

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				

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.



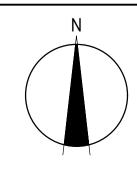
DWG PATH: V:\\_Vault\Projects\_Urban\1700E-Olivine\1700E-22\Dwgs\1700E-022-101.dwg PRINTED BY: LC20143 on 10/02/2023 at 05:08:16 PM

# Olivine Estate Stage 22

Drawing Index

1700E-022-101	Cover Plan & General Notes
1700E-022-111	Layout Plan - 1
1700E-022-112	Layout Plan - 2
	Typical Cross Sections
1700E-022-131	Earthworks & Retaining Wall - 1
1700E-022-132	
1700E-022-133	
1700E-022-134	Retaining Wall Setout Plan - 2
1700E-022-135	
1700E-022-136	
1700E-022-137	Retaining Wall Setout Plan - 5
1700E-022-138	Retaining Wall Setout Plan - 6
1700E-022-139	Retaining Wall Setout Plan - 7
1700E-022-140	Retaining Wall Setout Plan - 8
1700E-022-171	
1700E-022-181	Intersection Detail plan - 1
1700E-022-182	Intersection Detail plan - 2
1700E-022-183	
1700E-022-184	
1700E-022-201	
	Longitudinal Section - 2 Eucalyptus Parade, Igneous Way & Suffern Street
1700E-022-203	Longitudinal Section - 3 Demesne Drive
1700E-022-251	Cross Sections: Fayalite Circuit - 1 Ch 14.75 - Ch 100.13
1700E-022-252	
1700E-022-253	
1700E-022-254	
1700E-022-255	Cross Sections: Eucalyptus Parade - 1 Ch 0.00 - Ch 78.87
1700E-022-256	Cross Sections: Eucalyptus Parade - 2 Ch 103.00 - Ch 190.22
1700E-022-257	
1700E-022-258	Cross Sections: Demesne Drive
1700E-022-301	Drainage Longitudinal Sections - 1
1700E-022-302	Drainage Longitudinal Sections - 2
1700E-022-303	Drainage Longitudinal Sections - 3
1700E-022-304	
1700E-022-305	
1700E-022-306	Drainage Longitudinal Sections - 6
1700E-022-351	Pit Schedule
1700E-022-401	Concerete Jointing Details
1700E-022-411	
1700E-022-412	General Details - 2
1700E-022-451	Environmental Management Plan Layout Plan
1700E-022-456	
1700E-022-500	

25 50 Scale 1:2500 SCALE AS SHOWN AT A1



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### 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 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. 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. 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 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 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
- 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 EDCM 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.
- 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 COMPLIANCE.

### 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-022-500 **ASSESS THE RISK - STAY SAFE** 

### WARNING

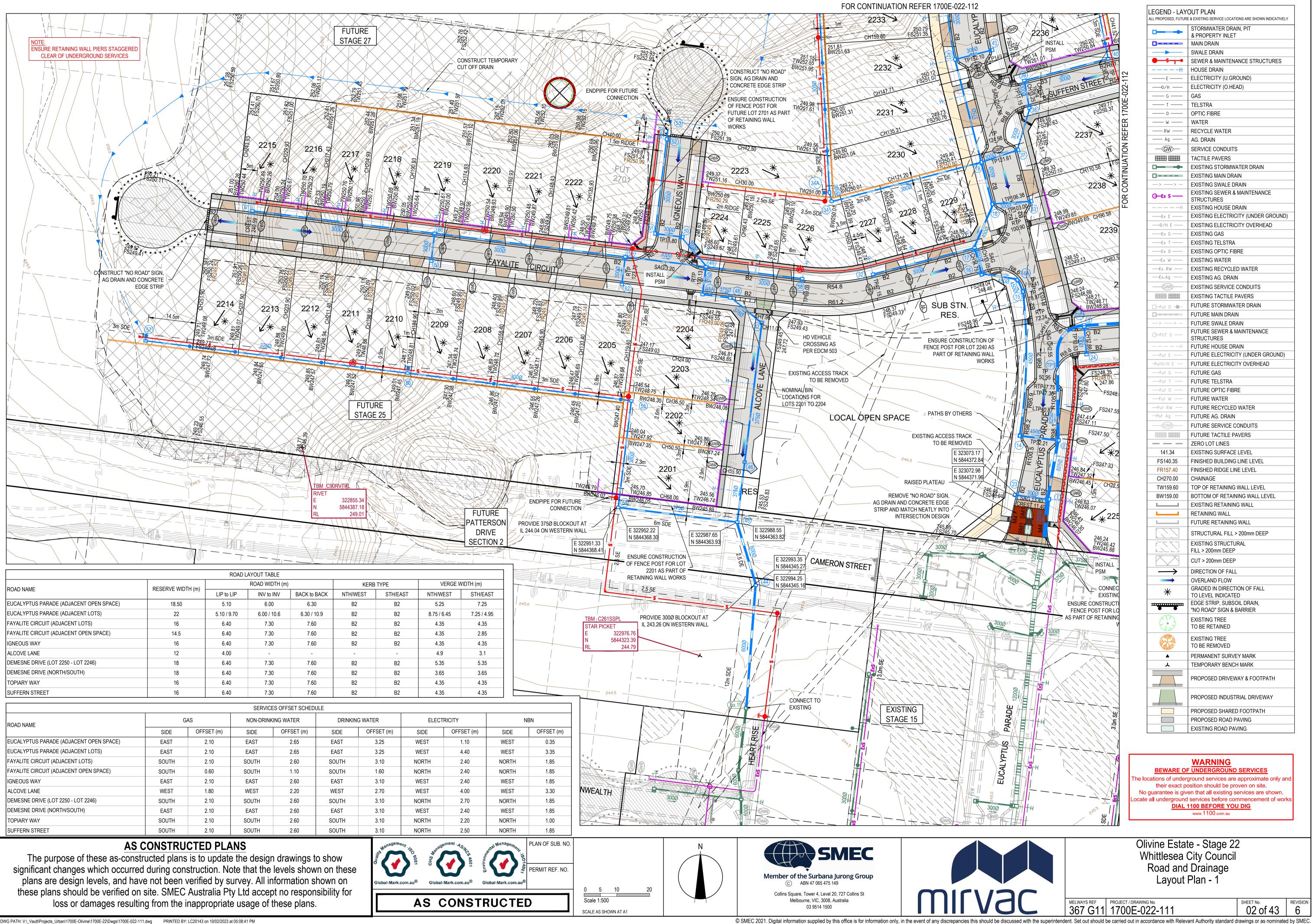
**BEWARE OF UNDERGROUND SERVICES** he locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. \_ocate all underground services before commencement of works **DIAL 1100 BEFORE YOU DIG** 

## www.**1100**.com.au

# Olivine Estate - Stage 22 Whittlesea City Council Road and Drainage Cover Plan & General Notes

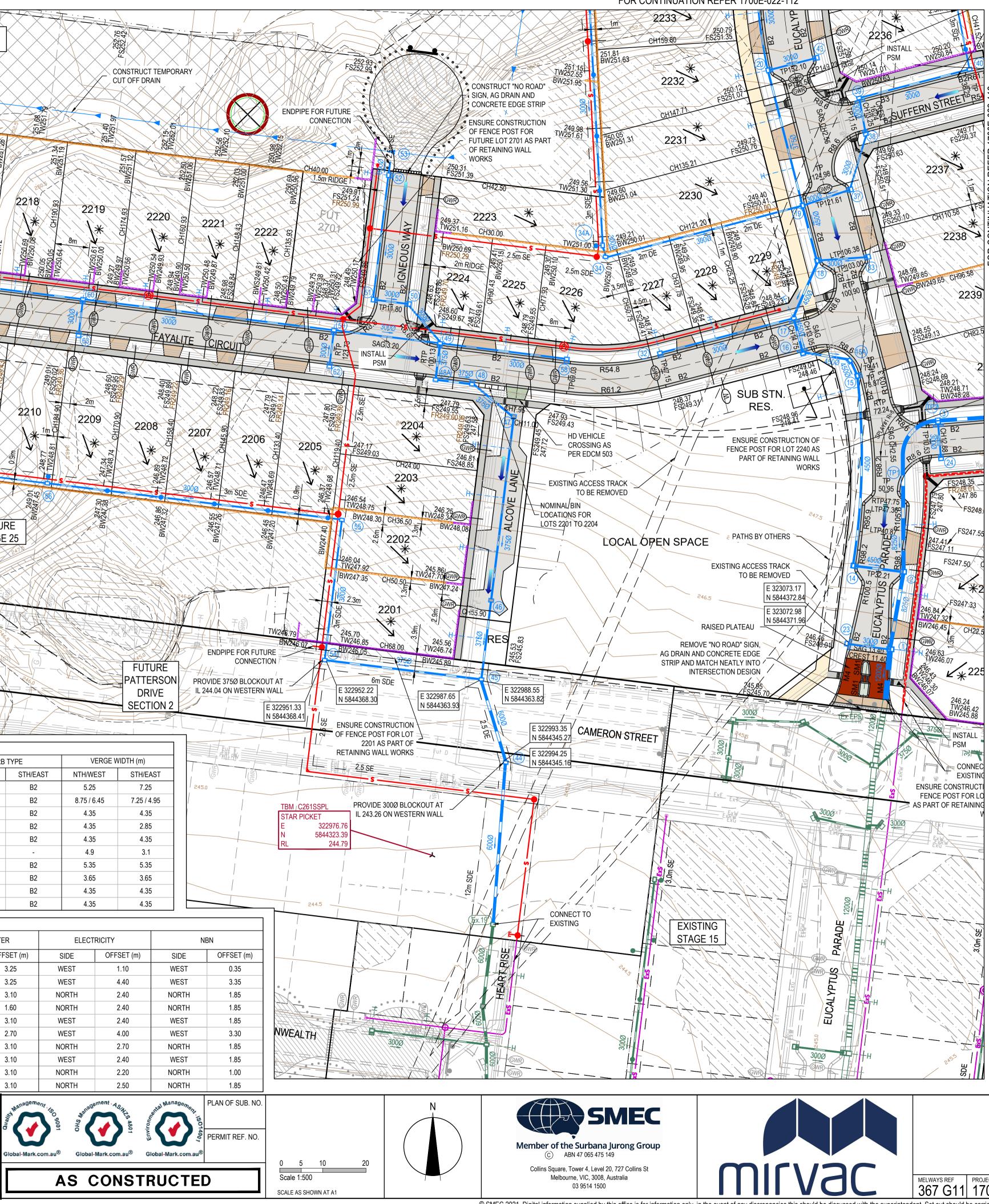
MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-022-101





