BE TO AS1742.2 AND 1742.1 STANDARD RESPECTIVELY. TEMPORARY LINEMARKINGS 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.
31. UPON COMPLETION OF CONSTRUCTION, THE WHOLE SITE SHALL BE CLEANED UP AND GRADED OVER. ALL RUBBISH IS TO BE REMOVED AND THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
32. ALL SERVICE TRENCHES UNDER FOOTPATH, ROAD PAVEMENTS, VEHICLE CROSSINGS AND OTHER ROAD STRUCTURES ARE TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT COUNCIL AND AUTHORITY STANDARDS.
33. FOOTPATHS ARE TO BE CONTINUOUSLY REINFORCED CONCRETE IN ACCORDANCE WITH EDM 403 UNLESS OTHERWISE SPECIFIED.
34. A BUILDING PERMIT MUST BE OBTAINED FOR ANY STRUCTURE/RETAINING WALL EXCEEDING 1.0m IN HEIGHT PRIOR TO COMMENCEMENT OF CONSTRUCTION, IN ACCORDANCE WITH THE BUILDING CODE OF AUSTRALIA. COPY OF BUILDING PERMITS AND 'CERTIFICATE OF COMPLIANCE - CONSTRUCTION' (REGARDLESS OF HEIGHT) FOR ALL COMPONENTS OF RETAINING WALL INCLUDING AG DRAINS TO BE SUBMITTED TO COUNCIL PRIOR TO STATEMENT OF COMPLIANCE.
35. ALL FILL CONSTRUCTION AND TESTING TO BE CARRIED OUT AS PER CURRENT AS3798 LEVEL 1 REQUIREMENT, SMEC SPECIFICATIONS, WHITTLESEA CITY COUNCIL SPECIFICATIONS AND EDM REQUIREMENTS.
36. CONCRETE JOINT DETAILS SHALL BE IN ACCORDANCE WITH CEMENT AND CONCRETE ASSOCIATION AUSTRALIA - GUIDE TO RESIDENTIAL STREET AND PATHS (C & CA 151).
37. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
38. ALL CONCRETE TO BE USED IN THE CONTRACT WORKS SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa AT 28 DAYS.
39. THE CONTRACTOR TO ERECT STREET NAME SIGNS WITH COUNCIL LOGO, GALVANISED IRON POSTS AND PROVIDE THE PROVISION OF A SLEEVE AS DIRECTED BY THE SUPERINTENDENT.
40. THE NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450mm LONG Y20 DOWEL BARS @ 600 CENTRES, UNLESS OTHERWISE SPECIFIED.
41. ALL MATERIAL SURROUNDING SERVICE AUTHORITY PITS LOCATED IN FOOTPATHS MUST BE ADEQUATELY COMPACTED IN 150mm LAYERS AND TESTED TO THE SATISFACTION OF THE CITY OF WHITTLESEA, PRIOR TO THE CONSTRUCTION OF THE FOOTPATH BAYS ADJACENT TO THESE PITS.
42. TBMS TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF TBMS THEREAFTER.
43. DOUBLE CROSS OVERS FOR LOTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH EDM STANDARD DRAWING SD 502.
44. TGS'S TO BE DESIGNED IN ACCORDANCE WITH CITY OF WHITTLESEA SD 320 AND AS 1428.4.1.

TBM SETOUT TABLE				
POINT	EASTING	NORTHING	RL (AHD)	DESCRIPTION
C433SSPL	322706.25	5844729.60	248.14	STAR PICKET
C429VTRL	323034.38	5844773.60	258.47	RIVET
C435SSPL	323176.76	5844593.31	251.84	STAR PICKET

**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-029-500  
**ASSESS THE RISK - STAY SAFE**

**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

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER		PLAN OF SUB. NO.				Olivine Estate - Stage 29 Whittlesea City Council Road and Drainage Cover Plan & General Notes		
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS		PS913459H	0 25 50 100 Scale 1:2500 SCALE AS SHOWN AT 1	Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC 3008 Ph 03 9514 1500	MELWAYS REF <b>367 G11</b>	PROJECT / DRAWING No. <b>1700E-029-101</b>	SHEET No. <b>01 of 27</b>	REVISION <b>0</b>



LEGEND - LAYOUT PLAN	
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	ELECTRICITY (U.GROUND)
	ELECTRICITY (O.HEAD)
	GAS
	TELSTRA
	OPTIC FIBRE
	WATER
	RECYCLE WATER
	AG. DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING HOUSE DRAIN
	EXISTING ELECTRICITY (UNDER GROUND)
	EXISTING ELECTRICITY OVERHEAD
	EXISTING GAS
	EXISTING TELSTRA
	EXISTING OPTIC FIBRE
	EXISTING WATER
	EXISTING RECYCLED WATER
	EXISTING AG. DRAIN
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE ELECTRICITY (UNDER GROUND)
	FUTURE ELECTRICITY OVERHEAD
	FUTURE GAS
	FUTURE TELSTRA
	FUTURE OPTIC FIBRE
	FUTURE WATER
	FUTURE RECYCLED WATER
	FUTURE AG. DRAIN
	FUTURE SERVICE CONDUITS
	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
BW159.00	BOTTOM OF RETAINING WALL LEVEL
	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 TREE TO BE RETAINED
	EXISTING TREE TO BE REMOVED
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING

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REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS
1	10.10.25	DRAINAGE UPDATED FOR FUTURE CONNECTION	K.KANG	K.KANG	T.MOTET	G.CORREIA
2	27.10.25	BATTER LINE UPDATED	S.KHATIBI	C.PIERRE	T.MOTET	G.CORREIA
3	17.11.25	FUTURE CROSSOVER ADDED IN VALLEYMOUNT CIRCUIT	L.CHAPPELLE	C.PIERRE	T.MOTET	G.CORREIA

PLAN OF SUB. NO. PS913459H  
 PERMIT REF. NO. 719067  
**ISSUED FOR CONSTRUCTION**

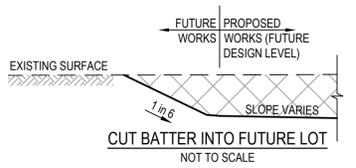
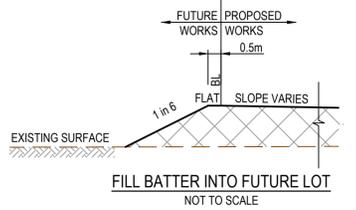
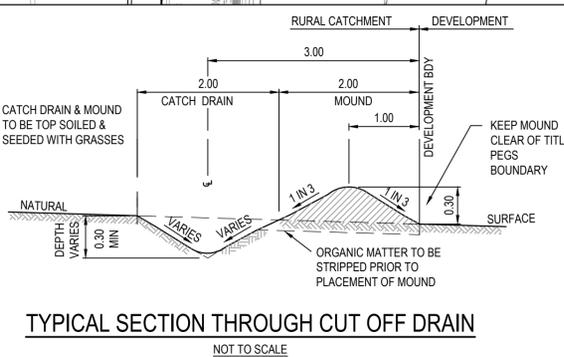
Collins Square, Tower 4, Level 20, 727 Collins St  
 Melbourne, VIC 3008  
 Ph 03 9514 1500

Olivine Estate - Stage 29  
 Whittlesea City Council  
 Road and Drainage  
 Layout Plan - 1

MELWAYS REF 367 G11	PROJECT / DRAWING No. 1700E-029-111	SHEET No. 02 of 27	REVISION 3
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LEGEND - EARTHWORKS PLAN	
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	ELECTRICITY (U.GROUND)
	ELECTRICITY (O.HEAD)
	GAS
	TELSTRA
	OPTIC FIBRE
	WATER
	RECYCLE WATER
	AG. DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING HOUSE DRAIN
	EXISTING ELECTRICITY (UNDER GROUND)
	EXISTING ELECTRICITY OVERHEAD
	EXISTING GAS
	EXISTING TELSTRA
	EXISTING OPTIC FIBRE
	EXISTING WATER
	EXISTING RECYCLED WATER
	EXISTING AG. DRAIN
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE ELECTRICITY (UNDER GROUND)
	FUTURE ELECTRICITY OVERHEAD
	FUTURE GAS
	FUTURE TELSTRA
	FUTURE OPTIC FIBRE
	FUTURE WATER
	FUTURE RECYCLED WATER
	FUTURE AG. DRAIN
	FUTURE SERVICE CONDUITS
	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
	BW159.00 BOTTOM OF RETAINING WALL LEVEL
	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
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	EXISTING TREE TO BE REMOVED
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING



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REV 0	DATE 17.09.25	AMENDMENT / REVISION DESCRIPTION ISSUED FOR CONSTRUCTION	DRAFTER S.KHATIBI	DESIGNER K.KANG	CHECKER T.MOTET	APPROVER A.BURROWS		PLAN OF SUB. NO. PS913459H PERMIT REF. NO. 719067		 Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC 3008 Ph 03 9514 1500		Olivine Estate - Stage 29 Whittlesea City Council Road and Drainage Earthworks & Retaining Wall Setout Plan	MELWAYS REF 367 G11 PROJECT / DRAWING No. 1700E-029-131 SHEET No. 03 of 27 REVISION 0
<b>ISSUED FOR CONSTRUCTION</b>							Scale 1:500 SCALE AS SHOWN AT 1	© SMEC 2021. Digital information supplied by this office is for information only, in the event of any discrepancies this should be discussed with the superintendent. Set out should be carried out in accordance with Relevant Authority standard drawings or as nominated by SMEC.					



VERTICAL GEOMETRY  
HORIZONTAL GEOMETRY  
DATUM RL246  
DESIGN CENTRELINE  
EXISTING SURFACE  
CHAINAGE

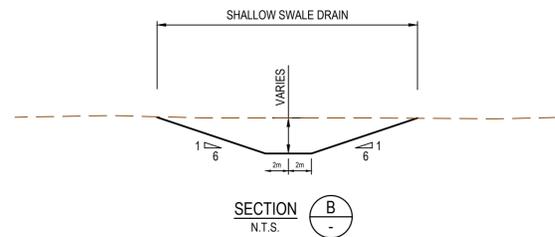
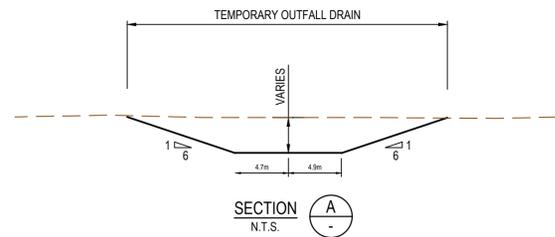
VERTICAL GEOMETRY	-0.61 %				
HORIZONTAL GEOMETRY	R= -50m HC				
DATUM RL246					
DESIGN CENTRELINE	249.32	249.23	249.19	249.11	249.06
EXISTING SURFACE	249.93	249.70	249.49	249.12	248.99
CHAINAGE	0.00	13.54	20.00	33.03	40.00
					41.60

TEMPORARY OUTFALL CHANNEL 1 LONGITUDINAL SECTION (WIMBI WAY OUTLET)

VERTICAL GEOMETRY  
HORIZONTAL GEOMETRY  
DATUM RL245  
DESIGN CENTRELINE  
EXISTING SURFACE  
CHAINAGE

VERTICAL GEOMETRY	-0.51 %				
HORIZONTAL GEOMETRY	R= -50m HC				
DATUM RL245					
DESIGN CENTRELINE	247.87	247.77	247.67	247.65	247.50
EXISTING SURFACE	248.77	248.41	248.05	248.01	247.81
CHAINAGE	0.00	20.00	40.00	43.91	60.00
					60.18
					73.66

TEMPORARY OUTFALL CHANNEL 2 LONGITUDINAL SECTION (WICKLOW CRESCENT OUTLET)



TEMPORARY OUTFALL

LEGEND - EARTHWORKS PLAN	
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	ELECTRICITY (U.GROUND)
	ELECTRICITY (O.HEAD)
	GAS
	TELSTRA
	OPTIC FIBRE
	WATER
	RECYCLE WATER
	AG. DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING HOUSE DRAIN
	EXISTING ELECTRICITY (UNDER GROUND)
	EXISTING ELECTRICITY OVERHEAD
	EXISTING GAS
	EXISTING TELSTRA
	EXISTING OPTIC FIBRE
	EXISTING WATER
	EXISTING RECYCLED WATER
	EXISTING AG. DRAIN
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE ELECTRICITY (UNDER GROUND)
	FUTURE ELECTRICITY OVERHEAD
	FUTURE GAS
	FUTURE TELSTRA
	FUTURE OPTIC FIBRE
	FUTURE WATER
	FUTURE RECYCLED WATER
	FUTURE AG. DRAIN
	FUTURE SERVICE CONDUITS
	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
BW159.00	BOTTOM OF RETAINING WALL LEVEL
	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 TREE TO BE RETAINED
	EXISTING TREE TO BE REMOVED
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING

**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

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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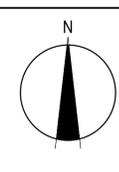
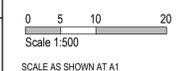
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PLAN OF SUB. NO.  
PS913459H

PERMIT REF. NO.  
719067

**ISSUED FOR CONSTRUCTION**



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Ph 03 9514 1500

**mirvac**

Olivine Estate - Stage 29  
Whittlesea City Council  
Road and Drainage  
Temporary Outfall Channel

MELWAYS REF 367 G11	PROJECT / DRAWING No. 1700E-029-132	SHEET No. 04 of 27	REVISION 0
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 Locate all underground services before commencement of works  
**DIAL 1100 BEFORE YOU DIG**  
[www.1100.com.au](http://www.1100.com.au)

**NOTES**  
 1. 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPMS 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.

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

PLAN OF SUB. NO. PS913459H  
 PERMIT REF. NO. 719067

**ISSUED FOR CONSTRUCTION**

Scale 1:500  
 SCALE AS SHOWN AT A1

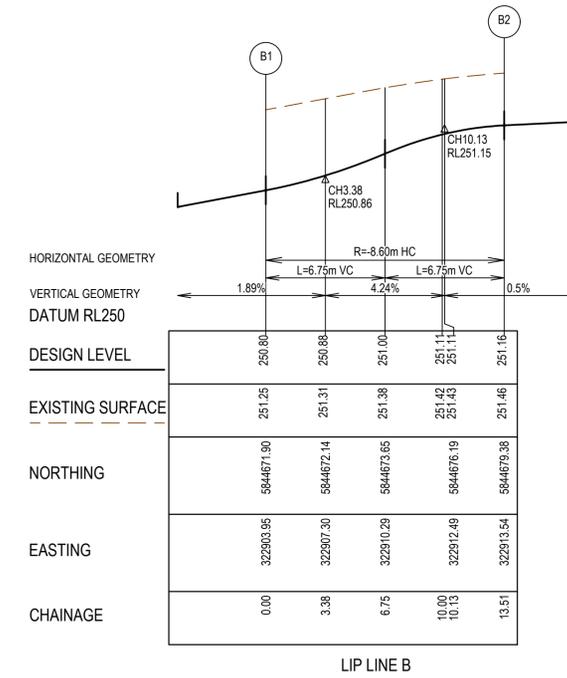
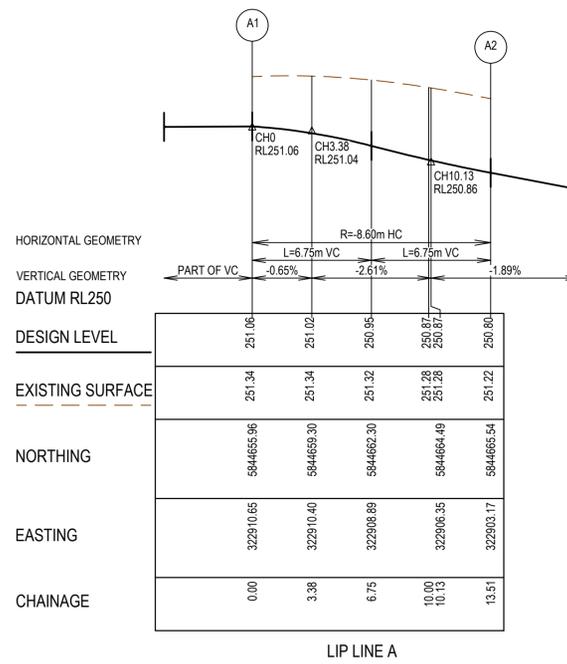
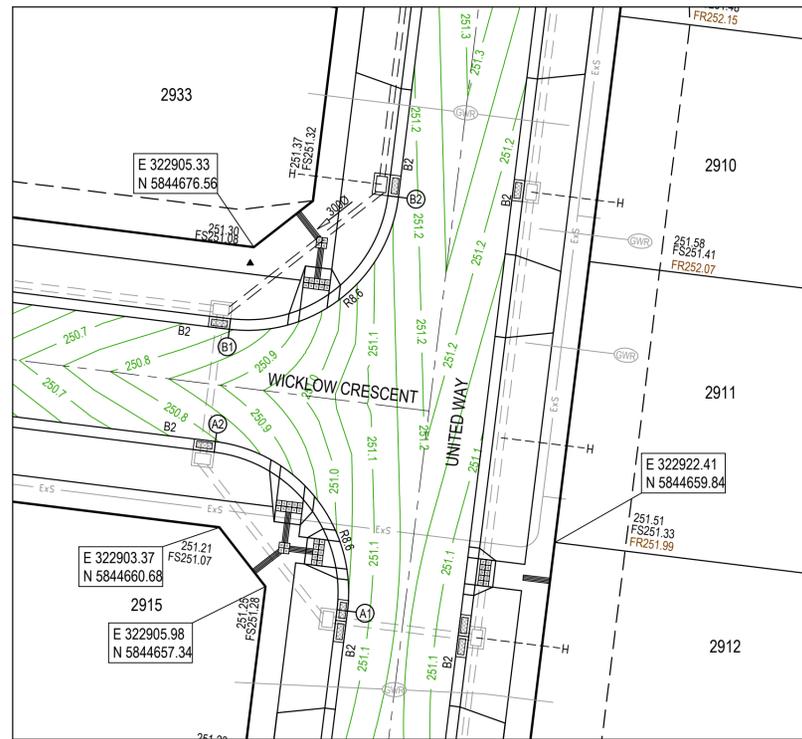
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 Ph 03 9514 1500

**mirvac**

Olivine Estate - Stage 29  
 Whittlesea City Council  
 Road and Drainage  
 Signage & Linemarking Plan

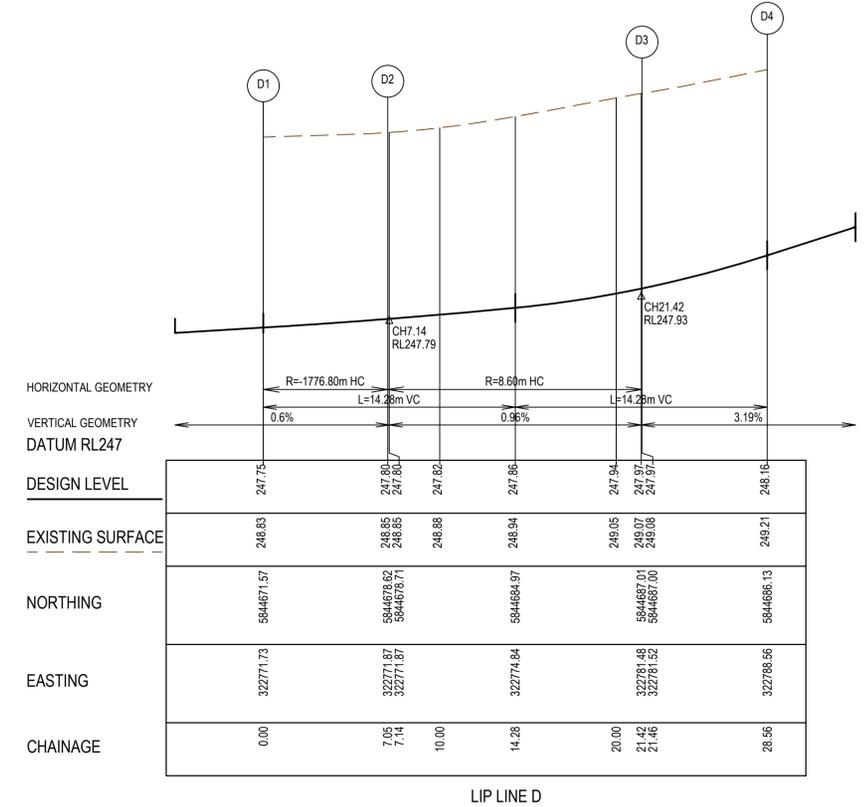
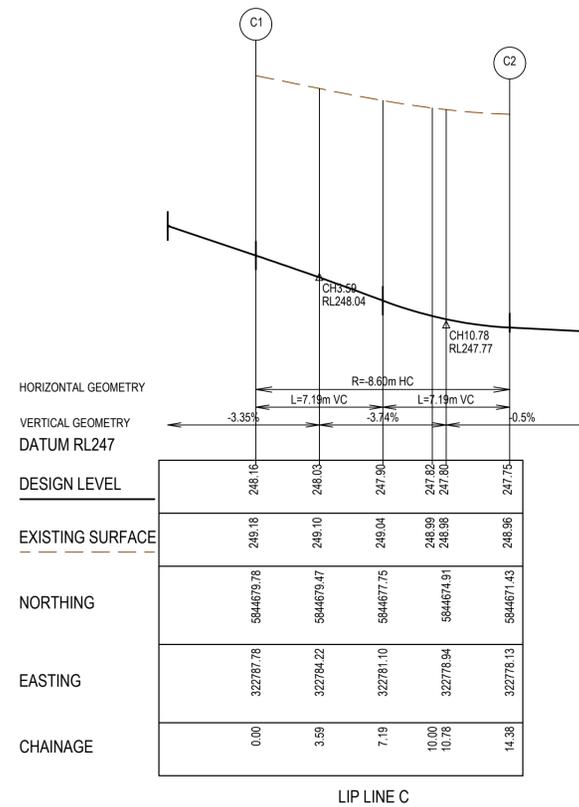
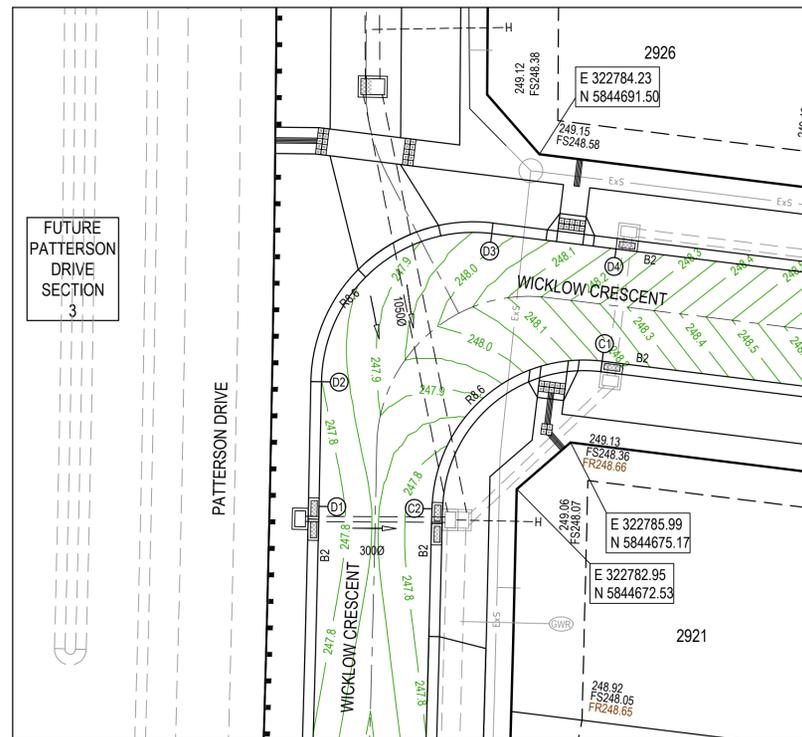
MELWAYS REF 367 G11	PROJECT / DRAWING No. 1700E-029-171	SHEET No. 05 of 27	REVISION 0
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**LEGEND - INTERSECTION DETAIL PLAN**  
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH

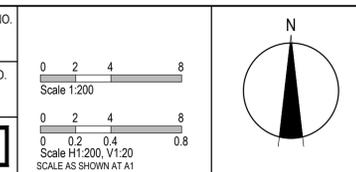
- NOTES**
- ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITTS.
  - ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
  - VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
  - INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS PART OF LANDSCAPE WORKS.
  - SHARE PATH THROUGH CREEK CORRIDOR TO FORM PART OF LANDSCAPE WORKS.



