

Olivine Estate Stage 23

Drawing Index

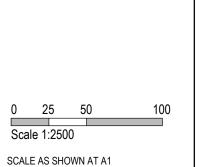
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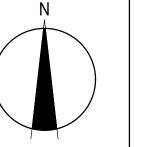
TBM SETOUT TABLE								
POINT	EAST	NORTHING	ELEVATION	DESCRIPTION				
C89SSPL	322,731.47	5,844,398.54	247.61	STAR PICKET				
C90RVTRVL	322,156.34	5,844,387.18	249.01	RIVET				
C91SSPL	323,111.41	5,844,354.26	246.33	STAR PICKET				
C257SSPL	323,230.60	5,844,293.25	247.43	STAR PICKET				
C261SSPL	322,976.76	5,844,323.39	244.79	STAR PICKET				

AS CONSTRUCTED PLANS

The purpose of these as-constructed plans is to update the design drawings to show significant changes which occurred during construction. Note that the levels shown on these plans are design levels, and have not been verified by survey. All information shown on these plans should be verified on site. SMEC Australia Pty Ltd accept no responsibility for loss or damages resulting from the inappropriate usage of these plans.









03 9514 1500



Olivine Estate - Stage 23 Whittlesea City Council Road and Drainage

Cover Plan & General Notes

GENERAL NOTES (WHITTLESEA CITY COUNCIL) 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 SURVEILANCE COORDINATOR

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.

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

RULES, AND THE MINES (TRENCHES) REGULATIONS 1982. NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF THEIR INTENTION TO COMMENCE TRENCHING

OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER. ENSURE THAT THE MINE MANAGER OR THEIR DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.

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 COURTHEADS, WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO

NOT SCALE OFF THESE DRAWINGS, WRITTEN DIMENSIONS ONLY SHALL BE USED. 6. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.

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

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 EXISITING 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 CONNECTIONS EXTEND UNDER ROAD PAVEMENT, FOOTPATH OR OTHER INFRASTRUCTURE. BOTH KERBS ARE TO BE MARKED WITH THE LETTERS H (PROPERTY STORMWATER CONNECTION), E (ELECTRICAL), G (GAS), T(TELEPHONE), W (WATER), R (RECYCLED WATER) AND C (COUNCIL COMMUNICATION) AS PER STANDARD DRAWING EDCM 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

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

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.

25. AG DRAINS TO BE PROVIDED BEHIND ALL KERBS AND SHALL HAVE SUITABLE OUTLET. CONSTRUCTION TO BE IN

ACCORDANCE WITH EDCM 605-608. 26. HOUSE DRAINS ARE TO BE CONNECTED DIRECT TO UNDERGROUND DRAIN UNLESS NOTED OTHERWISE

27. PROPERTY INLET PITS AS PER EDCM 701-704.

28. DRIVEWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCILS 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 LINEMARKING TO BE PLACED DURING MAINTENANCE PERIOD PRIOR TO PLACEMENT OF WEARING COURSE. FINAL LINEMARKING TO BE LONG LIFE ROAD MARKING WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.

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 EDCM 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

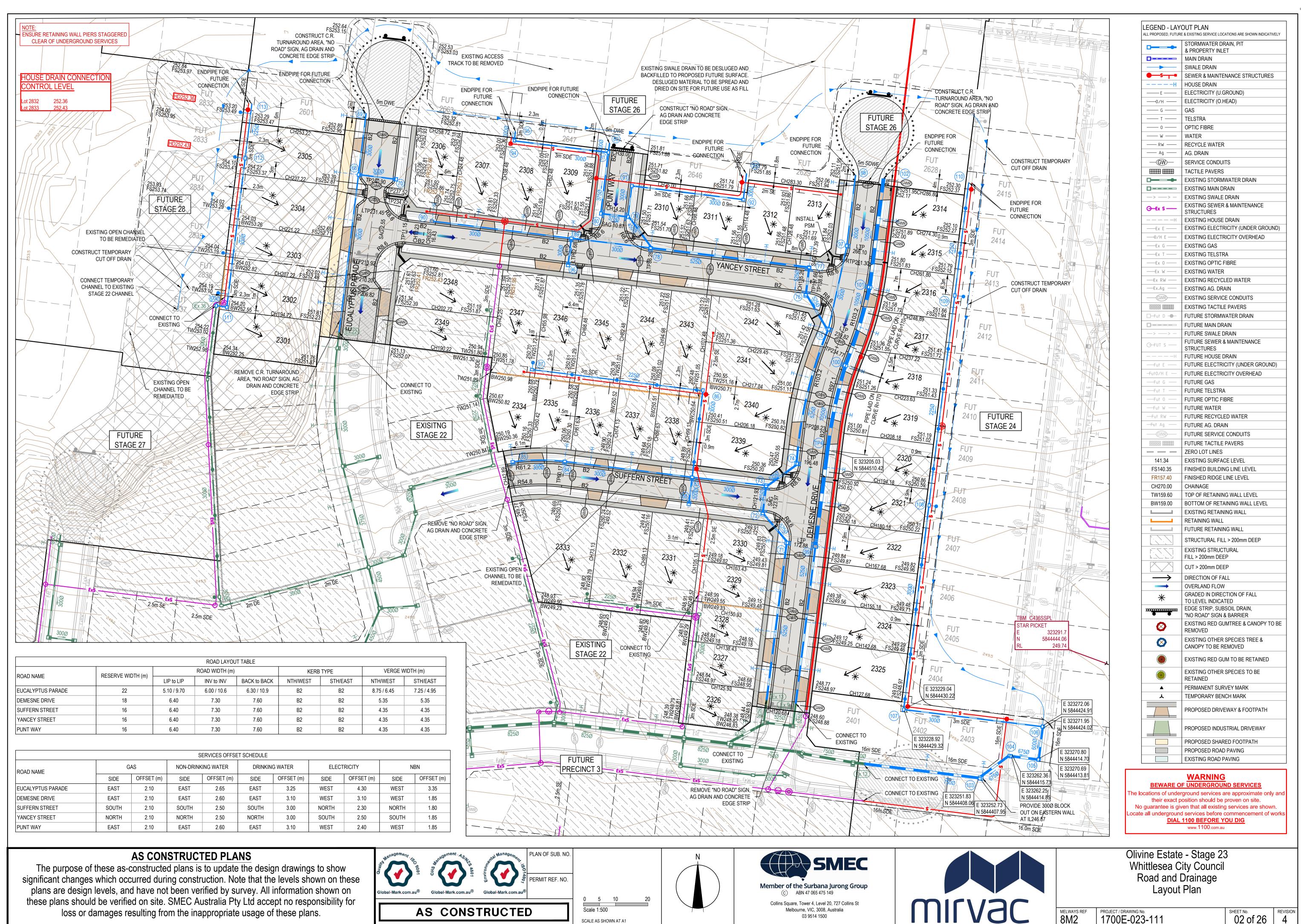
WARNING

SAFETY MEASURES REQUIRED

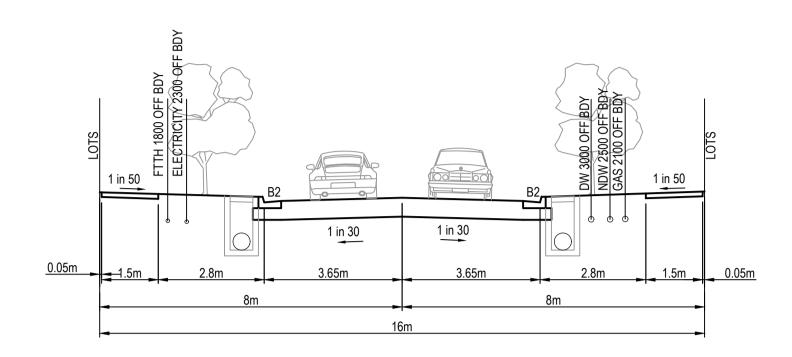
Please note there are risks attached to the construction o this project, and any ongoing maintenance of structures onsider the safety of all. For potential risks, consequence and controls refer to Safety In Design Risk Register SID P4.E6. 1700E-023-500 ASSESS THE RISK - STAY SAFE

WARNING BEWARE OF UNDERGROUND SERVICES

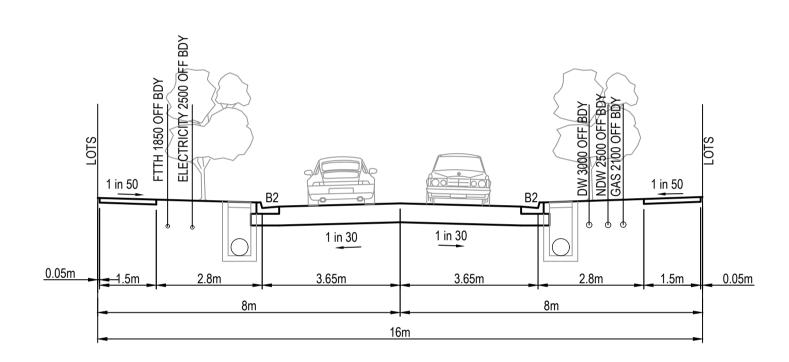
he locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works **DIAL 1100 BEFORE YOU DIG** www.1100.com.au



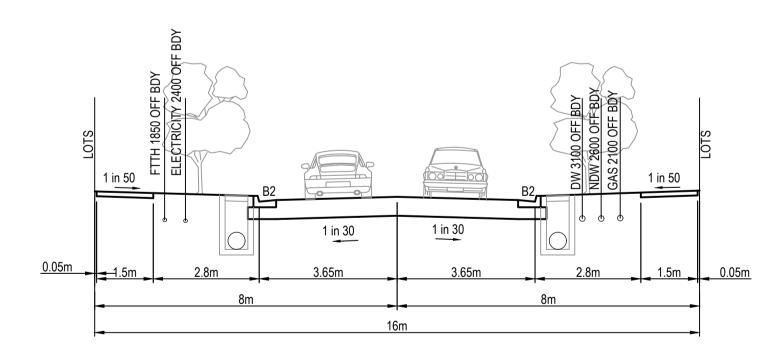
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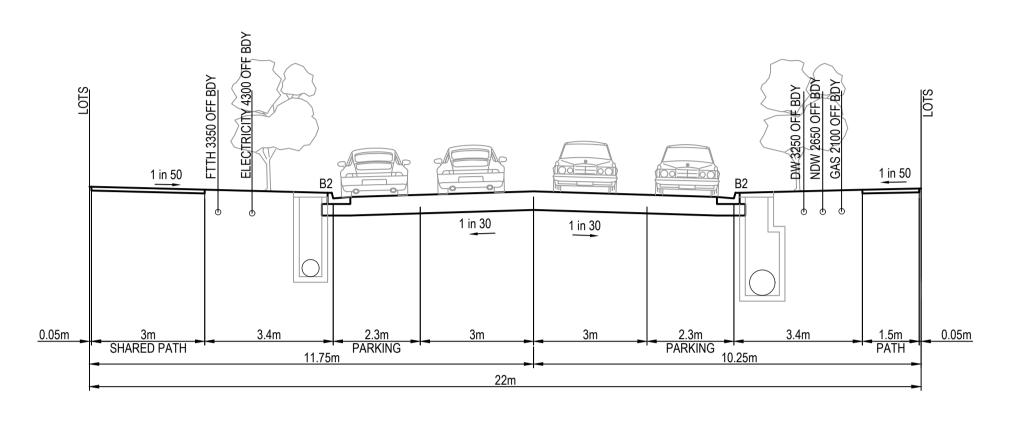
16m ACCESS STREET SUFFERN STREET



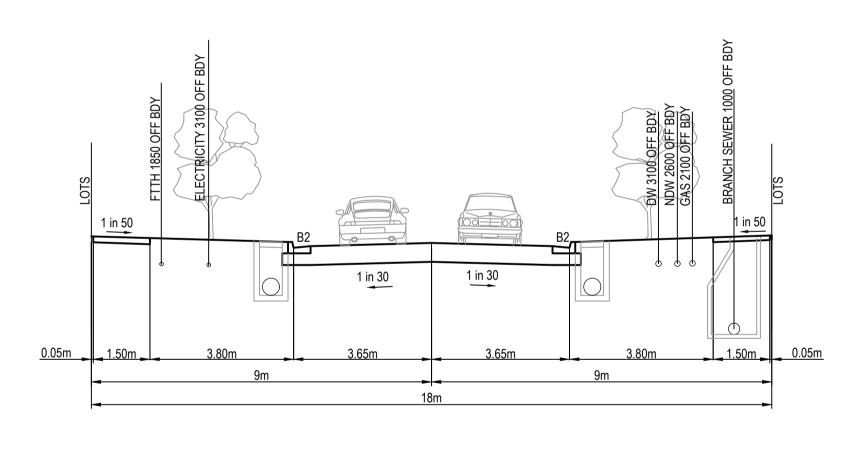
16m ACCESS STREET



16m ACCESS STREET PUNT WAY



22m MODIFIED ACCESS STREET EUCALYPTUS PARADE



18m ACCESS STREET DEMESNE DRIVE

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AS CONSTRUCTED SCALE AS SHOWN AT A1





Olivine Estate - Stage 23
Whittlesea City Council
Road and Drainage
Typical Cross Sections

MELWAYS REF



— G — — т — TELSTRA OPTIC FIBRE ____ o ___ — w — WATER RECYCLE WATER —— RW — — Ад — AG. DRAIN —(GW)— 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 —0/H E — <u>—</u>Ех G — EXISTING GAS <u>—</u>Ех Т — EXISTING TELSTRA <u>—</u>Ех 0 — **EXISTING OPTIC FIBRE** —Ex W — **EXISTING WATER** —Ex RW — EXISTING RECYCLED WATER —Ex.Ag — EXISTING AG. DRAIN ---(GWR)--**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 —Fut G — **FUTURE GAS FUTURE TELSTRA** FUTURE OPTIC FIBRE —Fut W -**FUTURE WATER** -Fut RW -FUTURE RECYCLED WATER FUTURE AG. DRAIN FUTURE SERVICE CONDUITS **FUTURE TACTILE PAVERS EXISTING SURFACE LEVEL** FINISHED BUILDING LINE LEVEL FS140.35 FR157.40 FINISHED RIDGE LINE LEVEL CH270.00 TW159.60 TOP OF RETAINING WALL LEVEL BOTTOM OF RETAINING WALL LEVEL EXISTING RETAINING WALL FUTURE RETAINING WALL STRUCTURAL FILL > 200mm DEEP EXISTING STRUCTURAL FILL > 200mm DEEP CUT > 200mm DEEP **DIRECTION OF FALL** \longrightarrow 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** ne locations of underground services are approximate only and

STORMWATER DRAIN, PIT & PROPERTY INLET

ELECTRICITY (U.GROUND) ELECTRICITY (O.HEAD)

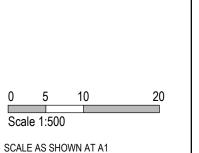
SEWER & MAINTENANCE STRUCTURES

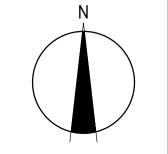
SWALE DRAIN

HOUSE DRAIN

No guarantee is given that all existing services are shown. ocate all underground services before commencement of works DIAL 1100 BEFORE YOU DIG www.1100.com.au

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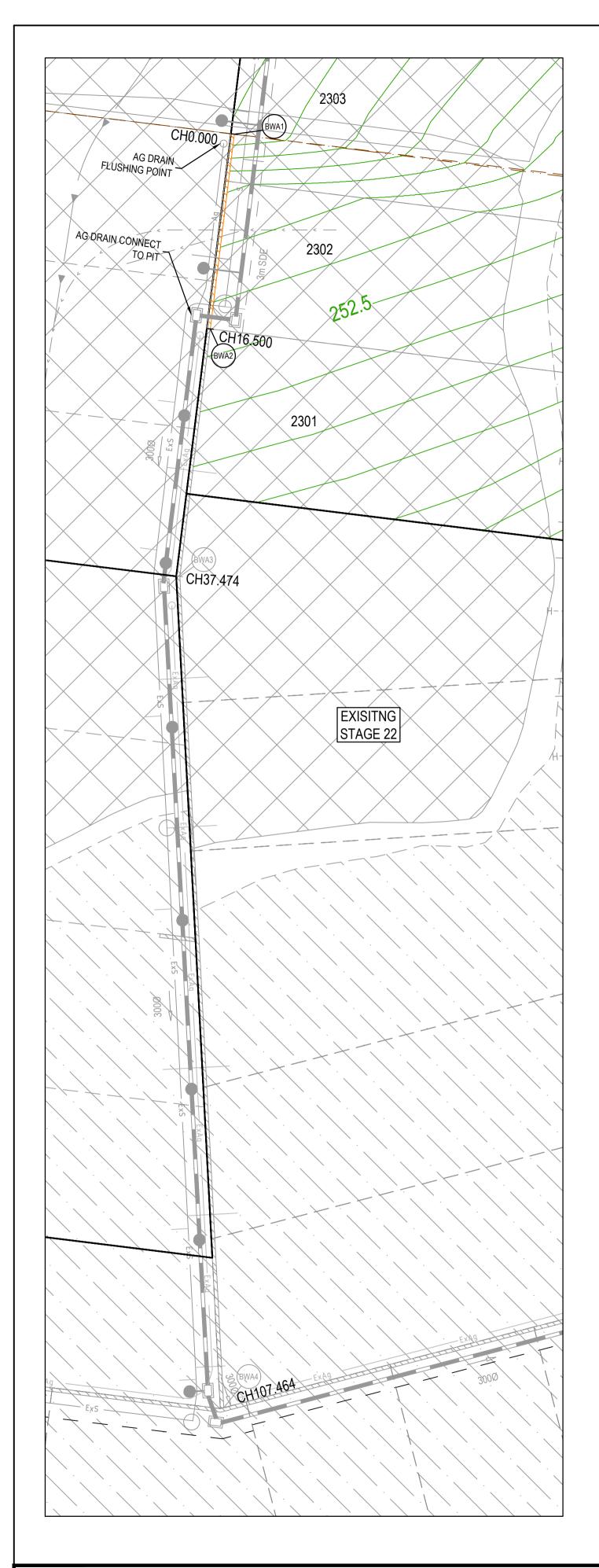