		ROAD L	AYOUT TABLE					
	RESERVE WIDTH (m)	ROAD WIDTH (m)			KERB TYPE		VERGE WIDTH (r	
ROAD NAME		LIP to LIP	INV to INV	BACK to BACK	NTH/WEST	STH/EAST	NTH/WEST	STI
EUCALYPTUS PARADE (ADJACENT OPEN SPACE)	18.50	5.10	6.00	6.30	B2	B2	5.25	
EUCALYPTUS PARADE (ADJACENT LOTS)	22	5.10 / 9.70	6.00 / 10.6	6.30 / 10.9	B2	B2	8.75 / 6.45	7.2
FAYALITE CIRCUIT (ADJACENT LOTS)	16	6.40	7.30	7.60	B2	B2	4.35	
FAYALITE CIRCUIT (ADJACENT OPEN SPACE)	14.5	6.40	7.30	7.60	B2	B2	4.35	
IGNEOUS WAY	16	6.40	7.30	7.60	B2	B2	4.35	
ALCOVE LANE	12	4.00	-	-	-	-	4.9	
DEMESNE DRIVE (LOT 2250 - LOT 2246)	18	6.40	7.30	7.60	B2	B2	5.35	
DEMESNE DRIVE (NORTH/SOUTH)	18	6.40	7.30	7.60	B2	B2	3.65	
TOPIARY WAY	16	6.40	7.30	7.60	B2	B2	4.35	
SUFFERN STREET	16	6.40	7.30	7.60	B2	B2	4.35	

	SERVICES OFFSET SCHEDULE								
ROAD NAME	0	GAS		NON-DRINKING WATER		DRINKING WATER		ELECTRICITY	
	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m	
EUCALYPTUS PARADE (ADJACENT OPEN SPACE)	EAST	2.10	EAST	2.65	EAST	3.25	WEST	1.10	
EUCALYPTUS PARADE (ADJACENT LOTS)	EAST	2.10	EAST	2.65	EAST	3.25	WEST	4.40	
FAYALITE CIRCUIT (ADJACENT LOTS)	SOUTH	2.10	SOUTH	2.60	SOUTH	3.10	NORTH	2.40	
FAYALITE CIRCUIT (ADJACENT OPEN SPACE)	SOUTH	0.60	SOUTH	1.10	SOUTH	1.60	NORTH	2.40	
IGNEOUS WAY	EAST	2.10	EAST	2.60	EAST	3.10	WEST	2.40	
ALCOVE LANE	WEST	1.80	WEST	2.20	WEST	2.70	WEST	4.00	
DEMESNE DRIVE (LOT 2250 - LOT 2246)	SOUTH	2.10	SOUTH	2.60	SOUTH	3.10	NORTH	2.70	
DEMESNE DRIVE (NORTH/SOUTH)	EAST	2.10	EAST	2.60	EAST	3.10	WEST	2.40	
TOPIARY WAY	SOUTH	2.10	SOUTH	2.60	SOUTH	3.10	NORTH	2.20	
SUFFERN STREET	SOUTH	2.10	SOUTH	2.60	SOUTH	3.10	NORTH	2.50	

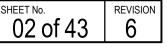


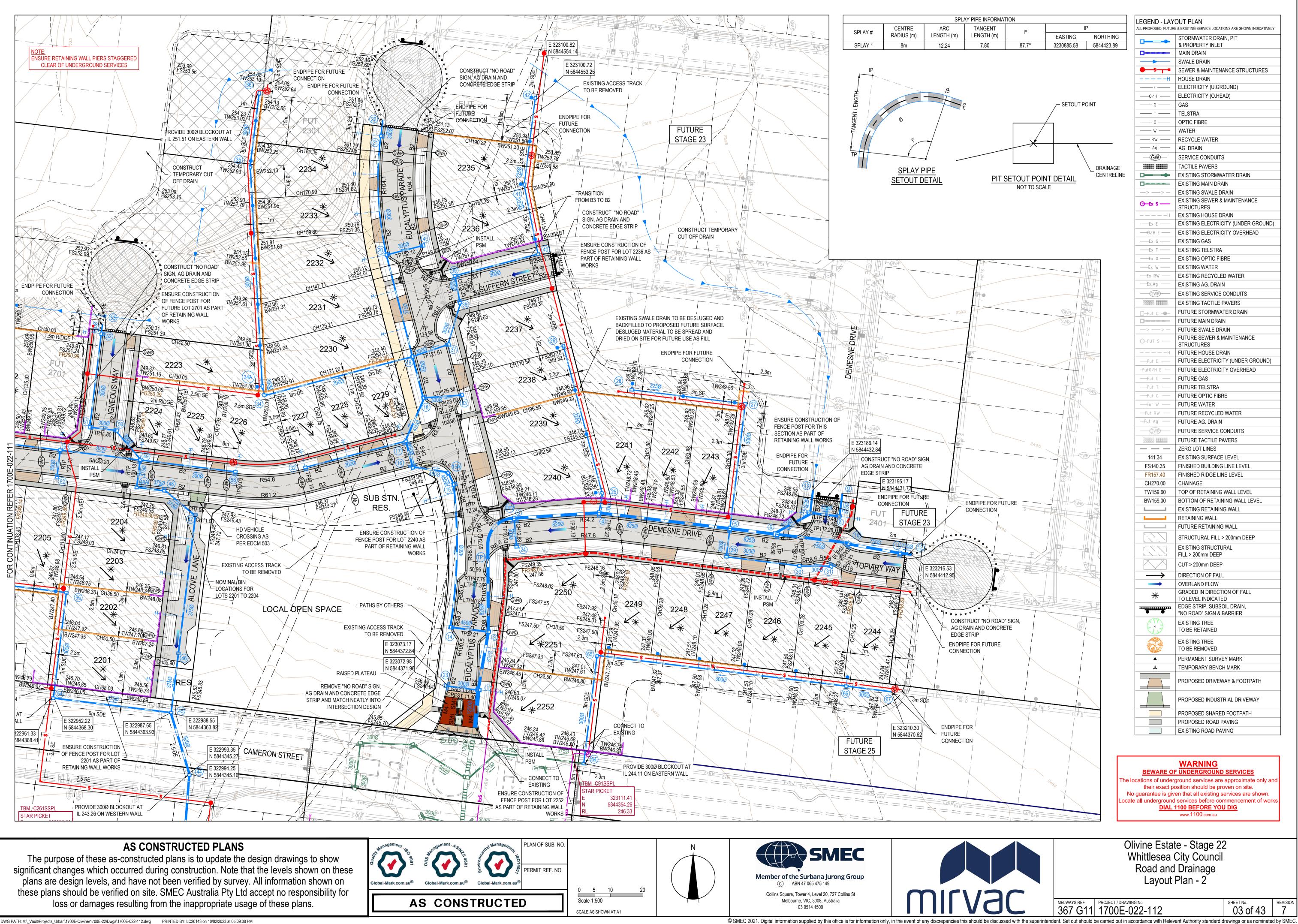
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	E & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY STORMWATER DRAIN, PIT
	& PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN SEWER & MAINTENANCE STRUCTURES
————H	HOUSE DRAIN
— E ——	ELECTRICITY (U.GROUND)
—0/H ——	ELECTRICITY (O.HEAD)
G	GAS
T	TELSTRA OPTIC FIBRE
W	WATER
— RW ——	RECYCLE WATER
— Ag —	AG. DRAIN
	TACTILE PAVERS EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
->>	EXISTING SWALE DRAIN
Ex S	EXISTING SEWER & MAINTENANCE STRUCTURES
— — — — H	EXISTING HOUSE DRAIN
—Ex E ——	EXISTING ELECTRICITY (UNDER GROUND)
—0/H E ——	EXISTING ELECTRICITY OVERHEAD
—Ex G ——	EXISTING GAS
—Ex T ——	EXISTING TELSTRA EXISTING OPTIC FIBRE
—Ex W ——	EXISTING OF THE FIBRE
-Ex RW	EXISTING RECYCLED WATER
—Ex.Ag ——	EXISTING AG. DRAIN
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
-Fut D	FUTURE STORMWATER DRAIN
->>	FUTURE MAIN DRAIN FUTURE SWALE DRAIN
→ <b>F</b> UT S	FUTURE SEWER & MAINTENANCE
— — — —H	STRUCTURES FUTURE HOUSE DRAIN
	FUTURE ELECTRICITY (UNDER GROUND)
ut0/H E —	FUTURE ELECTRICITY OVERHEAD
-Fut G	FUTURE GAS
-Fut T	FUTURE TELSTRA
Fut 0	FUTURE OPTIC FIBRE
Fut W Fut RW	FUTURE RECYCLED WATER
Fut Ag ——	FUTURE AG. DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
141.34 FS140.35	EXISTING SURFACE LEVEL
FR157.40	FINISHED BOILDING 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
$\sim$	CUT > 200mm DEEP
$\rightarrow$	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
~	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH PROPOSED ROAD PAVING

### WARNING BEWARE OF UNDERGROUND SERVICES e 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. pcate all underground services before commencement of works DIAL 1100 BEFORE YOU DIG www.**1100**.com.au

Olivine Estate - Stage 22 Whittlesea City Council Road and Drainage Layout Plan - 1