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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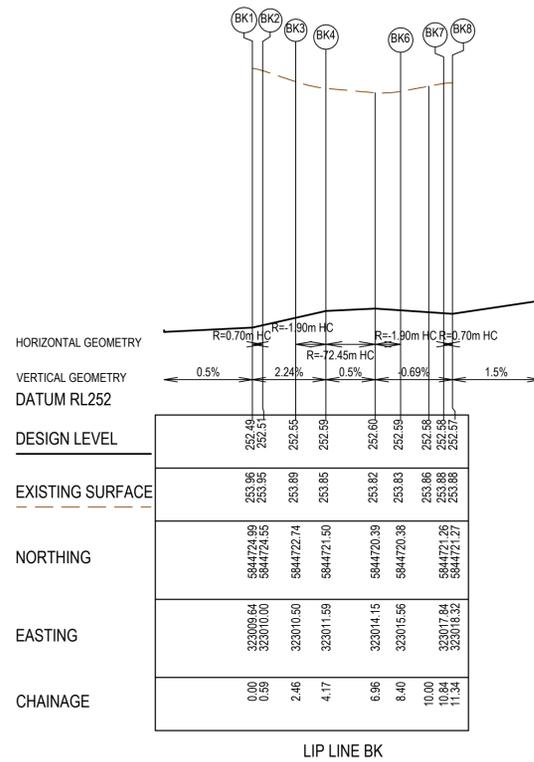
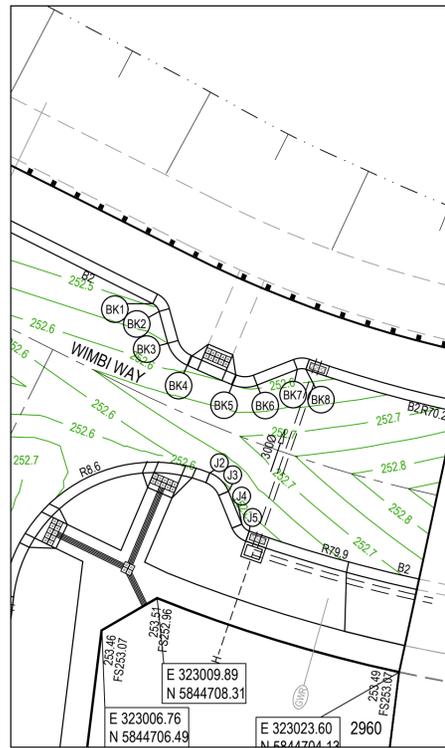
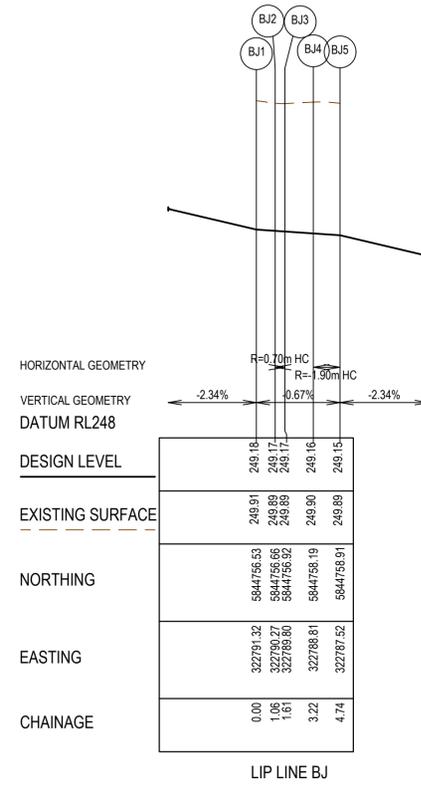
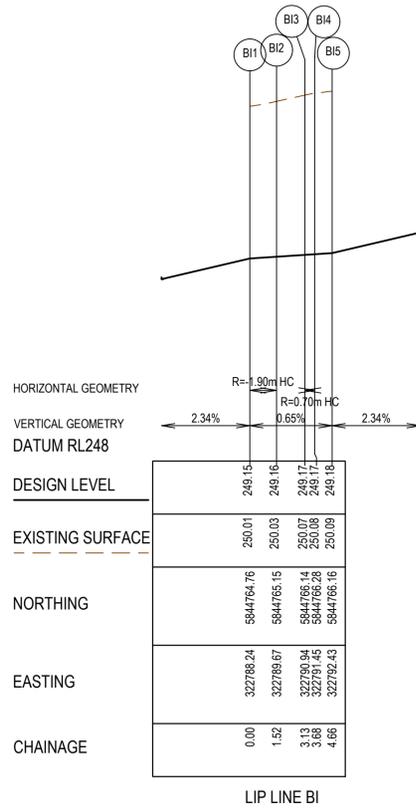
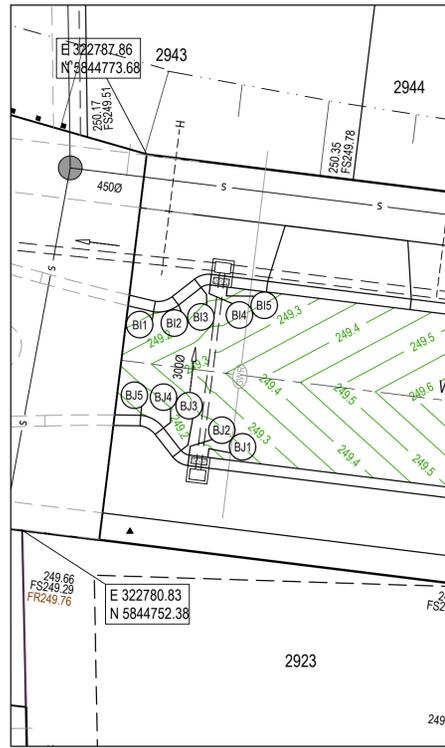
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 Melbourne, VIC 3008  
 Ph 03 9514 1500

**mirvac**

Olivine Estate - Stage 29  
 Whittlesea City Council  
 Road and Drainage  
 Intersection Detail Plan

MELBOURNE REF: 367 G11  
 PROJECT / DRAWING No: 1700E-029-181

SHEET No: 06 of 27  
 REVISION: 0



- NOTES**
- ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITTS.
  - ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
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  - INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS PART OF LANDSCAPE WORKS.
  - SHARE PATH THROUGH CREEK CORRIDOR TO FORM PART OF LANDSCAPE WORKS.

**LEGEND - INTERSECTION DETAIL PLAN**  
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH

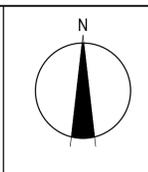
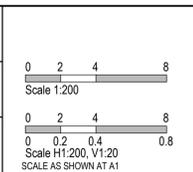
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0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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 Environmental Management - ISO 14001

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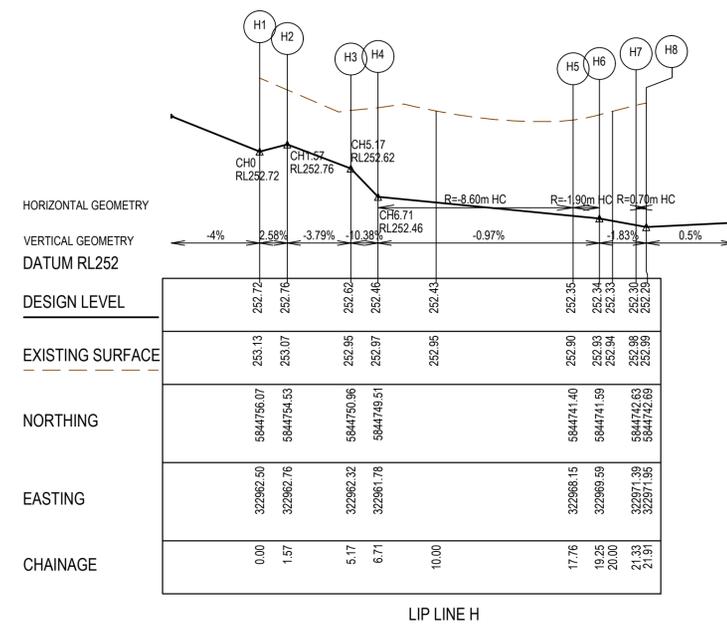
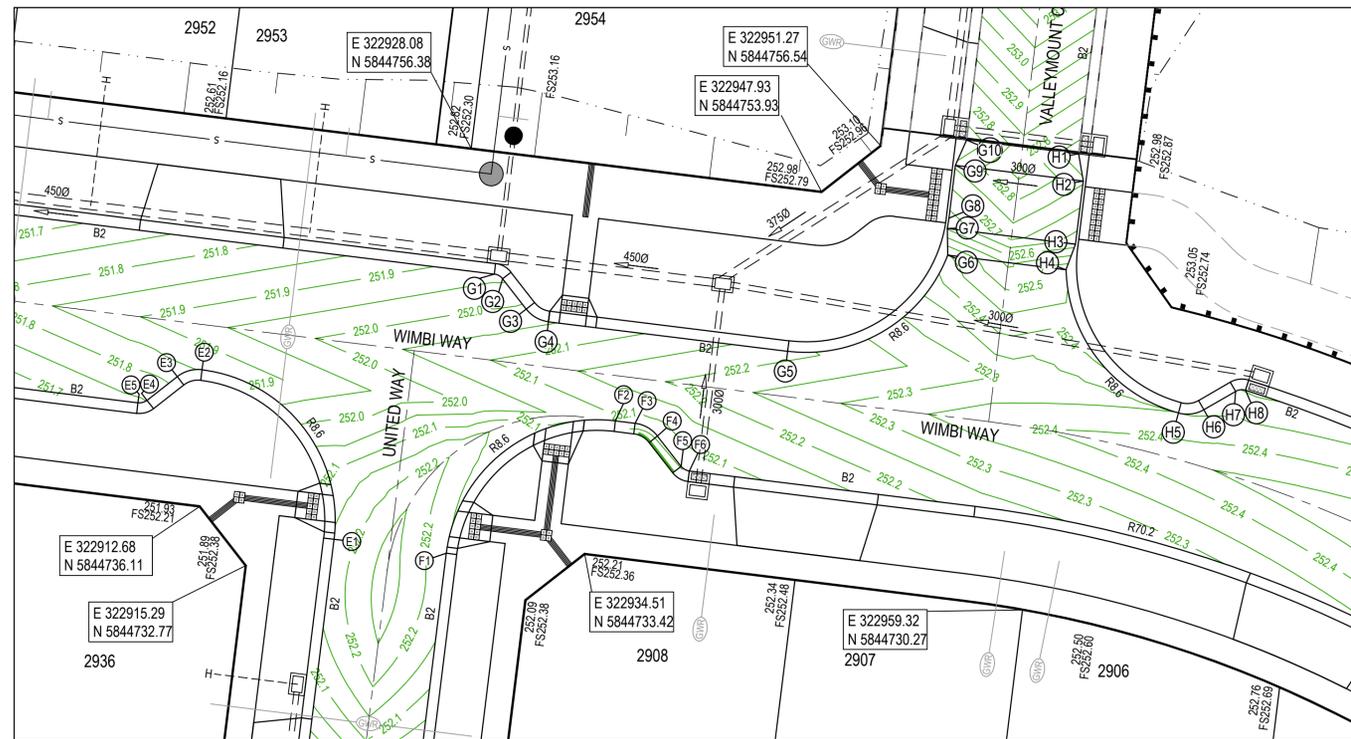
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Olivine Estate - Stage 29  
 Whittlesea City Council  
 Road and Drainage  
 Intersection Detail Plan

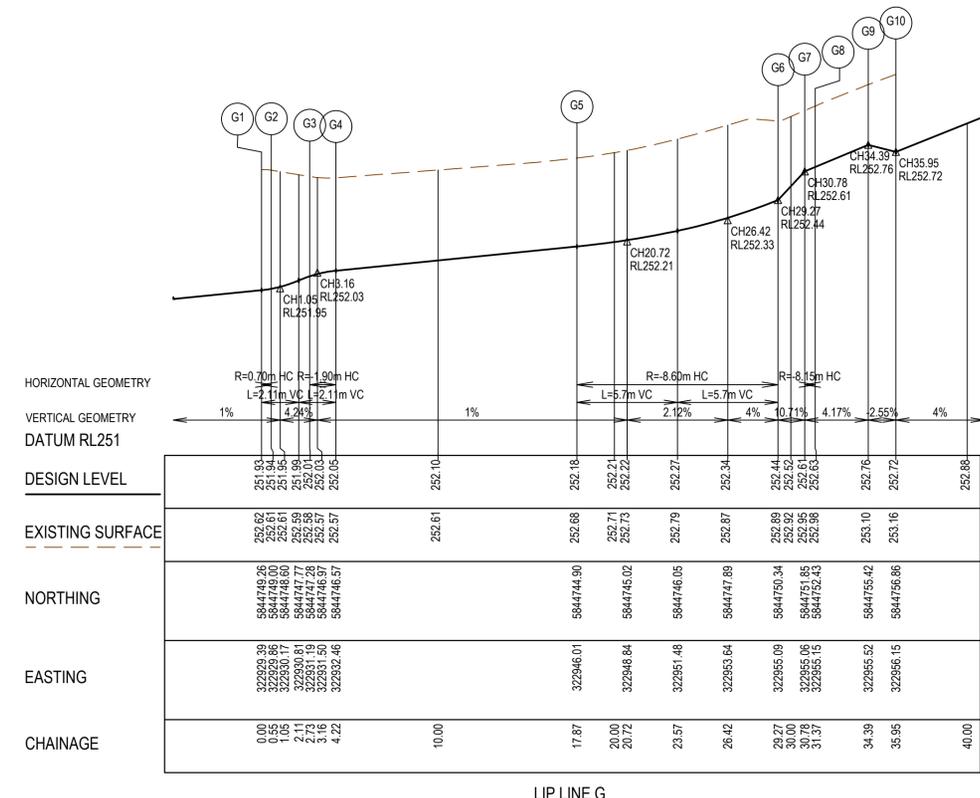
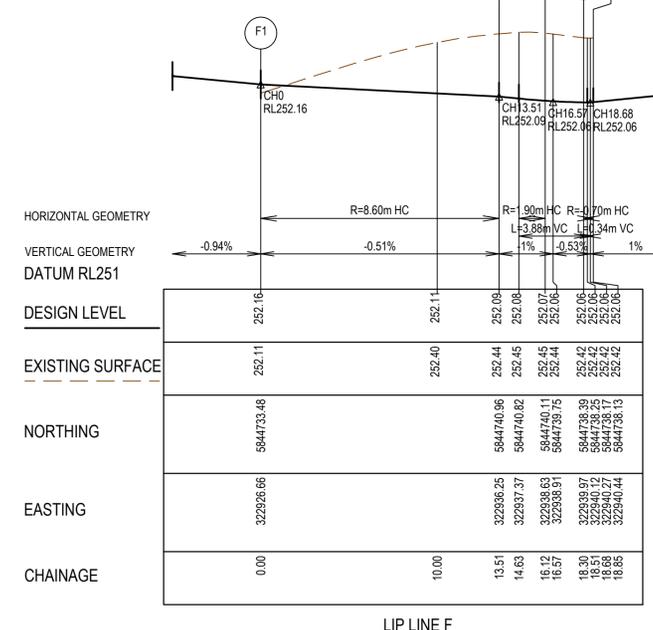
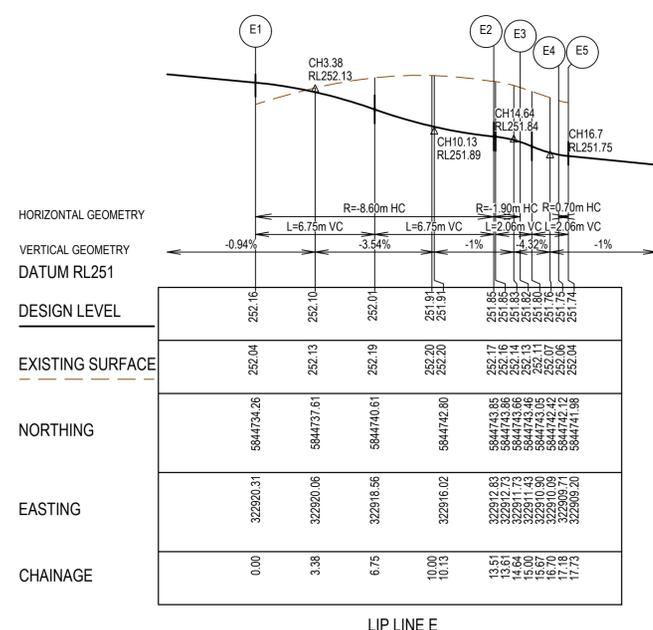
MELWAYS REF 367 G11	PROJECT / DRAWING No. 1700E-029-182	SHEET No. 07 of 27	REVISION 0
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**LEGEND - INTERSECTION DETAIL PLAN**  
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	FUTURE STORMWATER DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, 'NO ROAD' SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH

- NOTES**
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  - VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
  - INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS PART OF LANDSCAPE WORKS.
  - SHARE PATH THROUGH CREEK CORRIDOR TO FORM PART OF LANDSCAPE WORKS.



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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 Environmental Management - ISO 14001

PLAN OF SUB. NO. PS913459H  
 PERMIT REF. NO. 719067

**ISSUED FOR CONSTRUCTION**

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 Scale H1:200, V1:20  
 SCALE AS SHOWN AT 1

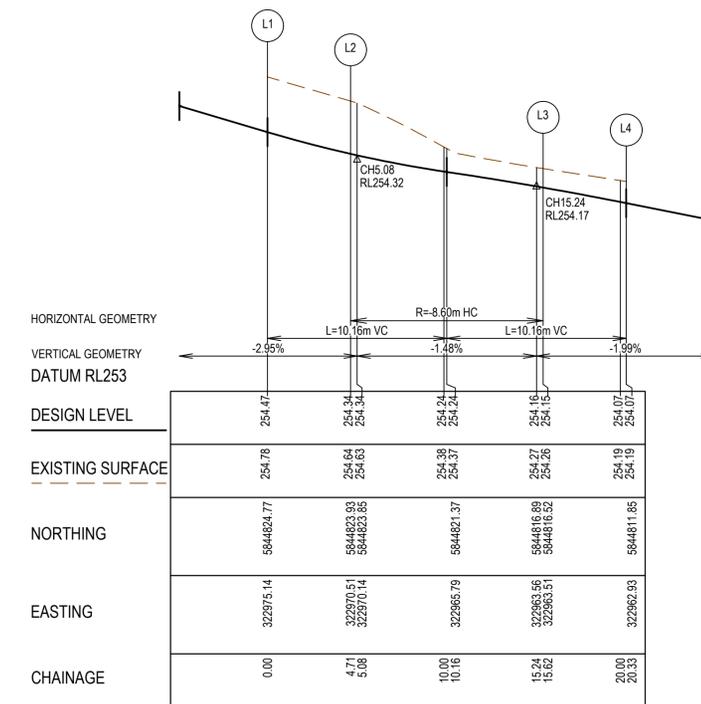
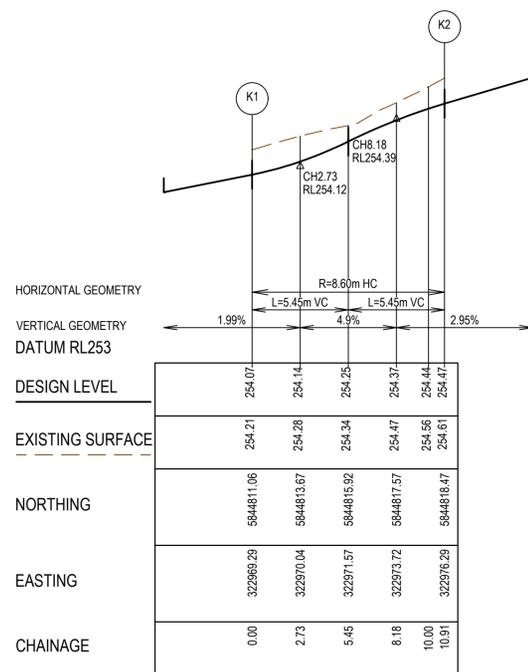
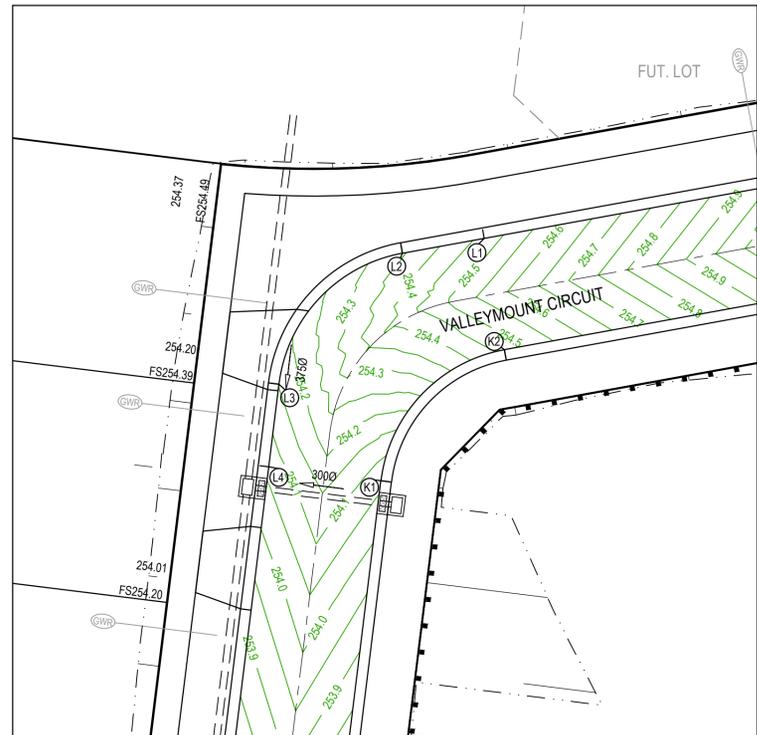
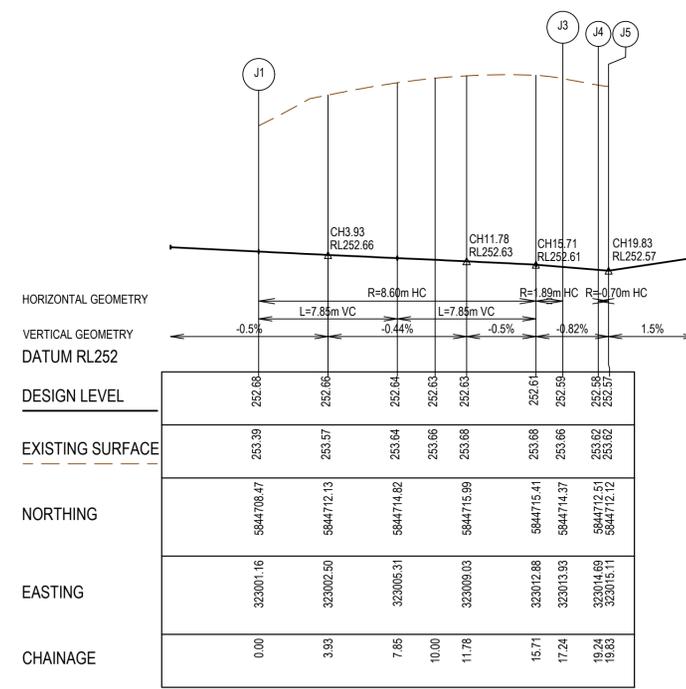
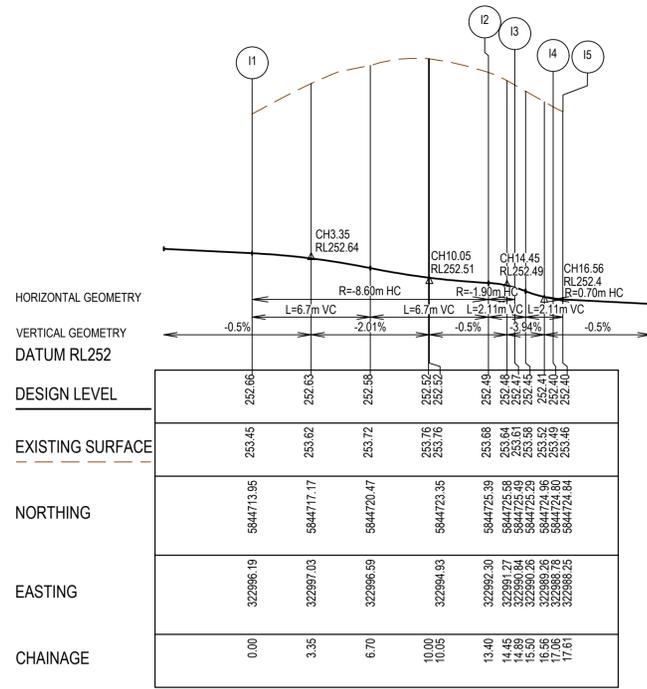
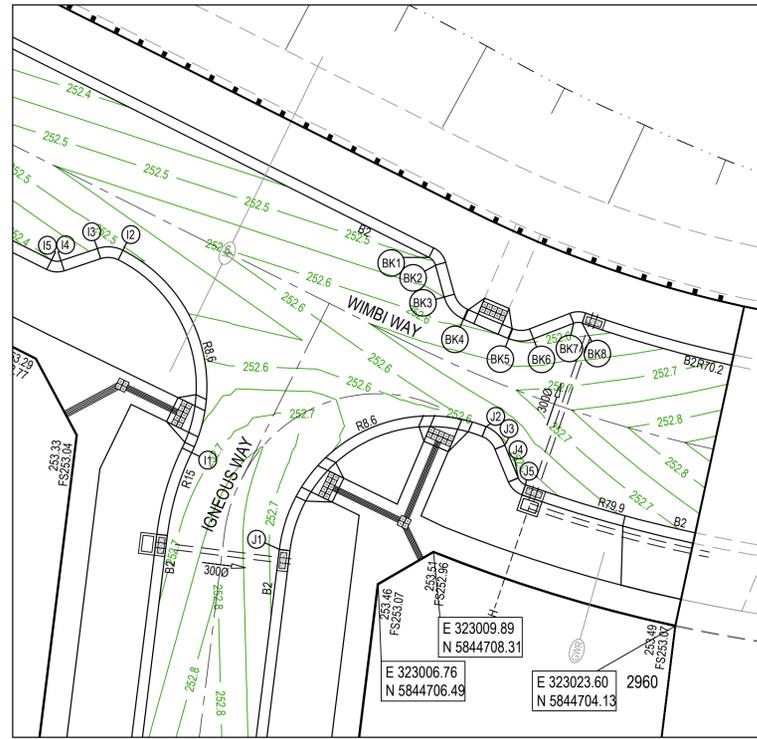
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Olivine Estate - Stage 29  
 Whittlesea City Council  
 Road and Drainage  
 Intersection Detail Plan

MELWAYS REF 367 G11 PROJECT / DRAWING No 1700E-029-183 SHEET No 08 of 27 REVISION 0



**LEGEND - INTERSECTION DETAIL PLAN**  
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, 'NO ROAD' SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH

- NOTES**
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  - SHARE PATH THROUGH CREEK CORRIDOR TO FORM PART OF LANDSCAPE WORKS.