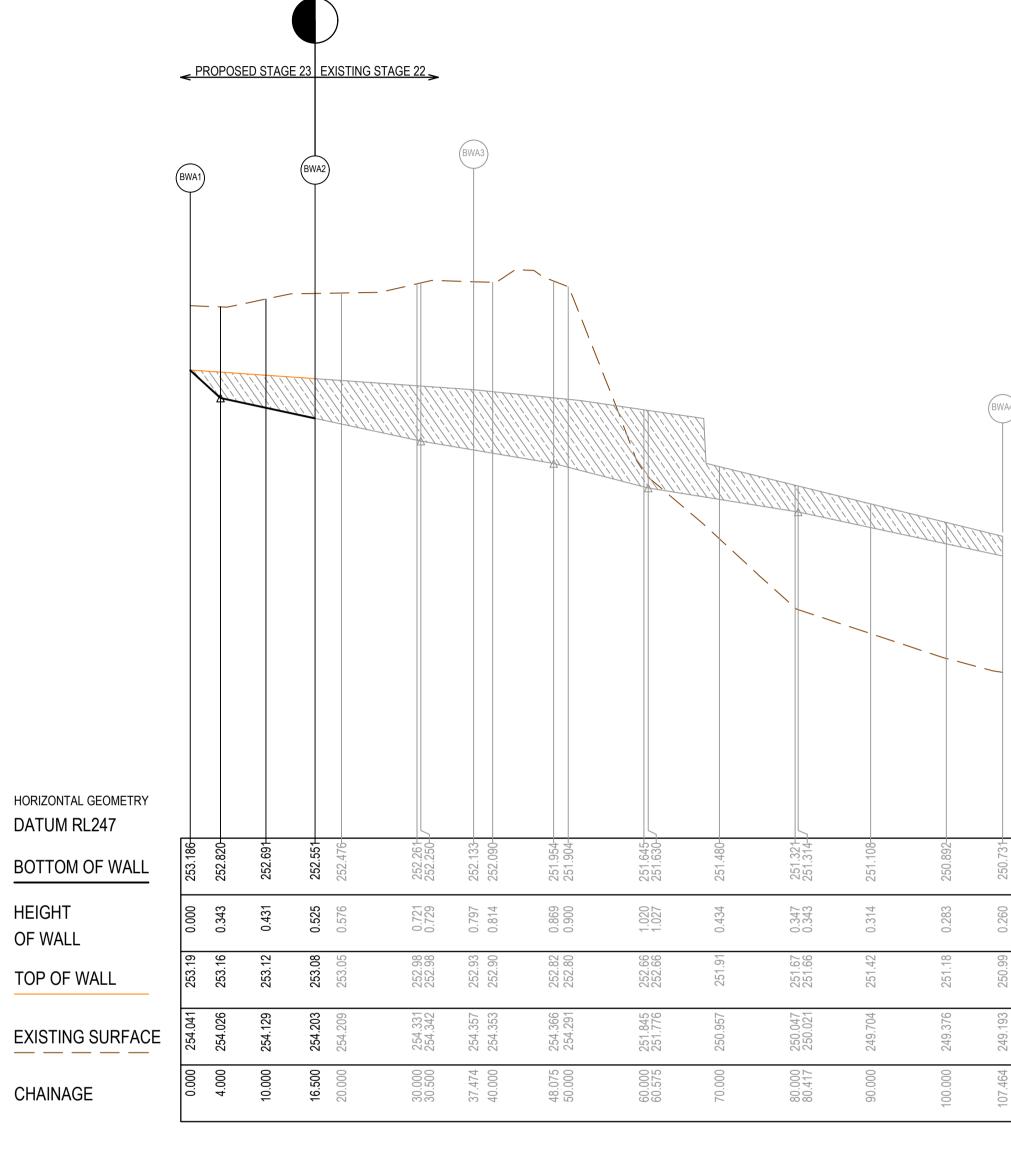


Olivine Estate - Stage 23
Whittlesea City Council
Road and Drainage
Earthworks & Retaining Wall

PROJECT / DRAWING No. 1700E-023-131

SHEET No. REVISION 2





RETAINING WALL BWA - LONGITUDINAL SECTION

RETAINING WALL DESIGN AND APPROVALS REQUIREMENTS

NOTE: RETAINING WALL DETAILS AND DESIGN CERTIFICATION TO BE SUBMITTED TO COUNCIL PRIOR TO COMMENCEMENT OF CONSTRUCTION OF

RETAINING WALLS

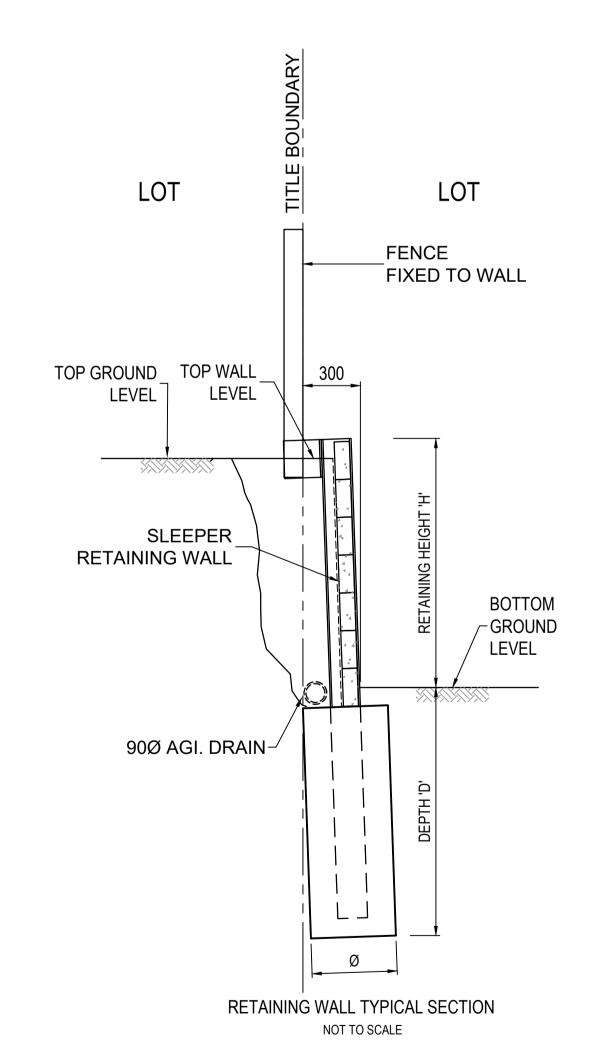
- CONTRACTOR TO OBTAIN ANY RELEVANT BUILDING PERMITS. COPY OF BUILDING PERMIT TO BE PROVIDED TO PRINCIPAL.
- CONTRACTOR TO PROVIDE STRUCTURAL ENGINEER INSPECTION AND CERTIFICATION FOR CONSTRUCTION OF ALL WALLS, IRRESPECTIVE OF NEED FOR PERMIT OR OTHERWISE.
- CONTRACTOR TO ENSURE ALL REQUIREMENTS OF BUILDING PERMIT HAVE BEEN ADDRESSED.

ALIGNMENT BWA

Point no	Easting	Northing	RL
BWA1	323018.486	5844570.408	253.186
BWA2	323016.465	5844554.032	252.551
BWA3	323013.897	5844533.216	252.133
BWA4	323017.597	5844463.323	250.731

<u>LEGEND</u> — — EXISTING SURFACE ——— DESIGN LINE RETAINING WALL - CONCRETE SLEEPER

LEGEND ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY						
	STORMWATER DRAIN, PIT & PROPERTY INLET					
	MAIN DRAIN					
	SWALE DRAIN					
● S —	SEWER & MAINTENANCE STRUCTURES					
H	HOUSE DRAIN					
—— Е ——	ELECTRICITY (U.GROUND)					
——0/H ——	ELECTRICITY (O.HEAD)					
—— G ——	GAS					
— т —	TELSTRA					
0	OPTIC FIBRE					
—— w ——	WATER					
RW	RECYCLE WATER					
—— Ag ——	AG. DRAIN					
— <u>GW</u> —	SERVICE CONDUITS					
CH270.00	CHAINAGE					
TW159.60	TOP OF RETAINING WALL LEVEL					
BW159.00	BOTTOM OF RETAINING WALL LEVEL					
	EXISTING RETAINING WALL					
	RETAINING WALL - CONCRETE SLEEPER					
—— Ag ——	AG. DRAIN					



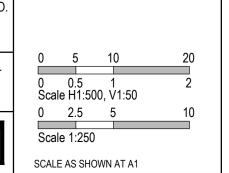
AS CONSTRUCTED PLANS

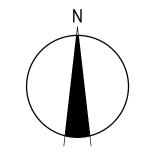
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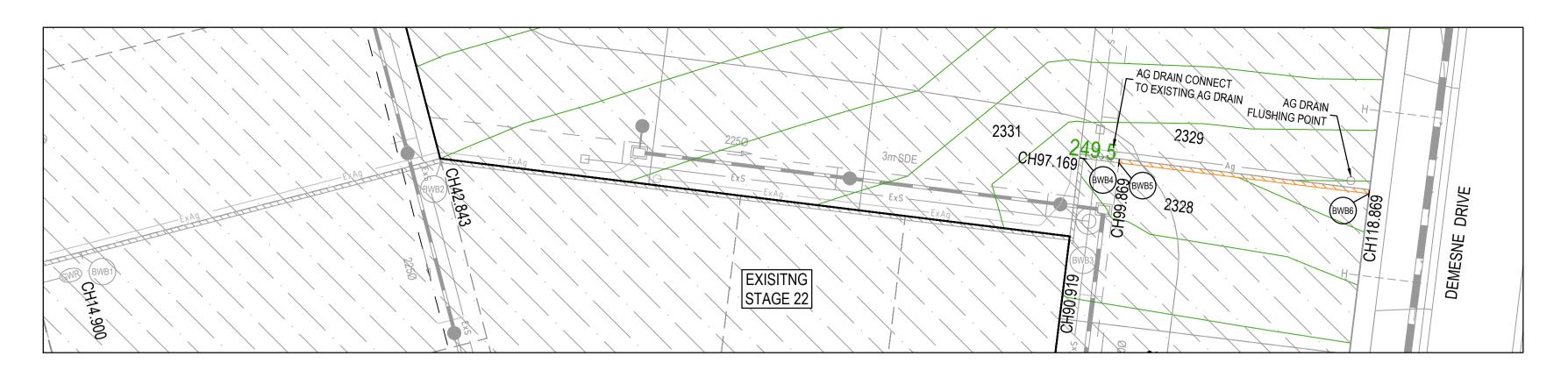








Olivine Estate - Stage 23
Whittlesea City Council
Road and Drainage
Retaining Wall Setout Plan - 1



EXISTING STAGE 22 PROPOSED STAGE 23

249. 249. 249.

ALIGNMENT BWB

Point no	Easting	Northing	RL
BWB1	323088.170	5844455.921	249.601
BWB2	323115.214	5844462.955	249.231
BWB3	323162.928	5844457.067	249.265
BWB4	323163.693	5844463.270	249.310
BWB5	323166.373	5844462.940	249.331
BWB6	323185.230	5844460.613	249.475

ALIGNMENT BWC

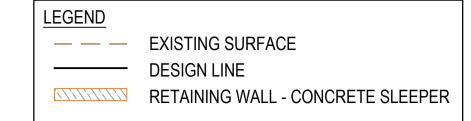
			
Point no	Easting	Northing	RL
BWC1	323069.173	5844542.692	252.059
BWC2	323100.635	5844538.811	251.300
BWC3	323100.084	5844534.344	251.290
BWC4	323102.466	5844534.051	250.954
BWC5	323165.422	5844526.283	250.638
BWC6	323166.035	5844531.245	250.709
BWC7	323193.999	5844527.795	251.108

RETAINING WALL DESIGN AND APPROVALS REQUIREMENTS

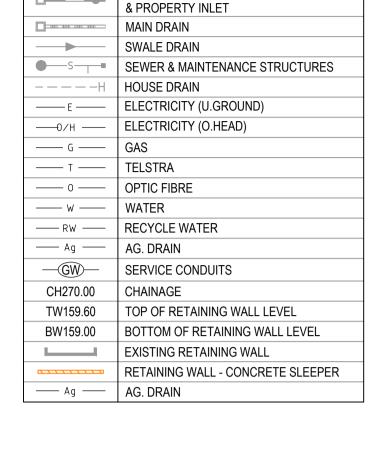
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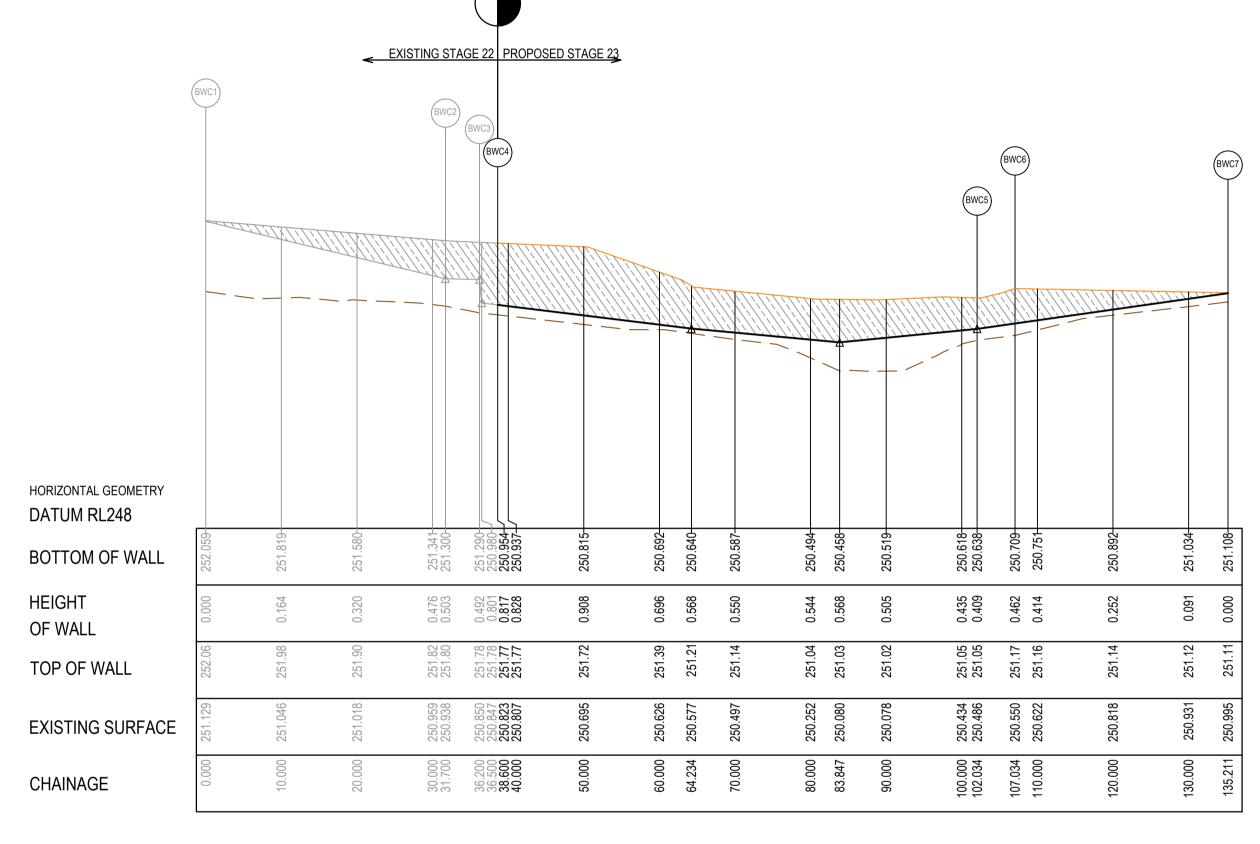
RETAINING WALLS

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- CONTRACTOR TO ENSURE ALL REQUIREMENTS OF BUILDING PERMIT HAVE BEEN ADDRESSED.