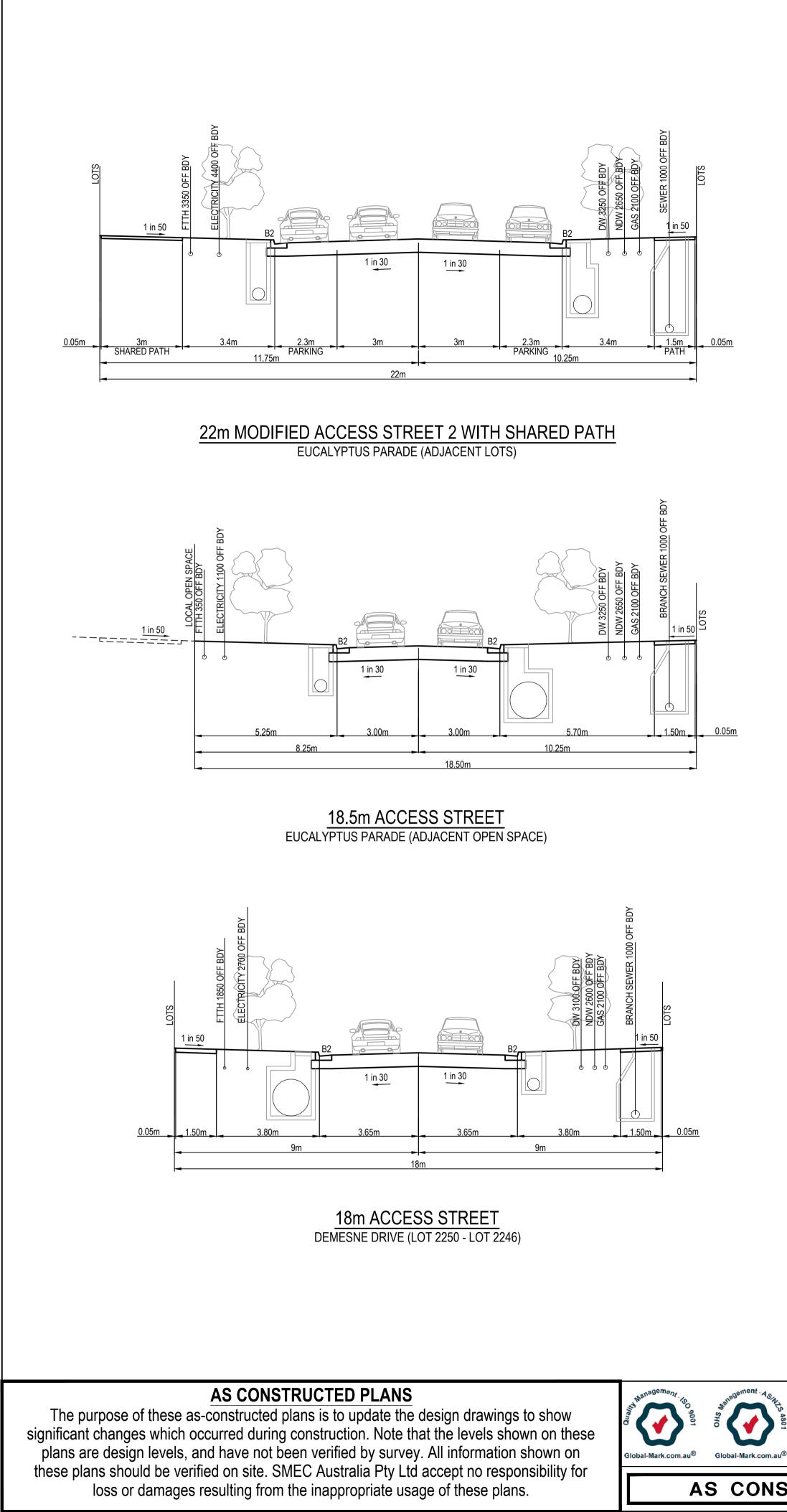
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	RE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY
	& PROPERTY INLET
	MAIN DRAIN
<b>S</b> - <b>---</b>	SWALE DRAIN SEWER & MAINTENANCE STRUCTURES
H	HOUSE DRAIN
— E —	
——0/H —— —— G ——	ELECTRICITY (O.HEAD) GAS
T	TELSTRA
0	OPTIC FIBRE
w	WATER
— RW ——	RECYCLE WATER AG. DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING SWALE DRAIN EXISTING SEWER & MAINTENANCE
<b>∋−€</b> x S <b>−−−</b>	STRUCTURES
— — — — — H ——Ex E ——	EXISTING HOUSE DRAIN EXISTING ELECTRICITY (UNDER GROUND)
	EXISTING ELECTRICITY (UNDER GROUND)
——Ex G ——	EXISTING GAS
——Ex T ——	EXISTING TELSTRA
Ex 0	EXISTING OPTIC FIBRE
——Ex W ——	EXISTING WATER EXISTING RECYCLED WATER
—Ex.Ag —	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)
Fut0/H E	FUTURE ELECTRICITY OVERHEAD
—Fut G —	FUTURE GAS
—Fut T —	FUTURE TELSTRA
—Fut 0 ——	FUTURE OPTIC FIBRE
-Fut RW	FUTURE RECYCLED WATER
Fut Ag —	FUTURE AG. DRAIN
GWR	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
141.34	EXISTING SURFACE LEVEL
FS140.35	FINISHED BUILDING LINE LEVEL
FR157.40	FINISHED RIDGE LINE LEVEL
CH270.00	
TW159.60 BW159.00	TOP OF RETAINING WALL LEVEL BOTTOM OF RETAINING WALL LEVEL
BW139.00	EXISTING RETAINING WALL
LI	RETAINING WALL
	FUTURE RETAINING WALL
·	STRUCTURAL FILL > 200mm DEEP
	EXISTING STRUCTURAL FILL > 200mm DEEP
	CUT > 200mm DEEP
$\rightarrow$	DIRECTION OF FALL
	OVERLAND FLOW
*	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
	EDGE STRIP, SUBSOIL DRAIN,
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	PERMANENT SURVEY MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING

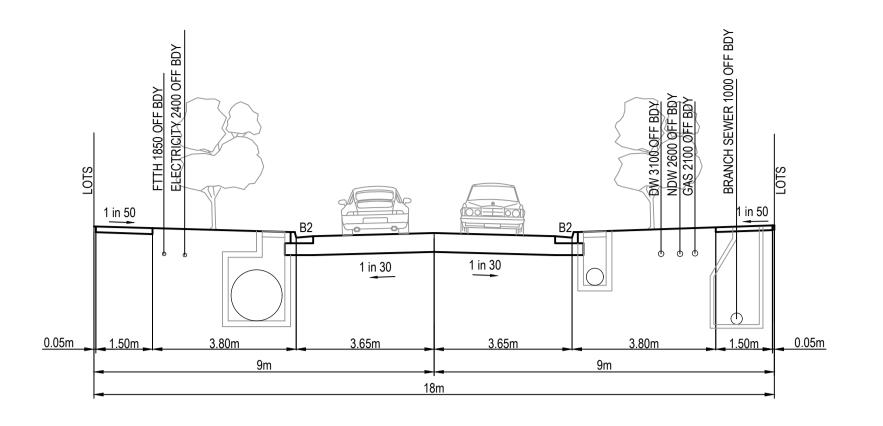
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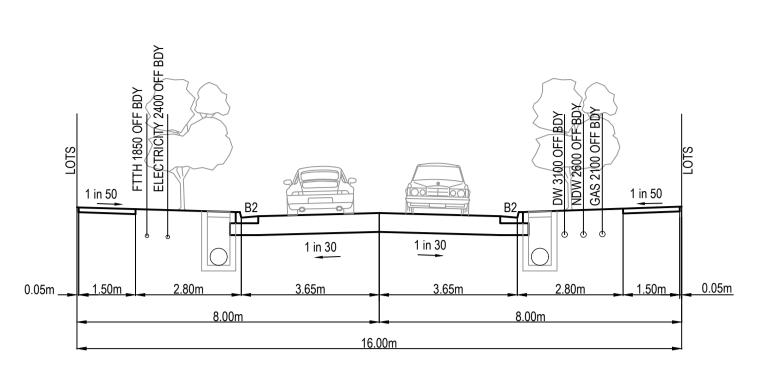
Olivine Estate - Stage 22 Whittlesea City Council Road and Drainage Layout Plan - 2

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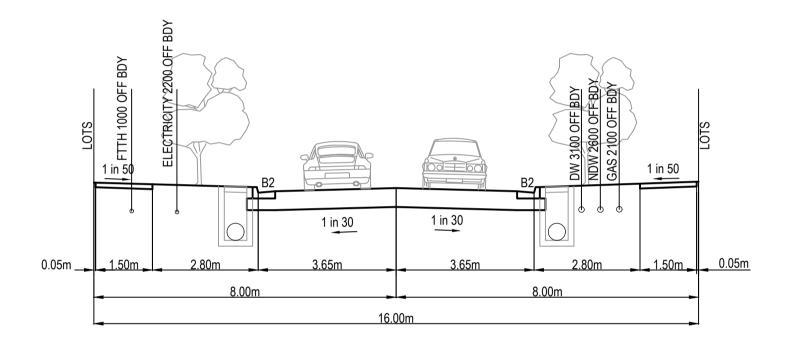


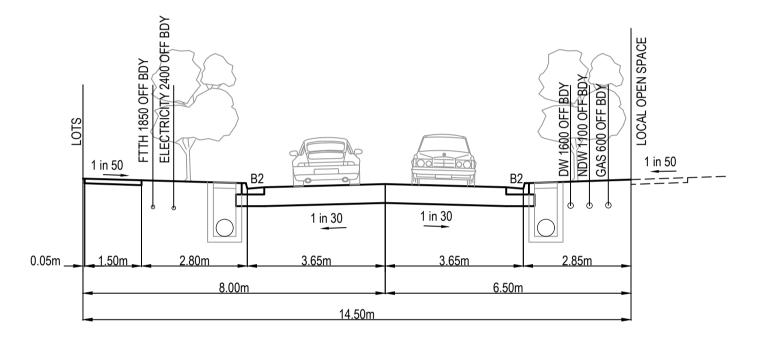
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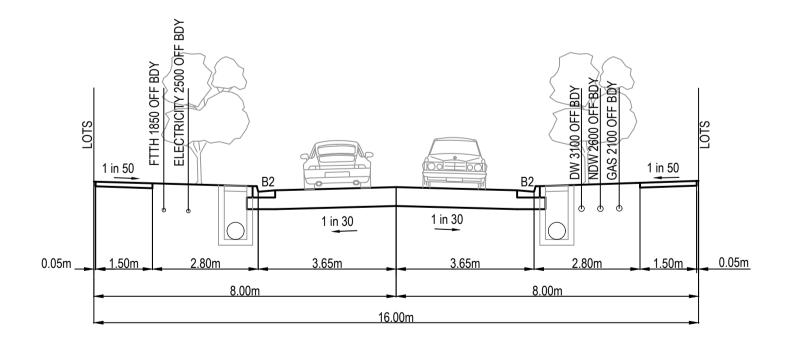


18m ACCESS STREET DEMESNE DRIVE (NORTH/SOUTH)