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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 OHS Management - AS/NZS 4801  
 Environmental Management - ISO 14001

PLAN OF SUB. NO. PS913459H  
 PERMIT REF. NO. 719067

**ISSUED FOR CONSTRUCTION**

Scale 1:200  
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 SCALE AS SHOWN AT A1

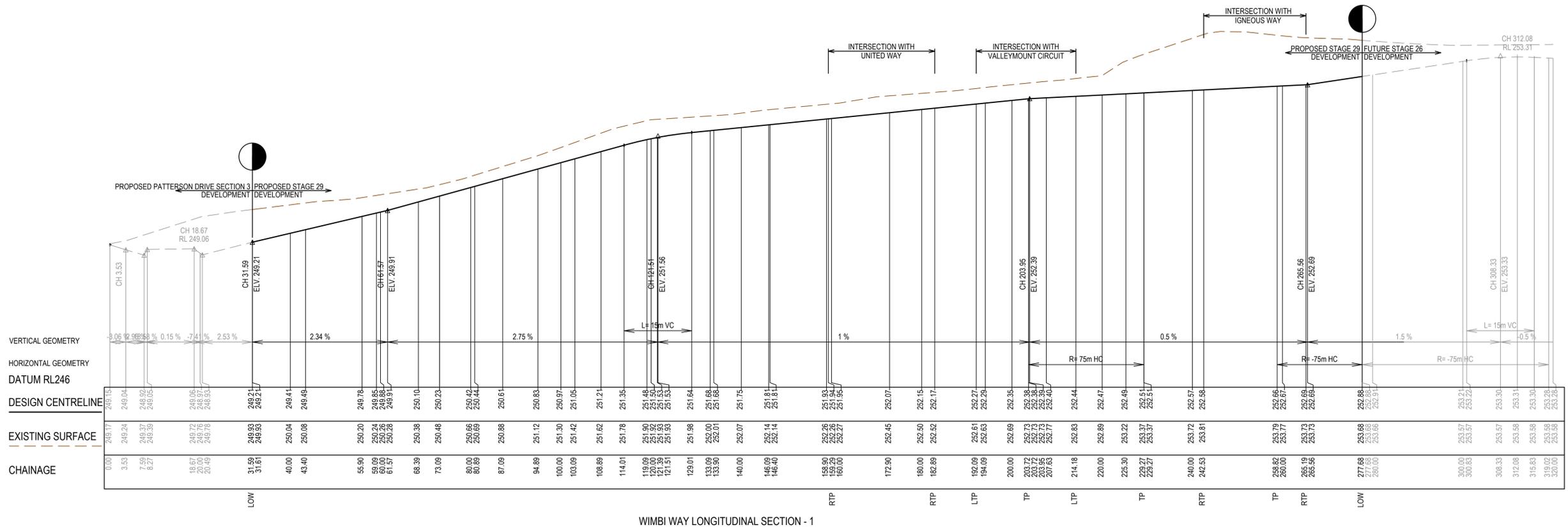
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 Melbourne, VIC 3008  
 Ph 03 9514 1900

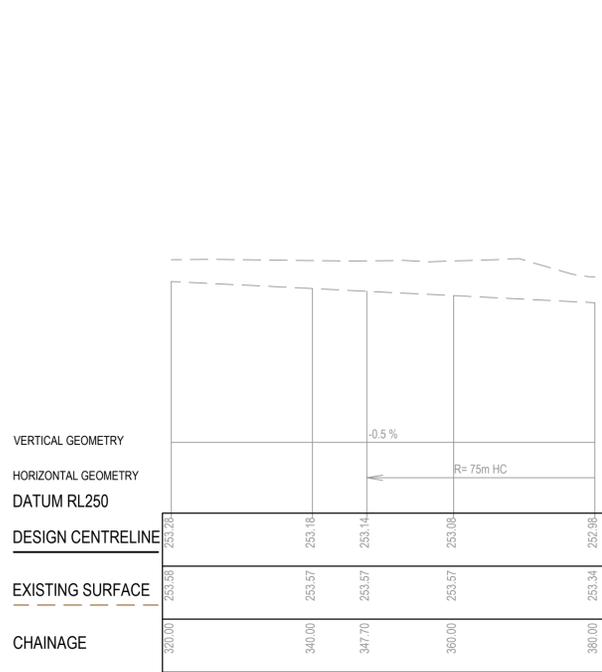
**mirvac**

Olivine Estate - Stage 29  
 Whittlesea City Council  
 Road and Drainage  
 Intersection Detail Plan

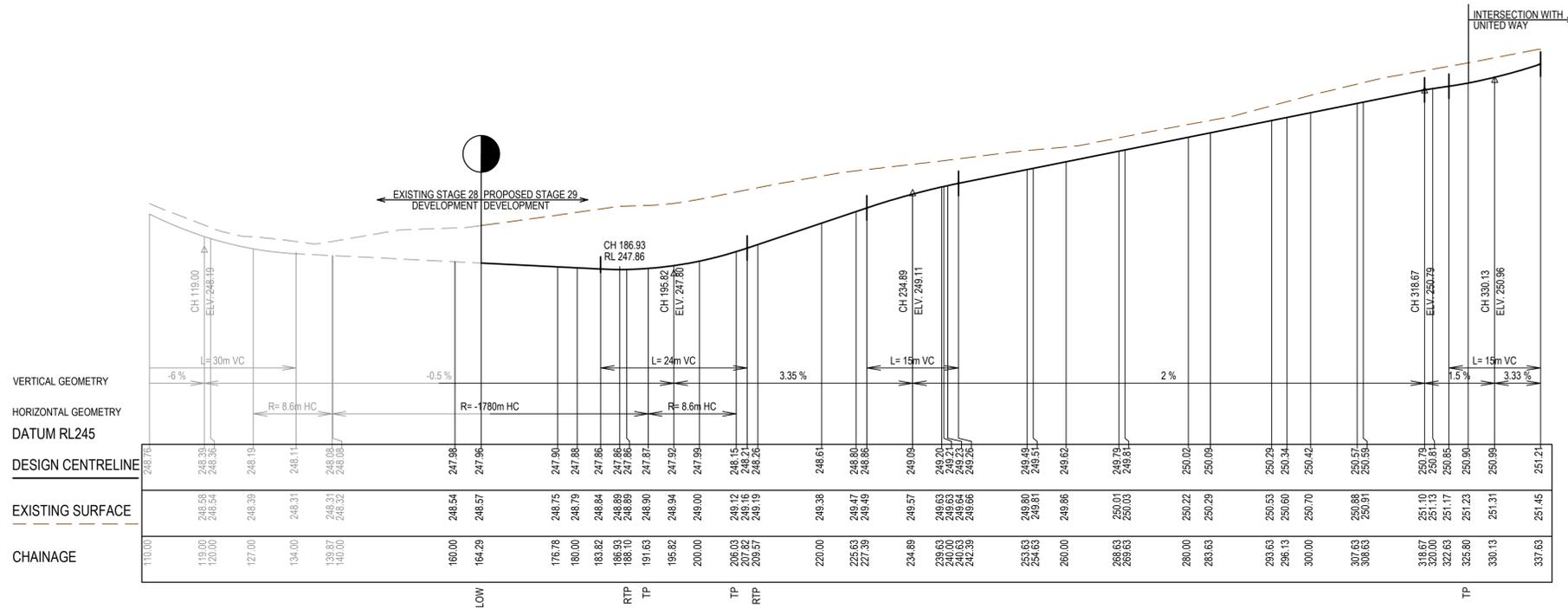
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 PROJECT / DRAWING No 1700E-029-184  
 SHEET No 09 of 27  
 REVISION 0



WIMBI WAY LONGITUDINAL SECTION - 1



WIMBI WAY LONGITUDINAL SECTION - 2

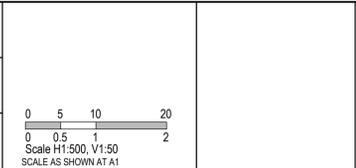


WICKLOW CRESCENT LONGITUDINAL SECTION

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

PLAN OF SUB. NO. PS913459H  
 PERMIT REF. NO. 719067

**ISSUED FOR CONSTRUCTION**



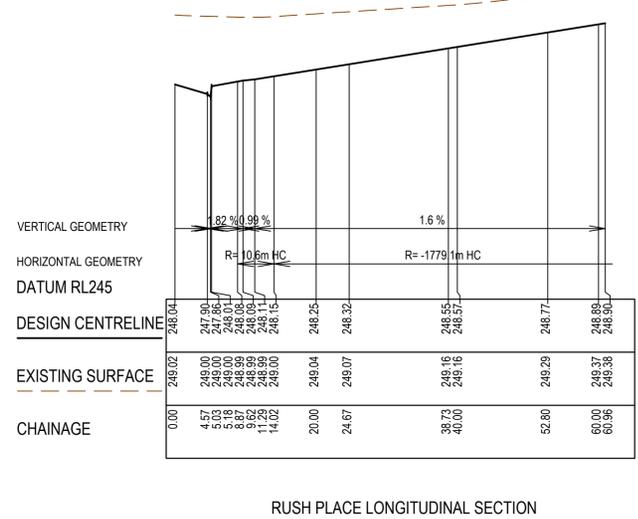
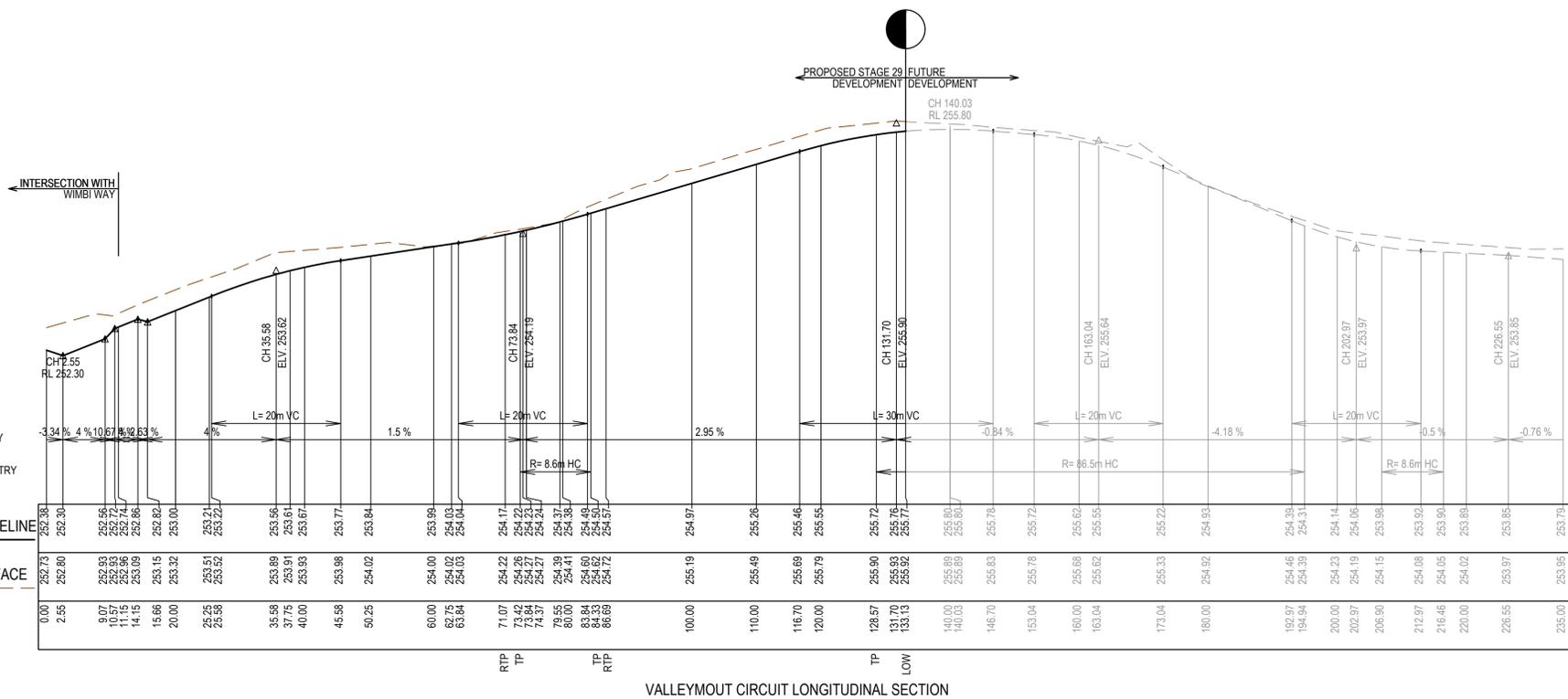
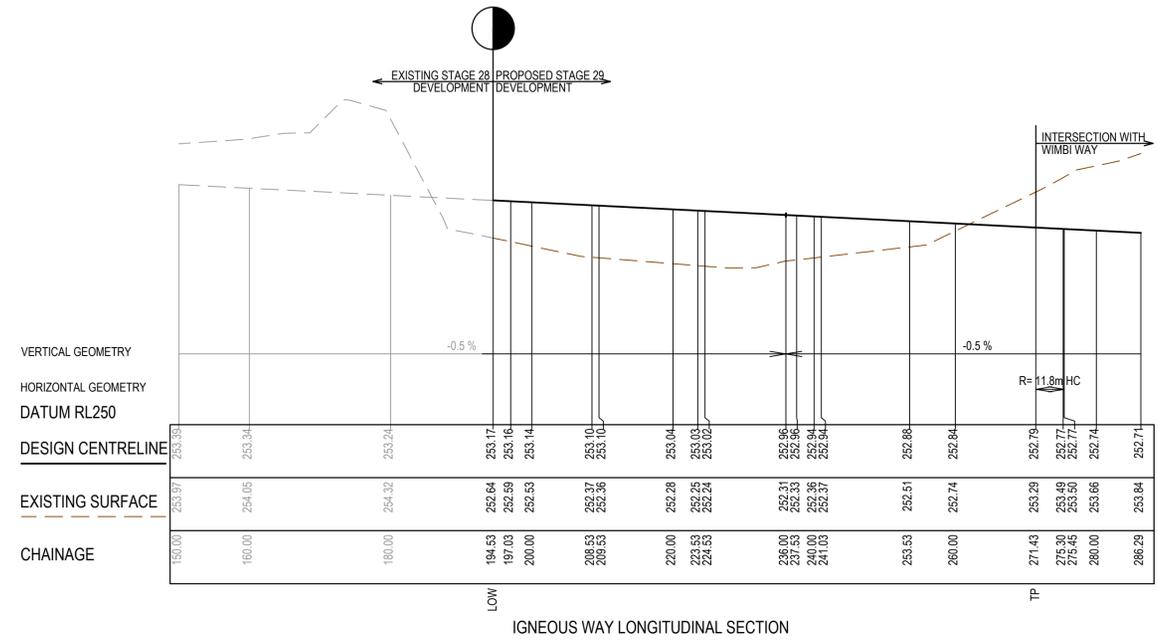
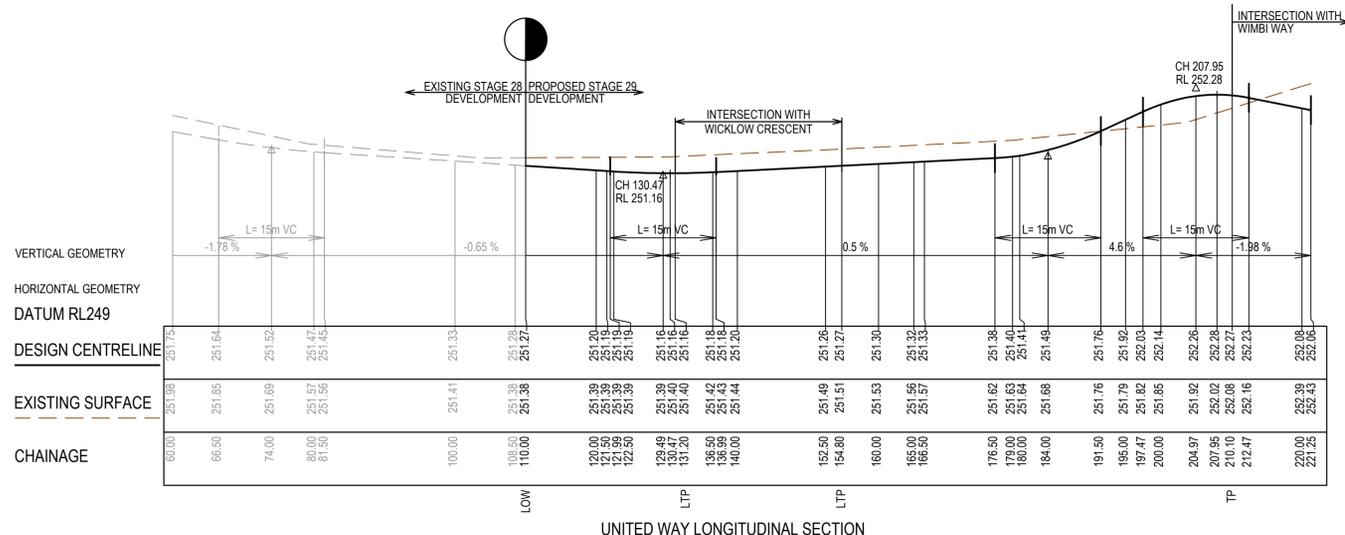
**smec**  
an company

Collins Square, Tower 4, Level 20, 727 Collins St  
Melbourne, VIC 3008  
Ph 03 9514 1500

**mirvac**

Olivine Estate - Stage 29  
Whittlesea City Council  
Road and Drainage  
Longitudinal Sections - 1

MELWAYS REF <b>367 G11</b>	PROJECT / DRAWING No. <b>1700E-029-201</b>	SHEET No. <b>10 of 27</b>	REVISION <b>0</b>
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REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

Quality Management - ISO 9001  
OH&S Management - AS/NZS 4801  
Environmental Management - ISO 14001

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**ISSUED FOR CONSTRUCTION**

PLAN OF SUB. NO. PS913459H  
PERMIT REF. NO. 719067

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Scale H1:500, V1:50  
SCALE AS SHOWN AT 1

**smec**  
an **st** company

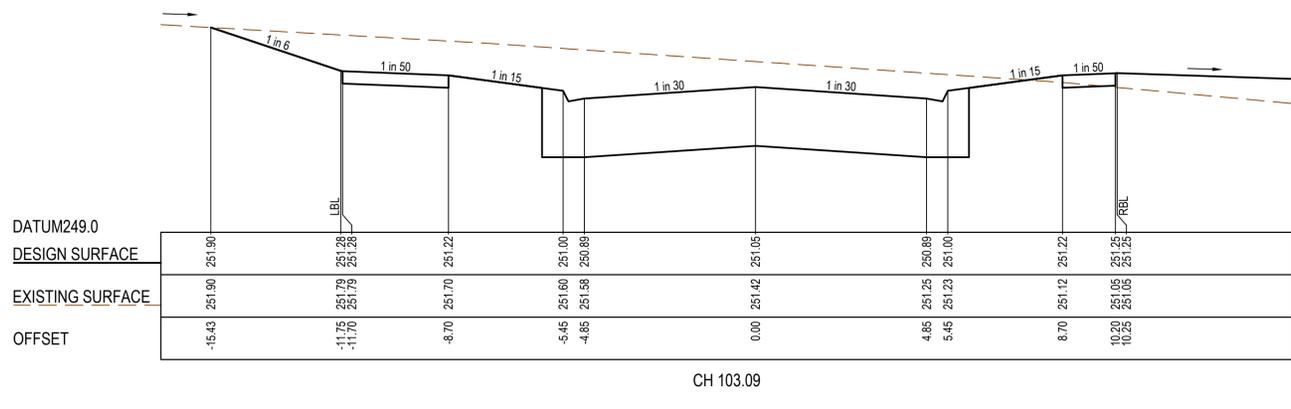
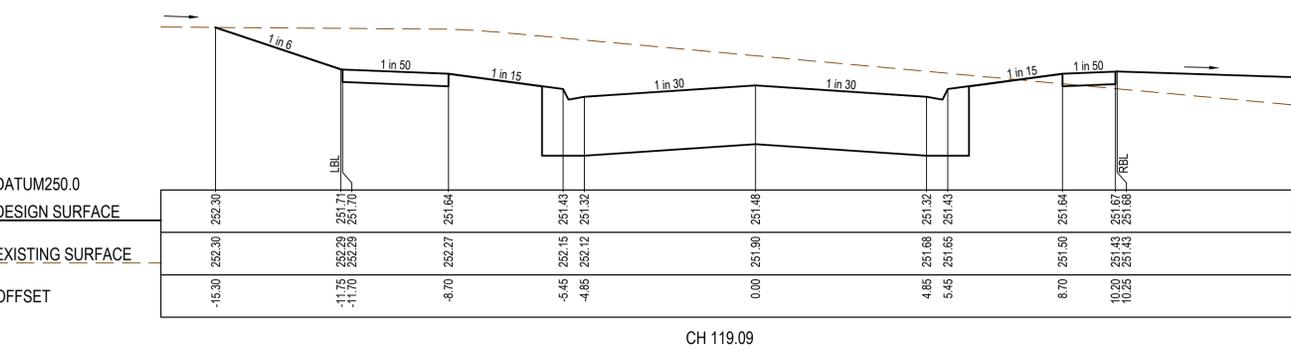
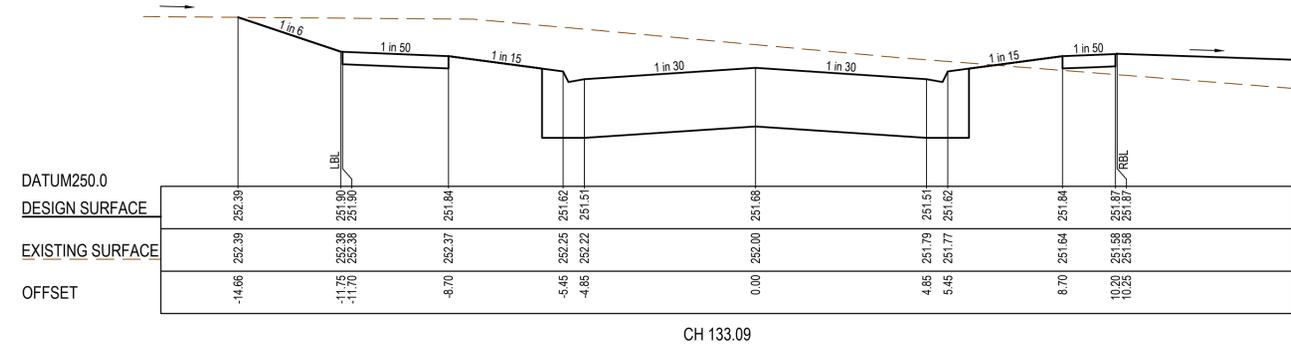
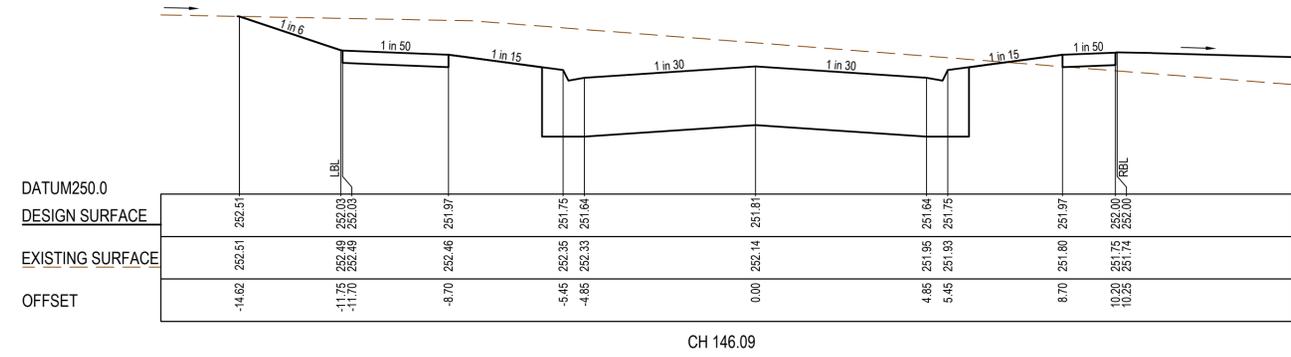
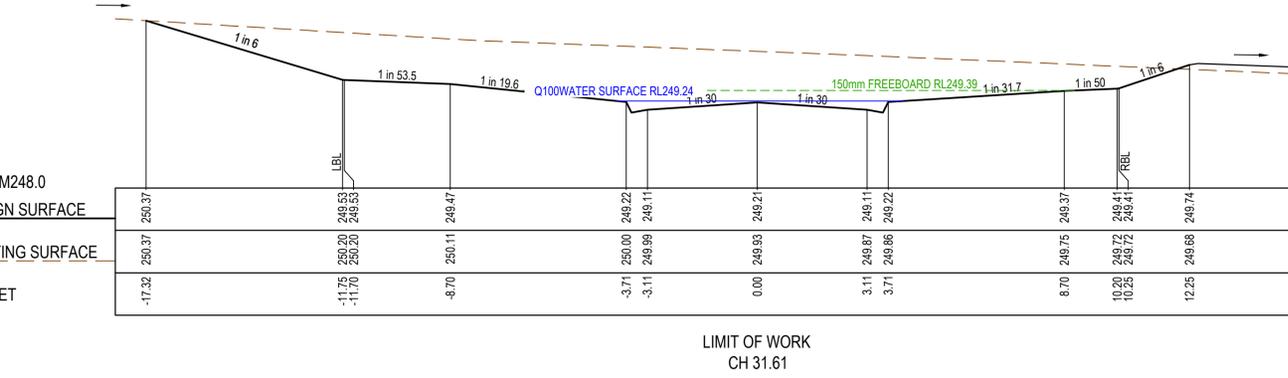
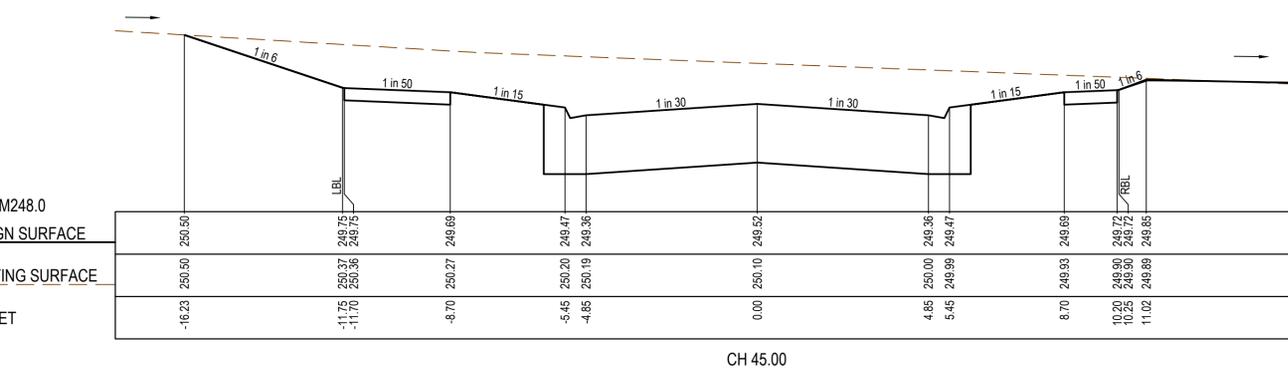
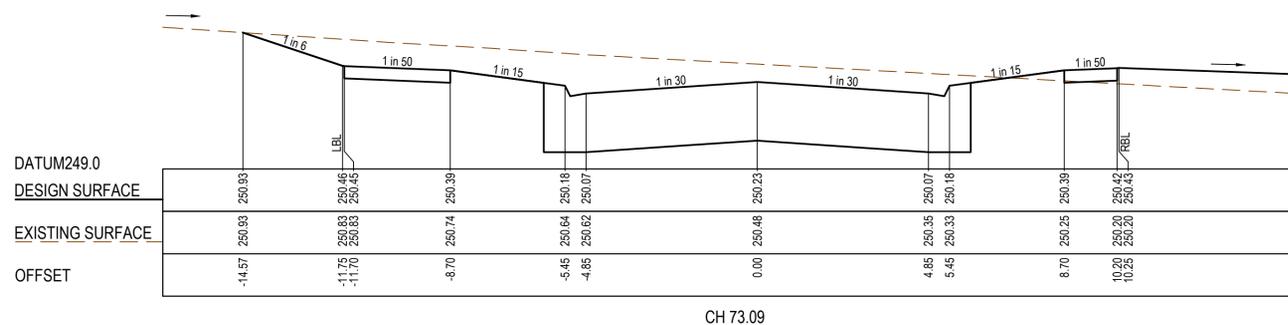
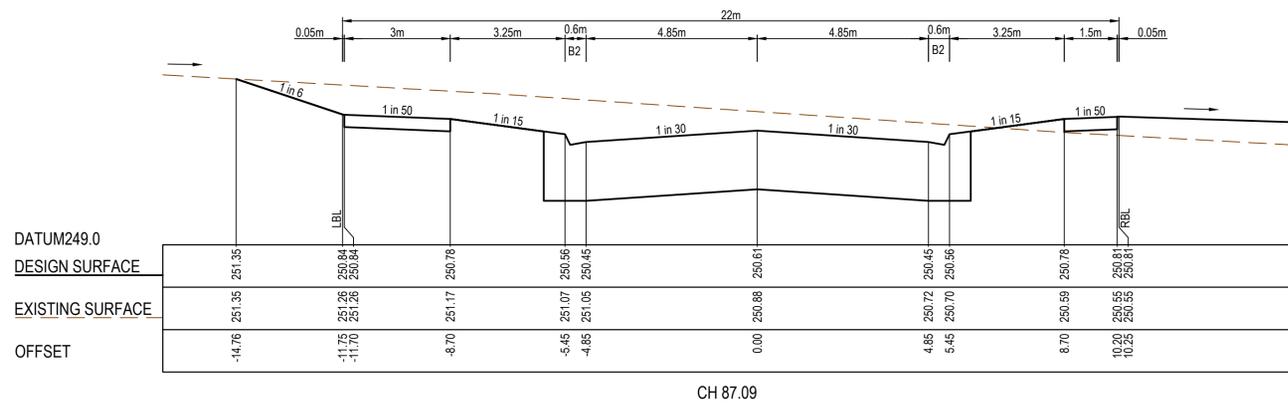
Collins Square, Tower 4, Level 20, 727 Collins St  
Melbourne, VIC 3008  
Ph 03 9514 1500