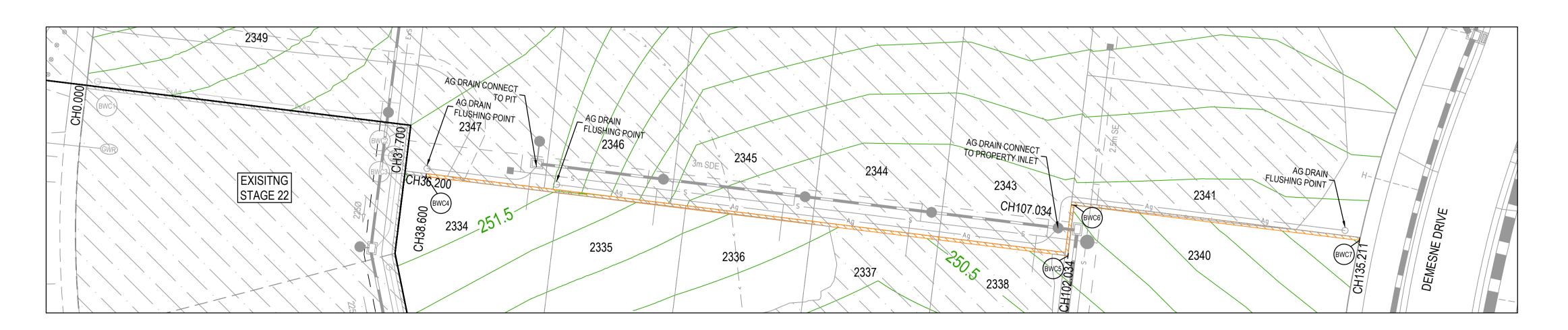
	STORMWATER DRAIN, PIT & PROPERTY INLET
<u> </u>	MAIN DRAIN
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
H	HOUSE DRAIN
— Е —	ELECTRICITY (U.GROUND)
—0/н —	ELECTRICITY (O.HEAD)
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	RETAINING WALL - CONCRETE SLEEPER
A.a	AC DDAIN

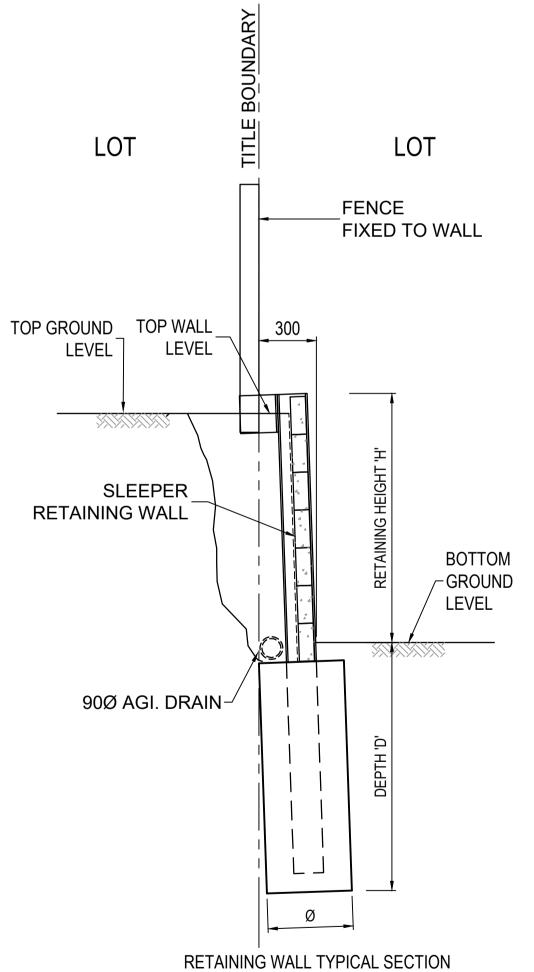




RETAINING WALL BWB - LONGITUDINAL SECTION

RETAINING WALL BWC - LONGITUDINAL SECTION





NOT TO SCALE

AS CONSTRUCTED PLANS

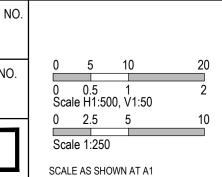
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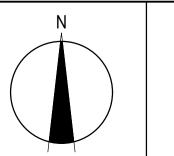




AS CONSTRUCTED









Melbourne, VIC, 3008, Australia

03 9514 1500



Olivine Estate - Stage 23 Whittlesea City Council Road and Drainage Retaining Wall Setout Plan - 2

PROJECT / DRAWING No. 1700E-023-133

HORIZONTAL GEOMETRY

BOTTOM OF WALL

DATUM RL246

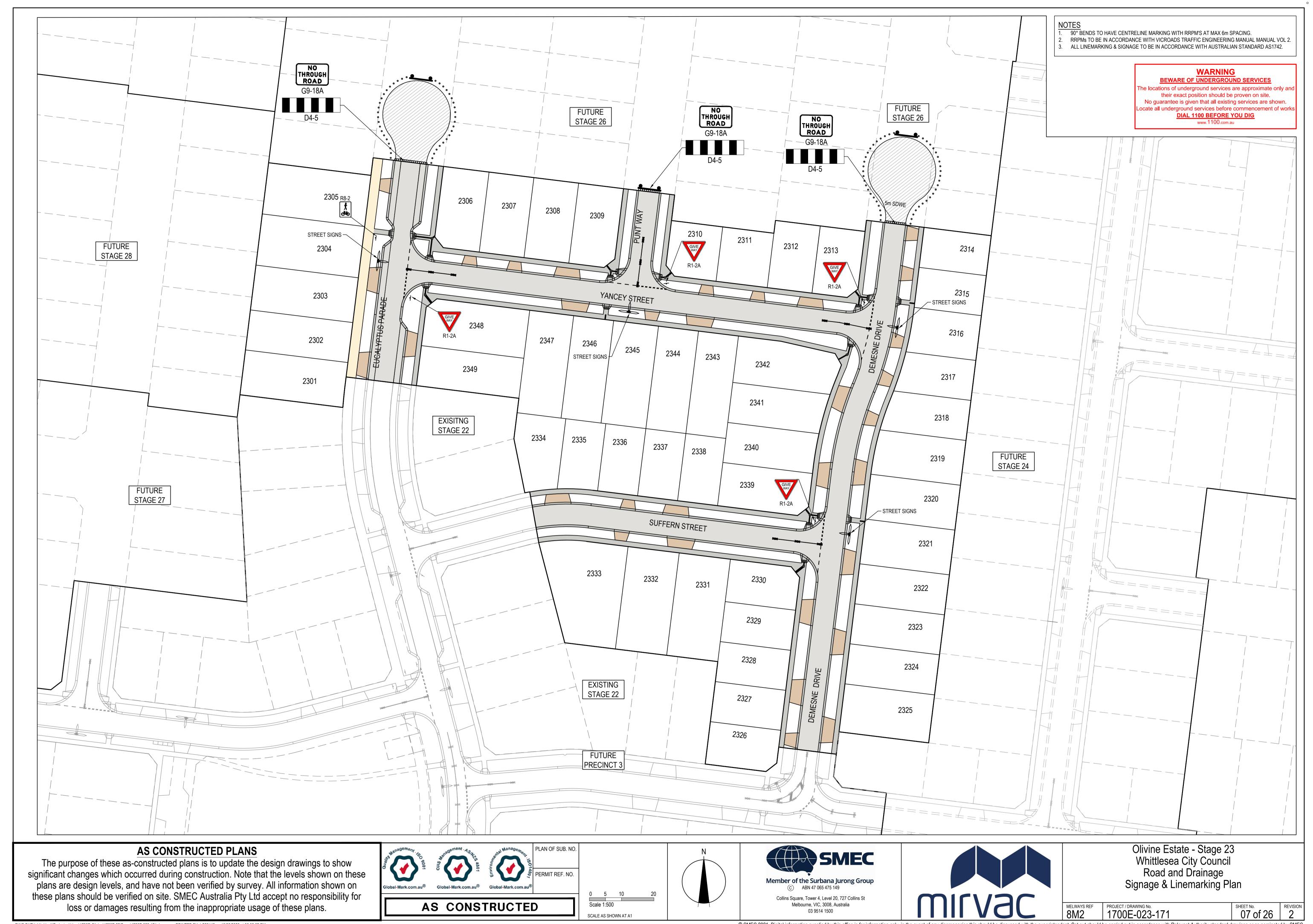
HEIGHT

OF WALL

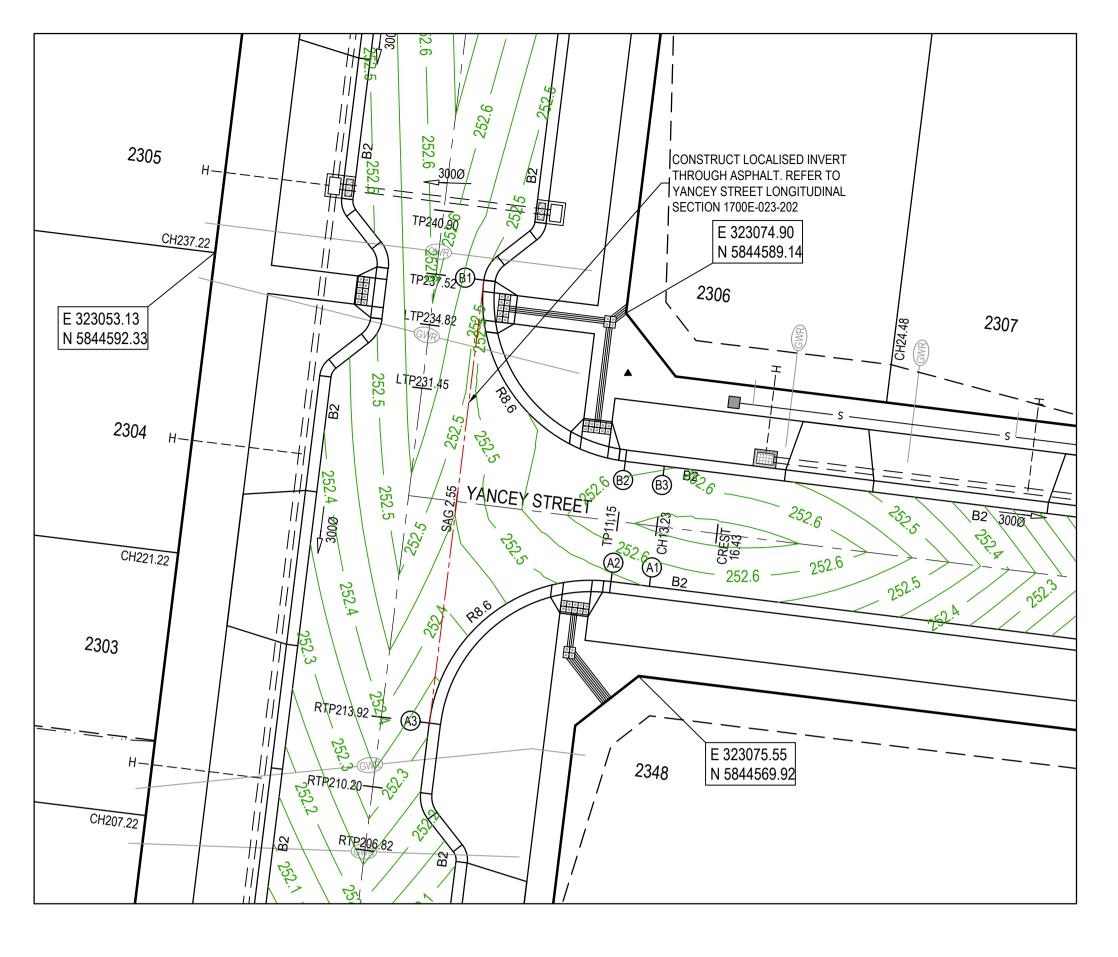
TOP OF WALL

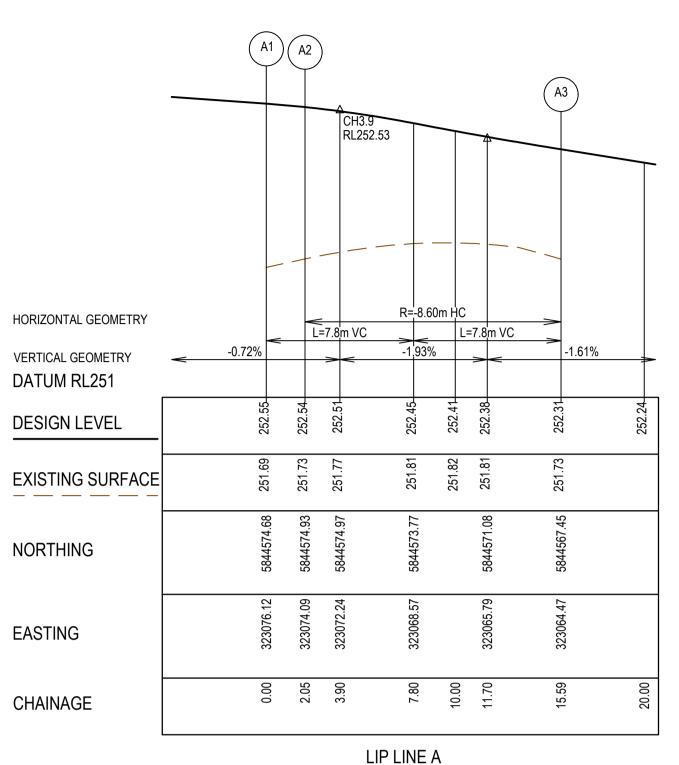
CHAINAGE

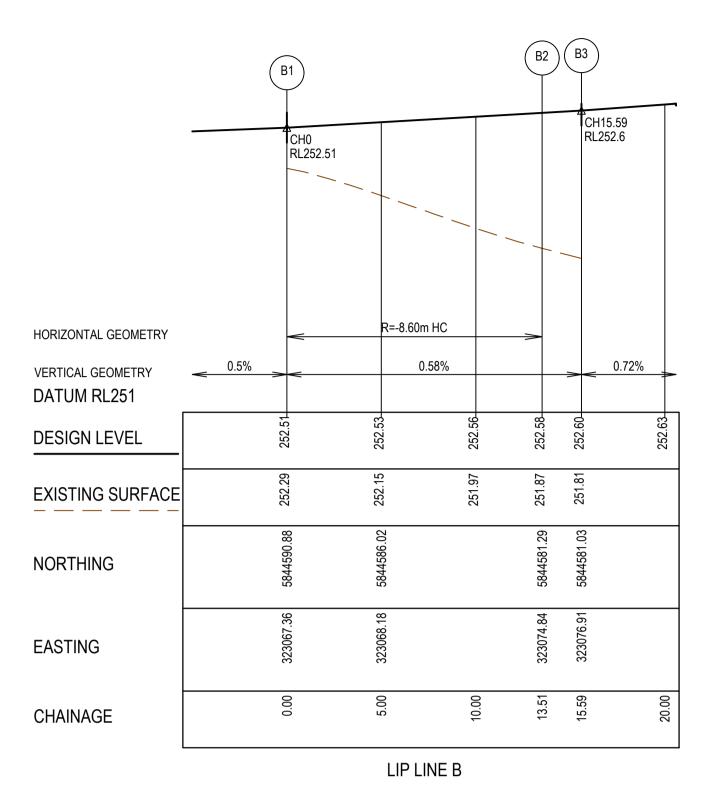
EXISTING SURFACE

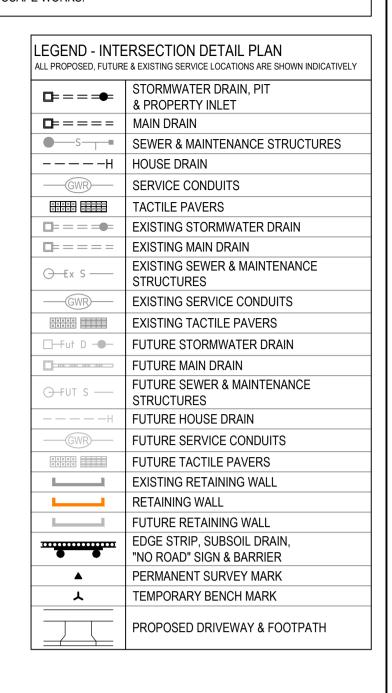


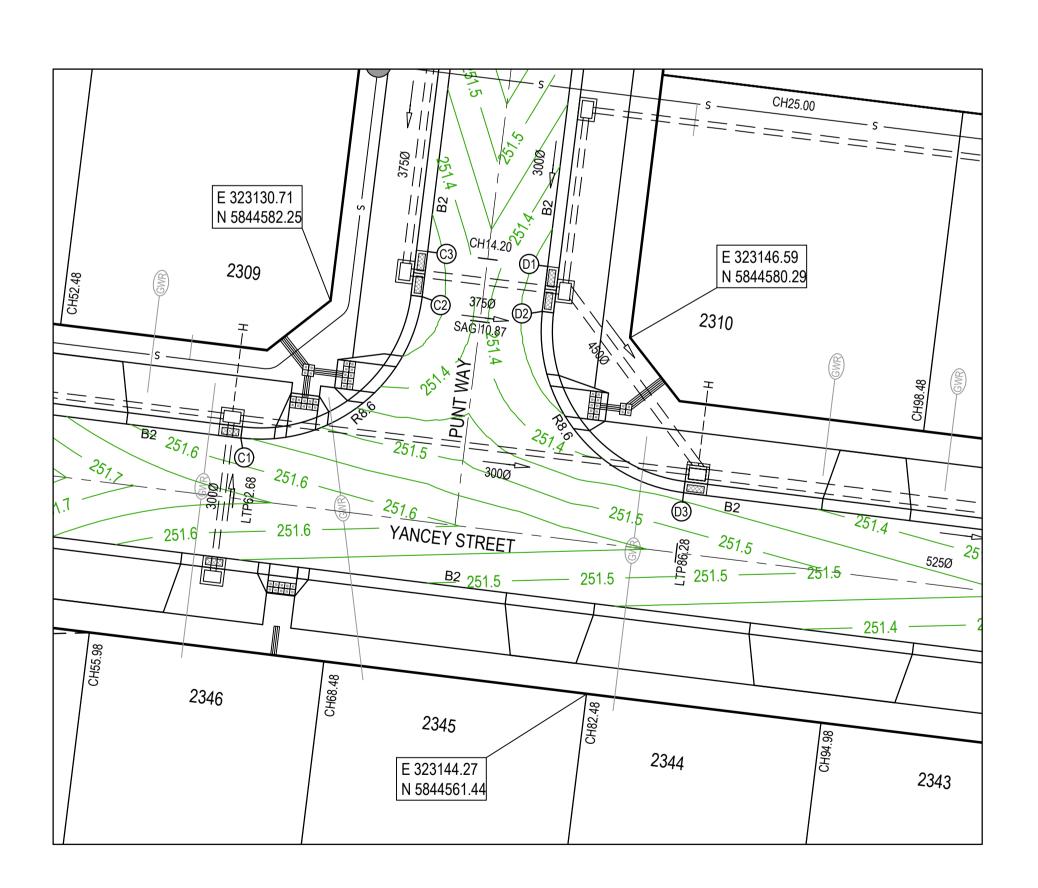
- ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS. ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
- VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.