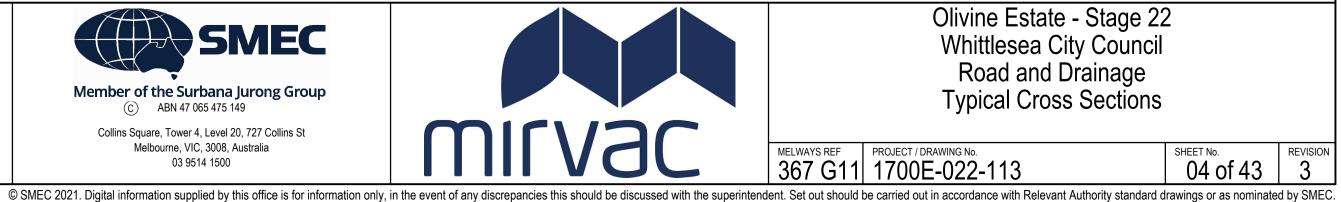
16m ACCESS STREET TOPIARY WAY



16m ACCESS STREET SUFFERN STREET

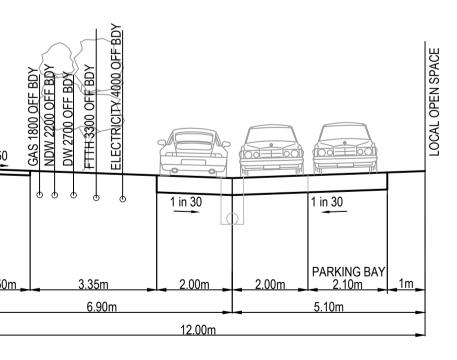


SCALE AS SHOWN AT A1



16m ACCESS STREET FAYALITE CIRCUIT (ADJACENT LOTS), IGNEOUS WAY

## 14.5m ACCESS STREET FAYALITE CIRCUIT (ADJACENT OPEN SPACE)



12m ACCESS LANE ALCOVE LANE



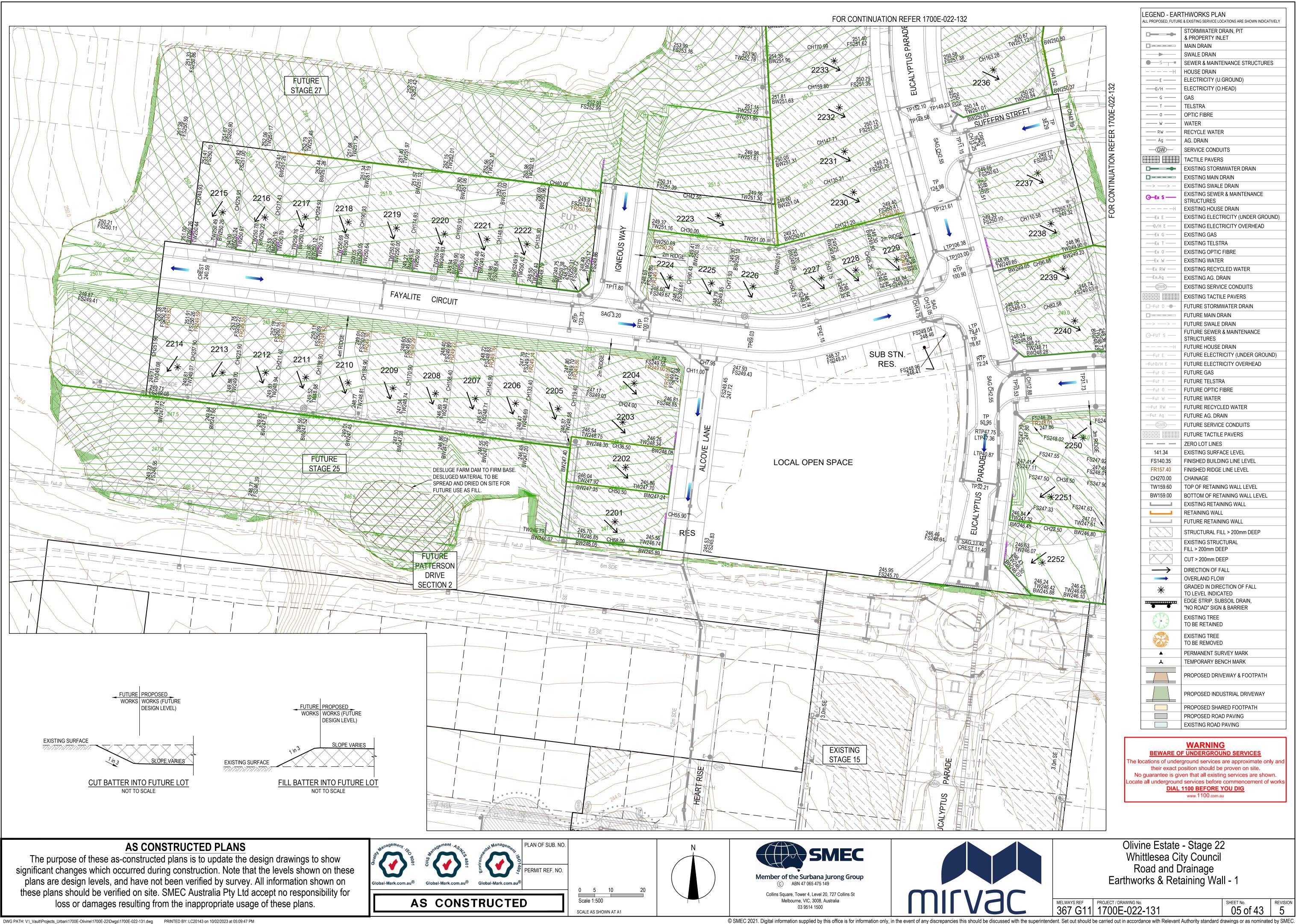
<u>0.05m</u>

# Olivine Estate - Stage 22 Whittlesea City Council Road and Drainage Typical Cross Sections

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 PROJECT / DRAWING №.

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 1700E-022-113

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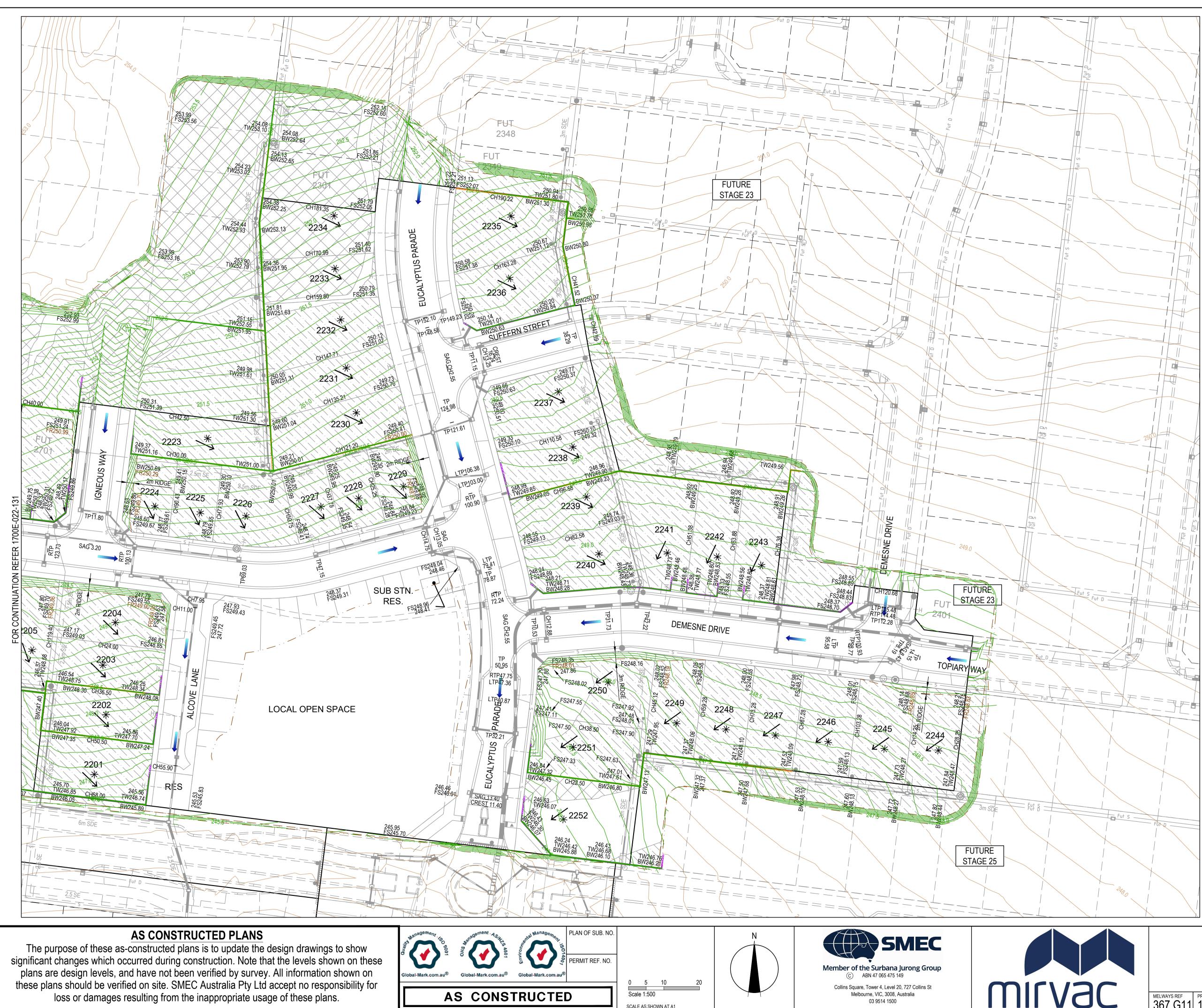
	STORMWATER DRAIN, PIT
	& PROPERTY INLET
•S	SWALE DRAIN SEWER & MAINTENANCE STRUCTURES
H	HOUSE DRAIN
—— E ——	ELECTRICITY (U.GROUND)
0/H	ELECTRICITY (O.HEAD)
G	GAS
T	TELSTRA OPTIC FIBRE
V	WATER
RW	RECYCLE WATER
—— Ag ——	AG. DRAIN
—@W—	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
>>	EXISTING SWALE DRAIN EXISTING SEWER & MAINTENANCE
<b>ӨЕх S</b>	STRUCTURES
—————H	EXISTING HOUSE DRAIN
——Ex E ——	EXISTING ELECTRICITY (UNDER GROUND)
——————————————————————————————————————	EXISTING ELECTRICITY OVERHEAD EXISTING GAS
——Ex G ——	EXISTING GAS EXISTING TELSTRA
——Ex 0 ——	EXISTING OPTIC FIBRE
——Ex W ——	EXISTING WATER
—Ex RW —	EXISTING RECYCLED WATER
—Ex.Ag —	EXISTING AG. DRAIN
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
>>	FUTURE MAIN DRAIN FUTURE SWALE DRAIN
	FUTURE SEWER & MAINTENANCE
G-fut s —	STRUCTURES
H	
	FUTURE ELECTRICITY (UNDER GROUND) FUTURE ELECTRICITY OVERHEAD
Fut G	FUTURE GAS
—Fut T —	FUTURE TELSTRA
—-Fut 0 —	FUTURE OPTIC FIBRE
—Fut W —	FUTURE WATER
—Fut RW —	FUTURE RECYCLED WATER
—Fut Ag —	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	
TW159.60 BW159.00	TOP OF RETAINING WALL LEVEL BOTTOM OF RETAINING WALL LEVEL
BVV159.00	EXISTING RETAINING WALL LEVEL
	RETAINING WALL
	FUTURE RETAINING WALL
	STRUCTURAL FILL > 200mm DEEP
	EXISTING STRUCTURAL
	FILL > 200mm DEEP
	CUT > 200mm DEEP
$\rightarrow$	DIRECTION OF FALL
*	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
	EDGE STRIP, SUBSOIL DRAIN,
 	"NO ROAD" SIGN & BARRIER
E	EXISTING TREE TO BE RETAINED
	EXISTING TREE
States	TO BE REMOVED
<u> </u>	PERMANENT SURVEY MARK
<b>X</b>	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING

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. ocate all underground services before commencement of works DIAL 1100 BEFORE YOU DIG www.**1100**.com.au