**mirvac**

Olivine Estate - Stage 29  
Whittlesea City Council  
Road and Drainage  
Longitudinal Sections - 2

MELWAYS REF 367 G11 PROJECT / DRAWING No 1700E-029-202 SHEET No 11 of 27 REVISION 0

TYPE A STRUCTURAL FILL AT 45° ANGLE REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

PLAN OF SUB. NO. PS913459H  
 PERMIT REF. NO. 719067

**ISSUED FOR CONSTRUCTION**

Scale H1:100, V1:50  
 SCALE AS SHOWN AT A1

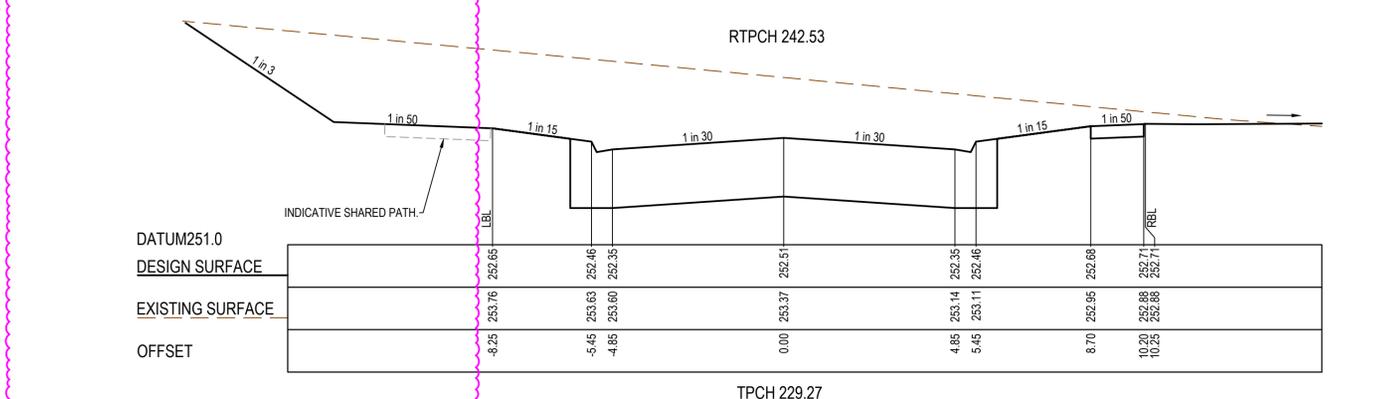
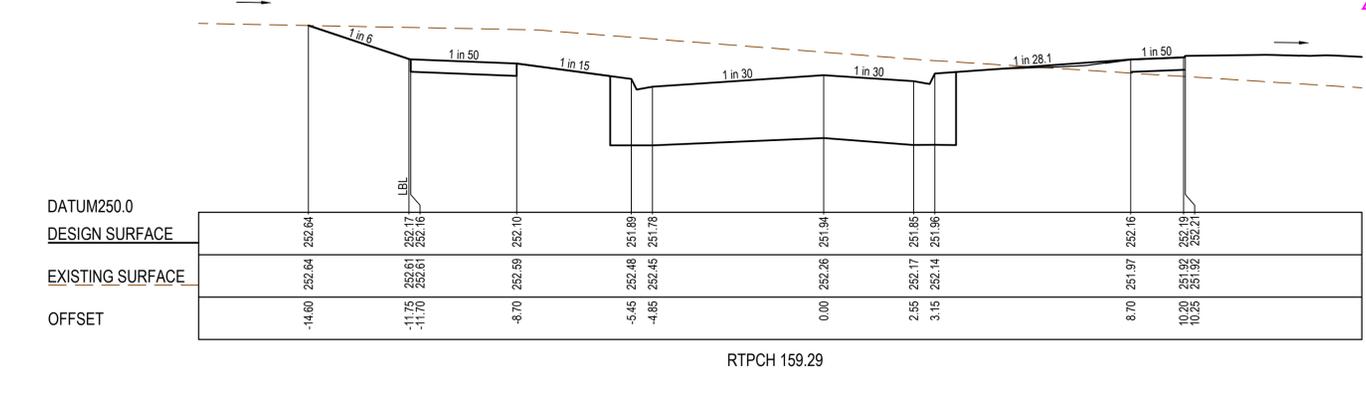
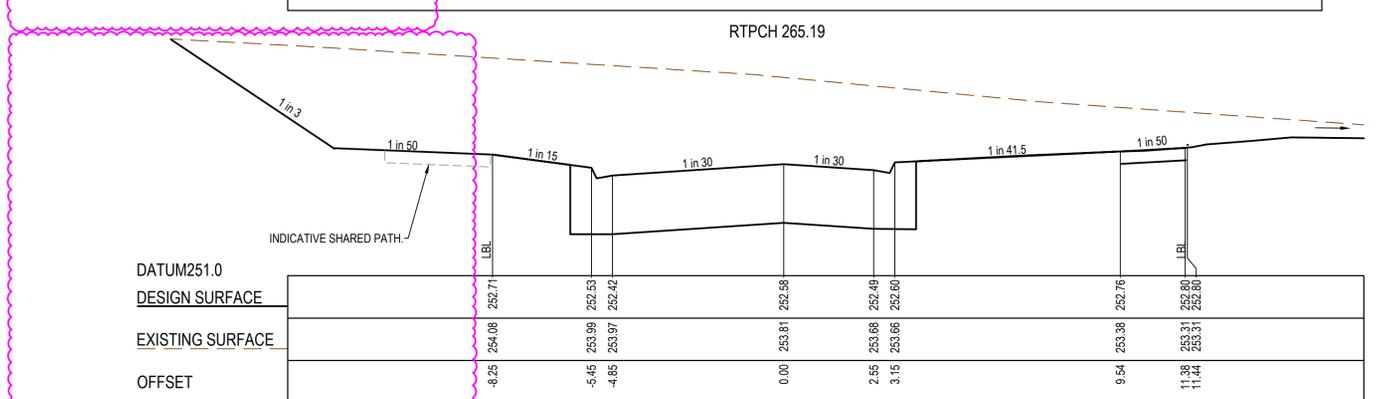
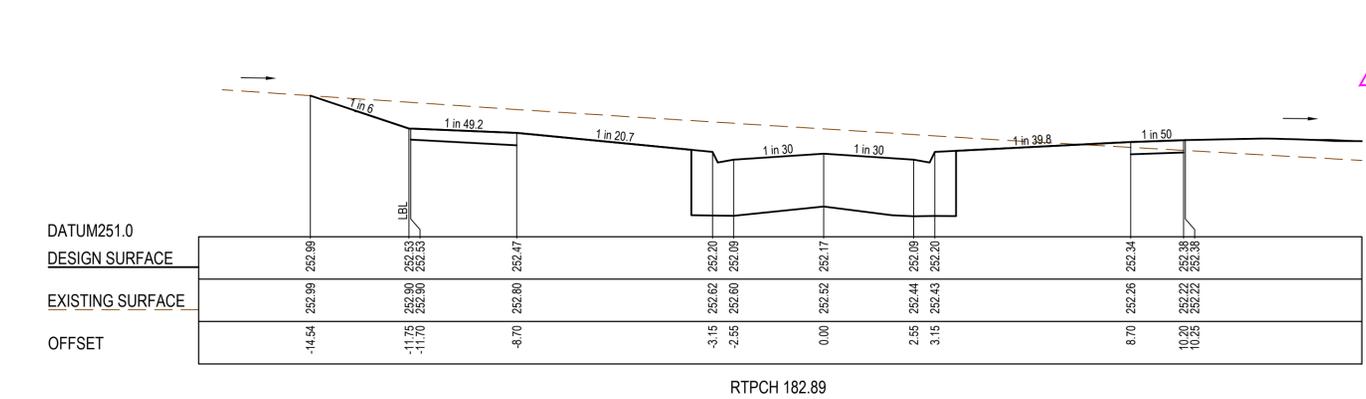
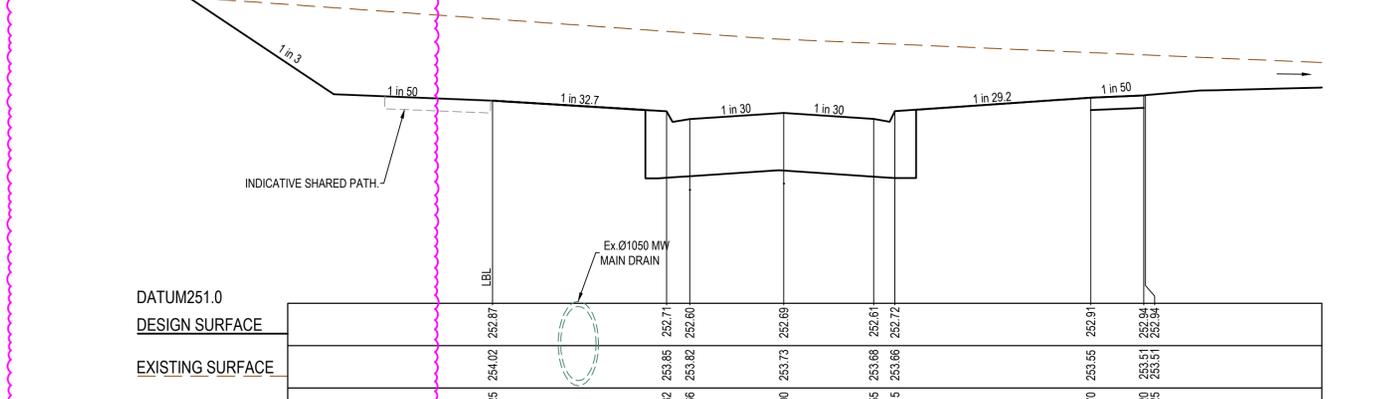
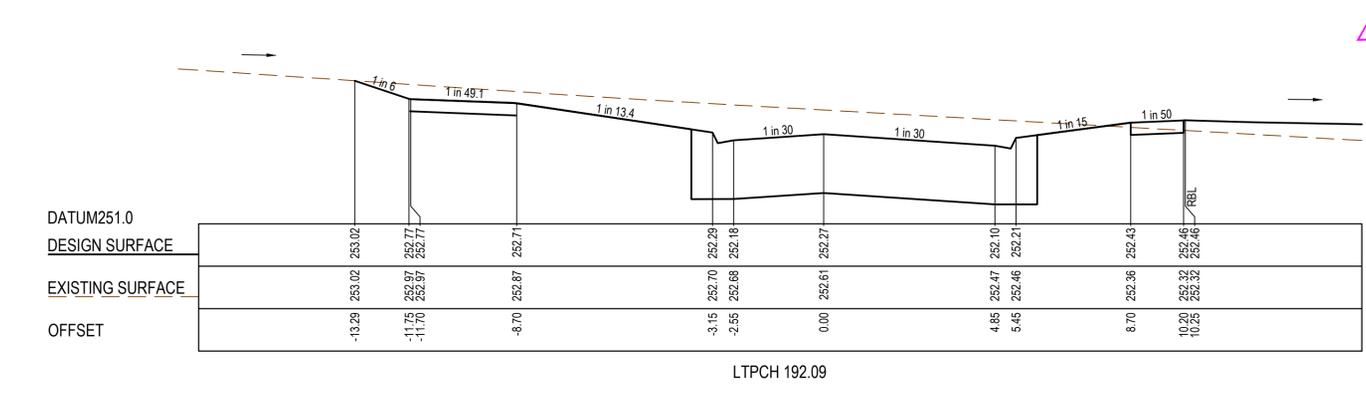
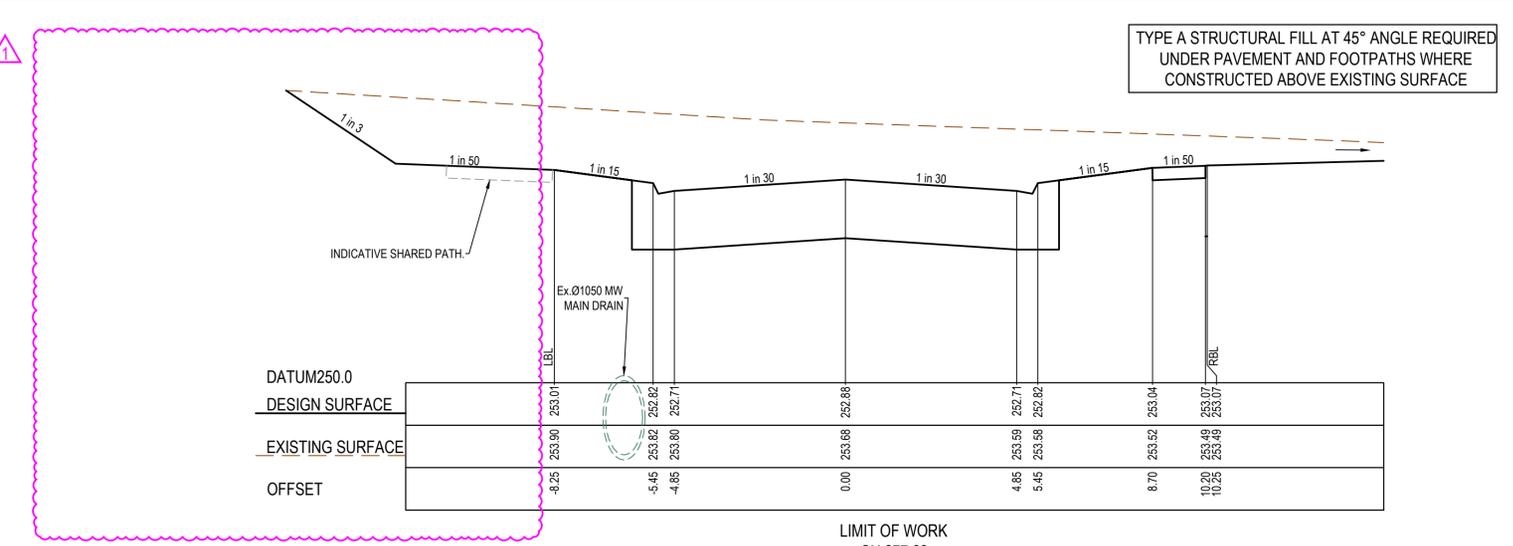
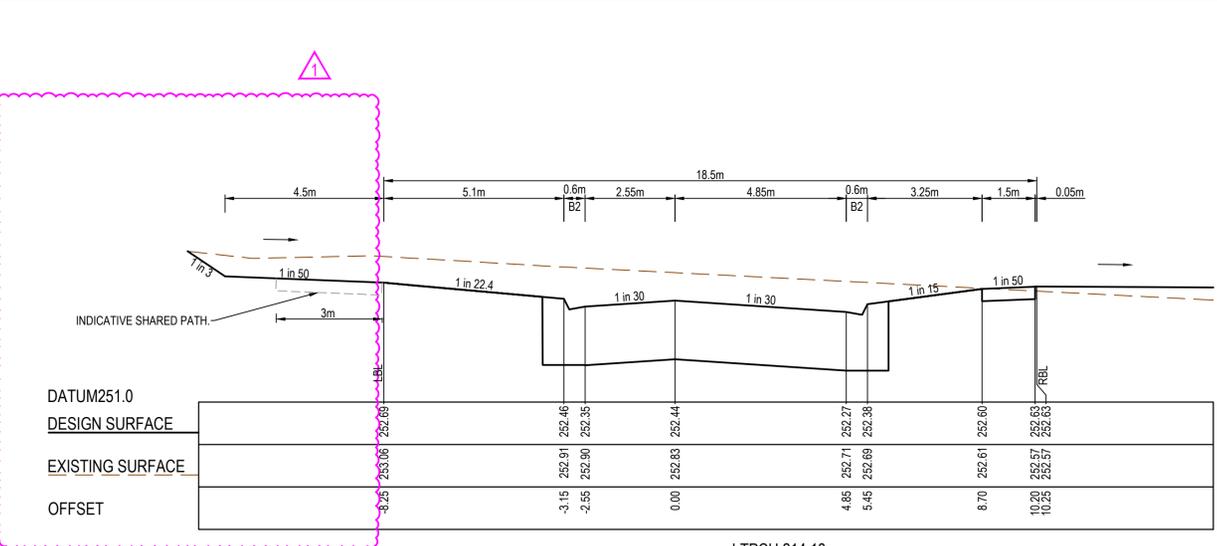
an sbs company

Collins Square, Tower 4, Level 20, 727 Collins St  
 Melbourne, VIC 3008  
 Ph 03 9514 1900

Olivine Estate - Stage 29  
 Whittlesea City Council  
 Road and Drainage  
 Cross Sections: Wimbi Way  
 Ch 31.61 - Ch 146.09

MELWAYS REF 367 G11	PROJECT / DRAWING No. 1700E-029-251	SHEET No. 12 of 27	REVISION 0
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TYPE A STRUCTURAL FILL AT 45° ANGLE REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	ABURROWS
1	27.10.25	INTERFACE WITH EXISTING SURFACE UPDATED	S.KHATIBI	C.PIERRE	T.MOTET	G.CORREIA

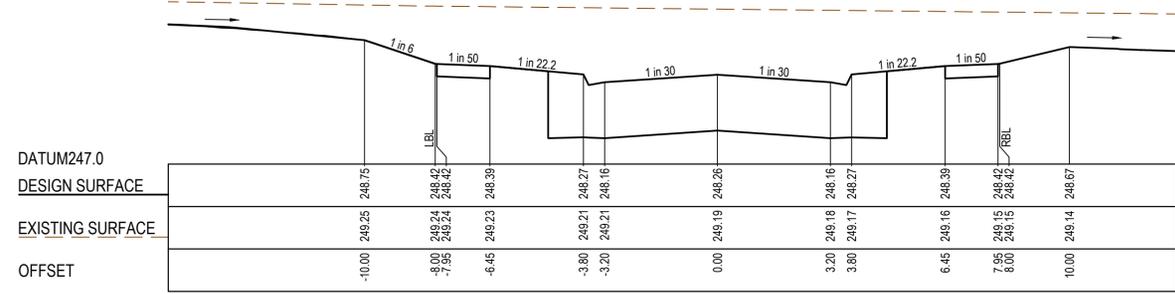
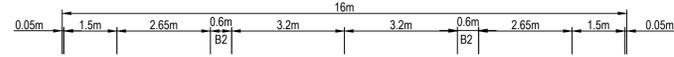
PLAN OF SUB. NO. PS913459H  
 PERMIT REF. NO. 719067  
**ISSUED FOR CONSTRUCTION**

an s3 company  
 Collins Square, Tower 4, Level 20, 727 Collins St  
 Melbourne, VIC 3008  
 Ph 03 9514 1500

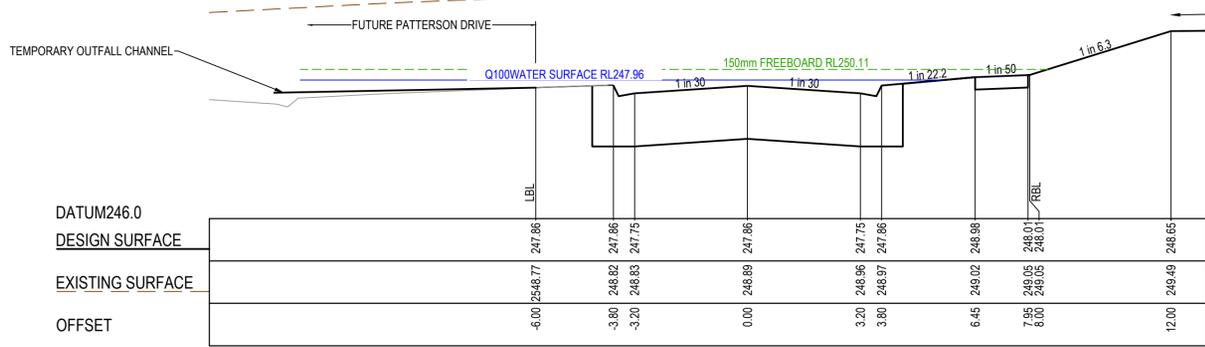
**Olivine Estate - Stage 29**  
 Whittlesea City Council  
 Road and Drainage  
 Cross Sections: Wimbi Way  
 Ch 159.29 - Ch 277.68

MELWAYS REF <b>367 G11</b>	PROJECT / DRAWING No. <b>1700E-029-252</b>	SHEET No. <b>13 of 27</b>	REVISION <b>1</b>
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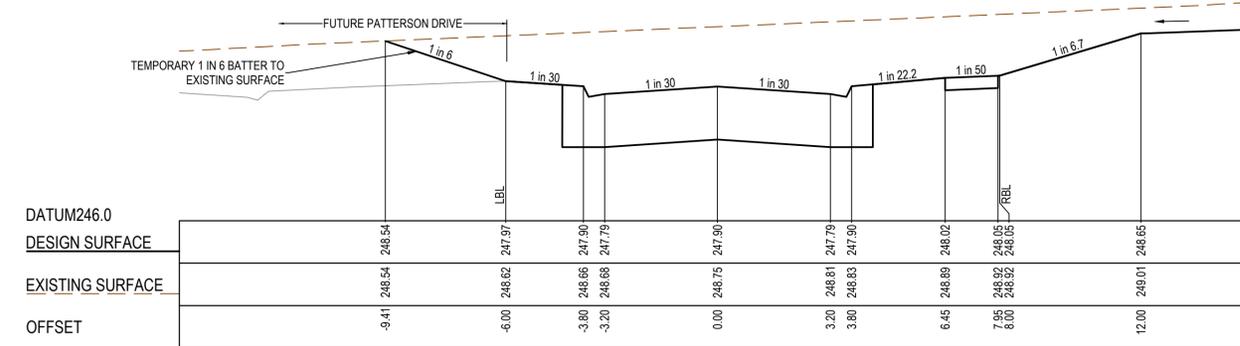
TYPE A STRUCTURAL FILL AT 45° ANGLE REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