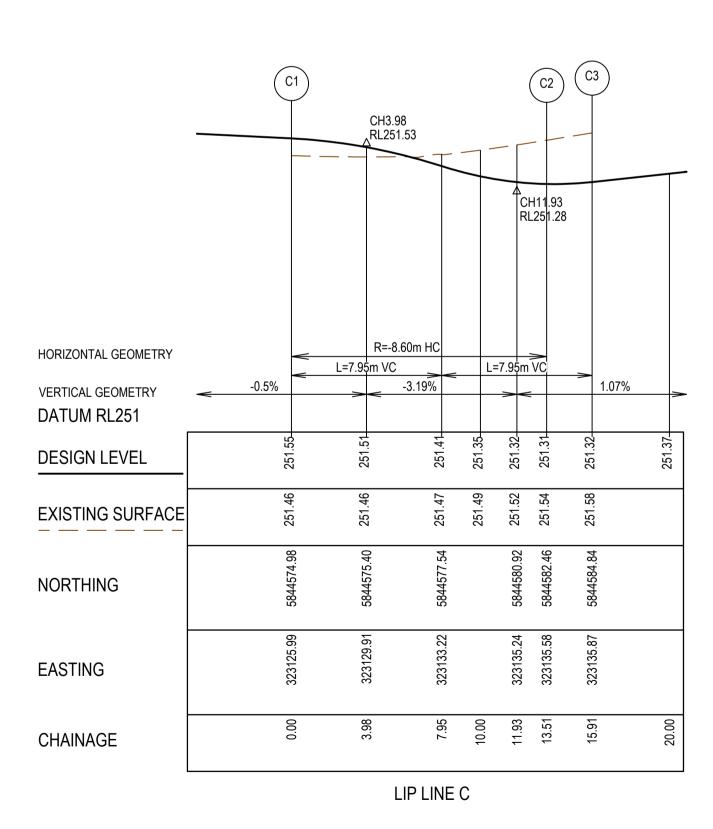


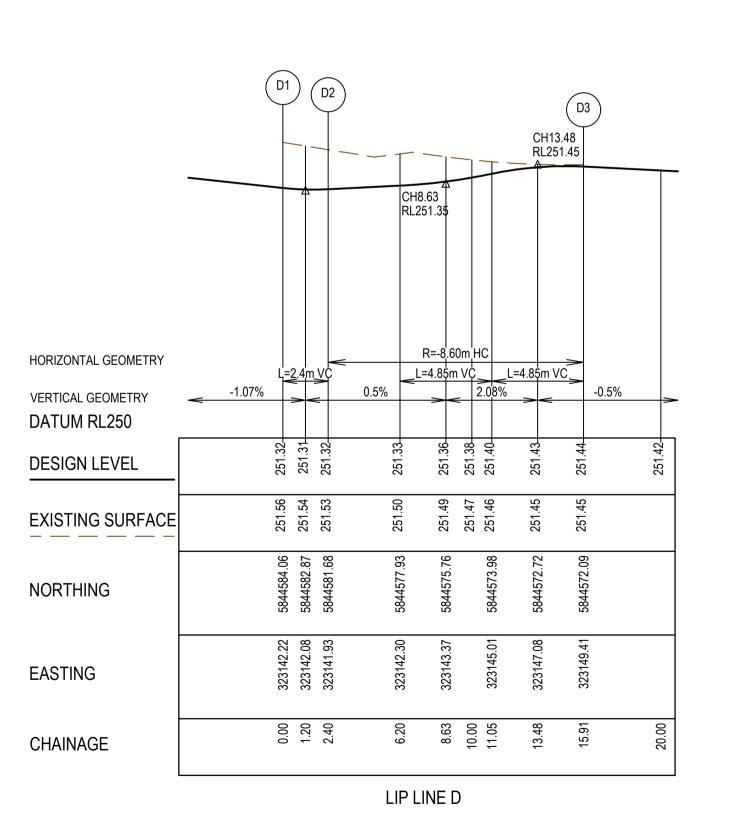












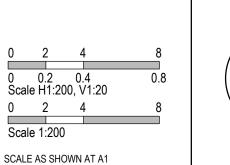
The purpose of these as-constructed plans is to update the design drawings to show significant changes which occurred during construction. Note that the levels shown on these plans are design levels, and have not been verified by survey. All information shown on these plans should be verified on site. SMEC Australia Pty Ltd accept no responsibility for loss or damages resulting from the inappropriate usage of these plans.









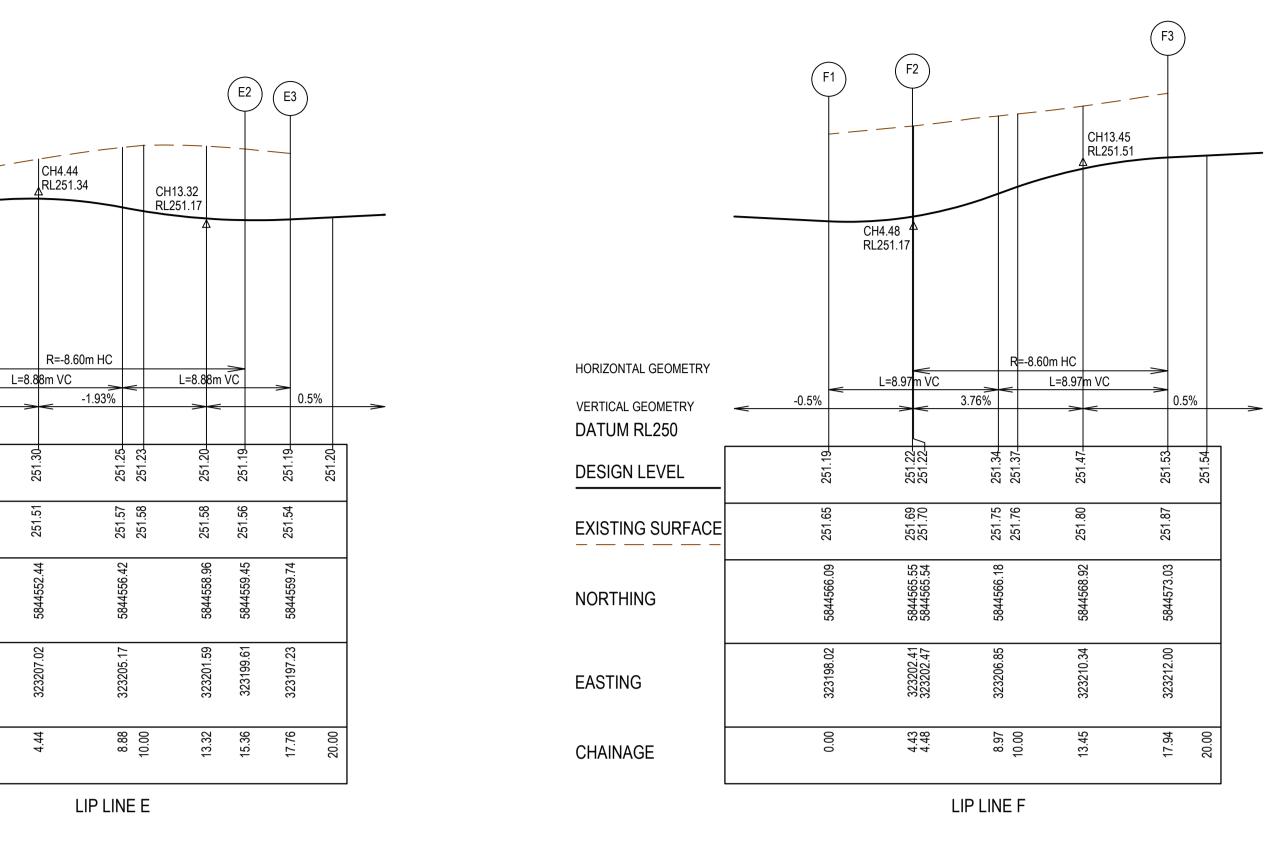




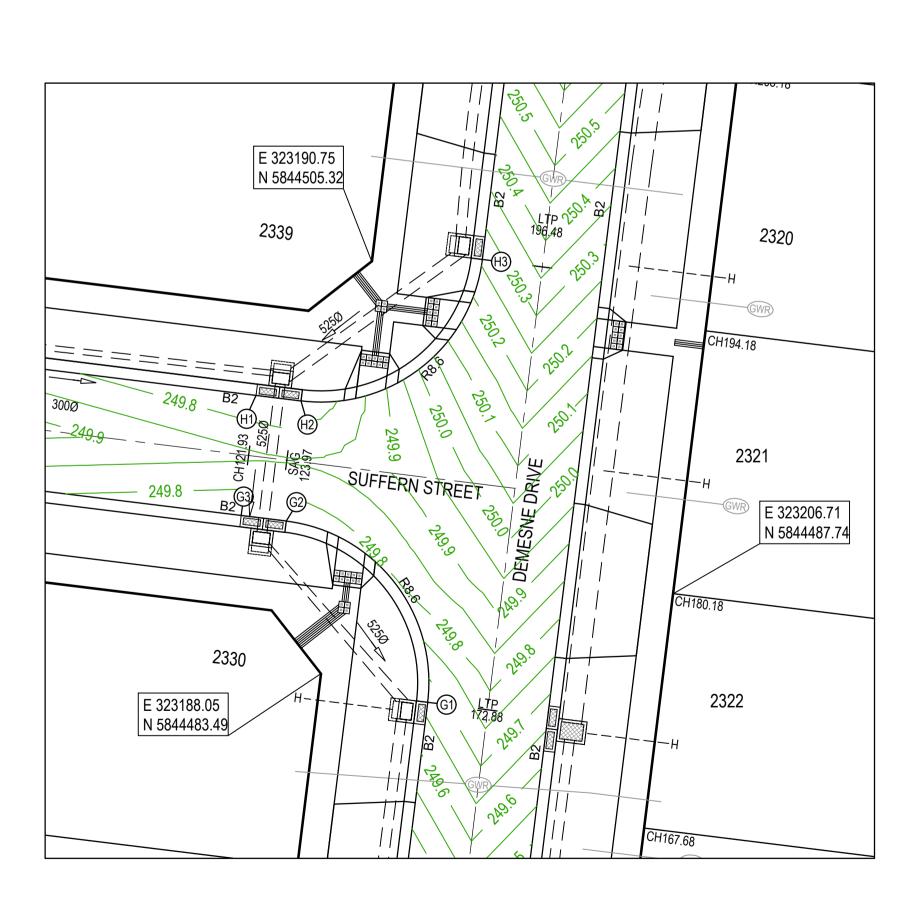


Olivine Estate - Stage 23
Whittlesea City Council
Road and Drainage
Intersection Detail plan - 1

- ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS. 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.



ALL PROPOSED, FUTUR	E & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVEL
□====	STORMWATER DRAIN, PIT
	& PROPERTY INLET
====	MAIN DRAIN
S	SEWER & MAINTENANCE STRUCTURES
H	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
<u> </u>	EXISTING STORMWATER DRAIN
□====	EXISTING MAIN DRAIN
<u></u> —Ех S ——	EXISTING SEWER & MAINTENANCE STRUCTURES
GWR	EXISTING SERVICE CONDUITS
0000	EXISTING TACTILE PAVERS
□Fut D	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
O-FUT S	FUTURE SEWER & MAINTENANCE STRUCTURES
—————Н	FUTURE HOUSE DRAIN
(GWR)	FUTURE SERVICE CONDUITS
0 0 0 0 0	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN,
-	"NO ROAD" SIGN & BARRIER
A	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH



E 323206.14 N 5844572.95

2313

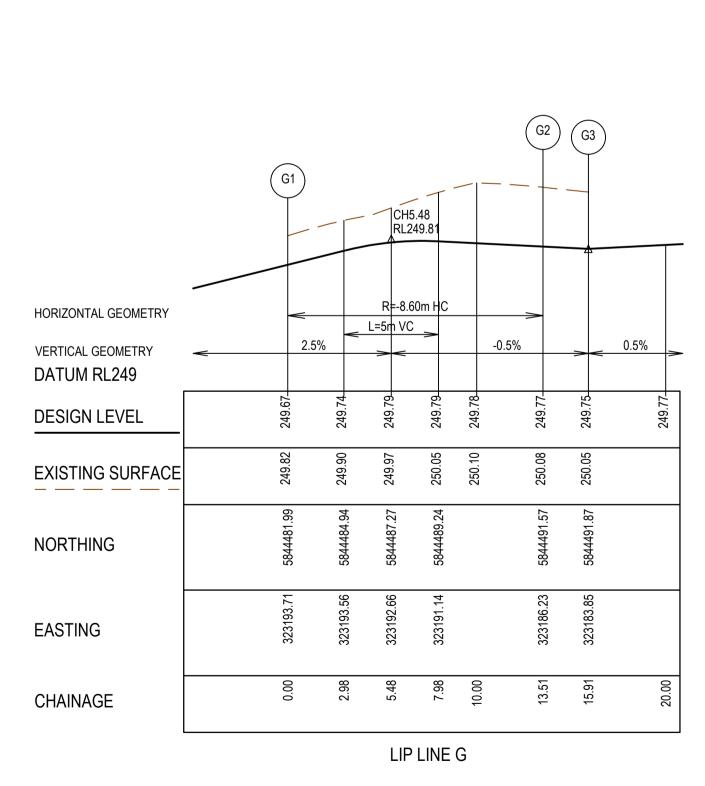
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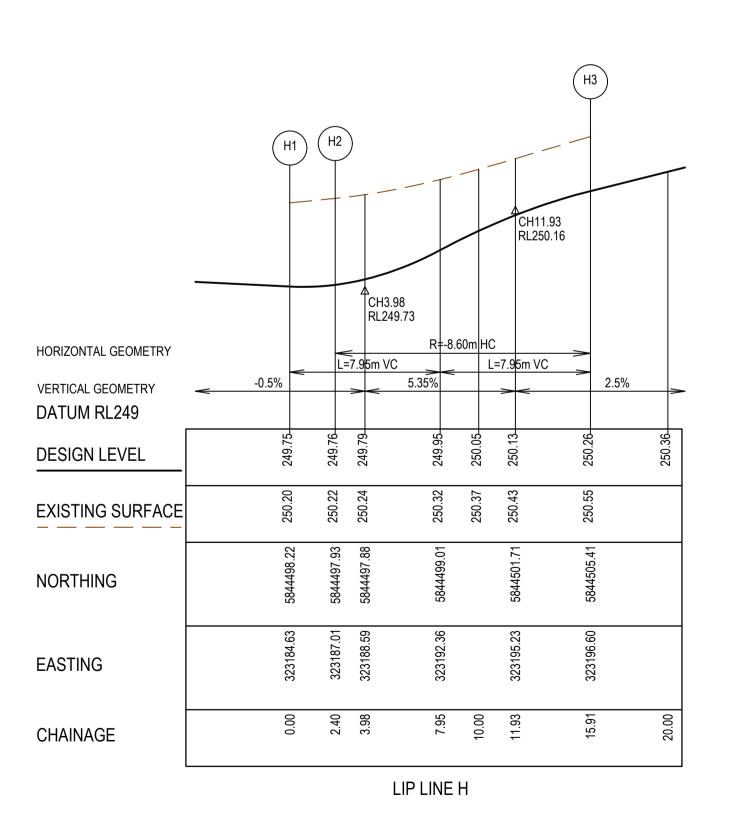
2342

CH229.45

E 323201.01

N 5844549.44





AS CONSTRUCTED PLANS

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CH274.30

CH261.80

CH248.89

2317

E 323221.03

N 5844553.48

HORIZONTAL GEOMETRY

VERTICAL GEOMETRY

DATUM RL250

DESIGN LEVEL

NORTHING

EASTING

CHAINAGE

EXISTING SURFACE

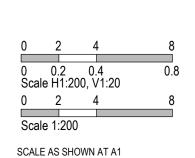
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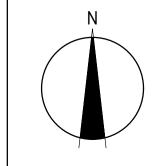




AS CONSTRUCTED



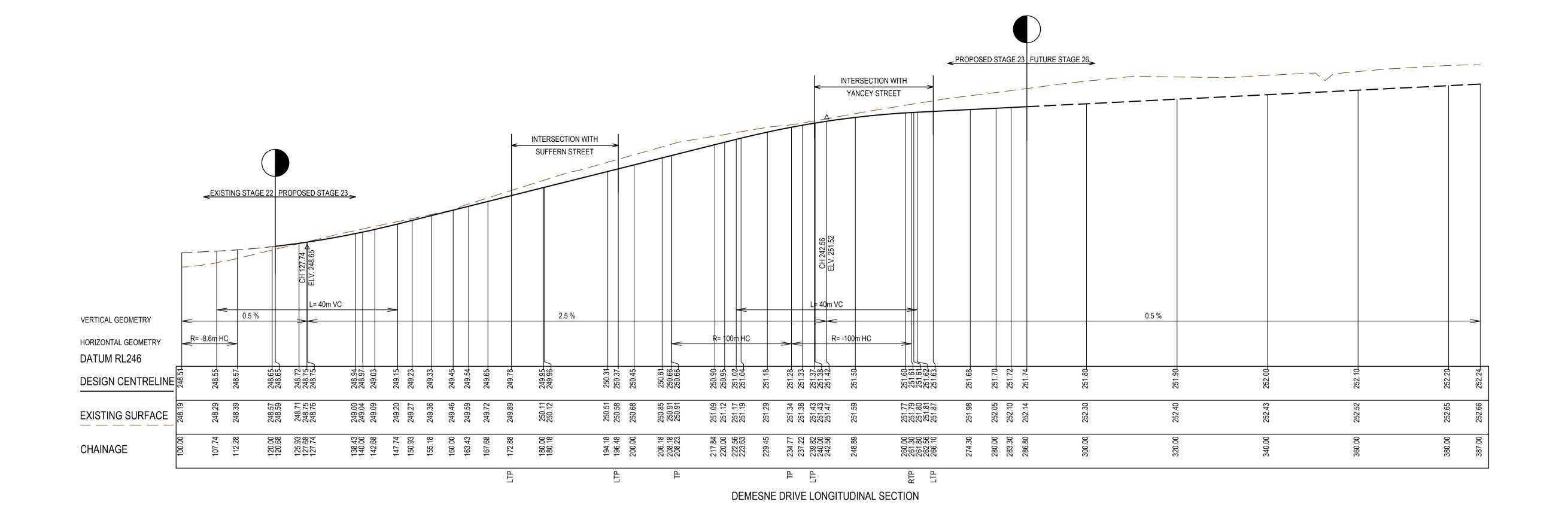


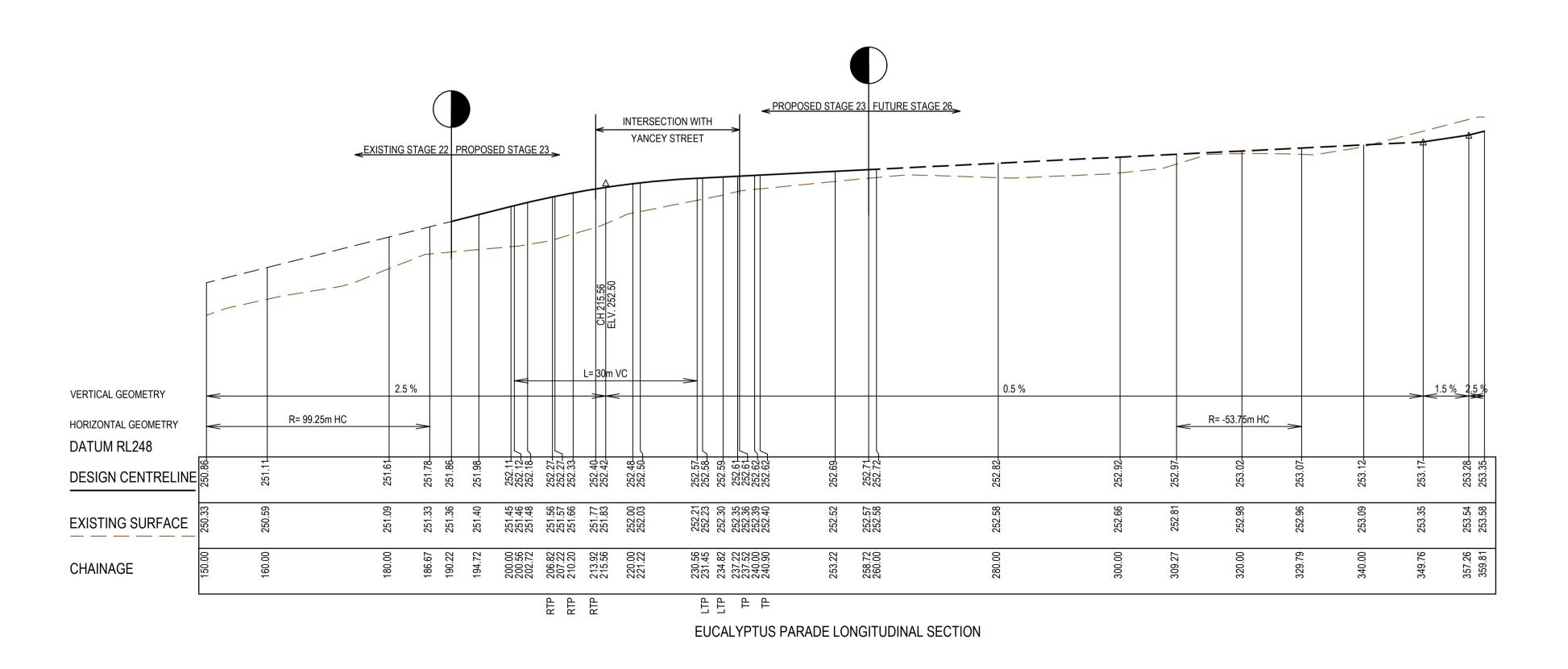






Olivine Estate - Stage 23
Whittlesea City Council
Road and Drainage
Intersection Detail plan - 2