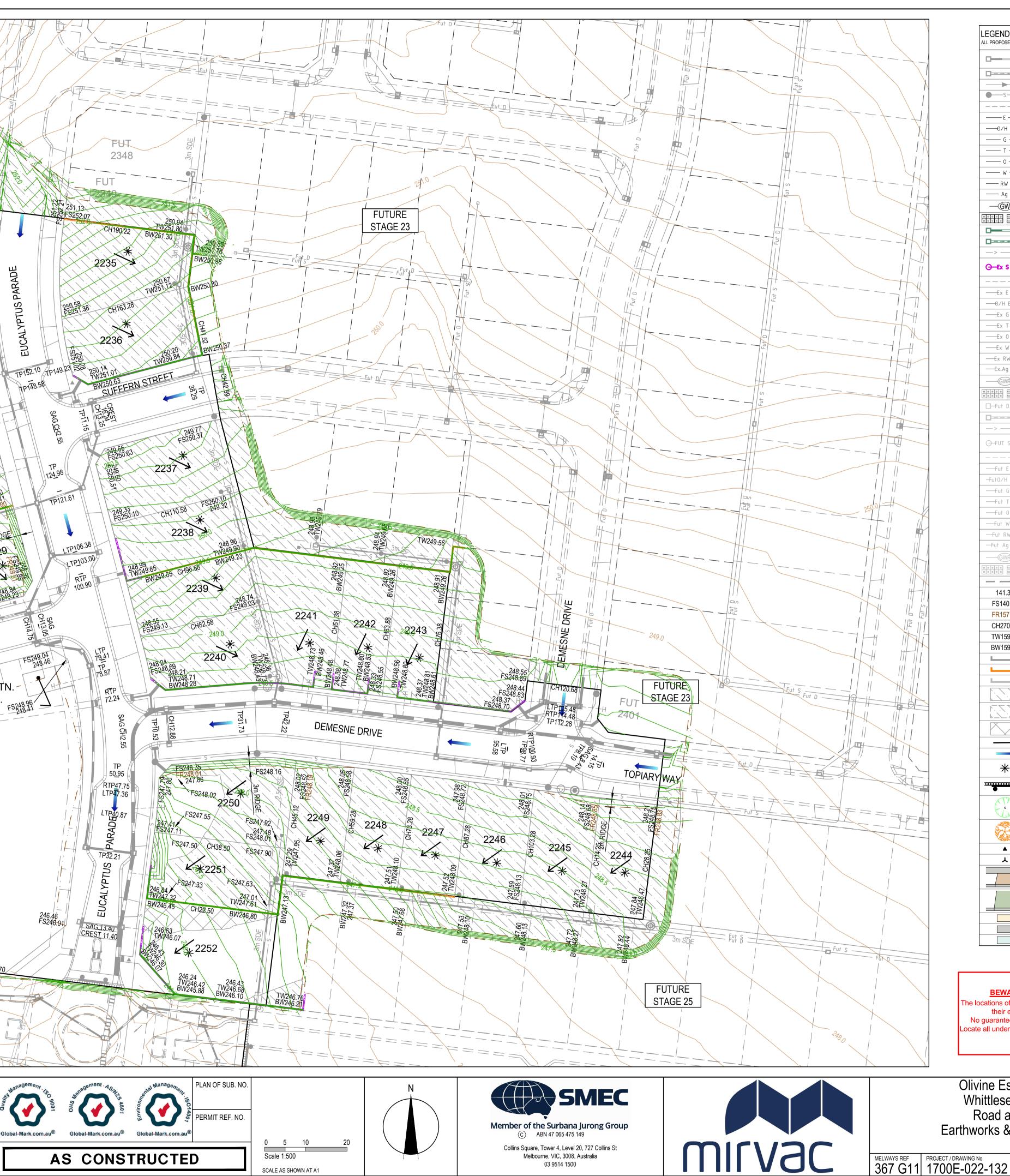
Olivine Estate - Stage 22 Whittlesea City Council Road and Drainage Earthworks & Retaining Wall - 1

SHEET No. REVISION 05 of 43 5

SHEET No.



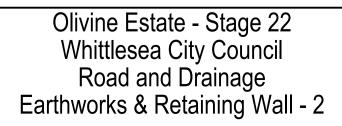
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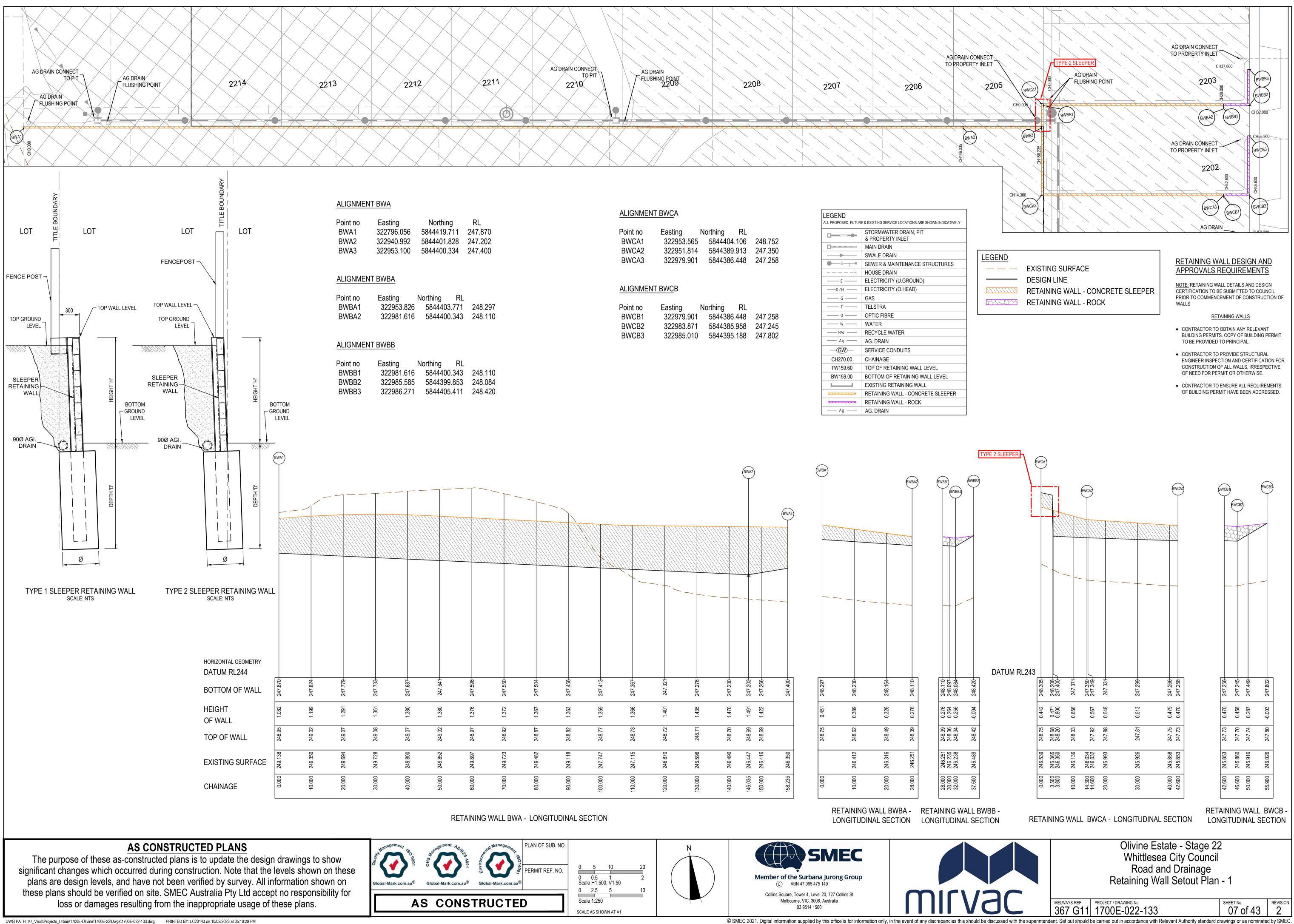
<b></b>	STORMWATER DRAIN, PIT
	& PROPERTY INLET
	SWALE DRAIN
●S	SEWER & MAINTENANCE STRUCTURES
H	
Е О/Н	ELECTRICITY (U.GROUND) ELECTRICITY (O.HEAD)
G	GAS
—T —	TELSTRA
0	OPTIC FIBRE
W	WATER RECYCLE WATER
—— Rw ——	AG. DRAIN
—@W—	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING SWALE DRAIN EXISTING SEWER & MAINTENANCE
<b>Ө£х S —</b>	STRUCTURES
H	
——Ex E —— ——0∕H E ——	EXISTING ELECTRICITY (UNDER GROUND) EXISTING ELECTRICITY OVERHEAD
——Ex G ——	EXISTING GAS
——Ex T ——	EXISTING TELSTRA
——Ex 0 ——	EXISTING OPTIC FIBRE
— Ex W —	EXISTING WATER
——Ex.RW —— ——Ex.Ag ——	EXISTING RECYCLED WATER EXISTING AG. DRAIN
GWR	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
-Fut D -	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
>>	FUTURE SWALE DRAIN
⊖ <del>f</del> ut s —	FUTURE SEWER & MAINTENANCE STRUCTURES
— — — — — H	FUTURE HOUSE DRAIN
—Fut E —	FUTURE ELECTRICITY (UNDER GROUND)
-Fut0/H E	FUTURE ELECTRICITY OVERHEAD
— Fut G —	FUTURE GAS FUTURE TELSTRA
—Fut 0 —	FUTURE OPTIC FIBRE
—Fut W —	FUTURE WATER
—Fut RW —	FUTURE RECYCLED WATER
—Fut Ag —— —————————————————————————————————	
	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	
TW159.60 BW159.00	TOP OF RETAINING WALL LEVEL BOTTOM OF RETAINING WALL LEVEL
BW 159.00	EXISTING RETAINING WALL LEVEL
	RETAINING WALL
	FUTURE RETAINING WALL
	STRUCTURAL FILL > 200mm DEEP
	FILL > 200mm DEEP CUT > 200mm DEEP
	DIRECTION OF FALL OVERLAND FLOW
*	GRADED IN DIRECTION OF FALL
	TO LEVEL INDICATED EDGE STRIP, SUBSOIL DRAIN,
• •	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	EXISTING TREE TO BE RETAINED
	EXISTING TREE TO BE REMOVED
▲ 1	PERMANENT SURVEY MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING

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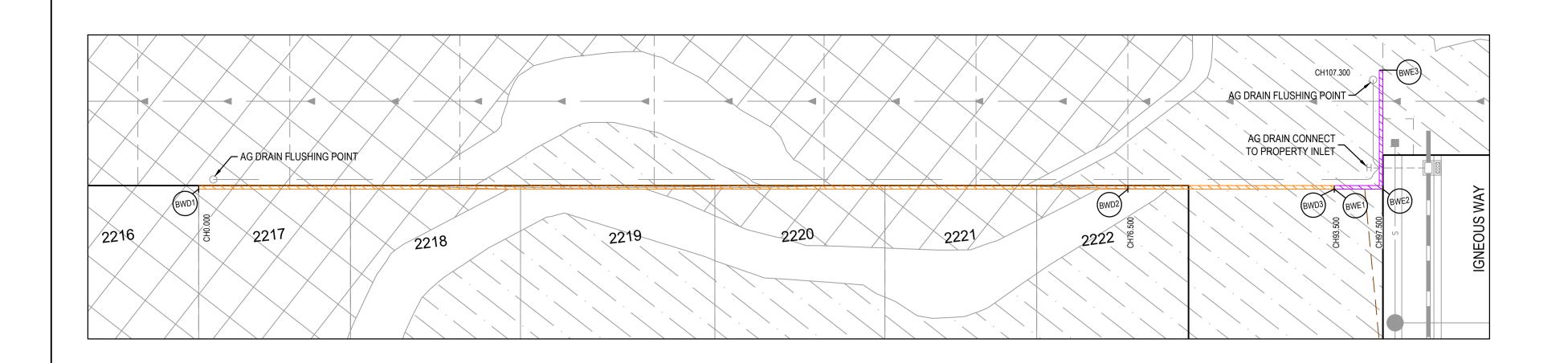


	Collins Square, Tower 4, Level 20, 727 Collins St							
	Melbourne, VIC, 3008, Australia 03 9514 1500				MELWAYS REF 367 G11	PROJECT / DRAWING No. 1700E-022-132	SHEET No. 06 of 43	
								-
(	SMEC 2021. Digital information supplied by this office is for information only,	in the event of any o	discrepancies this	should be discussed with the superintend	ent. Set out should	be carried out in accordance with Relevant Authority standard o	drawings or as nominate	d by SMEC.