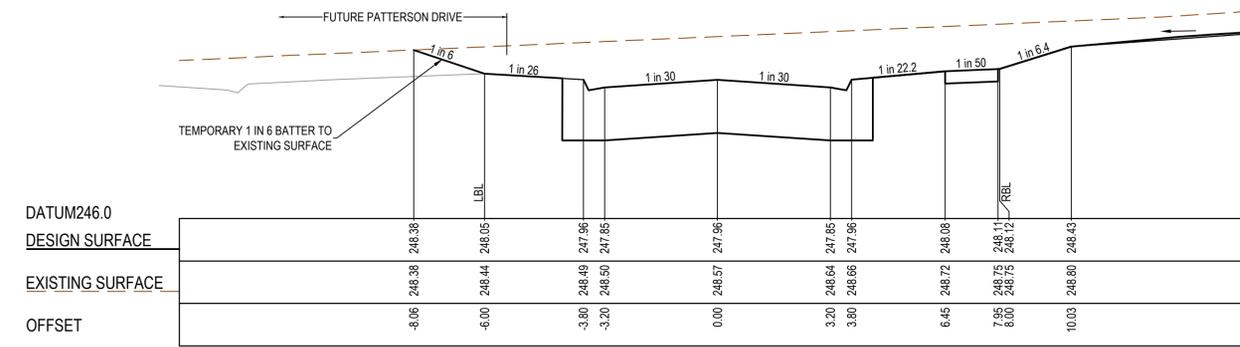
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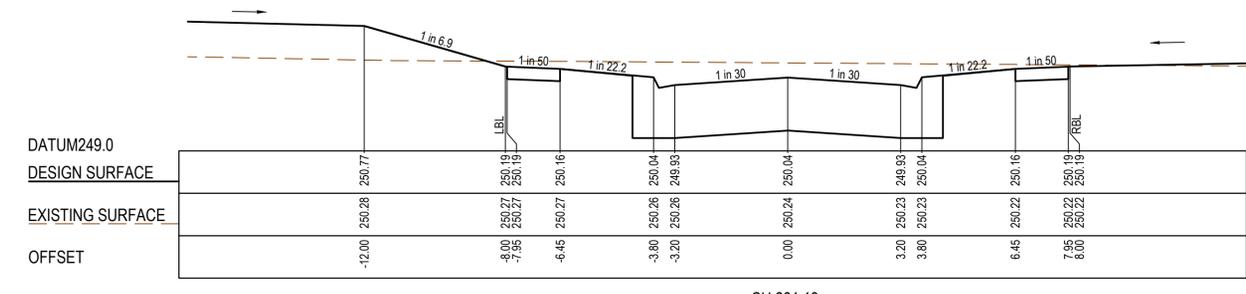
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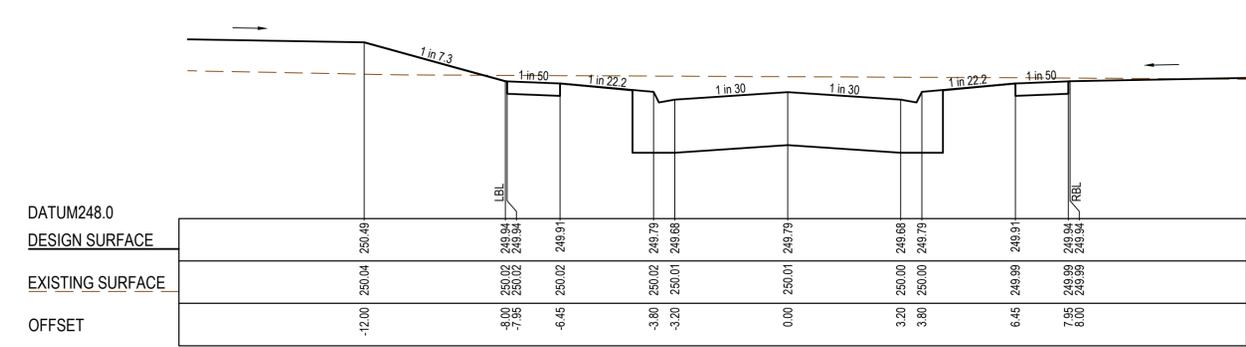
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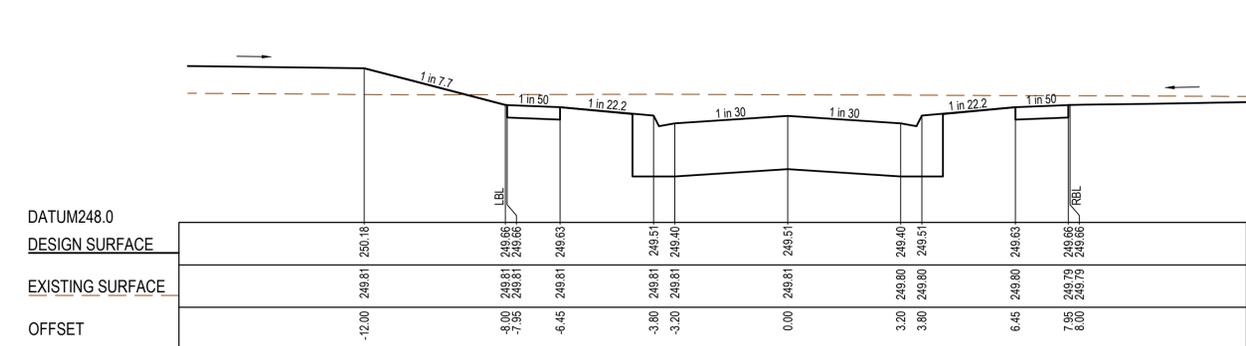
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CH 164.29



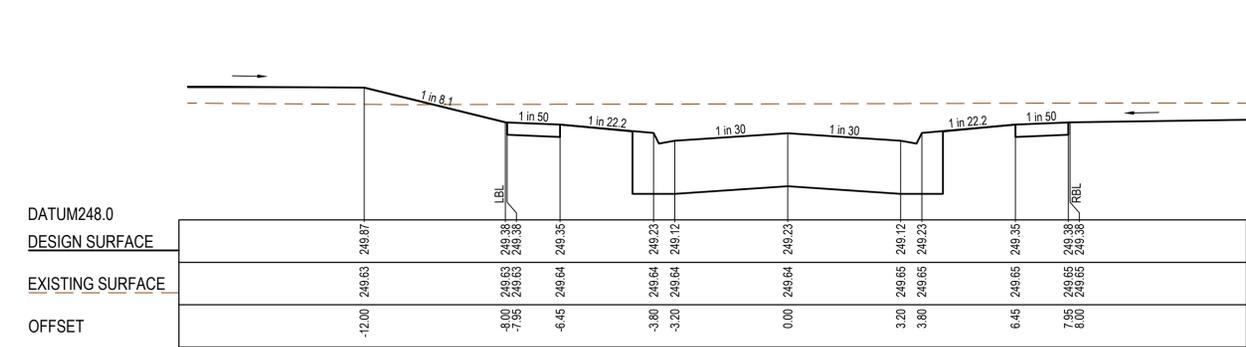
CH 281.13



CH 268.63



CH 254.63



CH 240.63

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

Quality Management - ISO 9001  
 OHS Management - AS/NZS 4801  
 Environmental Management - ISO 14001

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**ISSUED FOR CONSTRUCTION**

PLAN OF SUB. NO.  
PS913459H

PERMIT REF. NO.  
719067

0 1 2 4  
0 0.5 1 2  
Scale H1:100, V1:50  
SCALE AS SHOWN AT 1

**smec**  
an **st** company

Collins Square, Tower 4, Level 20, 727 Collins St  
Melbourne, VIC 3008  
Ph 03 9514 1500

**mirvac**

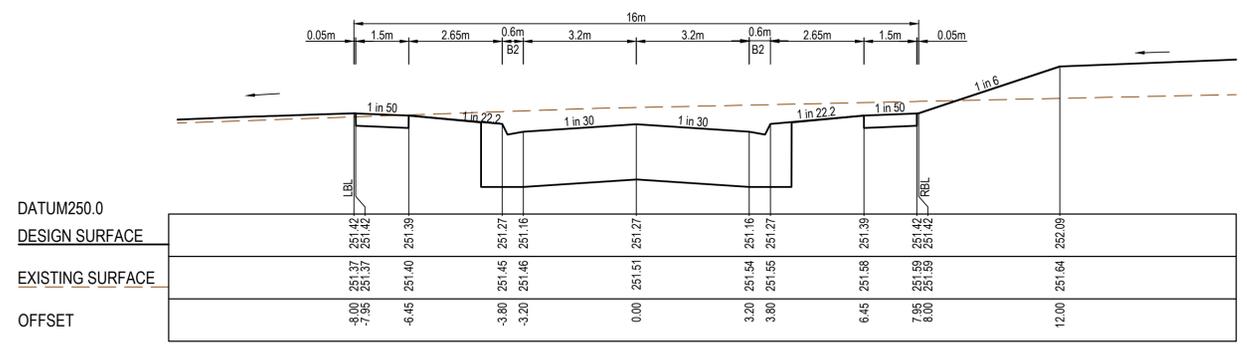
Olivine Estate - Stage 29  
Whittlesea City Council  
Road and Drainage  
Cross Sections: Wicklow Crescent  
Ch 164.29 - Ch 281.13

MELWAYS REF: 367 G11  
PROJECT / DRAWING No: 1700E-029-253

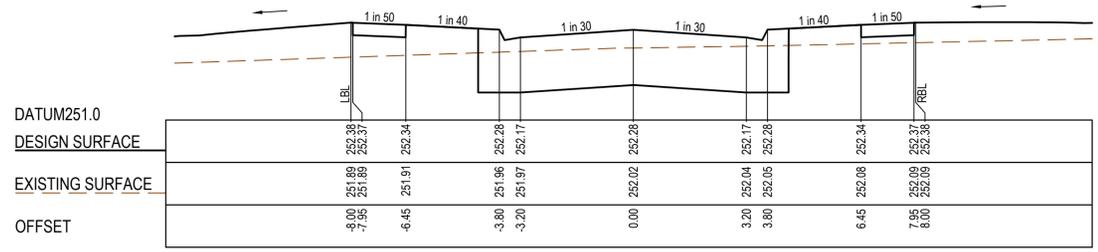
SHEET No: 14 of 27  
REVISION: 0



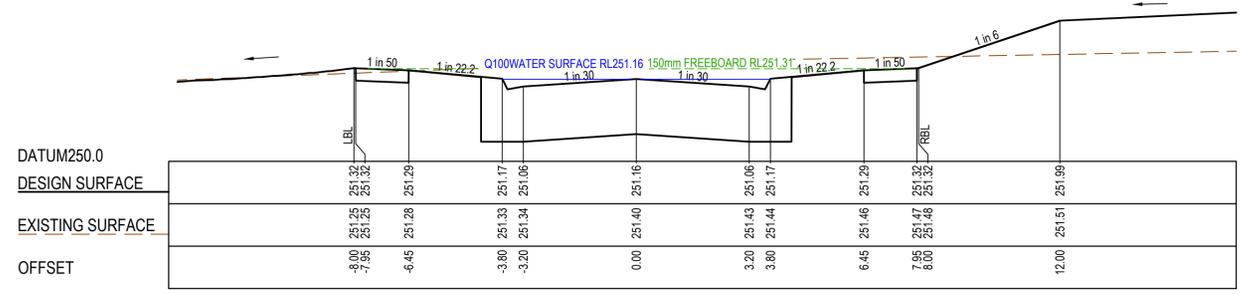
TYPE A STRUCTURAL FILL AT 45° ANGLE REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



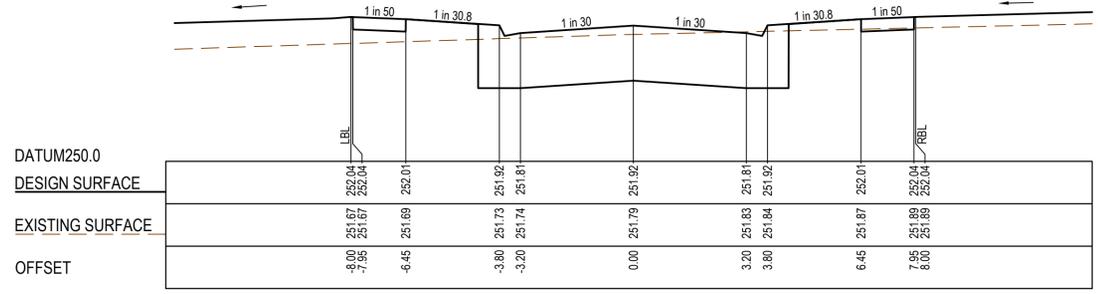
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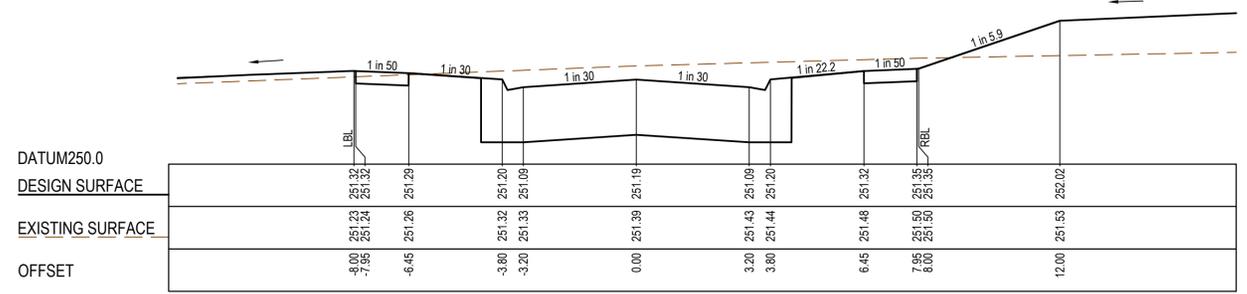
CH 208.00



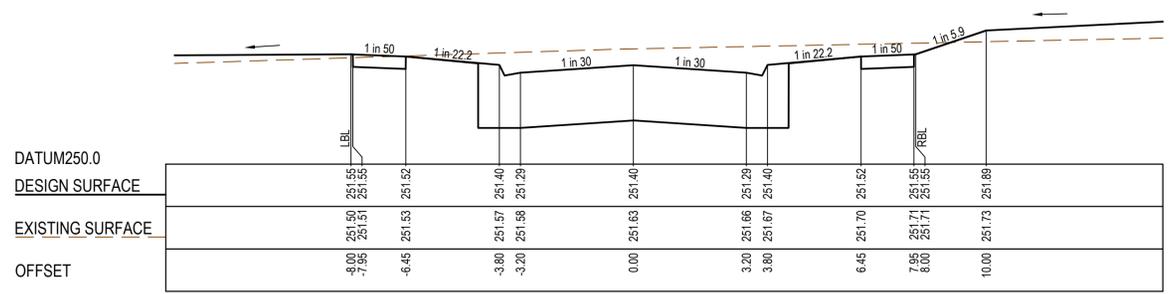
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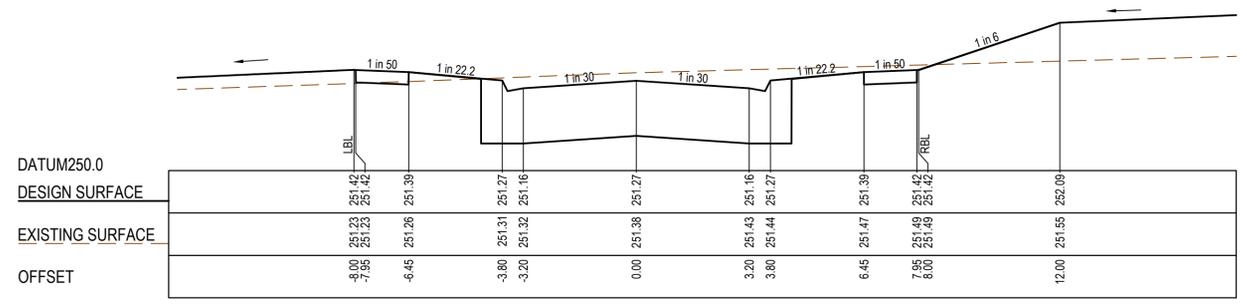
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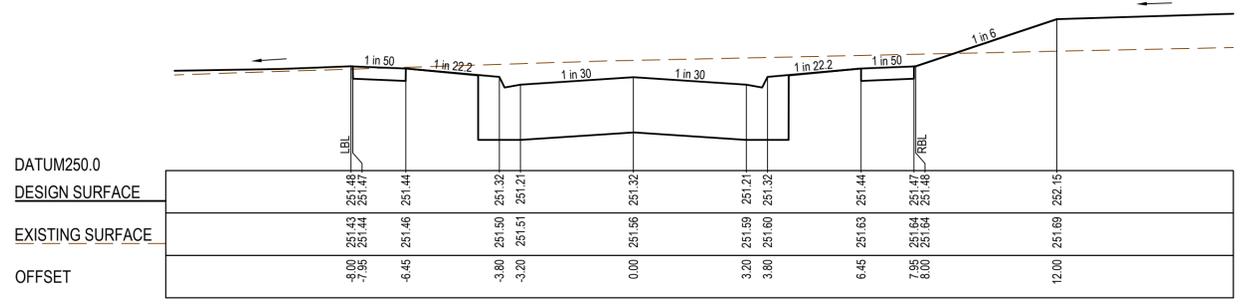
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CH 179.00



CH 110.00



CH 165.00

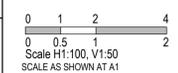
REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

Quality Management - ISO 9001  
 OHS Management - AS/NZS 4801  
 Environmental Management - ISO 14001

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**ISSUED FOR CONSTRUCTION**

PLAN OF SUB. NO. PS913459H  
 PERMIT REF. NO. 719067



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 Melbourne, VIC 3008  
 Ph 03 9514 1900

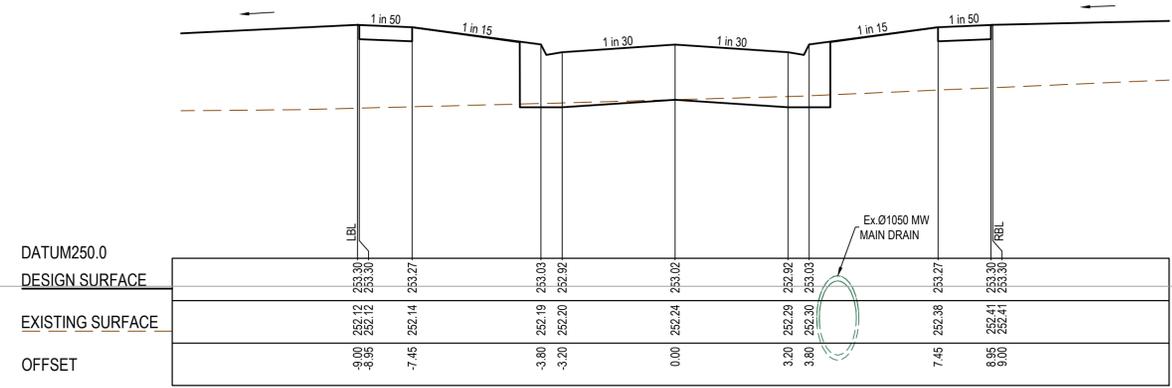
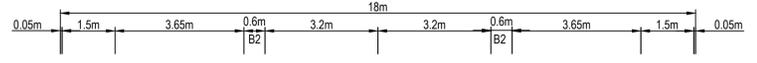
**mirvac**

Olivine Estate - Stage 29  
 Whittlesea City Council  
 Road and Drainage  
 Cross Sections: United Way  
 Ch 110.00 - Ch 208.00

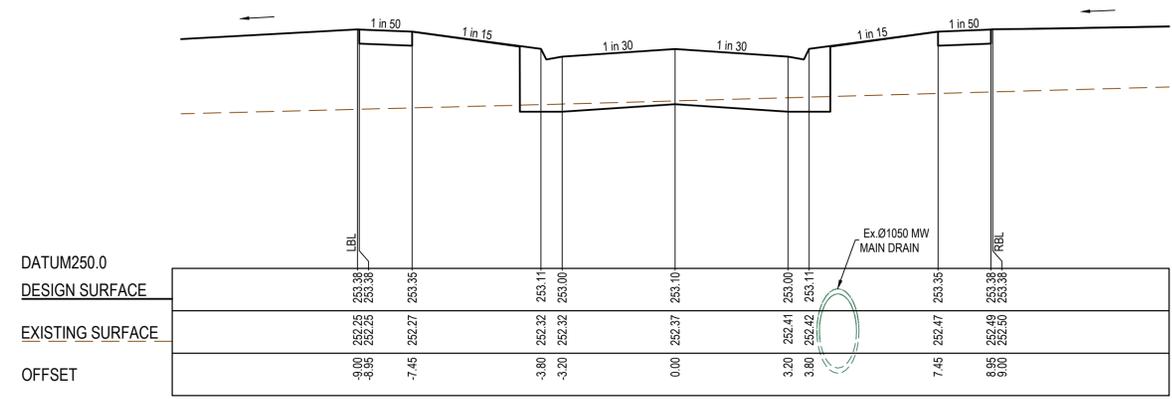
MELBOURNE REF 367 G11  
 PROJECT / DRAWING No. 1700E-029-255

SHEET No. 16 of 27  
 REVISION 0

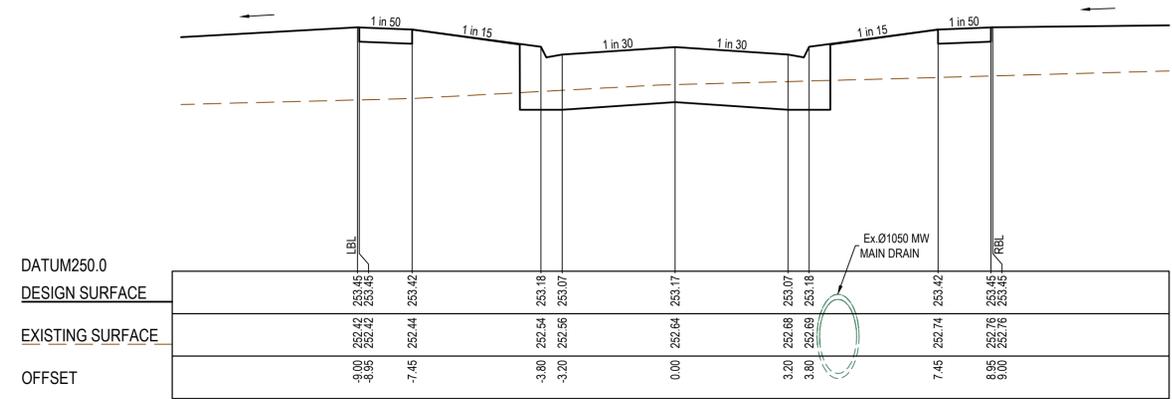
TYPE A STRUCTURAL FILL AT 45° ANGLE REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



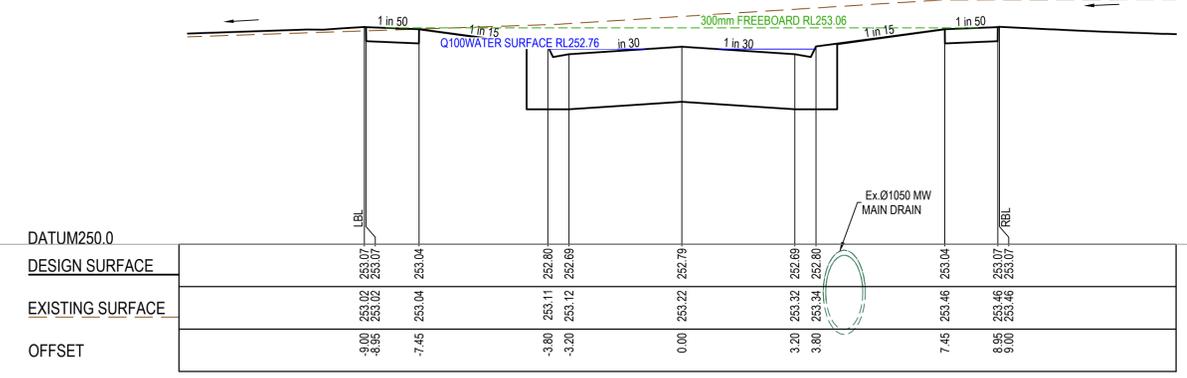
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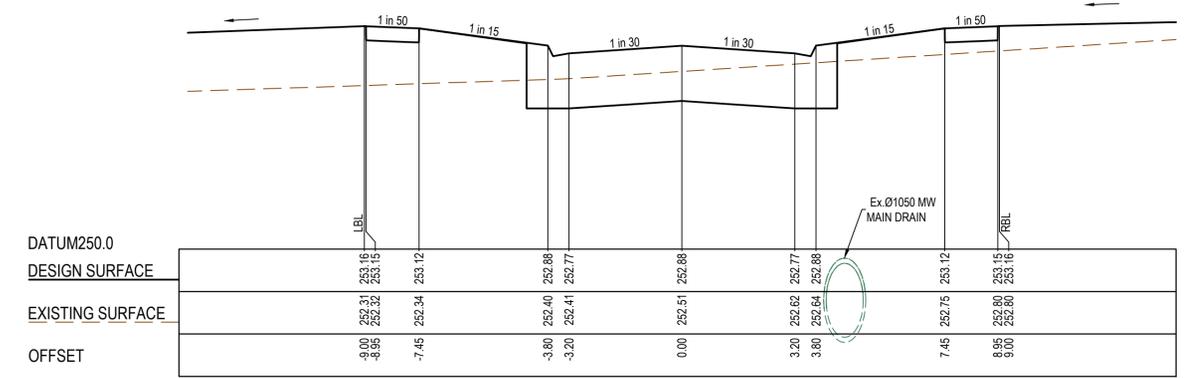
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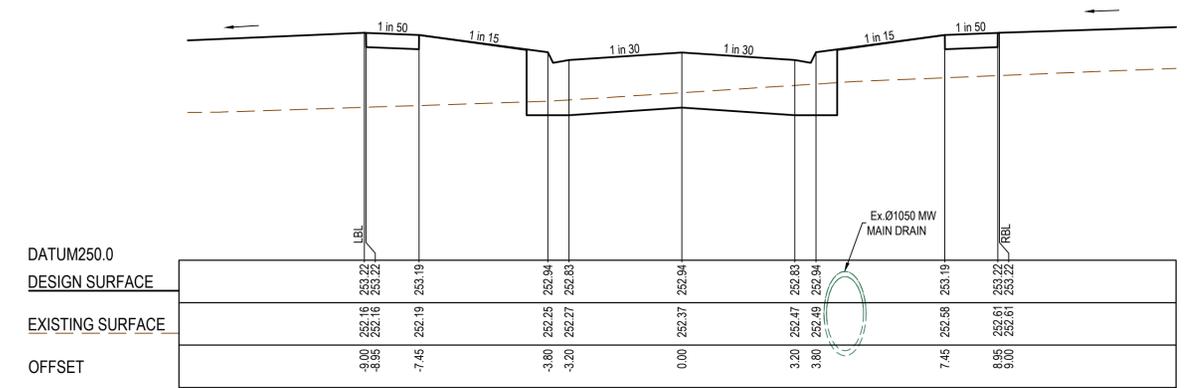
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CH 270.00



CH 253.53



CH 241.03

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

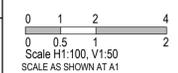
Quality Management - ISO 9001  
 OHS Management - AS/NZS 4500  
 Environmental Management - ISO 14001