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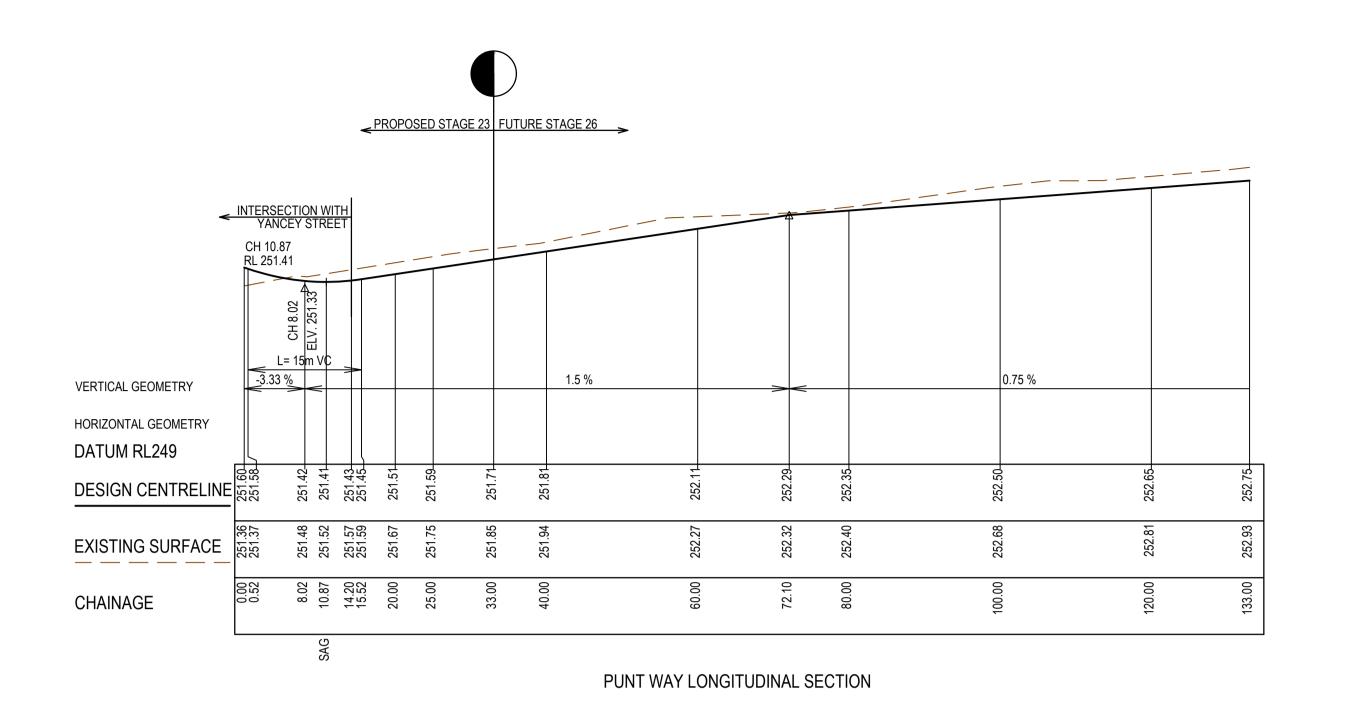


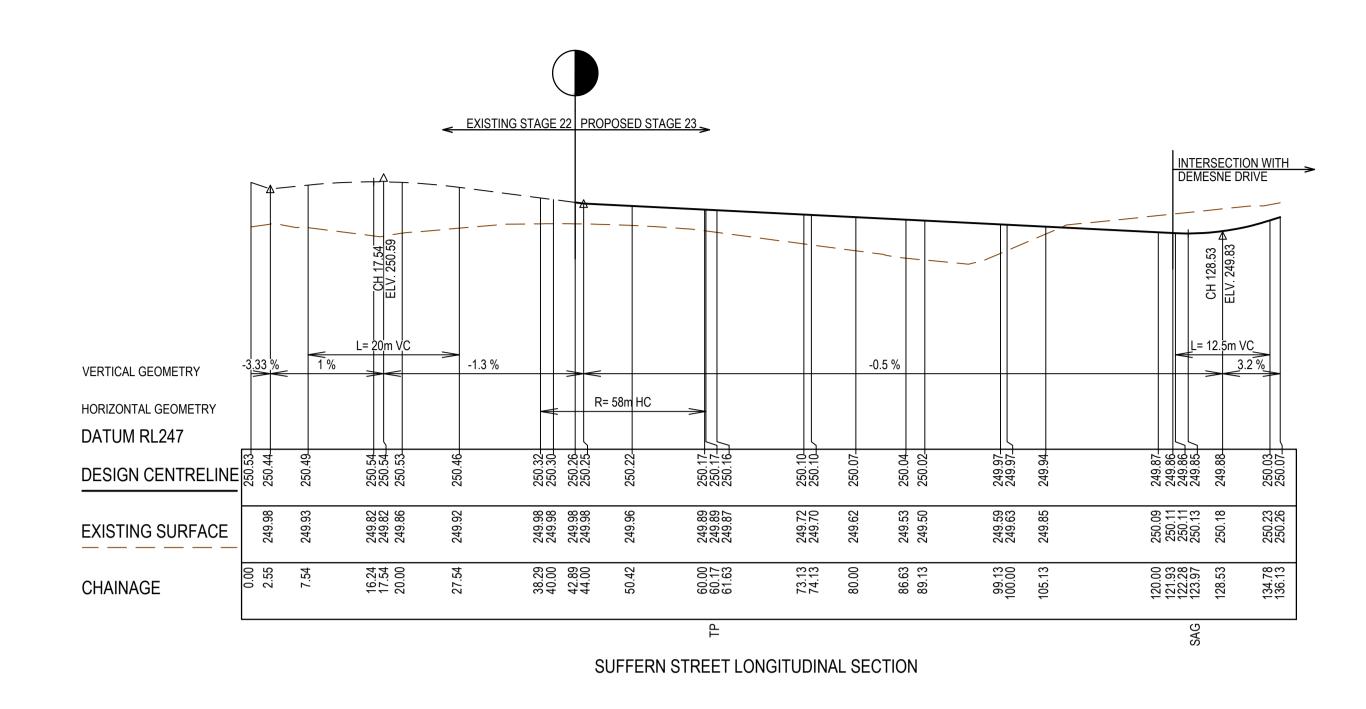


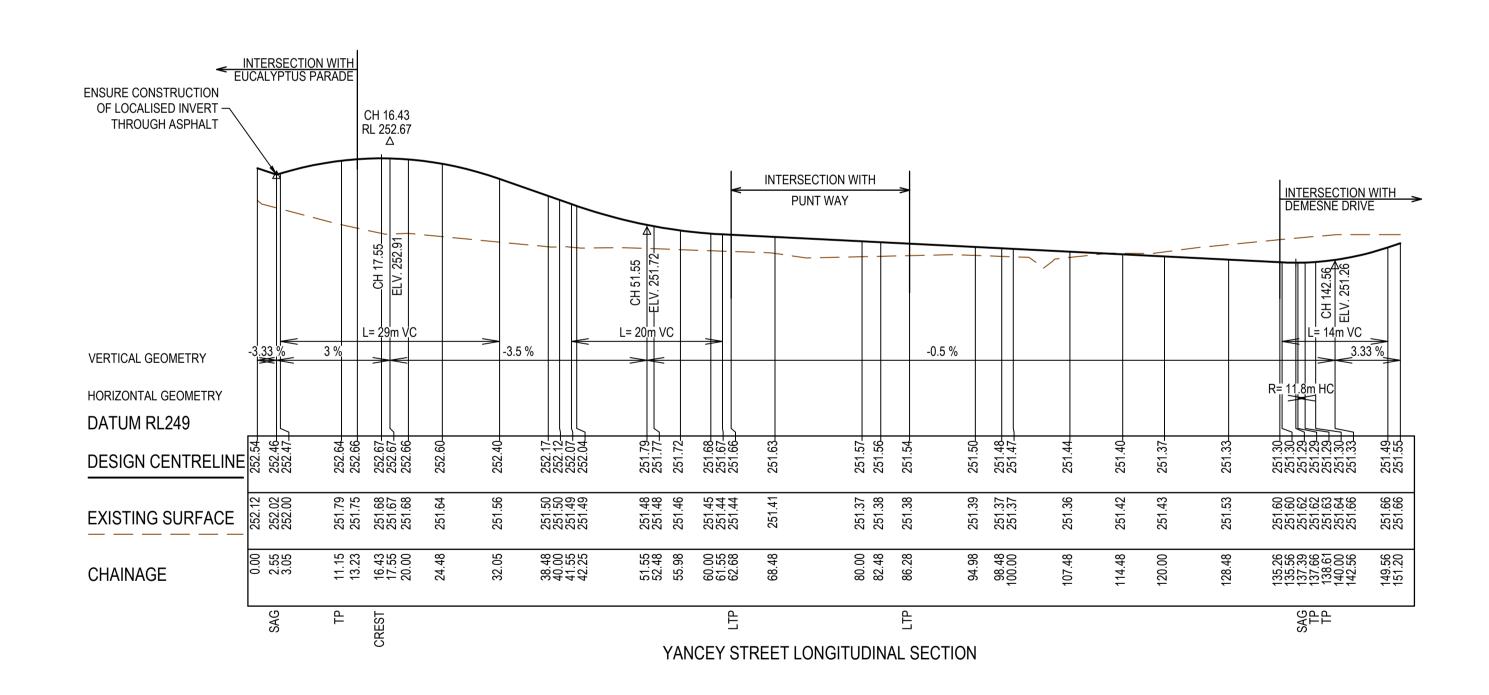


Olivine Estate - Stage 23
Whittlesea City Council
Road and Drainage
Longitudinal Section - 1

MELWAYS REF PROJECT / DRAWING No. 1700E-023-201

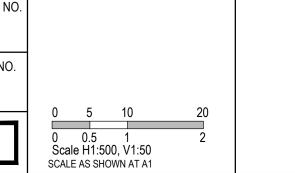






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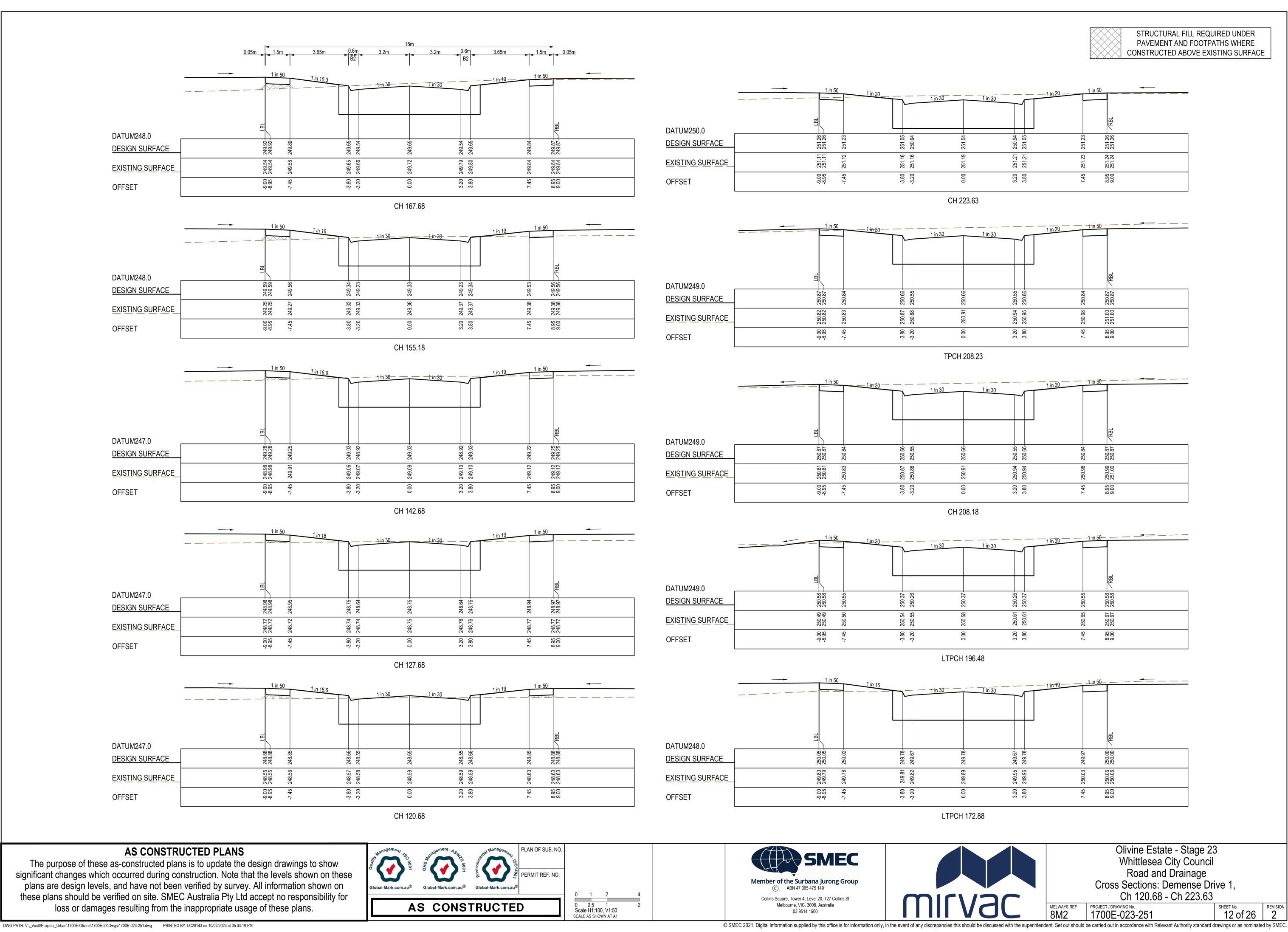


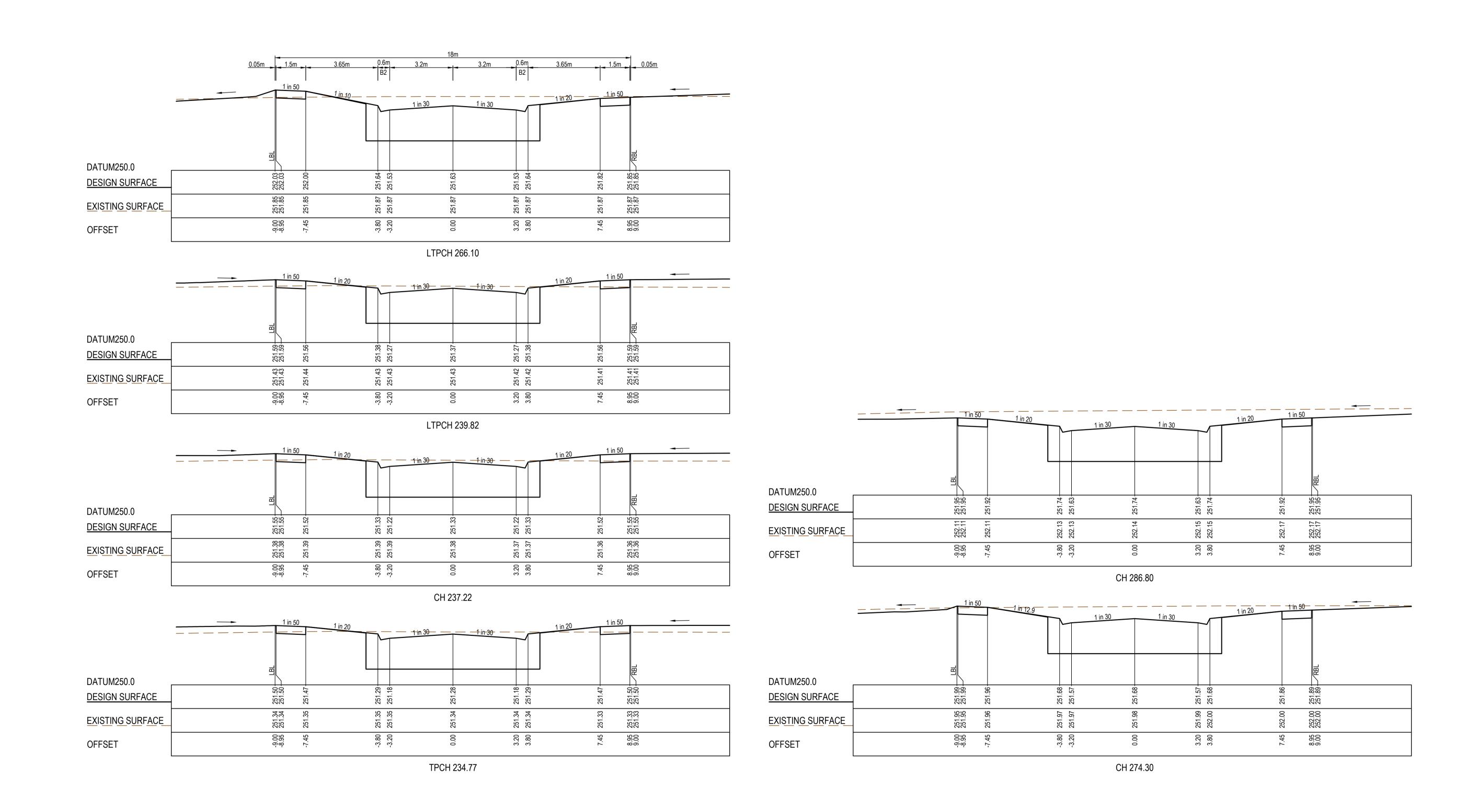




Olivine Estate - Stage 23
Whittlesea City Council
Road and Drainage
Longitudinal Section - 2

MELWAYS REF | PROJECT / DRAWING No. | SH | 8M2 | 1700E-023-202





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PERMIT REF. NO.