DWG PATH: V:\\_Vault\Projects\_Urban\1700E-Olivine\1700E-22\Dwgs\1700E-022-133.dwg PRINTED BY: LC20143 on 10/02/2023 at 05:10:29 PM

7 0	Point no BWCB1 BWCB2 BWCB3	Easting 322979.901 322983.871 322985.010	5844385.958	247.245
	DWCDJ	522505.010	5044535.100	247.002

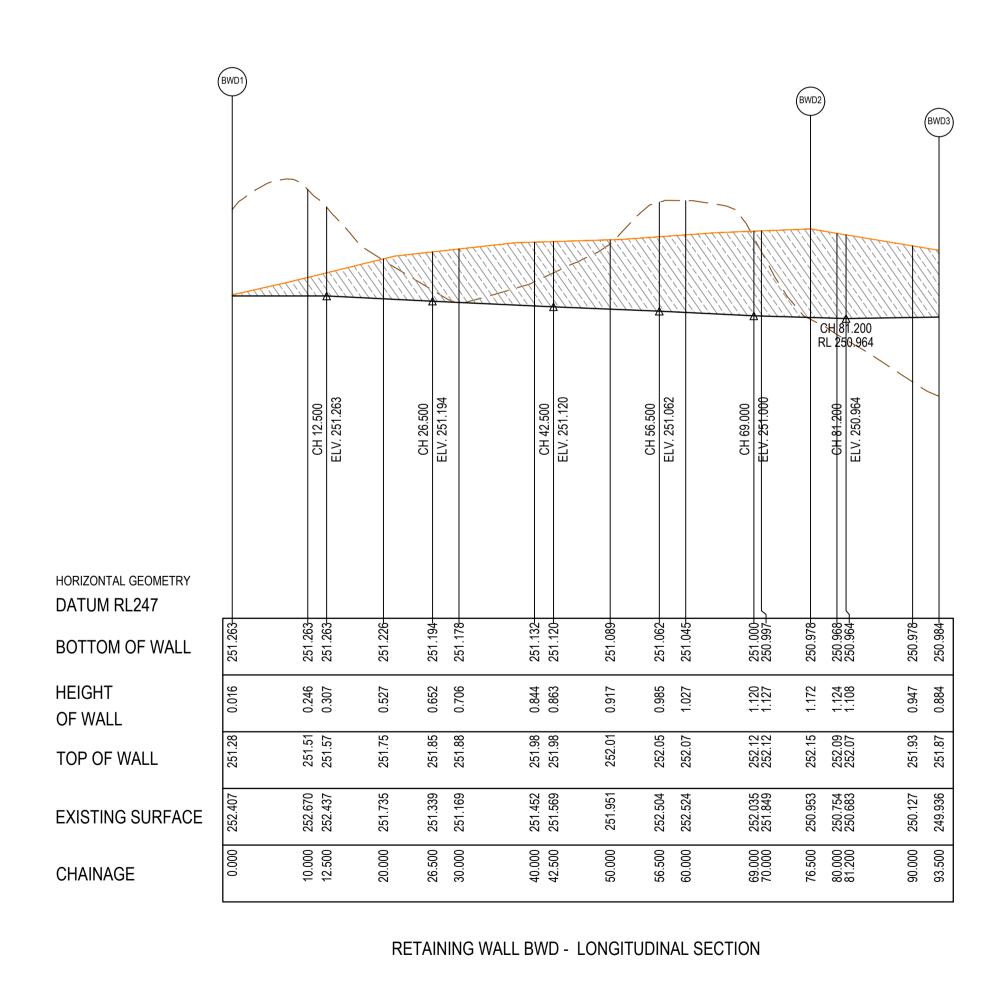


## ALIGNMENT BWD

Point no	Easting	Northing	RL
BWD1	322865.899	5844491.700	251.263
BWD2	322941.824	5844482.332	250.978
BWD3	322958.696	5844480.251	250.984

### ALIGNMENT BWE

Point no	Easting	Northing	RL
BWE1	322958.696	5844480.251	250.984
BWE2	322962.666	5844479.761	251.238
BWE3	322963.866	5844489.487	251.775



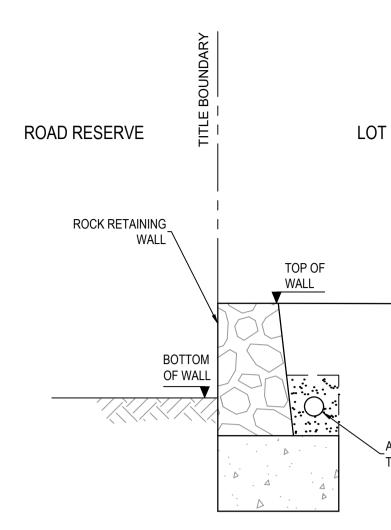
## AS CONSTRUCTED PLANS

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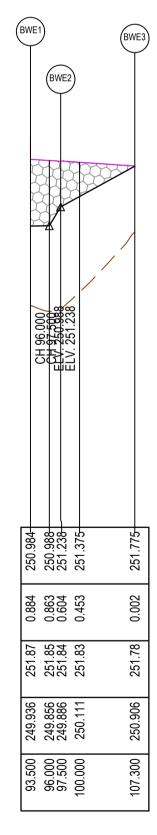
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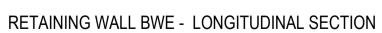






TYPICAL MORTARED ROCK RETAINING WALL NOT TO SCALE





PLAN OF SUB. NO.

PERMIT REF. NO.

Global-Mark.com.a

5 10

0 0.5 1 Scale H1:500, V1:50

0 2.5 5

SCALE AS SHOWN AT A1

Scale 1:250



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

Member of the Surbana Jurong Group © ABN 47 065 475 149





## — — — EXISTING SURFACE — DESIGN LINE **RETAINING WALL - CONCRETE SLEEPER**

RETAINING WALL - ROCK

EGEND LL 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
—	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
·····	RETAINING WALL - ROCK
—— Ag ——	AG. DRAIN

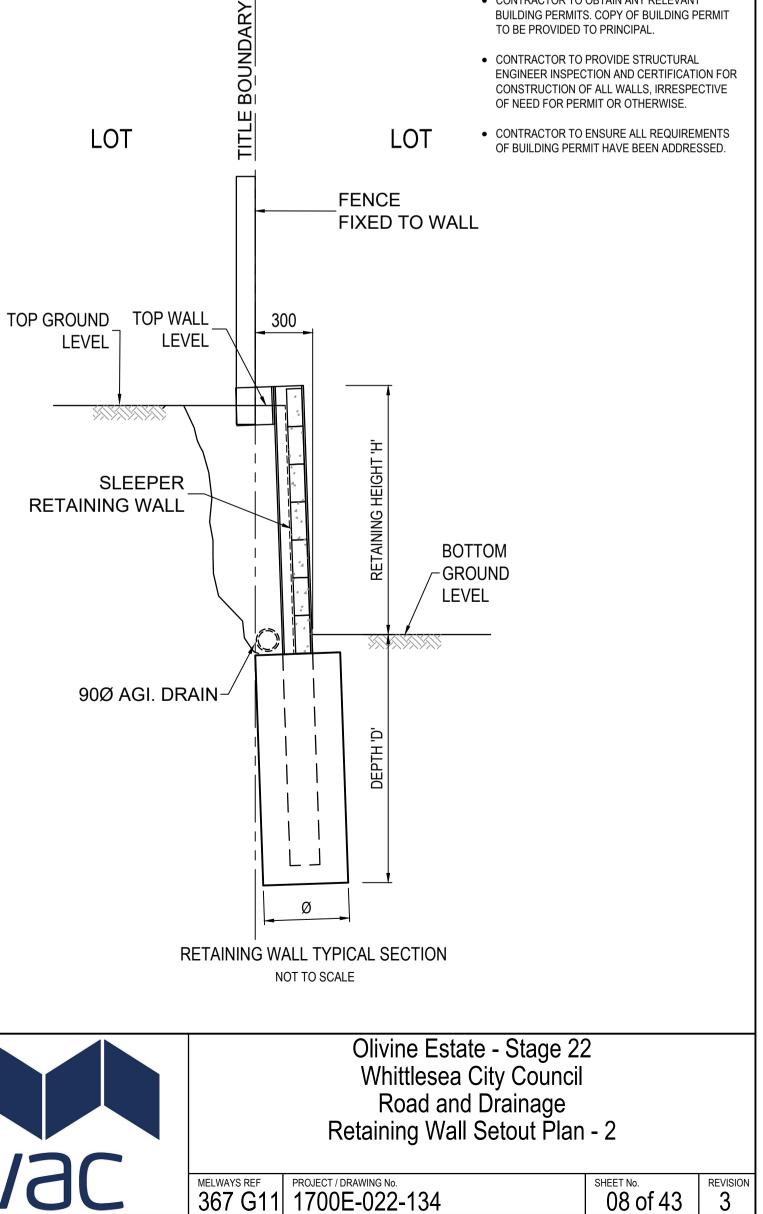
### AGI PIPE CONNECTED TO DRAINAGE SYSTEM

## **RETAINING WALL DESIGN AND APPROVALS REQUIREMENTS**

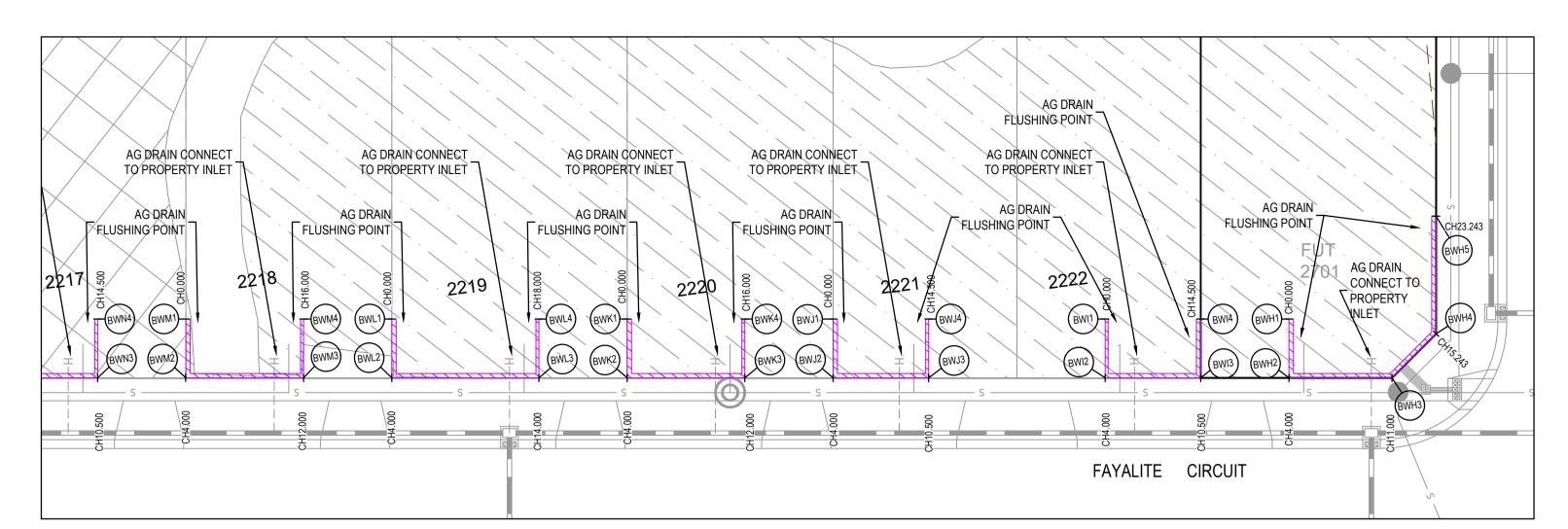
NOTE: RETAINING WALL DETAILS AND DESIGN CERTIFICATION TO BE SUBMITTED TO COUNCIL PRIOR TO COMMENCEMENT OF CONSTRUCTION OF WALLS



 CONTRACTOR TO OBTAIN ANY RELEVANT BUILDING PERMITS. COPY OF BUILDING PERMIT TO BE PROVIDED TO PRINCIPAL.