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PLAN OF SUB. NO.  
PS913459H

PERMIT REF. NO.  
719067

**ISSUED FOR CONSTRUCTION**



**smec**  
an **st** company

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Melbourne, VIC 3008  
Ph 03 9514 1900

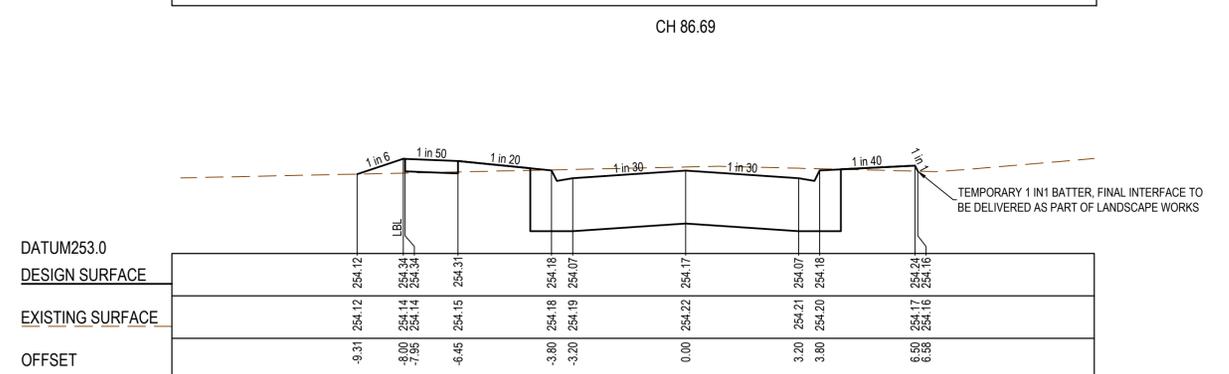
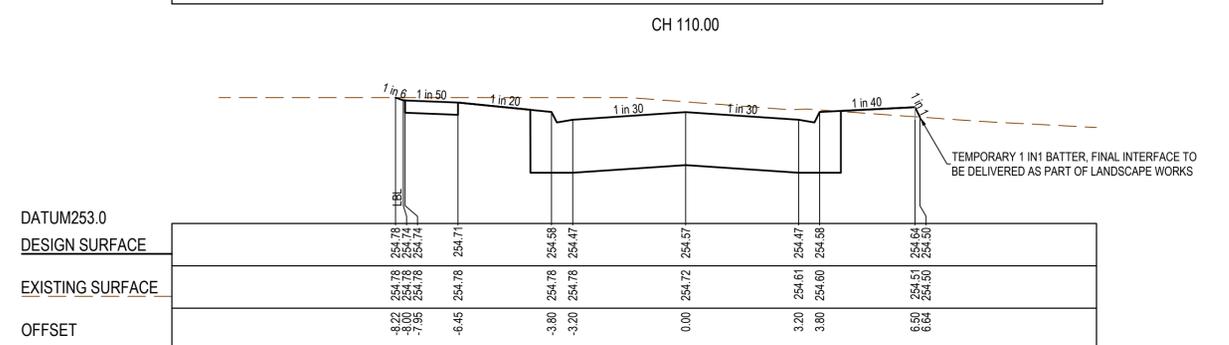
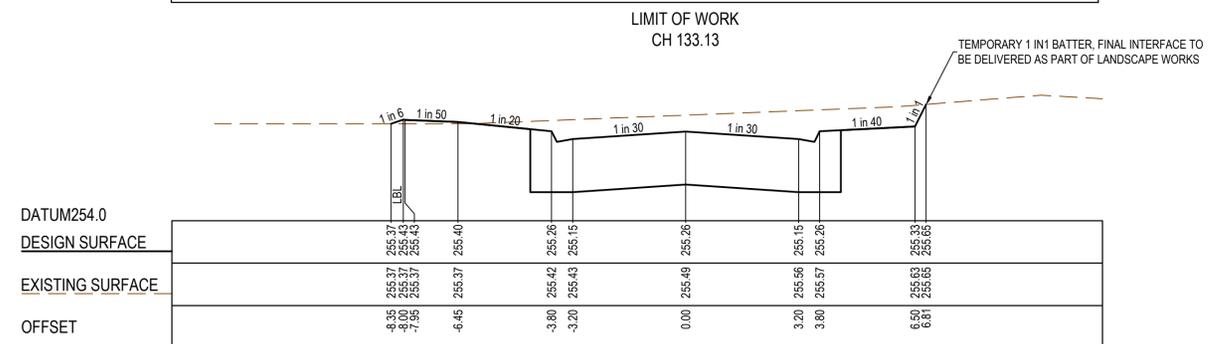
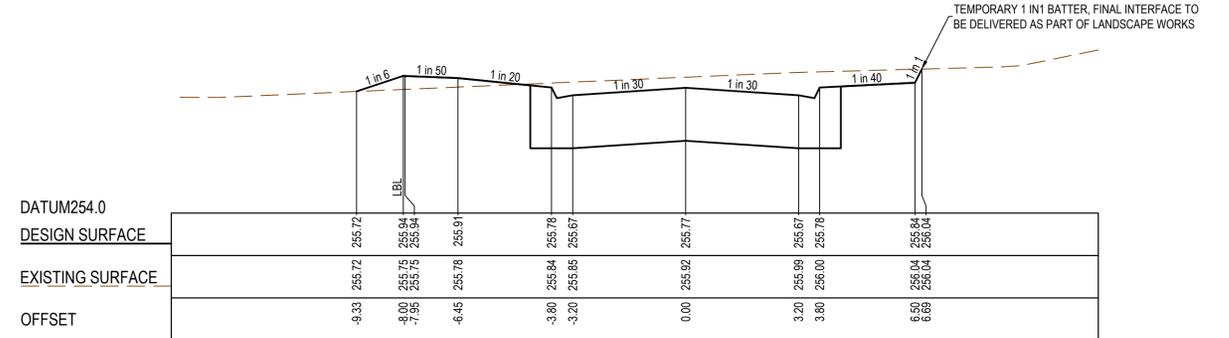
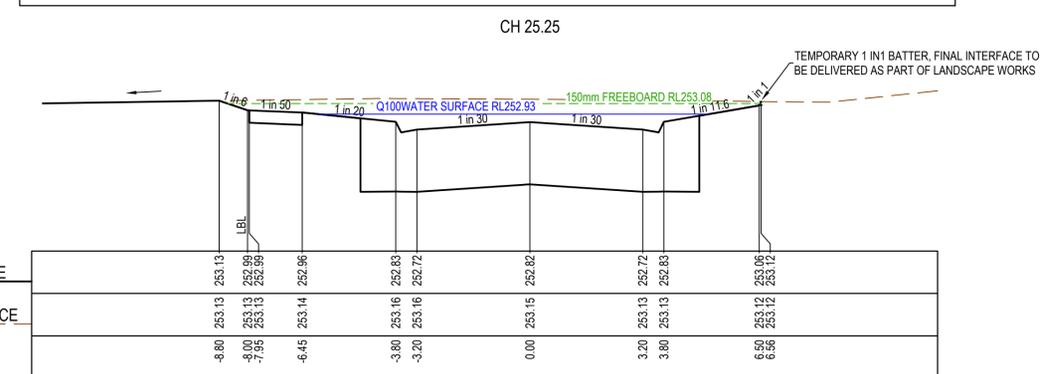
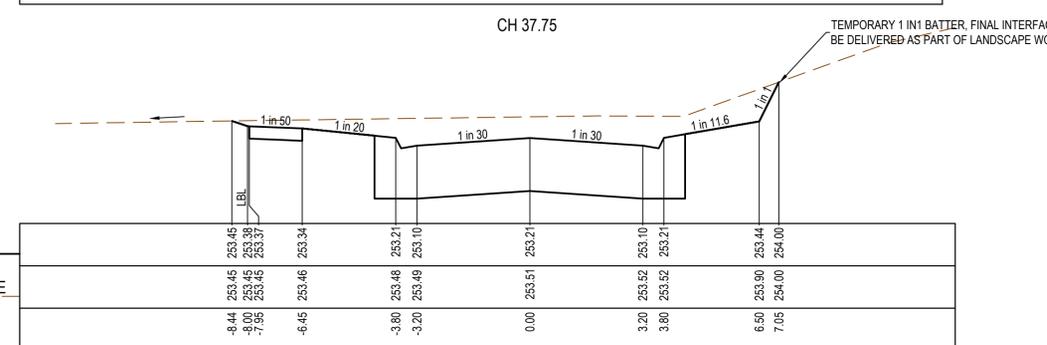
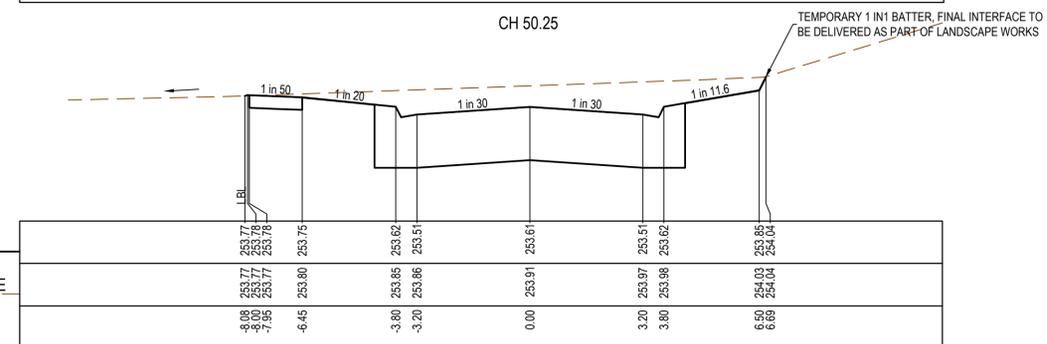
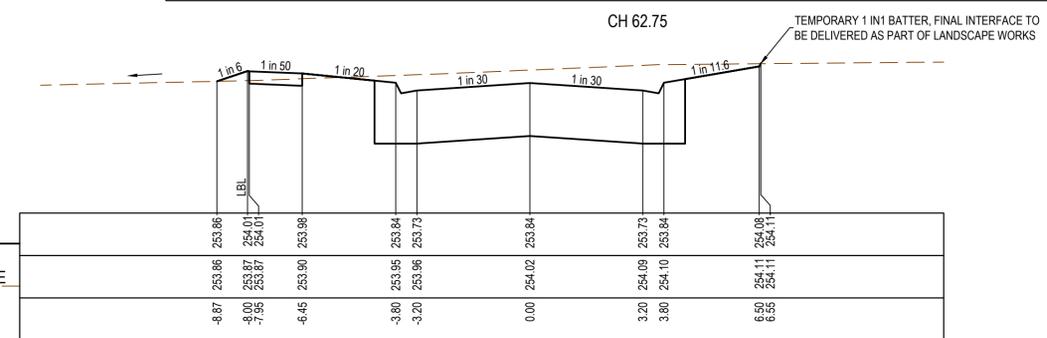
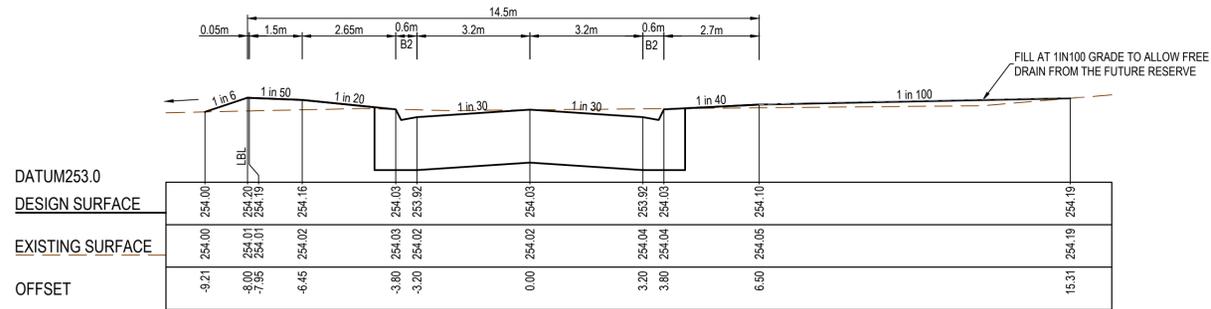
**mirvac**

Olivine Estate - Stage 29  
Whittlesea City Council  
Road and Drainage  
Cross Sections: Igneous Way  
Ch 194.53 - Ch 270.00

MELBOURNE REF: 367 G11  
PROJECT / DRAWING No: 1700E-029-256

SHEET No: 17 of 27  
REVISION: 0

TYPE A STRUCTURAL FILL AT 45° ANGLE REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



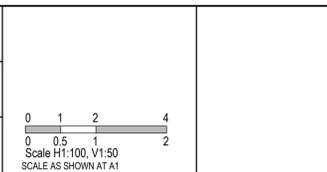
REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

Quality Management - ISO 9001  
 OHS Management - AS/NZS 4801  
 Environmental Management - ISO 14001

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PLAN OF SUB. NO. PS913459H  
 PERMIT REF. NO. 719067

**ISSUED FOR CONSTRUCTION**



**smec**  
 an **st** company

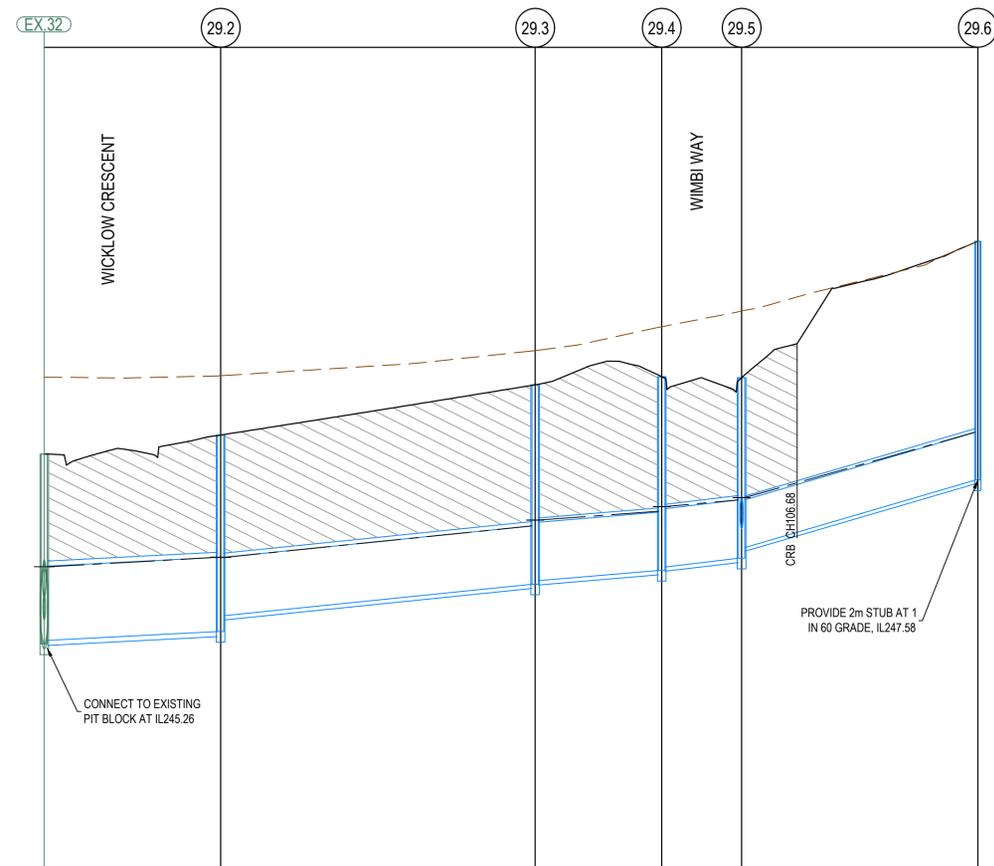
Collins Square, Tower 4, Level 20, 727 Collins St  
 Melbourne, VIC 3008  
 Ph 03 9514 1900

**mirvac**

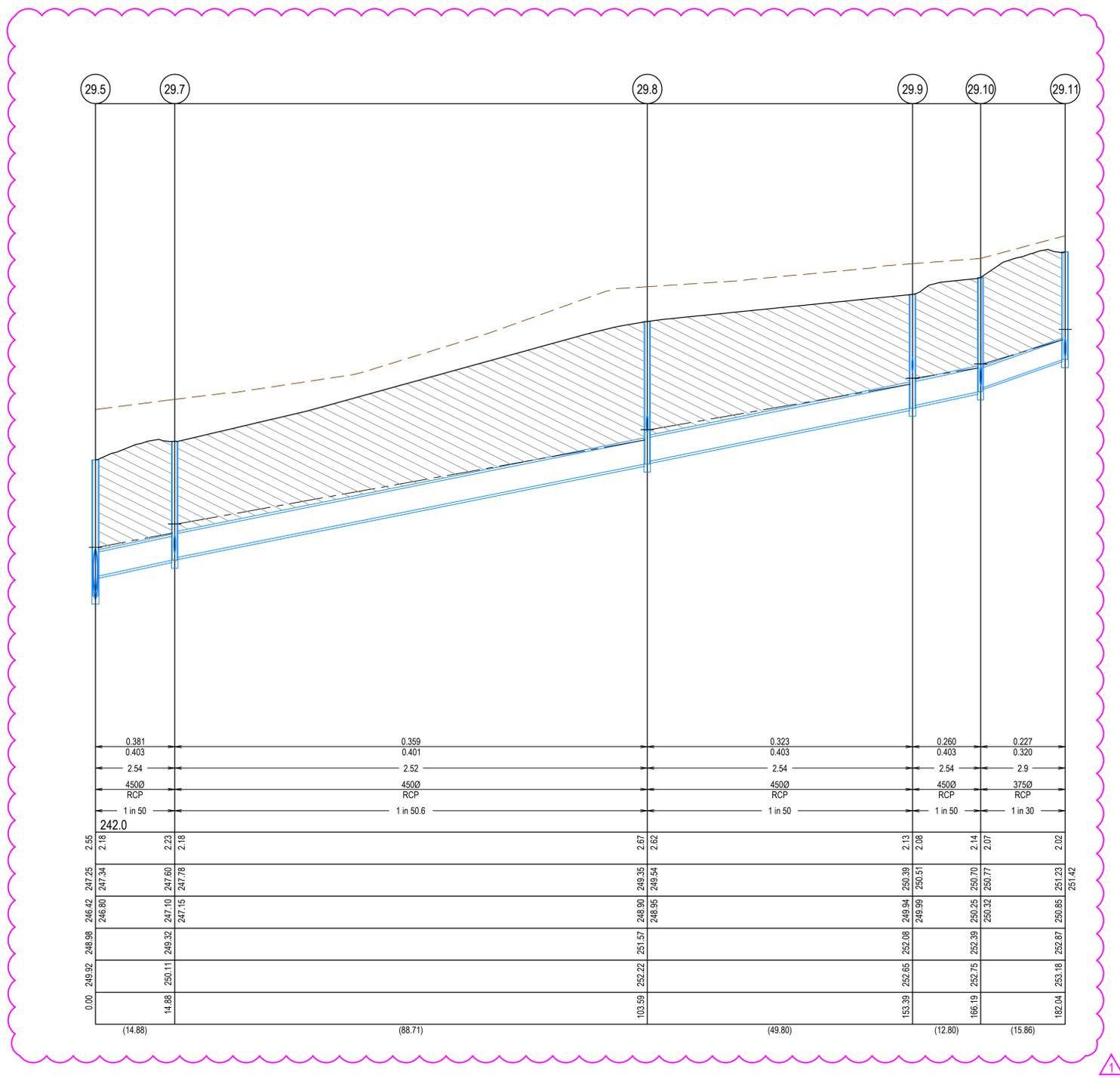
Olivine Estate - Stage 29  
 Whittlesea City Council  
 Road and Drainage  
 Cross Sections: Valley Mount Circuit  
 Ch 25.25 - Ch 133.13

MELBOURNE REF: 367 G11  
 PROJECT / DRAWING No: 1700E-029-257  
 SHEET No: 18 of 27  
 REVISION: 0

**CRUSHED ROCK BACKFILL**  
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS SPECIFIED OTHERWISE



DESIGN FLOW (m3/s)	1.204	1.210	1.199	1.198	1.017
CAPACITY (m3/s)	1.932	1.436	1.284	1.503	1.421
AT GRADE VELOCITY (m/s)	2.23	2.69	2.4	2.81	3.97
NOMINAL PIPE SIZE (mm)	1050Ø	825Ø	825Ø	825Ø	675Ø
PIPE TYPE	RCP	RCP	RCP	RCP	RCP
GRADE	1 in 200	1 in 100	1 in 125	1 in 91.3	1 in 35
DATUM	240.0				
DEPTH TO INVERT	2.69	2.78	2.82	2.74	3.38
HYDRAULIC GRADE LINE	245.21	246.26	246.88	247.09	248.20
INVERT LEVEL	245.26	245.38	246.11	246.30	247.53
FINISHED SURFACE LEVELS	247.90	248.17	248.88	249.99	250.91
EXISTING SURFACE LEVEL	248.86	249.00	249.36	249.98	250.90
CHAINAGE	0.00	24.99	69.55	87.49	132.27
(Reach Length)	(24.99)	(44.56)	(17.94)	(11.32)	(33.47)

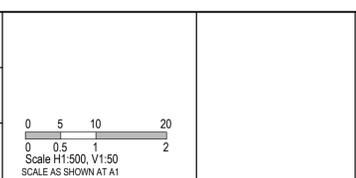


DESIGN FLOW (m3/s)	0.381	0.359	0.323	0.260	0.227
CAPACITY (m3/s)	0.403	0.401	0.403	0.403	0.320
AT GRADE VELOCITY (m/s)	2.54	2.52	2.54	2.54	2.9
NOMINAL PIPE SIZE (mm)	450Ø	450Ø	450Ø	450Ø	375Ø
PIPE TYPE	RCP	RCP	RCP	RCP	RCP
GRADE	1 in 50	1 in 50.6	1 in 50	1 in 50	1 in 30
DATUM	242.0				
DEPTH TO INVERT	2.55	2.18	2.67	2.14	2.02
HYDRAULIC GRADE LINE	246.80	247.34	249.35	250.51	251.23
INVERT LEVEL	246.80	247.10	249.54	250.70	251.23
FINISHED SURFACE LEVELS	248.98	249.32	251.57	252.25	252.87
EXISTING SURFACE LEVEL	249.92	250.11	252.22	252.75	253.18
CHAINAGE	0.00	14.88	103.59	153.39	166.19
(Reach Length)	(14.88)	(88.71)	(49.80)	(12.80)	(15.86)

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS
1	10.10.25	DRAINAGE LONG SECTIONS UPDATED	K.KANG	K.KANG	T.MOTET	G.CORREIA

PLAN OF SUB. NO.  
 PS913459H  
 PERMIT REF. NO.  
 719067

**ISSUED FOR CONSTRUCTION**



**smec**  
an company

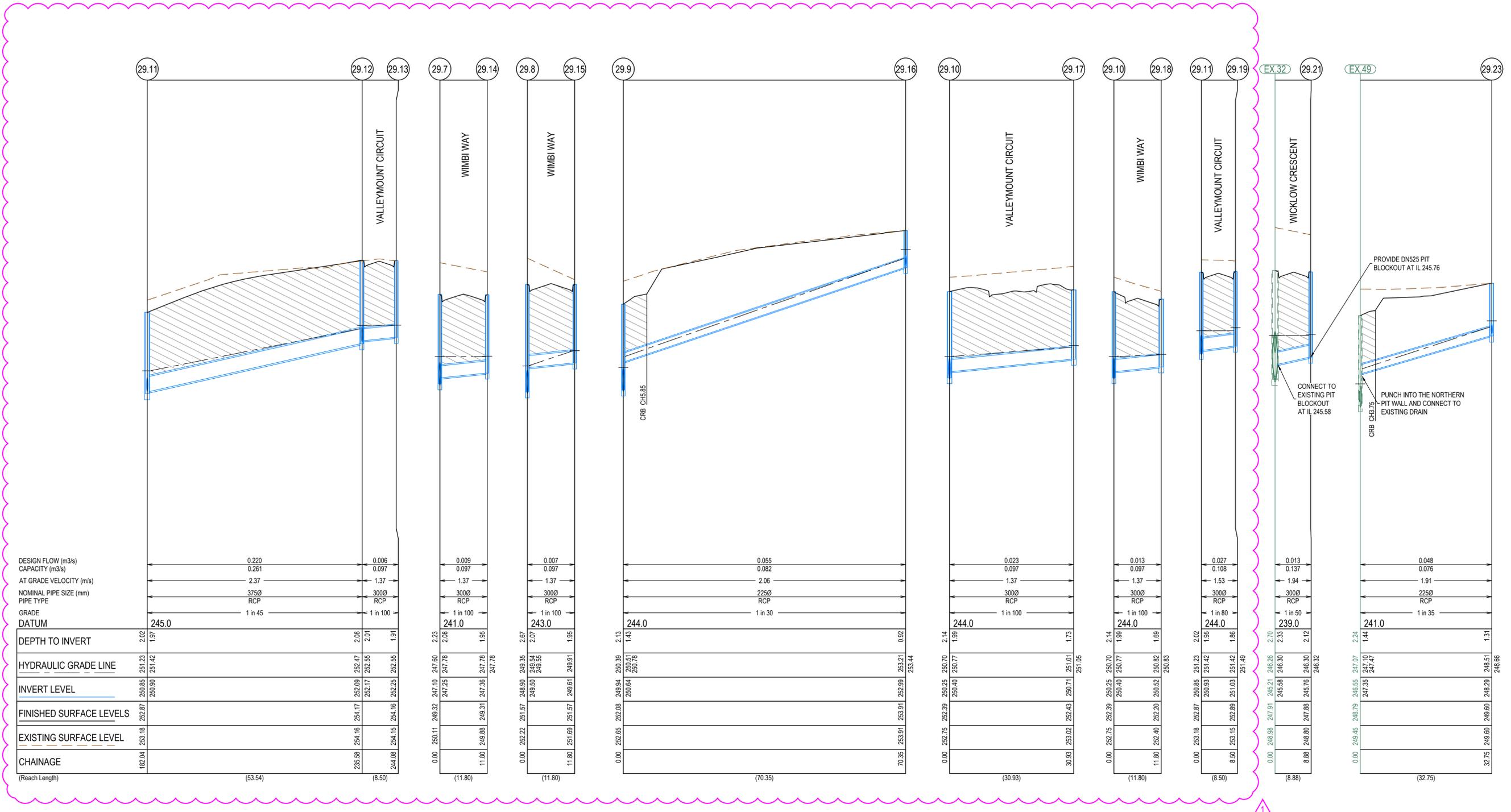
Collins Square, Tower 4, Level 20, 727 Collins St  
Melbourne, VIC 3008  
Ph 03 9514 1500