0 1 2 4
0 0.5 1 2
Scale H1:100, V1:50
SCALE AS SHOWN AT A1

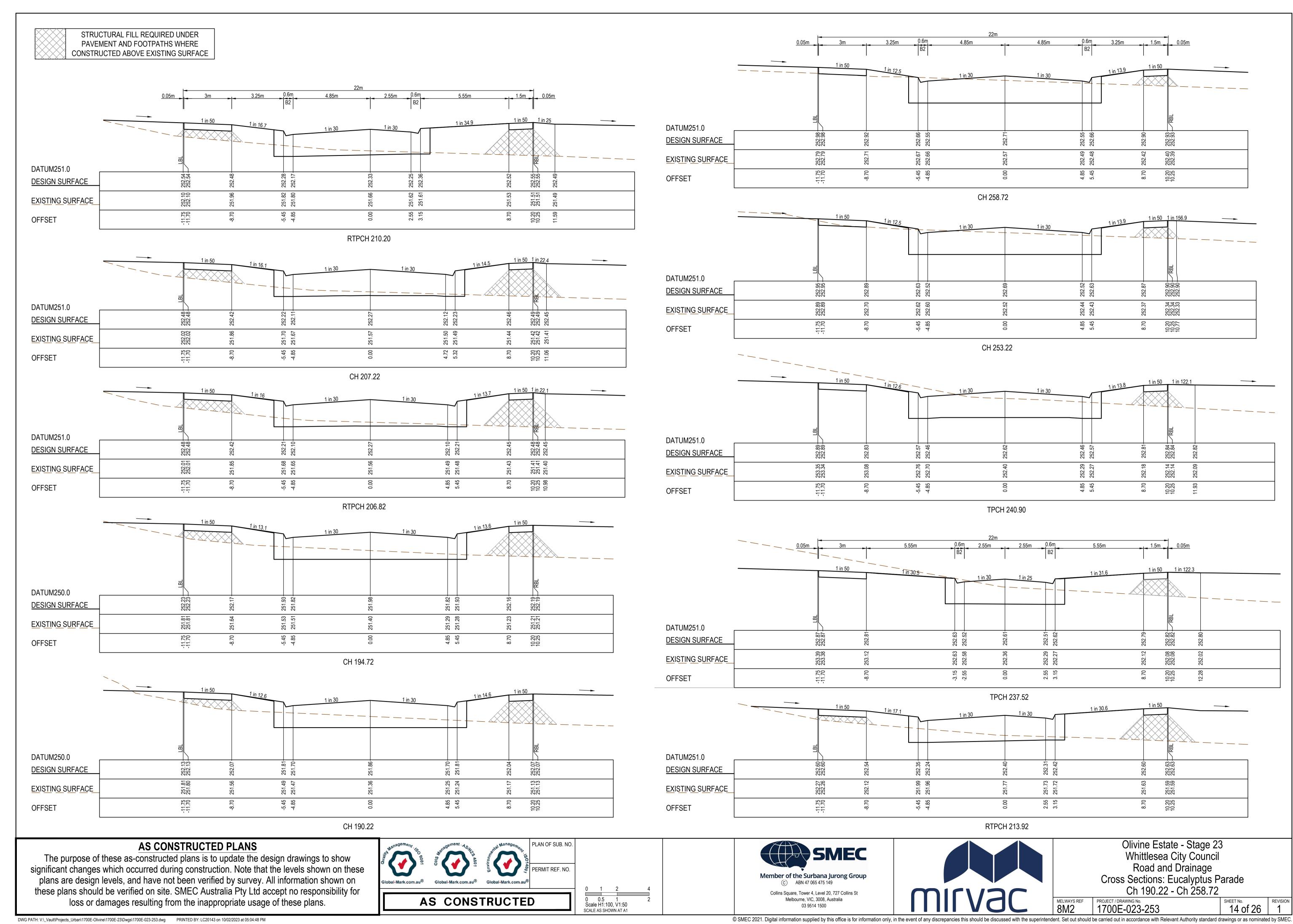


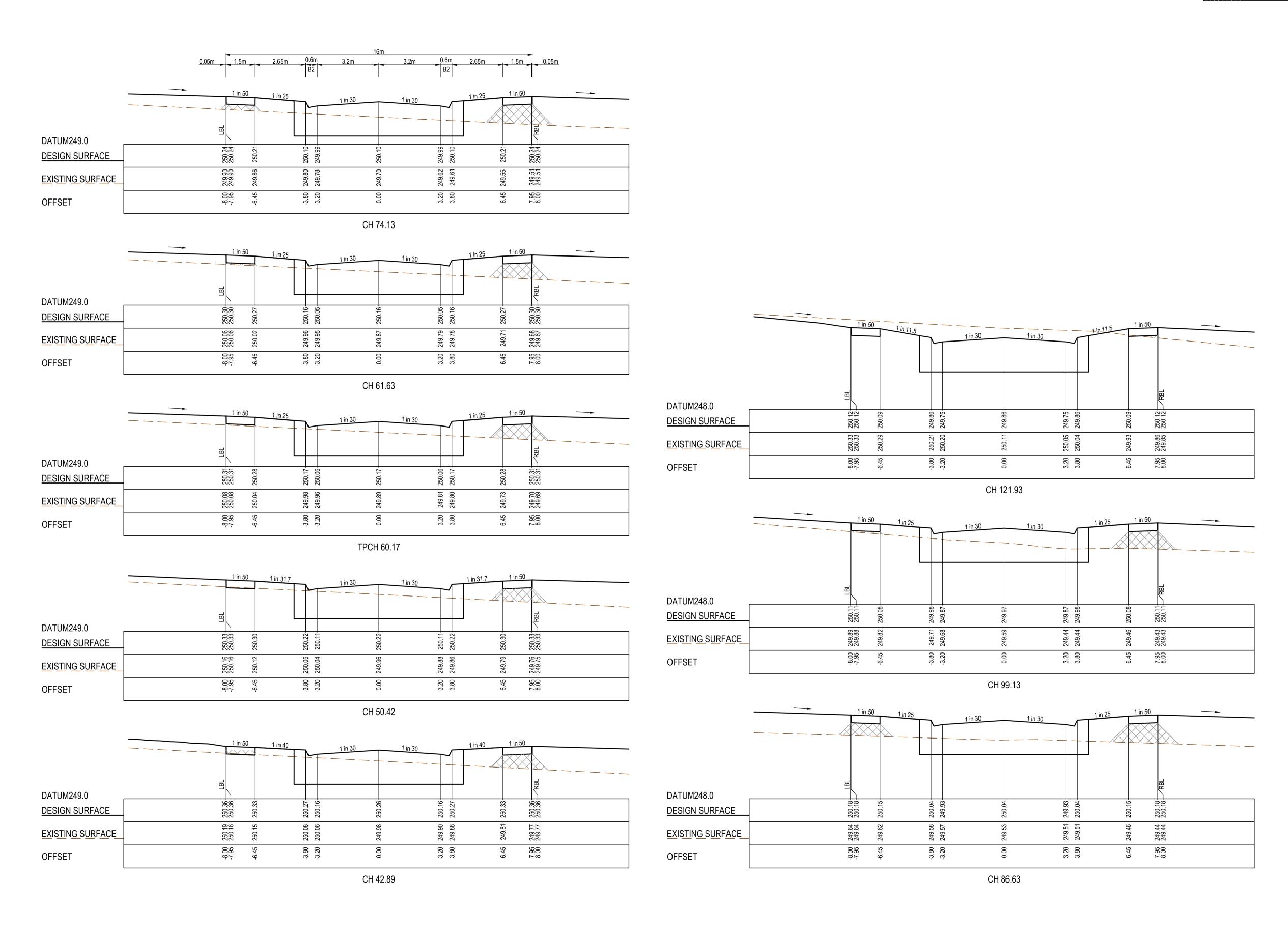


Olivine Estate - Stage 23
Whittlesea City Council
Road and Drainage
Cross Sections: Demense Drive 2,
Ch 234.77 - Ch 286.80

MELWAYS REF PROJECT / DRAWING No. 1700E-023-252

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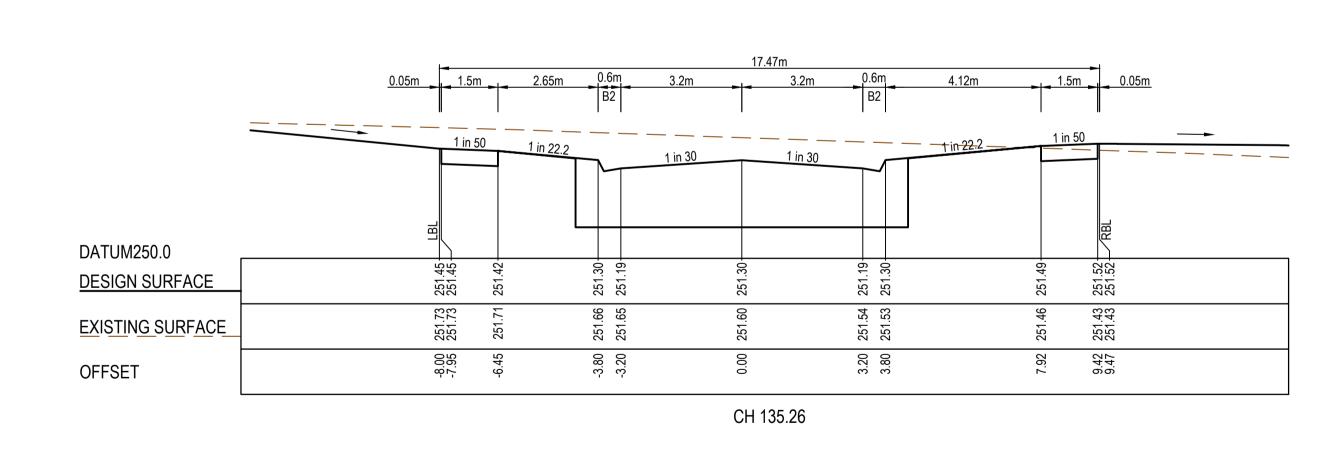
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0			4		
0 Scal	0.5 le H1:10	1 00, V1:50	2		

SCALE AS SHOWN AT A1



Olivine Estate - Stage 23
Whittlesea City Council
Road and Drainage
Cross Sections: Suffern Street
Ch 42.89 - Ch 121.93

MELWAYS REF PROJECT / DRAWING No. SHEET No. REV 1700E-023-254



YANCEY STREET

DATUM250.0 88 **DESIGN SURFACE** 251. 251. 251. 251. 88 EXISTING SURFACE 251 -8.00 -7.95 -3.80 7.95 8.00 OFFSET CH 33.00 DATUM250.0 251.82 251.82 828 **DESIGN SURFACE** 251. 251. 251 251 251.77 251.77 251.71 251.71 EXISTING SURFACE OFFSET CH 25.00 DATUM250.0 251.43 251.73-251.73 251.73-251.73-**DESIGN SURFACE** 251.55 251.55 251.60 251.60 .58 .58 EXISTING SURFACE 251 251 -8.00 -3.80 7.95 8.00 OFFSET CH 14.20

AS CONSTRUCTED PLANS

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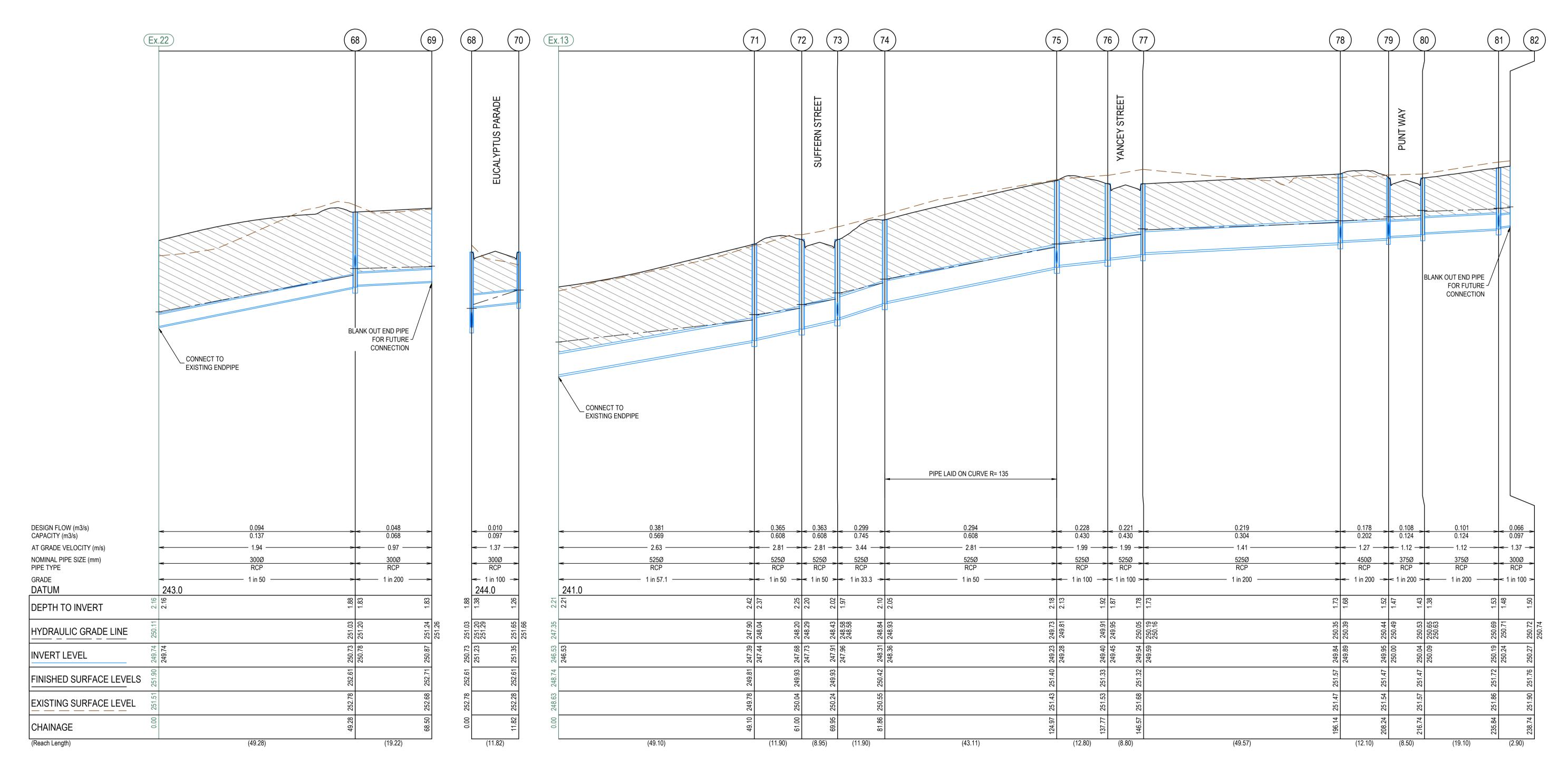
0 0.5 1 Scale H1:100, V1:50 SCALE AS SHOWN AT A1





PUNT WAY

Olivine Estate - Stage 23
Whittlesea City Council
Road and Drainage
Cross Sections: Yancey Street 2,
& Punt Way