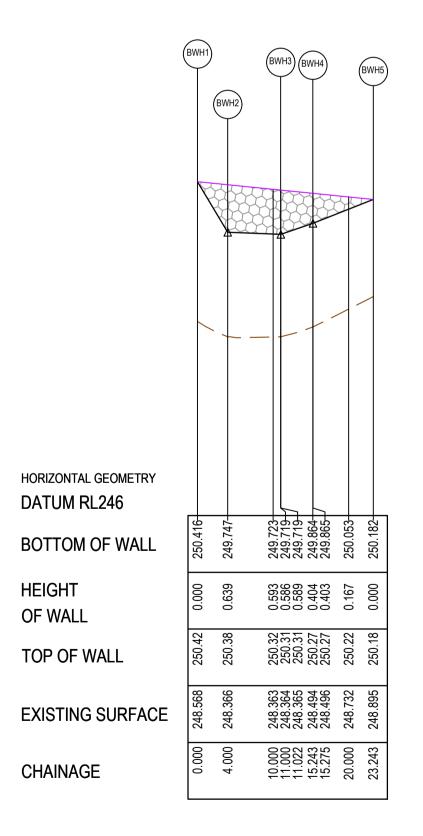
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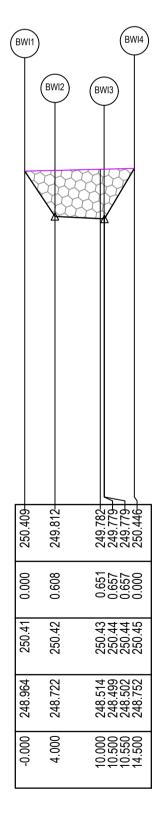


## ALIGNMENT BWH

Point no BWH1 BWH2 BWH3 BWH4 BWH5	Easting 322949.349 322948.859 322955.806 322959.151 322960.131	Northing 5844453.494 5844449.524 5844448.667 5844451.277 5844459.217	RL 250.416 249.747 249.719 249.864 250.182	Point no BWJ1 BWJ2 BWJ3 BWJ4	Easting 322918.582 322918.092 322924.544 322925.033	Northing 5844457.290 5844453.320 5844452.524 5844456.494	RL 250.504 249.904 249.872 250.472
				ALIGNMEN	T BWK		
ALIGNMEN	II BWI			<b>D</b> : /	<b>–</b> <i>i</i> :	N. 41.	
				Point no	Easting	Northing	RL
Point no	Easting	Northing	RL	BWK1	322904.688	5844459.004	250.574
BWI1	322936.943	5844455.024	250.409	BWK2	322904.198	5844455.034	249.974
BWI2	322936.453	5844451.055	249.812	BWK3	322912.138	5844454.055	249.934
BWI3	322942.904	5844450.259	249.779	BWK4	322912.627	5844458.025	250.534
BWI4	322943.392	5844454.213	250.443				

ALIGNMENT BWJ





**RETAINING WALL BWH - LONGITUDINAL SECTION** 

RETAINING WALL BWI- LONGITUDINAL SECTION

# lobal-Mark.com.au® Global-Mark.com.au **AS CONSTRUCTED**

# AS CONSTRUCTED PLANS

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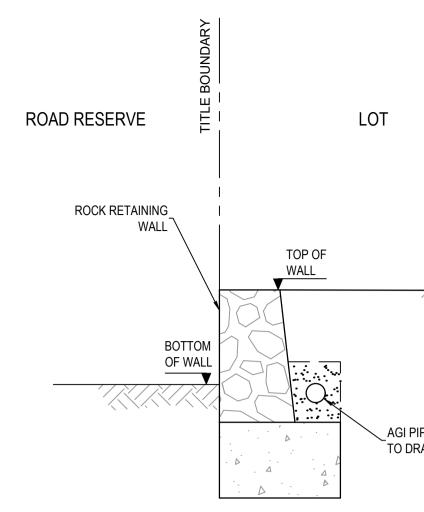
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## ALIGNMENT BWL

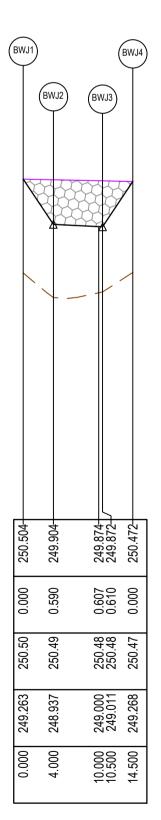
Point no	Easting	Northing	RL
BWL1	322888.808	5844460.963	250.648
BWL2	322888.318	5844456.994	250.048
BWL3	322898.243	5844455.769	250.004
BWL4	322898.733	5844459.739	250.604

## ALIGNMENT BWM

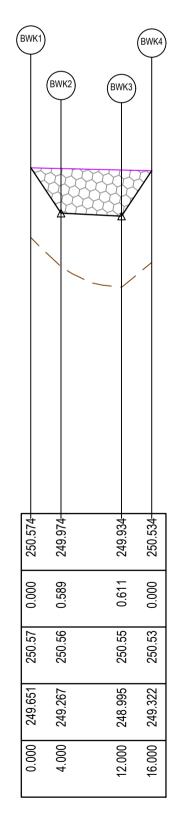
Point no	Easting	Northing 5844462.678	RL
BWM1	322874.913		250.724
BWM2	322874.424	5844458.708	250.124
BWM3	322882.363	5844457.728	250.084
BWM4	322882.853	5844461.698	250.684

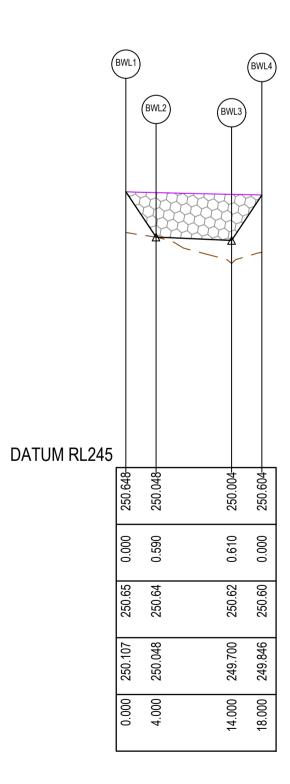


TYPICAL MORTARED ROCK RETAINING WALL NOT TO SCALE



**RETAINING WALL BWJ - LONGITUDINAL SECTION** 



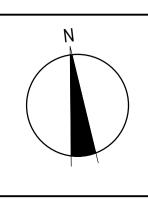


**RETAINING WALL BWK- LONGITUDINAL SECTION** 

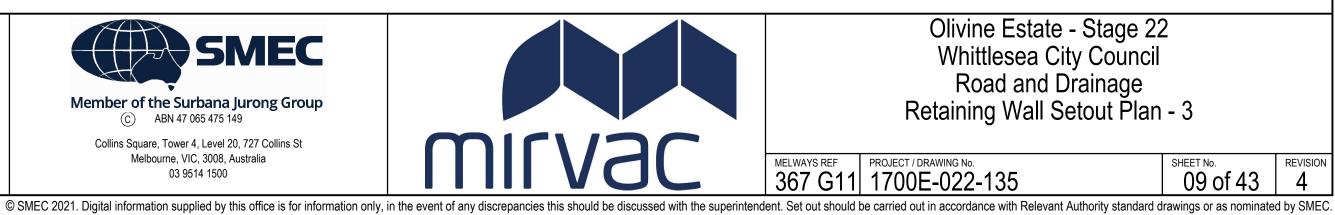
**RETAINING WALL BWL - LONGITUDINAL SECTION** 



10 0 0.5 1 Scale H1:500, V1:50 0 2.5 5 Scale 1:250 SCALE AS SHOWN AT A1







## LEGEND

RETAINING WALL - ROCK

## — — — EXISTING SURFACE — DESIGN LINE **RETAINING WALL - CONCRETE SLEEPER**

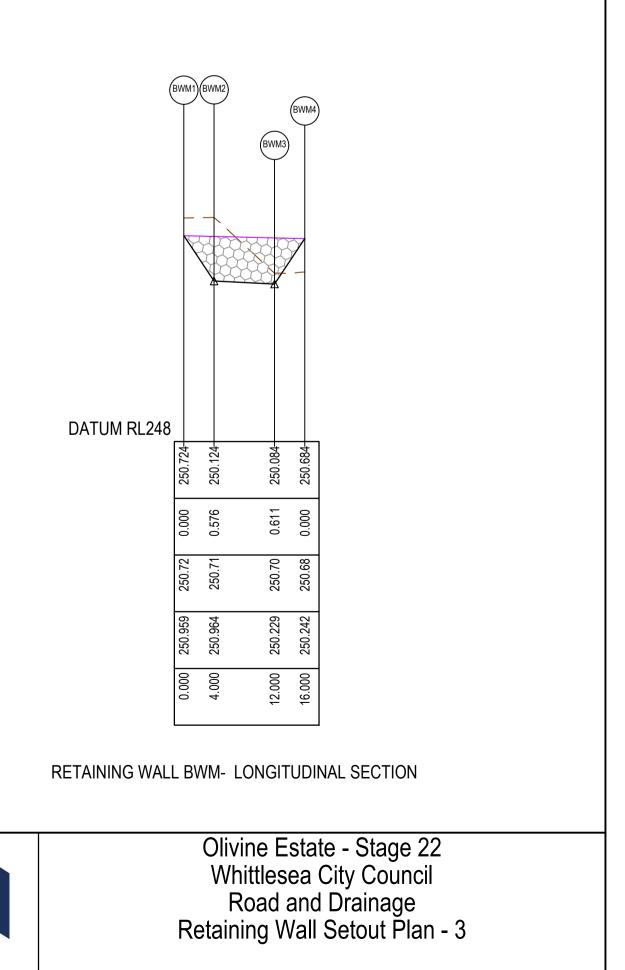
LEGEND ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY STORMWATER DRAIN, PIT & PROPERTY INLET MAIN DRAIN SWALE DRAIN • SEWER & MAINTENANCE STRUCTURES - — — — —H HOUSE DRAIN ELECTRICITY (U.GROUND) — Е — — ELECTRICITY (O.HEAD) ——0/Н —— \_\_\_\_ G \_\_\_\_ GAS — T — TELSTRA \_\_\_\_\_ w \_\_\_\_\_ | WATER — RW — RECYCLE WATER —— Ag —— AG. DRAIN --GW--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 .... **RETAINING WALL - ROCK** . . . . . . . . . Ag — AG. DRAIN

### RETAINING WALL DESIGN AND APPROVALS REQUIREMENTS

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

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.