**mirvac**

Olivine Estate - Stage 29  
Whittlesea City Council  
Road and Drainage  
Drainage Longitudinal Sections - 1

MELWAYS REF <b>367 G11</b>	PROJECT / DRAWING No. <b>1700E-029-301</b>	SHEET No. <b>19 of 27</b>	REVISION <b>1</b>
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**CRUSHED ROCK BACKFILL**  
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS SPECIFIED OTHERWISE



DESIGN FLOW (m3/s)	CAPACITY (m3/s)	AT GRADE VELOCITY (m/s)	NOMINAL PIPE SIZE (mm)	PIPE TYPE	GRADE	DATUM
0.220	0.261	2.37	3750	RCP	1 in 45	245.0
0.006	0.097	1.37	3000	RCP	1 in 100	245.0
0.009	0.097	1.37	3000	RCP	1 in 100	241.0
0.007	0.097	1.37	3000	RCP	1 in 100	243.0
0.055	0.082	2.06	2250	RCP	1 in 30	244.0
0.023	0.097	1.37	3000	RCP	1 in 100	244.0
0.013	0.097	1.37	3000	RCP	1 in 100	244.0
0.027	0.108	1.53	3000	RCP	1 in 80	244.0
0.013	0.137	1.94	3000	RCP	1 in 50	239.0
0.048	0.076	1.91	2250	RCP	1 in 35	241.0

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS
1	10.10.25	DRAINAGE LONG SECTIONS UPDATED	K.KANG	K.KANG	T.MOTET	G.CORREIA

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PLAN OF SUB. NO.  
PS913459H

PERMIT REF. NO.  
719067

**ISSUED FOR CONSTRUCTION**

0 5 10 20  
 0 0.5 1 2  
 Scale H1:500, V1:50  
 SCALE AS SHOWN AT A1

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 an **st** company

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 Melbourne, VIC 3008  
 Ph 03 9514 1900

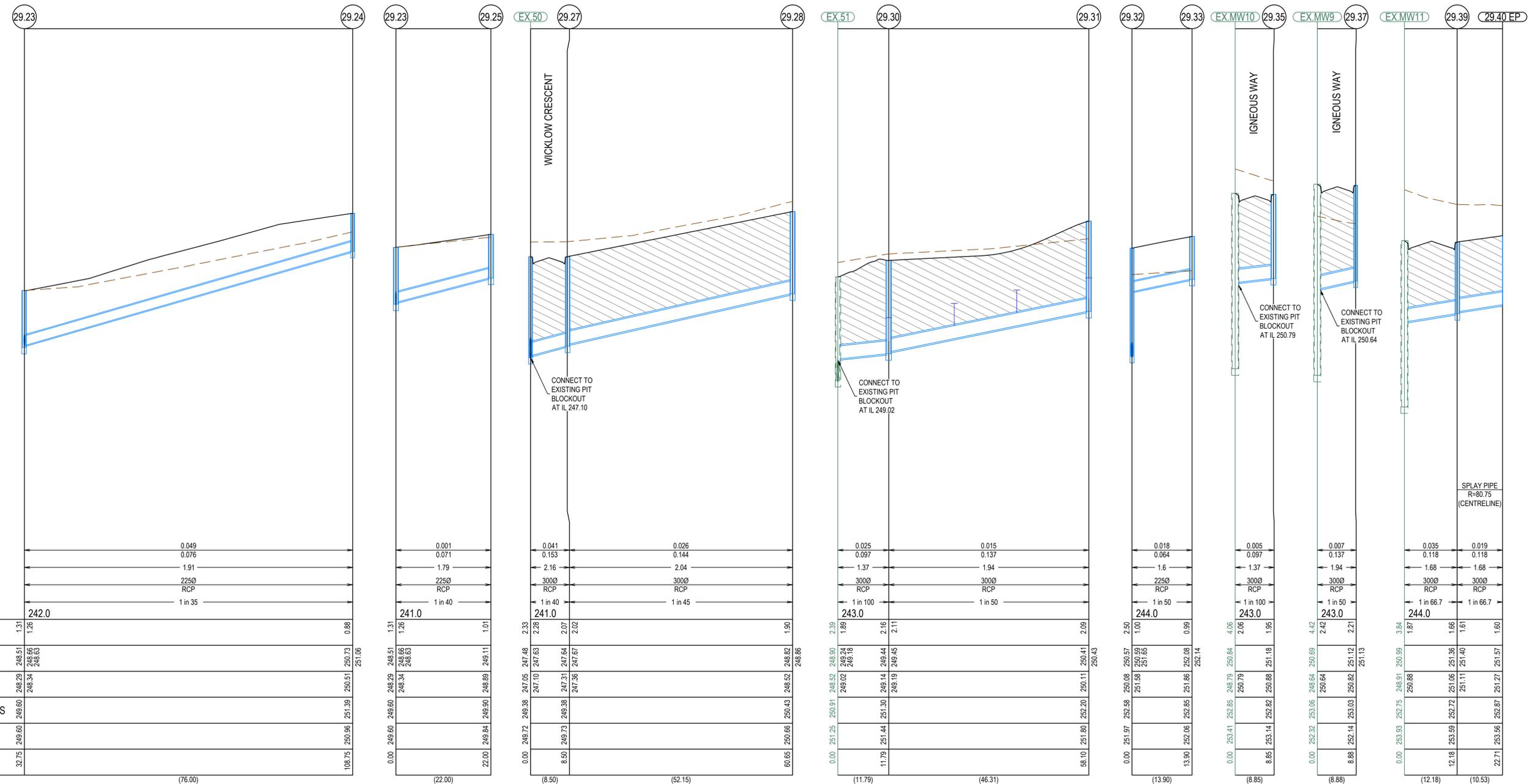
**mirvac**

Olivine Estate - Stage 29  
 Whittlesea City Council  
 Road and Drainage  
 Drainage Longitudinal Sections - 2

MELWAYS REF: 367 G11  
 PROJECT / DRAWING No: 1700E-029-302

SHEET No: 20 of 27  
 REVISION: 1

**CRUSHED ROCK BACKFILL**  
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS SPECIFIED OTHERWISE



DESIGN FLOW (m3/s)	CAPACITY (m3/s)	AT GRADE VELOCITY (m/s)	NOMINAL PIPE SIZE (mm)	PIPE TYPE	GRADE	DATUM
0.049	0.076	1.91	225Ø	RCP	1 in 35	242.0
0.001	0.071	1.79	225Ø	RCP	1 in 40	241.0
0.041	0.153	2.16	300Ø	RCP	1 in 40	241.0
0.026	0.144	2.04	300Ø	RCP	1 in 45	241.0
0.025	0.097	1.37	300Ø	RCP	1 in 100	243.0
0.015	0.137	1.94	300Ø	RCP	1 in 50	243.0
0.018	0.064	1.6	225Ø	RCP	1 in 50	244.0
0.005	0.097	1.37	300Ø	RCP	1 in 100	243.0
0.007	0.137	1.94	300Ø	RCP	1 in 50	243.0
0.035	0.118	1.68	300Ø	RCP	1 in 66.7	244.0
0.019	0.118	1.68	300Ø	RCP	1 in 66.7	244.0

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

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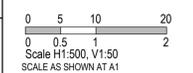
OH&S Management AS/NZS 4801  
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PLAN OF SUB. NO.  
PS913459H

PERMIT REF. NO.  
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**ISSUED FOR CONSTRUCTION**



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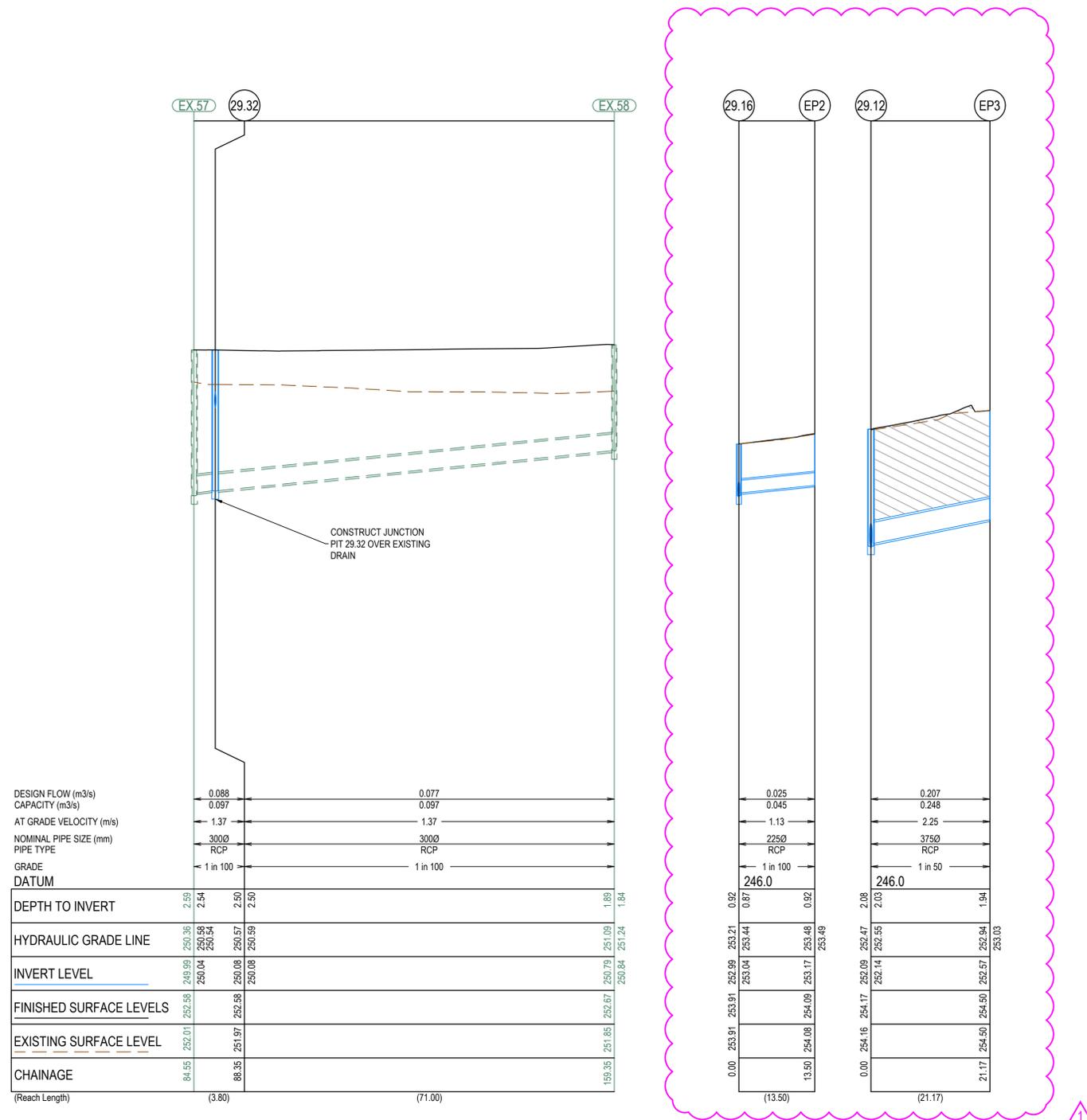
**mirvac**

Olivine Estate - Stage 29  
 Whittlesea City Council  
 Road and Drainage  
 Drainage Longitudinal Sections - 3

MELWAYS REF: 367 G11  
 PROJECT / DRAWING No: 1700E-029-303

SHEET No: 21 of 27  
 REVISION: 0

**CRUSHED ROCK BACKFILL**  
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS SPECIFIED OTHERWISE

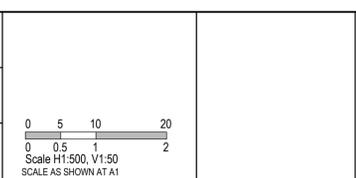


DESIGN FLOW (m <sup>3</sup> /s)	0.088	0.077
CAPACITY (m <sup>3</sup> /s)	0.097	0.097
AT GRADE VELOCITY (m/s)	1.37	1.37
NOMINAL PIPE SIZE (mm)	3000	3000
PIPE TYPE	RCP	RCP
GRADE	1 in 100	1 in 100
DATUM		
DEPTH TO INVERT	2.50 2.54 2.50	2.50 2.50 2.50
HYDRAULIC GRADE LINE	250.36 250.39 250.37	251.09 251.09 251.24
INVERT LEVEL	249.86 250.04 250.08	250.79 250.87 250.08
FINISHED SURFACE LEVELS	252.01 252.58	252.67 253.09
EXISTING SURFACE LEVEL	252.01 251.85	251.85 251.84
CHAINAGE	84.55 88.35	159.35 171.00
(Reach Length)	(3.80)	(71.00)

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS
1	10.10.25	DRAINAGE LONG SECTIONS UPDATED	K.KANG	K.KANG	T.MOTET	G.CORREIA

PLAN OF SUB. NO.  
 PS913459H  
 PERMIT REF. NO.  
 719067

**ISSUED FOR CONSTRUCTION**

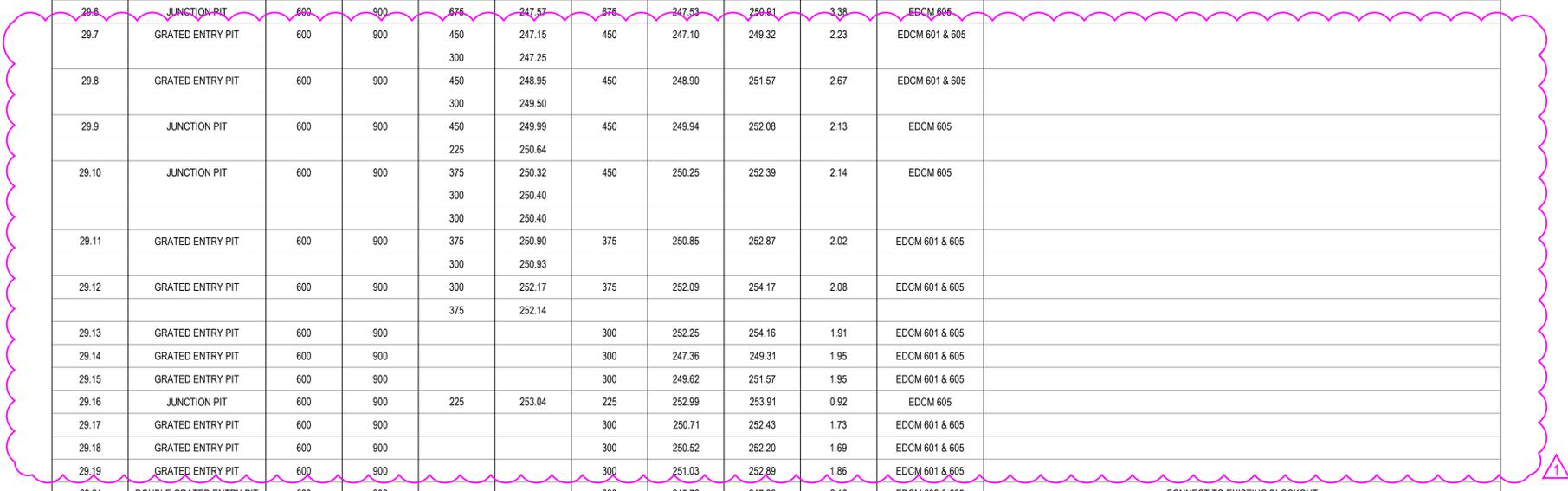


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 Melbourne, VIC 3008  
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Olivine Estate - Stage 29  
 Whittlesea City Council  
 Road and Drainage  
 Drainage Longitudinal Sections - 4

MELWAYS REF 367 G11	PROJECT / DRAWING No. 1700E-029-304	SHEET No. 22 of 27	REVISION 1
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PIT SCHEDULE											
PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		F.S.L.	DEPTH	STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INV R.L. (m)	DIAMETER (mm)	INV R.L. (m)				
29.2	GRATED PIT	900	1350	825	245.61	1050	245.39	248.17	2.78	EDCM 607	HAUNCHED TO 600x900 PIT COVER. HEAVEYDUTY BIKE SAFE GRATE REFER TO DWG 1700E-029-421 FOR DETAILS
29.3	GRATED PIT	1200	900	825	246.11	825	246.06	248.88	2.82	EDCM 607	HAUNCHED TO 600x900 PIT COVER. HEAVEYDUTY BIKE SAFE GRATE REFER TO DWG 1700E-029-421 FOR DETAILS
29.4	DOUBLE GRATED ENTRY PIT	1200	900	825	246.30	825	246.25	248.99	2.74	EDCM 602 & 607	HAUNCHED TO 600x900 PIT COVER. CONSTRUCT AS JP WITH MALTOID JOINT FOR FUTURE COVERSION TO DGSEP
29.5	DOUBLE GRATED ENTRY PIT	1200	900	675	246.57	825	246.42	248.98	2.55	EDCM 602 & 607	HAUNCHED TO 600x900 PIT COVER. CONSTRUCT AS JP WITH MALTOID JOINT FOR FUTURE COVERSION TO DGSEP
				450	246.80						
29.6	JUNCTION PIT	600	900	675	247.57	675	247.53	250.81	3.38	EDCM 606	
29.7	GRATED ENTRY PIT	600	900	450	247.15	450	247.10	249.32	2.23	EDCM 601 & 605	
				300	247.25						
29.8	GRATED ENTRY PIT	600	900	450	248.95	450	248.90	251.57	2.67	EDCM 601 & 605	
				300	249.50						
29.9	JUNCTION PIT	600	900	450	249.99	450	249.94	252.08	2.13	EDCM 605	
				225	250.64						
29.10	JUNCTION PIT	600	900	375	250.32	450	250.25	252.39	2.14	EDCM 605	
				300	250.40						
				300	250.40						
29.11	GRATED ENTRY PIT	600	900	375	250.90	375	250.85	252.87	2.02	EDCM 601 & 605	
				300	250.93						
29.12	GRATED ENTRY PIT	600	900	300	252.17	375	252.09	254.17	2.08	EDCM 601 & 605	
				375	252.14						
29.13	GRATED ENTRY PIT	600	900			300	252.25	254.16	1.91	EDCM 601 & 605	
29.14	GRATED ENTRY PIT	600	900			300	247.36	249.31	1.95	EDCM 601 & 605	
29.15	GRATED ENTRY PIT	600	900			300	249.62	251.57	1.95	EDCM 601 & 605	
29.16	JUNCTION PIT	600	900	225	253.04	225	252.99	253.91	0.92	EDCM 605	
29.17	GRATED ENTRY PIT	600	900			300	250.71	252.43	1.73	EDCM 601 & 605	
29.18	GRATED ENTRY PIT	600	900			300	250.52	252.20	1.69	EDCM 601 & 605	
29.19	GRATED ENTRY PIT	600	900			300	251.03	252.89	1.86	EDCM 601 & 605	
29.21	DOUBLE GRATED ENTRY PIT	600	900			300	245.76	247.86	2.10	EDCM 602 & 605	CONNECT TO EXISTING BLOCKOUT
29.23	JUNCTION PIT	600	900	225	248.34	225	248.29	249.60	1.31	EDCM 605	SEAL THE EXISTING BLOCKOUT
				225	248.34						
29.24	JUNCTION PIT	600	900			225	250.51	251.39	0.88	EDCM 605	
29.25	JUNCTION PIT	600	900			225	248.89	249.90	1.01	EDCM 605	
Ex.50	GRATED ENTRY PIT	-	-	300	247.13	375	247.05	249.38	2.33	EDCM 601	CONNECT TO EXISTING BLOCKOUT
				375	247.10						
29.27	GRATED ENTRY PIT	600	900	300	247.36	300	247.31	249.38	2.07	EDCM 601 & 605	CONNECT TO EXISTING PIT
29.28	JUNCTION PIT	600	900			300	248.52	250.43	1.90	EDCM 605	
29.30	GRATED ENTRY PIT	600	900	300	249.19	300	249.14	251.30	2.16	EDCM 601 & 605	CONNECT TO EXISTING BLOCKOUT
29.31	JUNCTION PIT	600	900			300	250.11	252.20	2.09	EDCM 605	
29.32	JUNCTION PIT	600	900	225	251.58	300	250.08	252.58	2.50	EDCM 605	CONSTRUCT PIT OVER EXISTING DRAIN
				300	250.08						
29.33	JUNCTION PIT	600	900			225	251.86	252.85	0.99	EDCM 605	
Ex.MW10	Ex PIT	-	-	300	250.79			252.85	0.00	EDCM 601	CONNECT TO EXISTING BLOCKOUT
29.35	GRATED ENTRY PIT	600	900			300	250.88	252.82	1.95	EDCM 601 & 605	CONNECT TO EXISTING BLOCKOUT
Ex.MW9	Ex PIT	-	-	300	250.64			253.06	0.00	EDCM 601	CONNECT TO EXISTING BLOCKOUT. PROVIDE HEAVY DUTY COVER.
29.37	GRATED ENTRY PIT	600	900			300	250.82	253.03	2.21	EDCM 601 & 605	CONNECT TO EXISTING BLOCKOUT. PROVIDE HEAVY DUTY COVER.
Ex.MW11	Ex PIT	-	-	300	250.88			252.75	0.00	EDCM 601	CONNECT TO EXISTING BLOCKOUT. PROVIDE HEAVY DUTY COVER.
29.39	GRATED ENTRY PIT	600	900	300	251.11	300	251.06	252.72	1.66	EDCM 601	CONNECT TO EXISTING BLOCKOUT. PROVIDE HEAVY DUTY COVER.
Ex.32	DOUBLE GRATED ENTRY PIT	-	-	1050	245.26	1050	245.21	247.92	2.71	EDCM 602	CONNECT TO EXISTING BLOCKOUT. PROVIDE HEAVY DUTY COVER.
				300	245.58						
				450	245.91						
Ex.47	GRATED ENTRY PIT	-	-	450	246.11	450	246.06	248.31	2.25	EDCM 601	CONNECT TO EXISTING BLOCKOUT. PROVIDE HEAVY DUTY COVER.
Ex.48	GRATED ENTRY PIT	-	-	450	246.26	450	246.21	248.31	2.10	EDCM 601	CONNECT TO EXISTING BLOCKOUT. PROVIDE HEAVY DUTY COVER.
Ex.51	GRATED ENTRY PIT	-	-	300	249.02	375	248.52	250.92	2.40	EDCM 601	CONNECT TO EXISTING BLOCKOUT. PROVIDE HEAVY DUTY COVER.
				375	248.57						
Ex.52	GRATED ENTRY PIT	-	-	375	248.71	375	248.66	250.92	2.26	EDCM 601	CONNECT TO EXISTING BLOCKOUT. PROVIDE HEAVY DUTY COVER.
Ex.53	DOUBLE GRATED ENTRY PIT	-	-	375	248.87	375	248.82	251.19	2.37	EDCM 602	CONNECT TO EXISTING BLOCKOUT. PROVIDE HEAVY DUTY COVER.
Ex.54	DOUBLE GRATED ENTRY PIT	-	-	300	249.01	375	248.96	251.19	2.23	EDCM 602	CONNECT TO EXISTING BLOCKOUT. PROVIDE HEAVY DUTY COVER.
				375	249.01						
Ex.55	GRATED ENTRY PIT	-	-	375	249.31	375	249.26	251.30	2.04	EDCM 601	CONNECT TO EXISTING BLOCKOUT. PROVIDE HEAVY DUTY COVER.
29.40EP	ENDPIPE			300	251.27	300	251.27	252.87	1.60		ENDPIPE FOR FUTURE CONNECTION
EP2	ENDPIPE					225	253.17	254.09	0.92		ENDPIPE FOR FUTURE CONNECTION
EP3	ENDPIPE					375	252.57	254.50	1.94		ENDPIPE FOR FUTURE CONNECTION



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS
1	10.10.25	PIT SCHEDULES UPDATED	K.KANG	K.KANG	T.MOTET	G.CORREIA





PLAN OF SUB. NO. PS913459H  
 PERMIT REF. NO. 719067

**ISSUED FOR CONSTRUCTION**

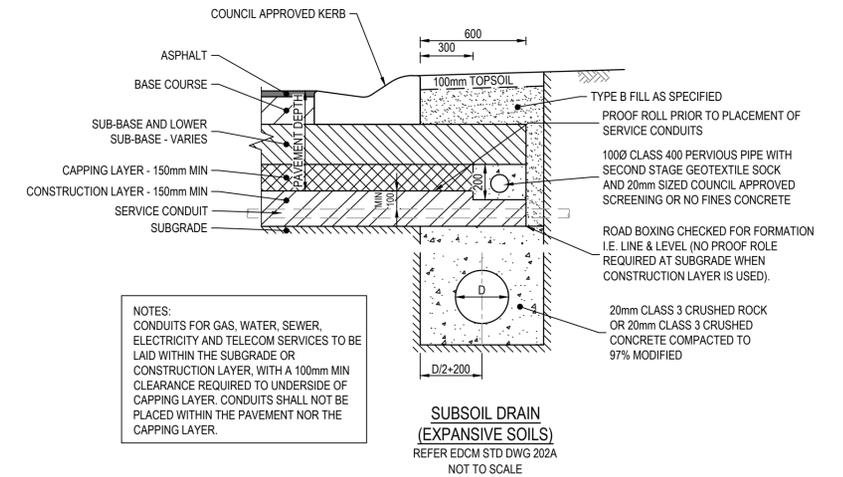
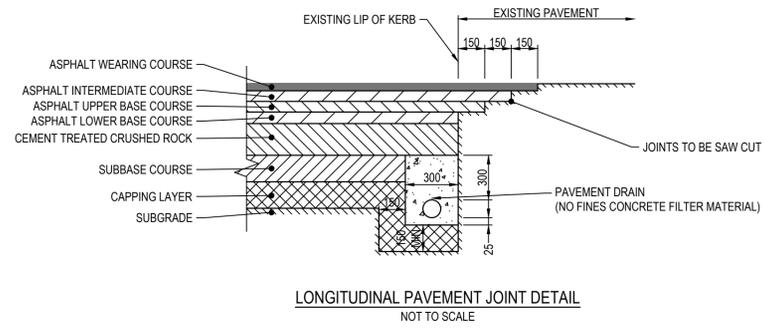
SCALE AS SHOWN AT 1

  
 an sbs company  
 Collins Square, Tower 4, Level 20, 727 Collins St  
 Melbourne, VIC 3008  
 Ph 03 9514 1500