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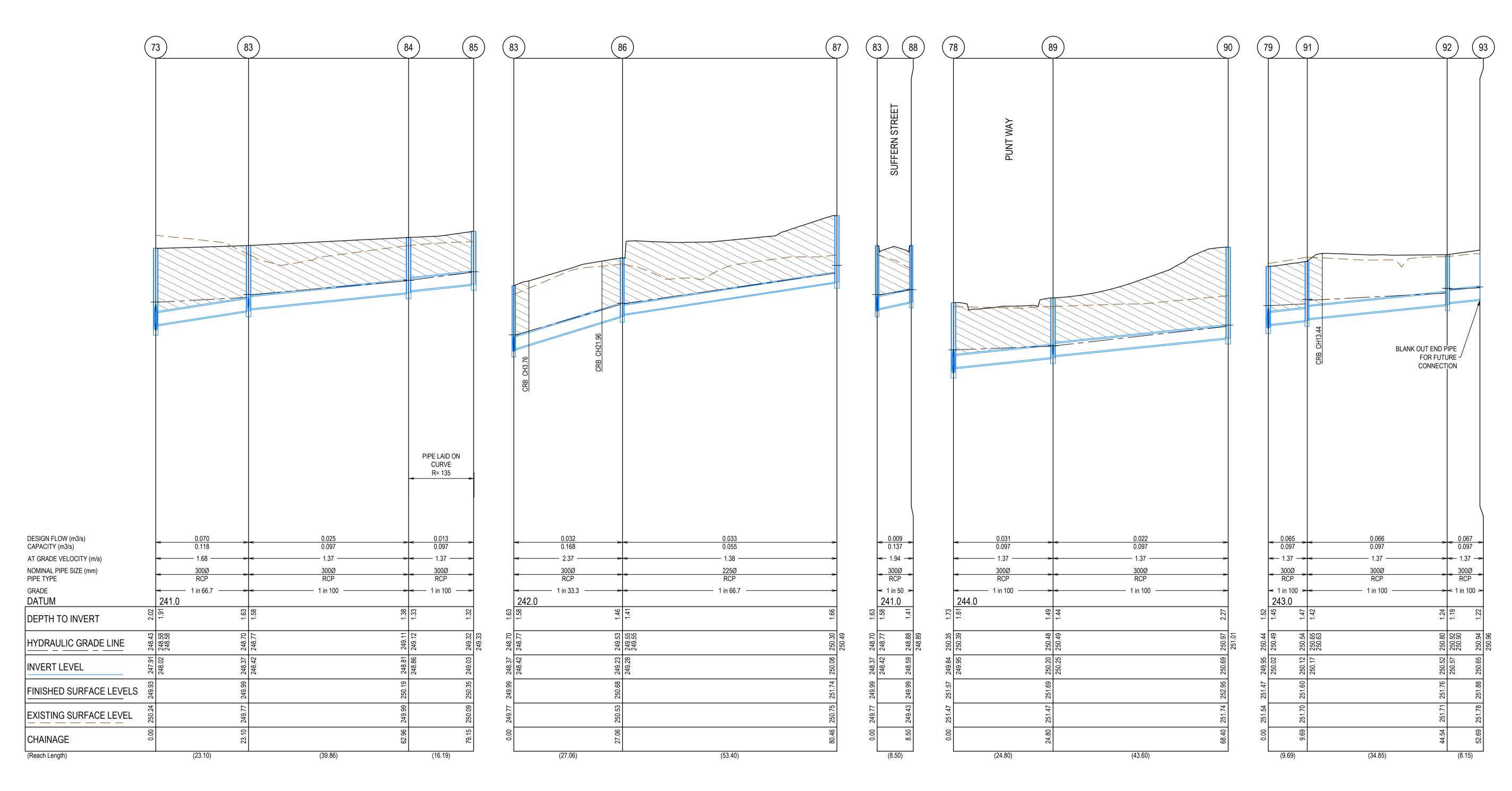
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mirvac

Olivine Estate - Stage 23
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 1

MELWAYS REF PROJECT / DRAWING No. SHEET No. 18 of 26



The purpose of these as-constructed plans is to update the design drawings to show significant changes which occurred during construction. Note that the levels shown on these plans are design levels, and have not been verified by survey. All information shown on these plans should be verified on site. SMEC Australia Pty Ltd accept no responsibility for loss or damages resulting from the inappropriate usage of these plans.



Member of the Surbana Jurong Group

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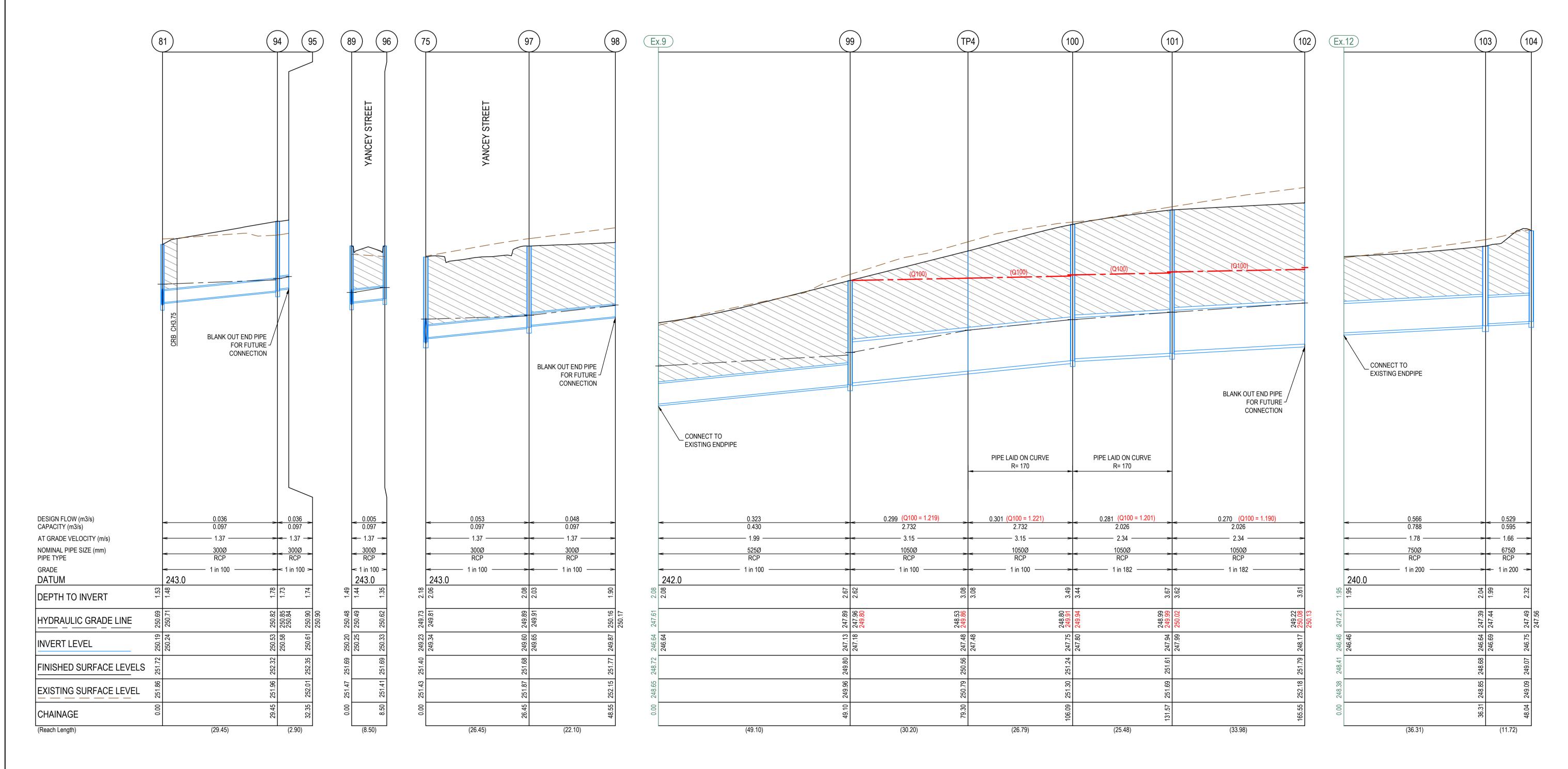
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC, 3008, Australia

03 9514 1500



Olivine Estate - Stage 23
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 2

MELWAYS REF PROJECT / DRAWING No. SHEET No. 1700E-023-302 19 (



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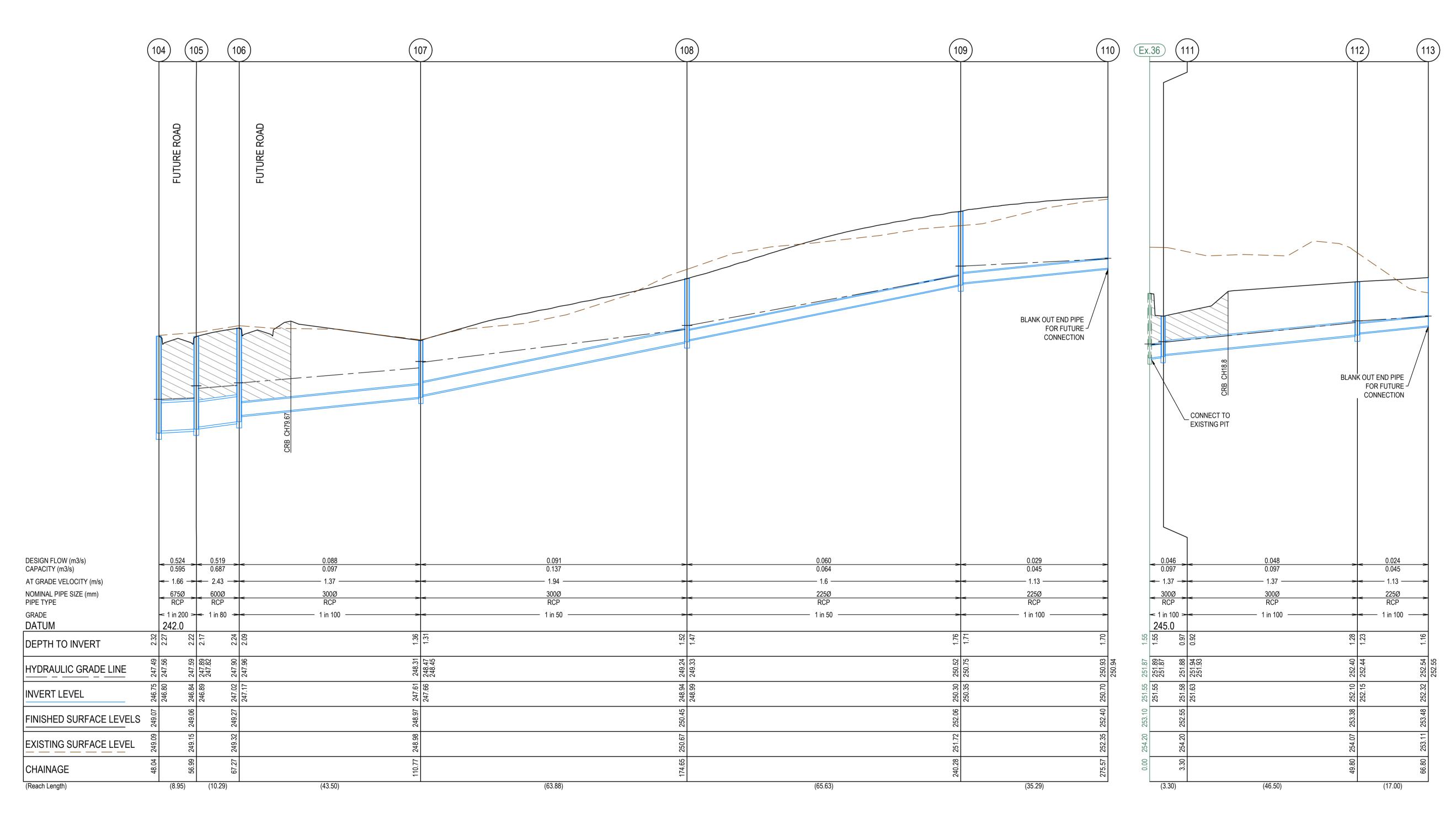
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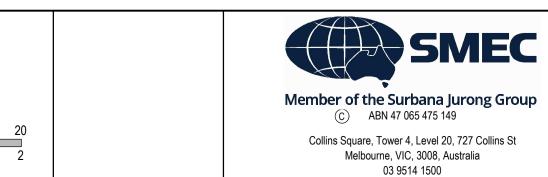
Olivine Estate - Stage 23
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 3

MELWAYS REF PROJECT / DRAWING No. SHEET No. REVISION 20 of 26 1



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Olivine Estate - Stage 23
Whittlesea City Council
Road and Drainage
Drainage Longitudinal Sections - 4

 MELWAYS REF
 PROJECT / DRAWING No.
 SHEET No.
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 8M2
 1700E-023-304
 21 of 26
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Т			-DNIA!		ГТ		IT. ET	PIT	SCHEDULE T		
PIT NUMBER	TYPE	WIDTH (mm)	LENGTH (mm)		LET INV R.L. (m)	OL DIAMETER (mm	JTLET) INV R.L. (m)	F.S.L.	DEPTH	STANDARD DRAWING	REMARKS
Ex.22	ENDPIPE			300				251.9	2.16		
68	SIDE ENTRY PIT	600	900	300 300	250.78 251.23	300	250.73	252.61	1.88	EDCM 601 & 605	
69	ENDPIPE					300	250.88	252.71	1.83		BLANK OFF ENDPIPE
70	SIDE ENTRY PIT	600	900			300	251.35	252.61	1.26	EDCM 601 & 605	
Ex.13	ENDPIPE			525				248.74	2.21		
71	SIDE ENTRY PIT	1050	900	525	247.44	525	247.39	249.81	2.42	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
72	DOUBLE SIDE ENTRY PIT	1050	900	525	247.73	525	247.68	249.93	2.25	EDCM 602 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
73	DOUBLE SIDE ENTRY PIT	1050	900	525	247.96	525	247.91	249.93	2.02	EDCM 602 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
				300	248.02						
74	SIDE ENTRY PIT	1050	900	525	248.36	525	248.31	250.42	2.1	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
75	SIDE ENTRY PIT	1050	900	525	249.28	525	249.23	251.4	2.18	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
70	DOLIDI E CIDE ENTRY DIT	1050	900	300 525	249.34	505	249.4	054.22	1.93	EDCM 600 9 607	PIT TO BE HAUNCHED TO 600x900 COVER
76 77	DOUBLE SIDE ENTRY PIT DOUBLE SIDE ENTRY PIT	750	900	525	249.45 249.59	525 525	249.4	251.33 251.33	1.93	EDCM 602 & 607 EDCM 602 & 607	PIT TO BE HAUNCHED TO 600x900 COVER PIT TO BE HAUNCHED TO 600x900 COVER
78	SIDE ENTRY PIT	750	900	450	249.59	525	249.54	251.53	1.73	EDCM 602 & 607	PIT TO BE HAUNCHED TO 600x900 COVER PIT TO BE HAUNCHED TO 600x900 COVER
				300	249.95						FIT TO BE HAUNCHED TO 000X900 COVER
79	DOUBLE SIDE ENTRY PIT	600	900	375 300	250 250.03	450	249.95	251.47	1.52	EDCM 602 & 605	
80	DOUBLE SIDE ENTRY PIT	600	900	375	250.09	375	250.04	251.47	1.43	EDCM 602 & 605	
81	SIDE ENTRY PIT	600	900	300	250.24	375	250.19	251.72	1.53	EDCM 601 & 605	
				300	250.24						
82	ENDPIPE					300	250.27	251.76	1.5		BLANK OFF ENDPIPE
83	SIDE ENTRY PIT	600	900	300	248.42	300	248.37	249.99	1.63	EDCM 601 & 605	
				300	248.42						
				300	248.42						
84	SIDE ENTRY PIT	600	900	300	248.86	300	248.81	250.19	1.38	EDCM 601 & 605	
85 86	SIDE ENTRY PIT JUNCTION PIT	600	900	225	249.28	300	249.03 249.23	250.35 250.68	1.32	EDCM 601 & 605 EDCM 605	
87	JUNCTION PIT	600	900	225	249.20	225	250.08	250.00	1.46	EDCM 605	
88	SIDE ENTRY PIT	600	900			300	248.59	249.99	1.41	EDCM 601 & 605	
89	SIDE ENTRY PIT	600	900	300	250.25	300	250.2	251.69	1.49	EDCM 601 & 605	
				300	250.25				11.10		
90	JUNCTION PIT	600	900			300	250.69	252.95	2.27	EDCM 605	PROVIDE HEAVY DUTY CLASS D CAST IRON PIT DOVER
91	JUNCTION PIT	600	900	300	250.17	300	250.12	251.6	1.47	EDCM 601 & 605	
92	JUNCTION PIT	600	900	300	250.57	300	250.52	251.76	1.24	EDCM 605	
93	ENDPIPE					300	250.65	251.88	1.23		BLANK OFF ENDPIPE
94	JUNCTION PIT	900	600	300	250.58	300	250.53	252.32	1.79	EDCM 605	
95	ENDPIPE					300	250.61	252.35	1.74		BLANK OFF ENDPIPE
96	SIDE ENTRY PIT	600	900			300	250.34	251.69	1.35	EDCM 601 & 605	
97	SIDE ENTRY PIT	600	900	300	249.65	300	249.6	251.68	2.08	EDCM 601 & 605	DI ANY OFF ENDRING
98	ENDPIPE ENDPIPE			F0F		300	249.87	251.77	1.9		BLANK OFF ENDPIPE
Ex.9 99	GRATED DOUBLE SIDE ENTRY PIT	1350	900	525 1050	247.18	525	247.13	248.72 249.8	2.08	EDCM 602 & 607	PROVIDE GRATED PIT COVER AND FRAME TO SUIT PIT SIZE
TP4	TURNING POINT	1330	900	1050	247.18	1050	247.13	250.56	3.08	EDCIVI 002 & 007	PROVIDE GRATED FIT COVER AND FRANCE TO SOIT FIT SIZE
100	SIDE ENTRY PIT	1350	900	1050	247.40	1050	247.75	251.24	3.49	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
101	SIDE ENTRY PIT	1350	900	1050	247.99	1050	247.94	251.61	3.67	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
102	ENDPIPE					1050	248.17	251.79	3.61		BLANK OFF ENDPIPE
Ex.12	ENDPIPE			750				248.41	1.95		
103	JUNCTION PIT	1050	1350	675	246.69	750	246.64	248.68	2.04	EDCM 601 & VR SD 1023	PIT TO BE HAUNCHED TO 750x1000 COVER. PROVIDE 300 DIA BLOCKOUT AT IL 246.87 ON EASTERN WALL. CONSTRUCTED A JUNCTION PIT WITH CATCH PIT CONVERSION TO BE COMPLETED AS PART OF FUTURE STAGE WORKS.
104	JUNCTION PIT	1200	900	675	246.8	675	246.75	249.08	2.33	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER. CONSTRUCTED AS JUNCTION PIT WITH CATCH PIT CONVERSION TO BE COMPLETED AS PART OF FUTURE STAGE WORKS. DIT TO BE HAUNCHED TO 600x000 COVER. CONSTRUCTED AS JUNCTION BIT WITH CATCH BIT CONVERSION TO BE
105	JUNCTION PIT	900	900	600	246.9	675	246.85	249.07	2.22	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER. CONSTRUCTED AS JUNCTION PIT WITH CATCH PIT CONVERSION TO BE COMPLETED AS PART OF FUTURE STAGE WORKS. PIT TO BE HAUNCHED TO 600x900 COVER. PROVIDE 300 DIA BLOCKOUT AT IL 247.62 ON EASTERN WALL. PROVIDE 525 DI
106	JUNCTION PIT	900	900	300	247.17	600	247.02	249.27	2.24	EDCM 601 & 607	BLOCKOUT AT IL 247.07 ON NORTHERN WALL. CONSTRUCTED AS JUNCTION PIT WITH CATCH PIT CONVERSION TO BE COMPLETED AS PART OF FUTURE STAGE WORKS.
107	JUNCTION PIT	600	900	300	247.66	300	247.61	248.97	1.36	EDCM 605	
108	JUNCTION PIT	600	900	225	248.99	300	248.94	250.45	1.52	EDCM 605	
109	JUNCTION PIT	600	900	225	250.35	225	250.3	252.06	1.76	EDCM 605	
110	ENDPIPE					225	250.7	252.41	1.7		BLANK OFF ENDPIPE
Ex.36	JUNCTION PIT	600	900	300				253.1	1.6		
111	JUNCTION PIT	600	900	300	251.64	300	251.59	252.55	0.97	EDCM 605	
112	JUNCTION PIT	600	900	225	252.15	300	252.1	253.38	1.28	EDCM 605	
113	ENDPIPE					225	252.32	253.48	1.16		BLANK OFF ENDPIPE