Olivine Estate - Stage 29  
 Whittlesea City Council  
 Road and Drainage  
 Pit Schedule

MELWAYS REF 367 G11	PROJECT / DRAWING No. 1700E-029-351	SHEET No. 23 of 27	REVISION 1
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780mm DEPTH PAVEMENT COMPOSITION		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
A ASPHALT WEARING COURSE	30	SIZE 10 TYPE L ASPHALT (CLASS 320 BINDER)
B ASPHALT BASE COURSE	30	SIZE 10 TYPE N ASPHALT (CLASS 320 BINDER)
C SAMII SEAL	6.7	SIZE 10 S18RF
D PRIME	YES	
E BASE COURSE	130	SIZE 20 CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289.5.2.1
F UPPER SUBBASE	110	CLASS 3 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289.5.2.1
G LOWER SUBBASE	180	CLASS 4 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289.5.2.1
H CAPPING LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10 <sup>-10</sup> m/s COMPACTED TO 98% MDD (STANDARD)
I CONSTRUCTION LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10 <sup>-10</sup> m/s COMPACTED TO 98% MDD (STANDARD)
J SUBGRADE		SUBGRADE CLAY AS FOUND (DESIGN CBR = 2% EXPANSIVE)

ROAD PAVEMENT COMPOSITION - ACCESS PLACE TYPE 2  
(WICKLOW CRESCENT, UNITED WAY & IGNEOUS WAY)

880mm DEPTH PAVEMENT COMPOSITION		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
A ASPHALT WEARING COURSE	40	SIZE 14 TYPE N ASPHALT (CLASS 320 BINDER)
B ASPHALT BASE COURSE	40	SIZE 14 TYPE HP ASPHALT (CLASS A10E BINDER)
C SAMII SEAL	6.7	SIZE 10 S18RF
D PRIME	YES	
E BASE COURSE	110	SIZE 20 CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289.5.2.1
F UPPER SUBBASE	190	CLASS 3 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289.5.2.1
G LOWER SUBBASE	200	CLASS 4 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289.5.2.1
H CAPPING LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10 <sup>-10</sup> m/s COMPACTED TO 98% MDD (STANDARD)
I CONSTRUCTION LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10 <sup>-10</sup> m/s COMPACTED TO 98% MDD (STANDARD)
J SUBGRADE		SUBGRADE CLAY AS FOUND (DESIGN CBR = 2% EXPANSIVE)

ROAD PAVEMENT COMPOSITION - ACCESS STREET LEVEL2 TYPE 3  
(UNITED WAY & VALLEYMOUNT CIRCUIT)

300mm DEPTH PAVEMENT COMPOSITION		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
CONCRETE	200	N32 CONCRETE WITH SL82 MESH TOP & BOTTOM 50 COVER. MESH TO HAVE 50 COVER TO ALL EDGES
SUB BASE	100	CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE MECHANICALLY COMPACTED

LANEWAY COMPOSITION - EDCM503  
(RUSH PLACE)

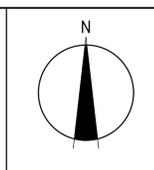
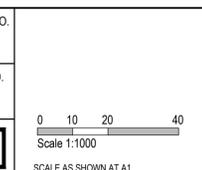
690mm DEPTH PAVEMENT COMPOSITION		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
A WEARING COURSE	40	SIZE 14 TYPE H ASPHALT (CLASS 320 BINDER)
B INTERMEDIATE COURSE	75	SIZE 20 TYPE SI ASPHALT (CLASS 320 BINDER)
C BASE COURSE	75	SIZE 20 TYPE SI ASPHALT (CLASS 320 BINDER)
D PRIME	-	
E BASE COURSE	100	SIZE 20 NOMINAL SIZE CLASS 3 CEMENT TREATED CRUSHED ROCK, COMPACTED TO A AT LEAST 98% MDD (MODIFIED DRY DENSITY RATIO) AT A MOISTURE CONTENT WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT WITH A MINIMUM YOUNG'S MODULUS OF 500 MPa. MINIMUM DESIGN CEMENTITIOUS BINDER CONTENT OF 3% BY MASS AS PER VICROADS SPECIFICATION 8015, TABLE 815.101.
F UPPER SUBBASE	100	CLASS 4 CRUSHED ROCK OR CLASS CC4 CRUSHED CONCRETE (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 95% (MODIFIED) AS1289.5.2.1
H CAPPING LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10 <sup>-10</sup> m/s COMPACTED TO 98% MDD (STANDARD)
I CONSTRUCTION LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10 <sup>-10</sup> m/s COMPACTED TO 98% MDD (STANDARD)
J SUBGRADE		SUBGRADE CLAY AS FOUND (DESIGN CBR = 2% EXPANSIVE)

ROAD PAVEMENT COMPOSITION - CONNECTOR STREET TYPE 4  
(WIMBRI WAY)

**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

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

Quality Management ISO 9001  
 OHS Management AS/NZS 4500  
 Environmental Management ISO 14001  
 Global-Mark.com.au®  
**ISSUED FOR CONSTRUCTION**  
 PLAN OF SUB. NO. PS913459H  
 PERMIT REF. NO. 719067

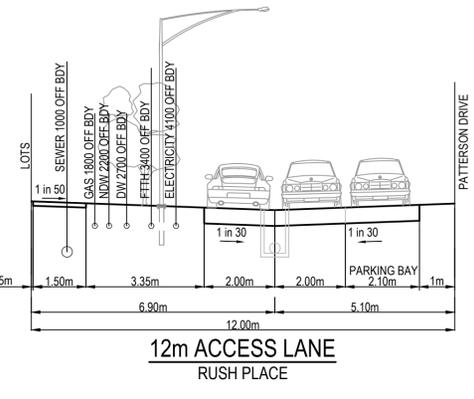
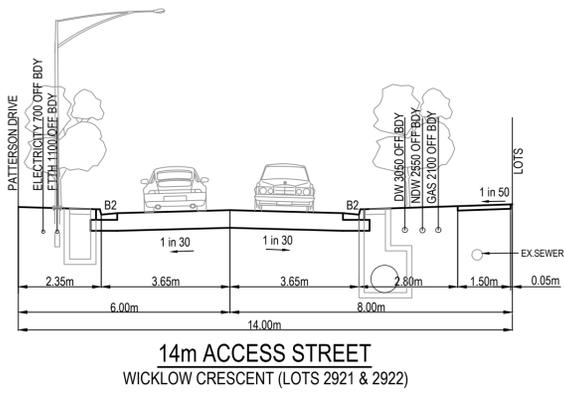
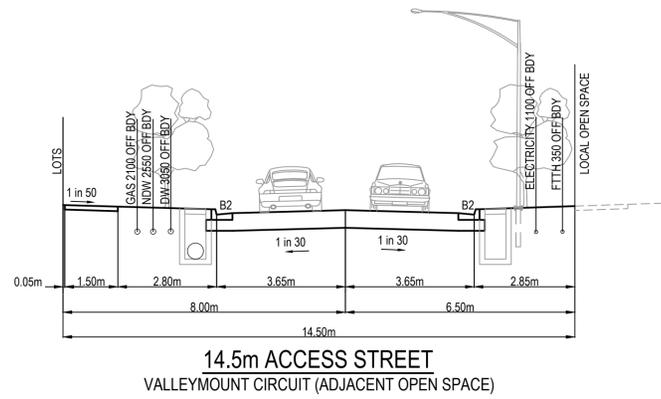
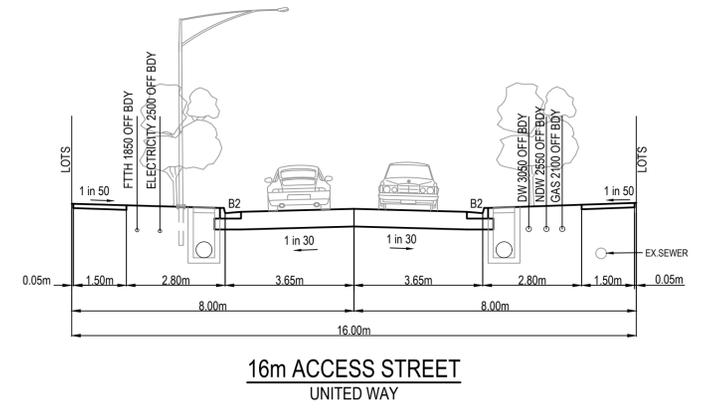
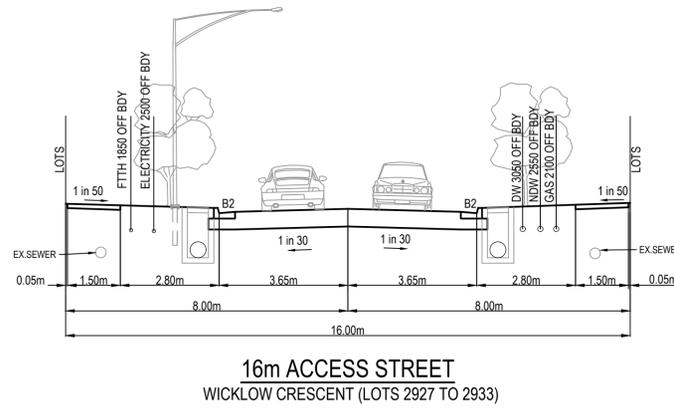
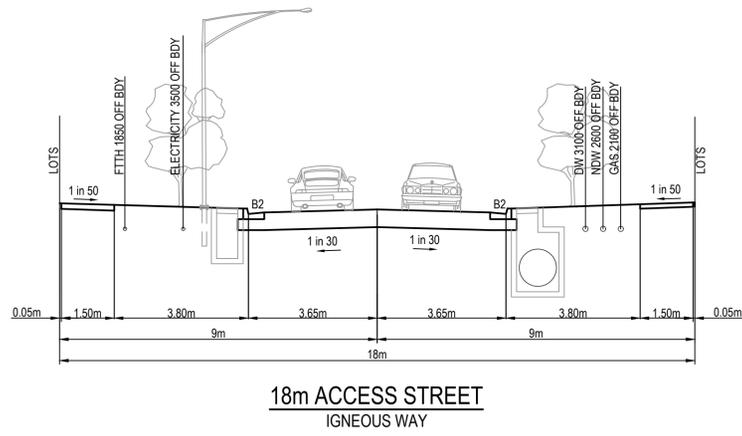
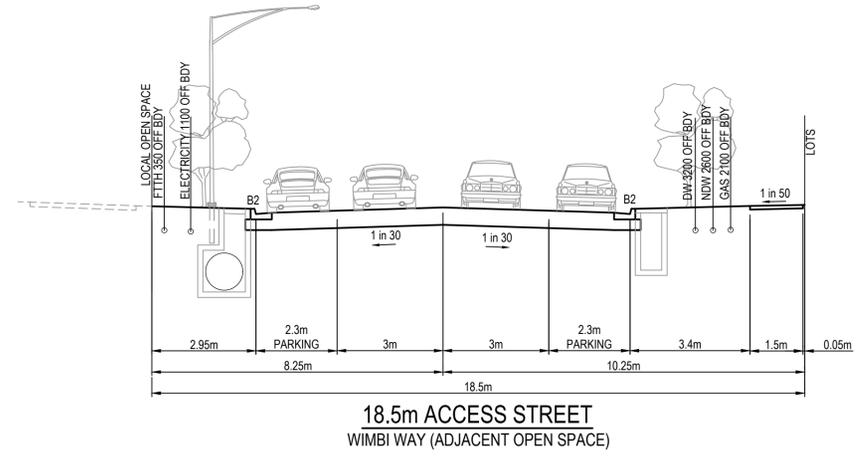
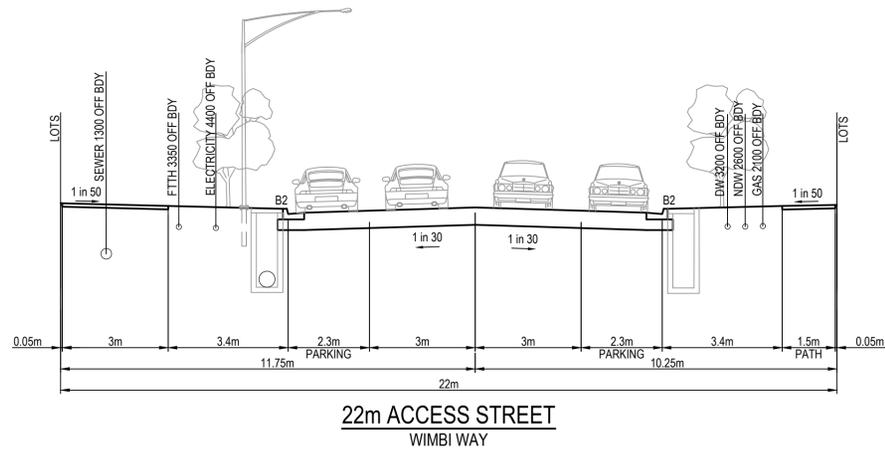


**smec**  
an sbs company  
Collins Square, Tower 4, Level 20, 727 Collins St  
Melbourne, VIC 3008  
Ph 03 9514 1500

**mirvac**

Olivine Estate - Stage 29  
Whittlesea City Council  
Road and Drainage  
Pavement Details

MELWAYS REF <b>367 G11</b>	PROJECT / DRAWING No. <b>1700E-029-411</b>	SHEET No. <b>24 of 27</b>	REVISION <b>0</b>
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REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	17.09.25	ISSUED FOR CONSTRUCTION	S.KHATIBI	K.KANG	T.MOTET	A.BURROWS

PLAN OF SUB. NO. PS913459H  
 PERMIT REF. NO. 719067

**ISSUED FOR CONSTRUCTION**



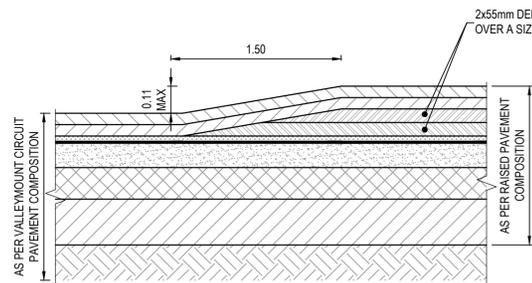
**smec**  
an company

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Melbourne, VIC 3008  
Ph 03 9514 1500

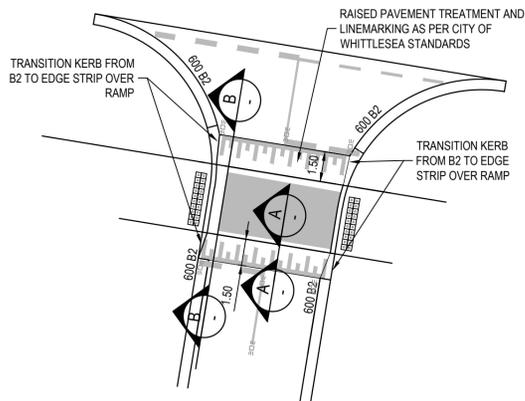
**mirvac**

Olivine Estate - Stage 29  
Whittlesea City Council  
Road and Drainage  
Typical Cross Sections

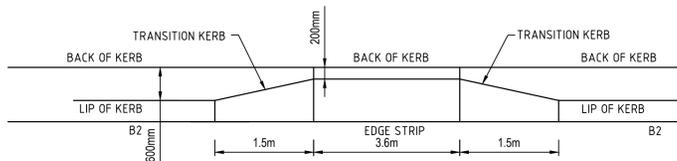
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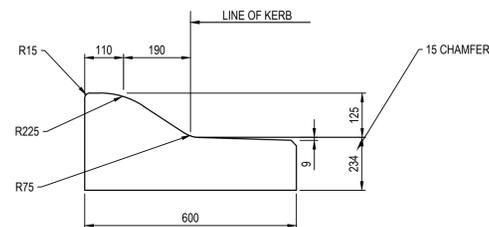
**SECTION A-A**  
NOT TO SCALE



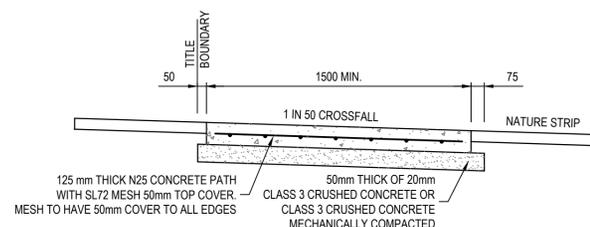
**RAISED PAVEMENT PLAN TYPICAL LAYOUT**  
(WIMBI WAY & VALLEYMOUNT CIRCUIT INTERSECTION)  
NOT TO SCALE



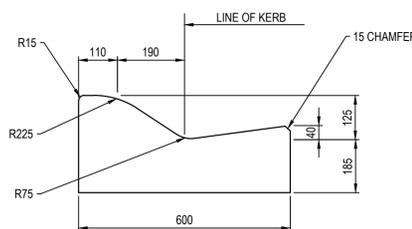
**SECTION B-B**  
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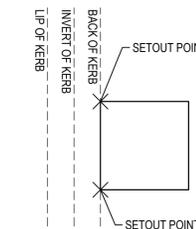
**SM3 KERB DETAIL**  
SCALE 1:10



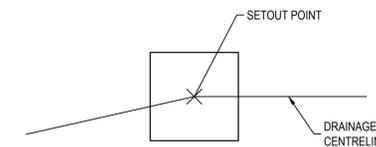
**TYPICAL FOOTPATH CROSS SECTION**  
NOT TO SCALE



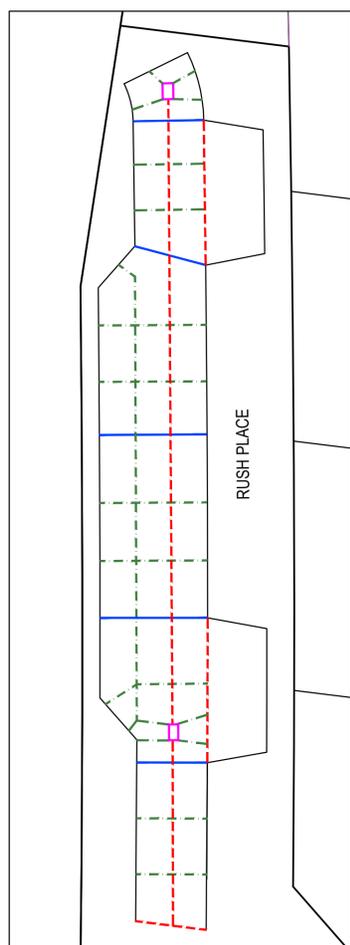
**SM2 KERB DETAIL**  
SCALE 1:10



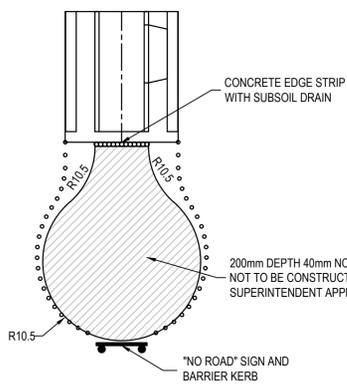
**PIT SETOUT POINT DETAIL**  
NOT TO SCALE



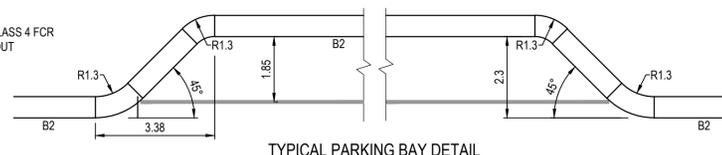
**PIT SETOUT POINT DETAIL**  
NOT TO SCALE



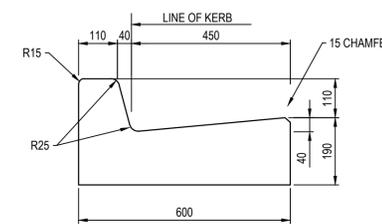
**CONSTRUCTION JOINT DETAIL**  
RUSH PLACE



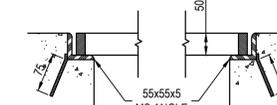
**TEMPORARY TURN AREA DETAIL**  
NOT TO SCALE



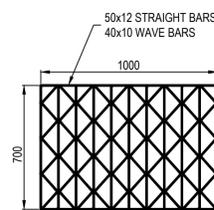
**TYPICAL PARKING BAY DETAIL**  
NOT TO SCALE



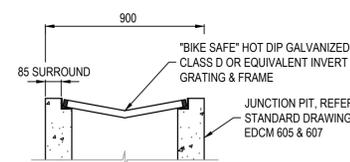
**600 B2 KERB DETAIL**  
SCALE 1:10  
EDCM



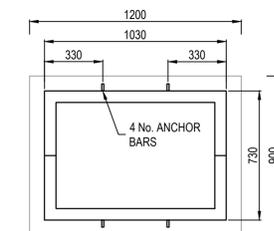
**SECTION THROUGH GRATE**



**GRATE**



**SECTION THROUGH PIT**

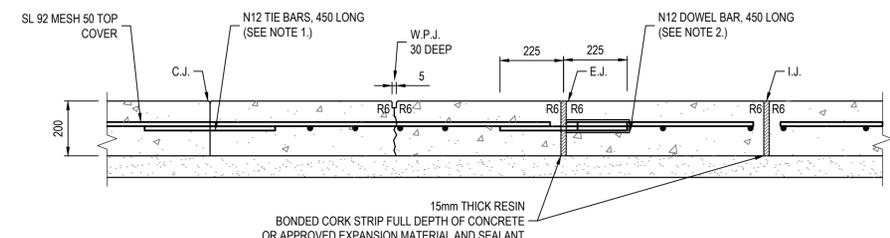


**GRATE FRAME**

- NOTES:**  
1. REFER TO EDCM STANDARD DRAWINGS 605, 606 & 607 FOR PIT DETAILS.  
2. GRATE FRAME TO BE "BIKE SAFE" TO AS3996-1992

LEGEND	
	DOWEL CONSTRUCTION JOINT
	WEAKENED PLANE JOINT
	EXPANSION JOINT
	ISOLATION JOINT

- NOTES:**
- TIE BARS TO BE INSTALLED AT 400 MAXIMUM CENTRES COMMENCING 150 FROM EDGE.
  - 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.
  - EXPANSION JOINTS (E.J) LOCATED BOTH SIDE OF VEHICLE CROSSING AND AT MAXIMUM OF 12000 CENTRES.
  - WEAKENED PLANE JOINTS LOCATED AT SPACINGS EQUAL TO THE WIDTH OF THE PATH AND MADE WITH A 'T' IRON OR CONCRETE SAW CUT.
  - IN SHARED PATHS WEAKENED PLANE JOINTS MUST BE MADE BY CONCRETE SAW CUTTING.
  - CONCRETE TO BE LIGHT BROOM FINISH WITH EDGE AND JOINTS NEATLY TOOLED AFTER THE BROOM IS APPLIED.
  - ALL FINISHED SURFACES TO COMPLY WITH AS 4586 SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIAL.
  - THE USE OF COLOURED CONCRETE MUST BE APPROVED BY COUNCIL. MINIMUM STRENGTH OF COLOURED CONCRETE TO BE 32 MPa.
  - FORMWORK TIMBER TO BE MIN. 125mm DEEP.
  - ALL DIMENSIONS IN MILLIMETRES.
  - SHARED PATHS TO BE 2.5m IN WIDTH MINIMUM. REFER TO APPROVED CONSTRUCTION PLANS FOR ACTUAL WIDTH.



**CONCRETE JOINT DETAILS**  
NOT TO SCALE

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SCALE AS SHOWN AT A1

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Ph 03 9514 1500

**mirvac**

Olivine Estate - Stage 29  
Whittlesea City Council  
Road and Drainage  
General Details

MELWAYS REF <b>367 G11</b>	PROJECT / DRAWING No. <b>1700E-029-421</b>	SHEET No. <b>26 of 27</b>	REVISION <b>0</b>
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PHASE	DISCIPLINE CODE	POTENTIAL RISK (Construction, Operations, Maintenance)	RISK OWNER	POTENTIAL CONSEQUENCES	POTENTIAL ELIMINATION MEASURE, DESIGN INITIATIVE or CONTROL (Identify any Standard or Code of practice used)	HOW ISSUE ADDRESSED IN DESIGN AND/OR CONSTRUCTION OF THE WORKS	IS THE RISK ELIMINATED? YES / NO	RESIDUAL RISK LIKELIHOOD (0-5)	RESIDUAL RISK CONSEQUENCE (0-5)	RESIDUAL RISK RATING	RESIDUAL RISK OWNER		
<b>Road Furniture / Roadside Features</b>													
Construction	RD	Roads	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	Roads	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	Utilities or Services	Utilities 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	Roads	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	Lines and Signs	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	Road Furniture	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	Roads	Culverts	Potential fall hazard during maintenance, by vehicles 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
<b>Retaining Walls</b>													
Construction	RW	Retaining Walls	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	Retaining Walls	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	Retaining Walls	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	Retaining Walls	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
<b>Drainage</b>													
Operational	DR	Drainage	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	Drainage	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	Drainage	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	Drainage	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	Drainage	Access to Pits	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Provide safe 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	Drainage	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	Drainage	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	Authority
<b>Sewer</b>													
Construction	SE	Sewer	Sewer 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	Sewer	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	Sewer	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	Sewer	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
<b>Electricity</b>													
Operational	ES	Electrical Services	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
<b>Telstra</b>													
Operational	TE	Telstra	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
<b>Water</b>													
Operational	WA	Water	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
<b>Gas</b>													
Operational	GA	Gas	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

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Olivine Estate - Stage 29  
Whittlesea City Council  
Road and Drainage  
Safety In Design

MELWAYS REF <b>367 G11</b>	PROJECT / DRAWING No. <b>1700E-029-500</b>	SHEET No. <b>27 of 27</b>	REVISION <b>0</b>
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