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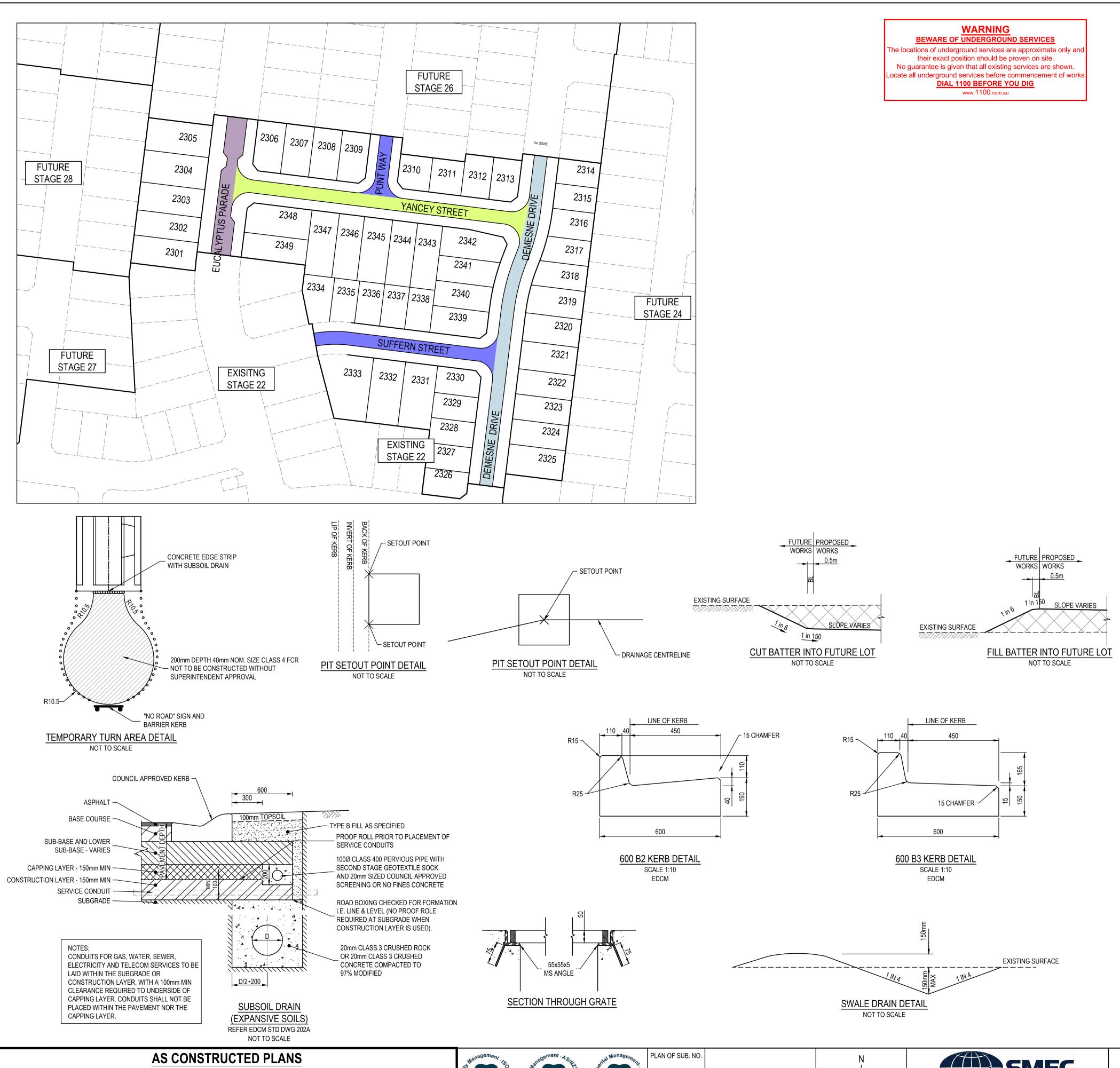
AS CONSTRUCTED

SCALE AS SHOWN AT A1





Olivine Estate - Stage 23 Whittlesea City Council Road and Drainage Pit Schedule



ROAD PAVEMENT COMPOSITION - ACCESS PLACE TYPE 1

(PUNI WAY & SUFFERN STREET)						
750mm DEPTH PAVEMEN	IT 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	100	CLASS 3 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289.5.2.1				
G LOWER SUBBASE	160	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 m/s COMPACTED TO 98% MDD (STANDARD)				
I CONSTRUCTION LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10°m/s COMPACTED TO 98% MDD (STANDARD)				
J SUBGRADE		SUBGRADE CLAY AS FOUND (DESIGN CBR = 2% EXPANSIVE)				

ROAD PAVEMENT COMPOSITION - ACCESS PLACE TYPE 2 (YANCEY STREET)

	'	,
780mm DEPTH PAVEMEN	IT 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°m/s COMPACTED TO 98% MDD (STANDARD)
I CONSTRUCTION LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10°m/s COMPACTED TO 98% MDD (STANDARD)
J SUBGRADE		SUBGRADE CLAY AS FOUND (DESIGN CBR = 2% EXPANSIVE)

ROAD PAVEMENT COMPOSITION - ACCESS STREET LEVEL 2 TYPE 3 (DEMESNE DRIVE)

880mm DEPTH PAVEMEN	IT 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°m/s COMPACTED TO 98% MDD (STANDARD)
I CONSTRUCTION LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10°m/s COMPACTED TO 98% MDD (STANDARD)
J SUBGRADE		SUBGRADE CLAY AS FOUND (DESIGN CBR = 2% EXPANSIVE)

ROAD PAVEMENT COMPOSITION - CONNECTOR STREET TYPE 4 (FLICAL YPTUS PARADE)

(EUCALTFIUS PARADE)									
690mm DEPTH PAVEMEN	IT 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°m/s COMPACTED TO 98% MDD (STANDARD)							
I CONSTRUCTION LAYER	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10°m/s COMPACTED TO 98% MDD (STANDARD)							
J SUBGRADE		SUBGRADE CLAY AS FOUND (DESIGN CBR = 2% EXPANSIVE)							

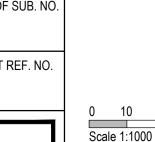
The purpose of these as-constructed plans is to update the design drawings to show significant changes which occurred during construction. Note that the levels shown on these plans are design levels, and have not been verified by survey. All information shown on these plans should be verified on site. SMEC Australia Pty Ltd accept no responsibility for loss or damages resulting from the inappropriate usage of these plans.



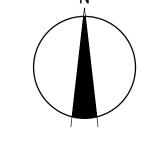


AS CONSTRUCTED





SCALE AS SHOWN AT A1



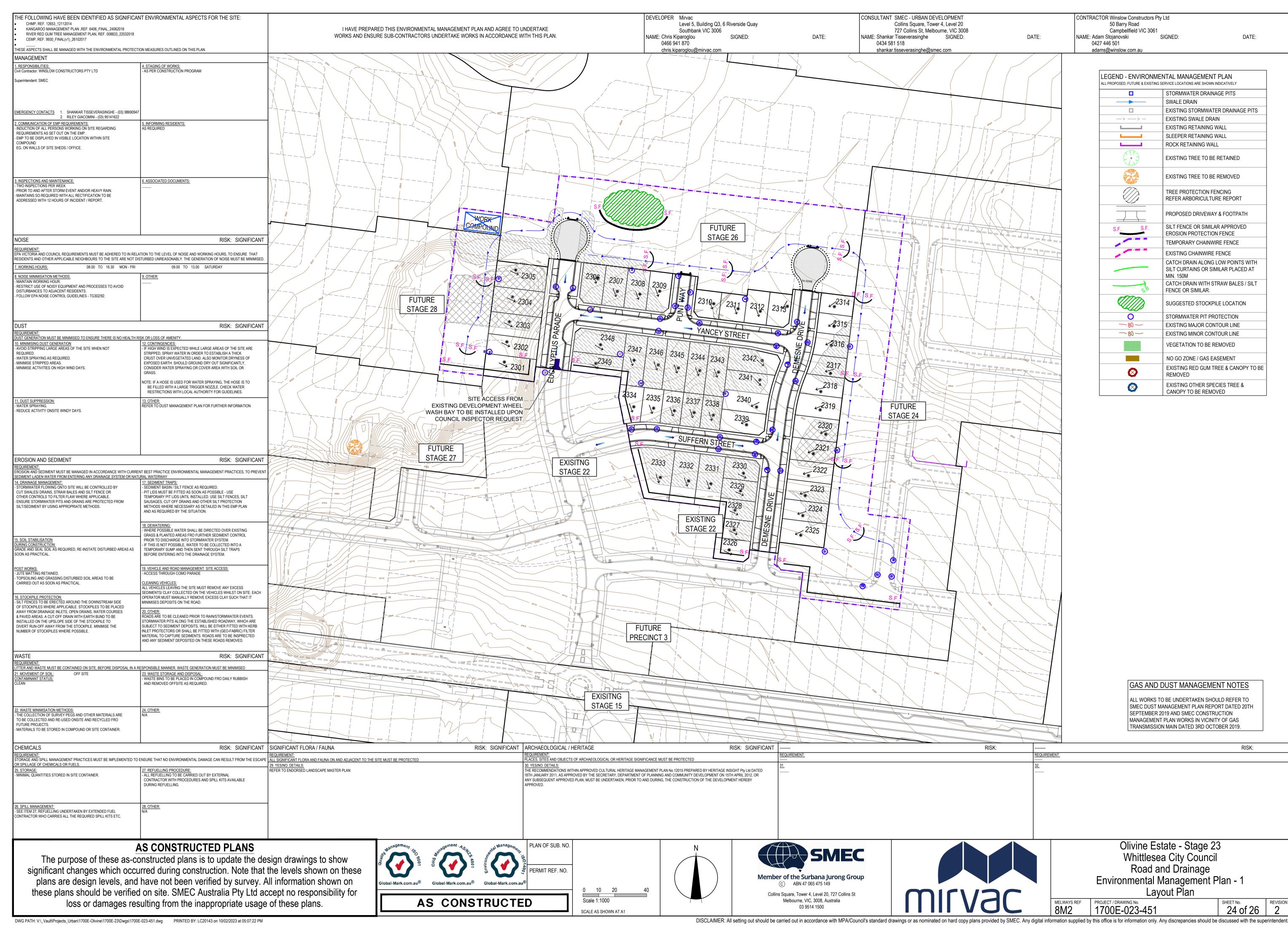


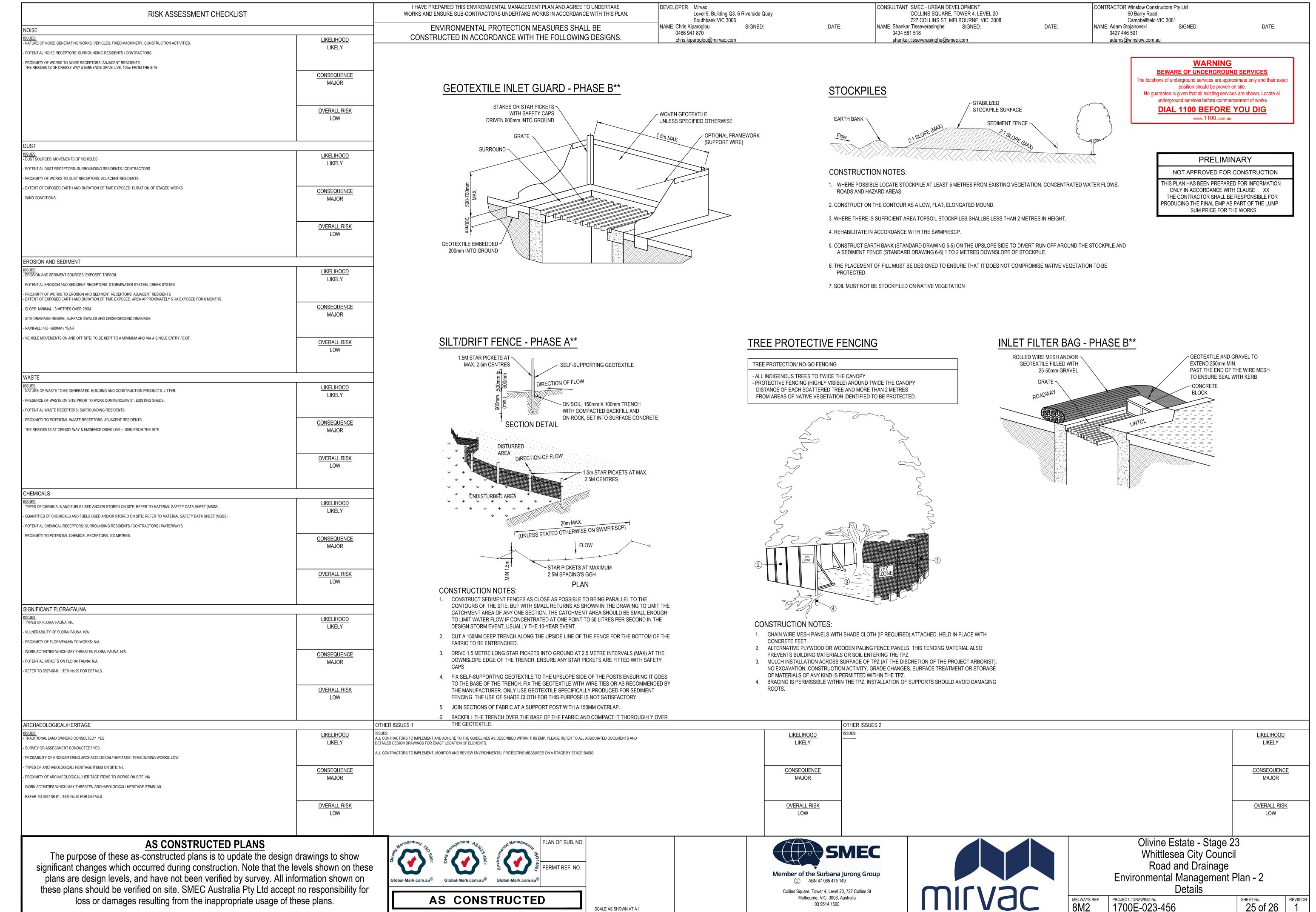
03 9514 1500



Olivine Estate - Stage 23
Whittlesea City Council
Road and Drainage
Pavement Details & General Details

MELWAYS REF PROJECT / DRAWING No. 1700E-023-411





<u>PHASE</u>		SCIPLINE CODE		ENTIAL RISK Operations, Maintenance)	RISK OWNER	POTENTIAL CONSEQUENCES	POTENTIAL ELIMINATION MEASURE, DESIGN INITIATIVE or CONTROL (Identify any Standard or Code of practice used)	HOW ISSUE ADDRESED IN DESIGN AND/OR CONSTRUCTION OF THE WORKS	IS THE RISK ELIMINATED? YES / NO	RESIDUAL RISK LIKELIHOOD (0-5)	RESIDUAL RISK CONSEQUENCE (0-5)	RESIDUAL RISK RATING	RESIDUAL RISK OWNER
Road Furniture / R	T			New works will be constructed adjacent to live traffic when abutting	0 1 1	Disruptions to live traffic, construction	Describe sets town over theff a control (TCD)	TOD provided within contract	N			45	
Construction	RD	Roads	Construction close to live traffic	existing stages. Potential risk from culverts under construction and height / fall	Contractor	incident involving live traffic.	Provide safe temporary traffic control (TCP)	TCP provided within contract	N	5	3	15	Constructor
Construction	RD	Roads	Culverts	hazards	Contractor	Falling from a height	Temporary barriers to be provided	Temporary barrier provided in contract	N N	2	5	10	Constructor
Construction Operational	US RD	Utilities or Services Roads	Utilities become a hazard within clear zones Sight Lines	Vehicle conflict with utility / pit Inadequate drivers response time.	Contractor Road Authority	Personal injury, vehicle damage Increased potential for accidents	Sequence works and protect with temp barrier or traffic control (TCP) Ensure design complies with relevant standard. Undertake thorough Safety	TCP provided within contract Vis lines checked and discussed with approval authority as part of	N N	1	5	5	Constructor Road Authority
			<u> </u>		•	·	Audit Ensure design complies with relevant standard. Undertake thorough Safety	design approval process		1			,
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	Audit	Refer to appropriate standard for sign and lighting offsets Adequate barrier provided as per appropriate standard where within	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	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 vechicles and pedestrians	Relevant Authority	Falling from a height	Barriers to be provided in accordance with road standards	Barriers to be provided and safe batter slopes (>1:3)	N	2	5	10	Constructor
Retaining Walls													
Construction	RW	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
Drainage													
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	
Sewer													
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
Electricity								Dita designed below ground Where shave ground advantage of					
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
Telstra													
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
Water													
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
Gas													
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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AS CONSTRUCTED

SCALE AS SHOWN AT A1





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Olivine Estate - Stage 23
Whittlesea City Council
Road and Drainage
Safety In Design