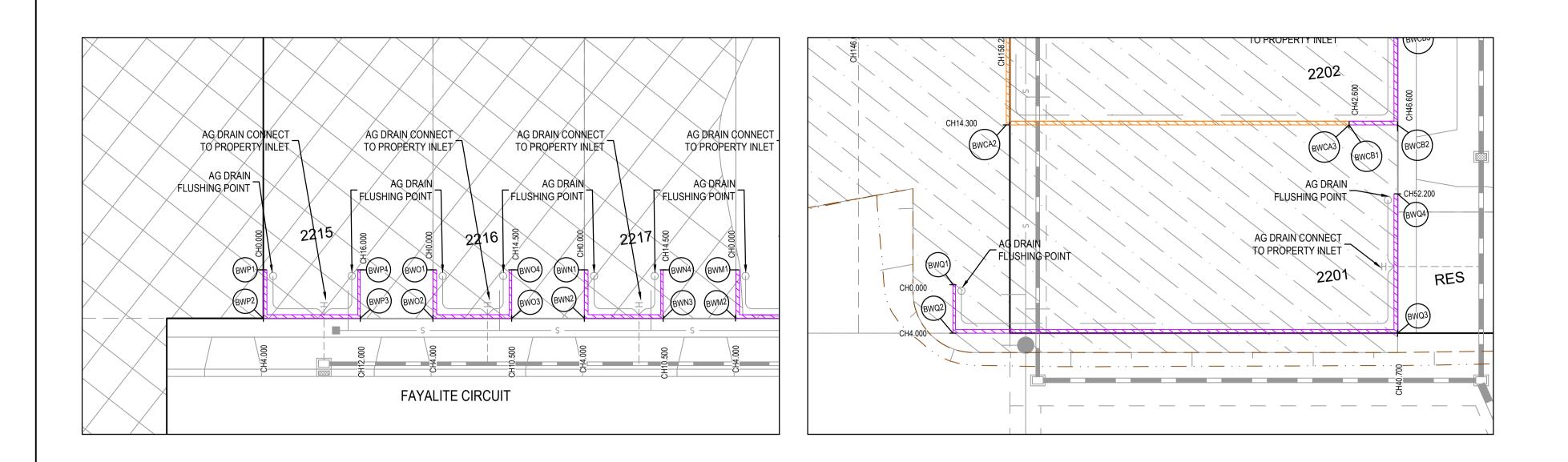


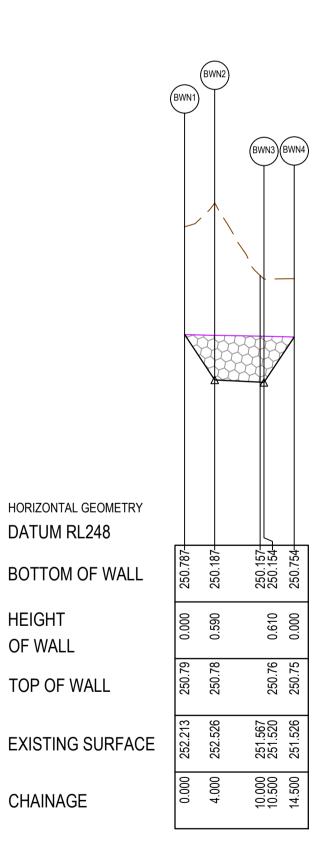
SHEET No. REVISION 09 of 43 4

MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-022-135

# 

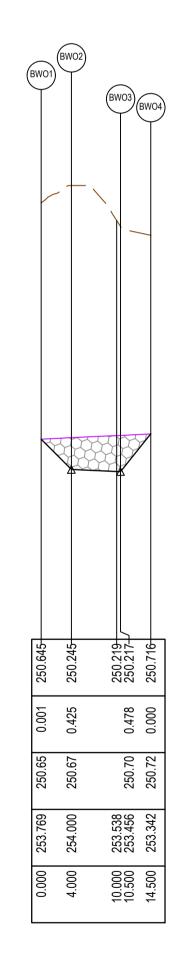
AGI PIPE CONNECTED TO DRAINAGE SYSTEM





RETAINING WALL BWN- LONGITUDINAL SECTION

DWG PATH: V:\\_Vault\Projects\_Urban\1700E-Olivine\1700E-22\Dwgs\1700E-022-136.dwg PRINTED BY: LC20143 on 10/02/2023 at 05:11:19 PM



**RETAINING WALL BWO - LONGITUDINAL SECTION** 

**RETAINING WALL BWP - LONGITUDINAL SECTION** 

(BWP1)(BWP2)

INK

250.259 250.259

0.217 0.226 -0.000

250.48 250.49 250.51

252.368 252.808 252.681

10.000 12.000 16.000

250

002 184

45

250.

039 996

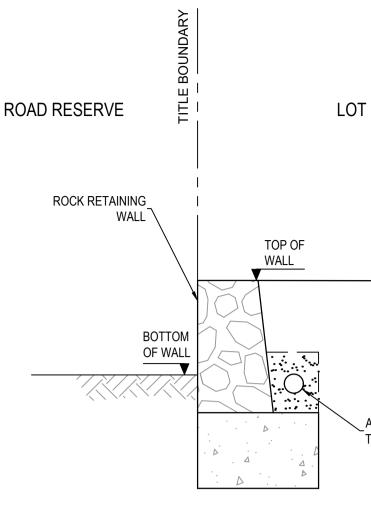
0.000

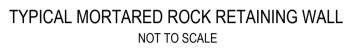
250

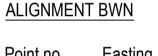


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(BWQ4)

246.74<del>8</del>-246.812-246.900-

0.119 0.064 0.003

246.87 246.88 246.90

245.722 245.737 245.764

200

50.50

FUILTIO	⊏asung
BWN1	322862.507
BWN2	322862.018
BWN3	322868.469
BWN4	322868.959

## ALIGNMENT BWO

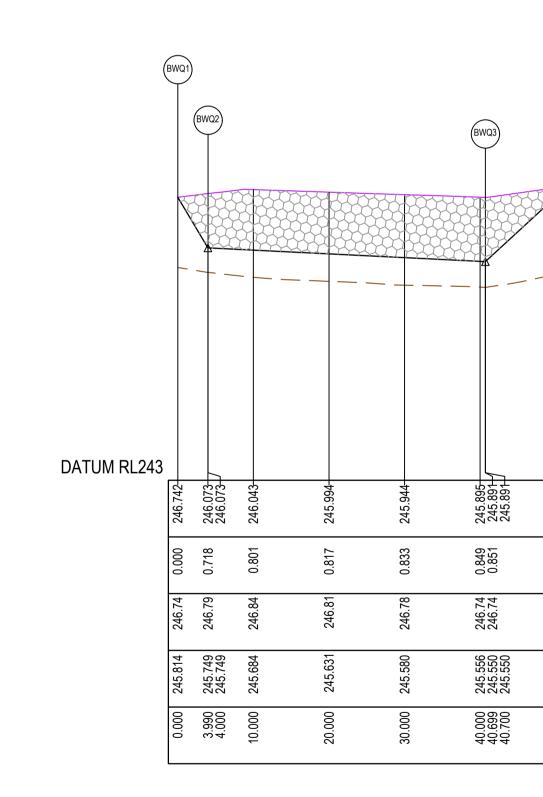
Point no	Easting
BWO1	322850.101
BWO2	322849.612
BWO3	322856.063
BWO4	322856.553

## ALIGNMENT BWP

Point no	Easting
BWP1	322836.207
BWP2	322835.717
BWP3	322843.657
BWP4	322844.147

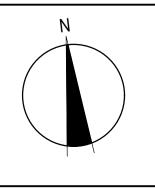
## ALIGNMENT BWQ

Point no	Easting
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BWQ2	322945.342
BWQ3	322981.765
BWQ4	322983.173

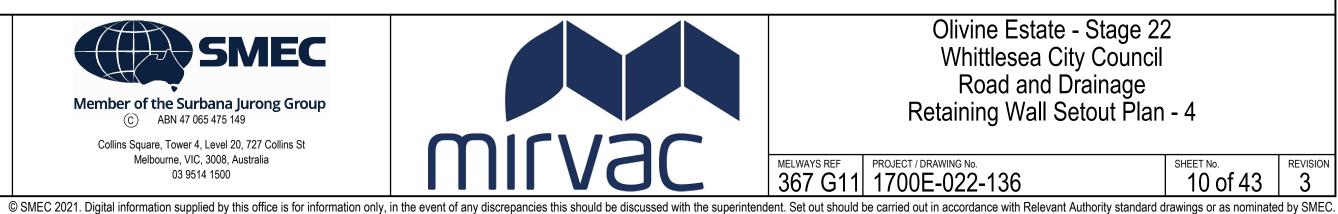


RETAINING WALL BWQ - LONGITUDINAL SECTION

0 5 10 0 0.5 1 Scale H1:500, V1:50 0 2.5 5 Scale 1:250 SCALE AS SHOWN AT A1







## <u>LEGEND</u>

\_\_\_\_\_ 

## — — — EXISTING SURFACE DESIGN LINE **RETAINING WALL - CONCRETE SLEEPER**

RETAINING WALL - ROCK

EGEND	E & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY
	STORMWATER DRAIN, PIT & PROPERTY INLET
<u> </u>	MAIN DRAIN
<b></b>	SWALE DRAIN
•S	SEWER & MAINTENANCE STRUCTURES
— — — — —H	HOUSE DRAIN
—— E ——	ELECTRICITY (U.GROUND)
——0/H ——	ELECTRICITY (O.HEAD)
G	GAS
—— T ——	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
·····	RETAINING WALL - ROCK
—— Ag ——	AG. DRAIN

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

## 

AGI PIPE CONNECTED TO DRAINAGE SYSTEM

Northing	RL
5844464.208	250.787
5844460.238	250.187
5844459.443	250.154
5844463.412	250.754

### RL Northing 5844465.739 250.645 5844461.769 250.245 5844460.973 250.217 5844464.943 250.716

Northing	RL
5844467.453	250.421
5844463.483	250.261
5844462.504	250.259
5844466.474	250.509

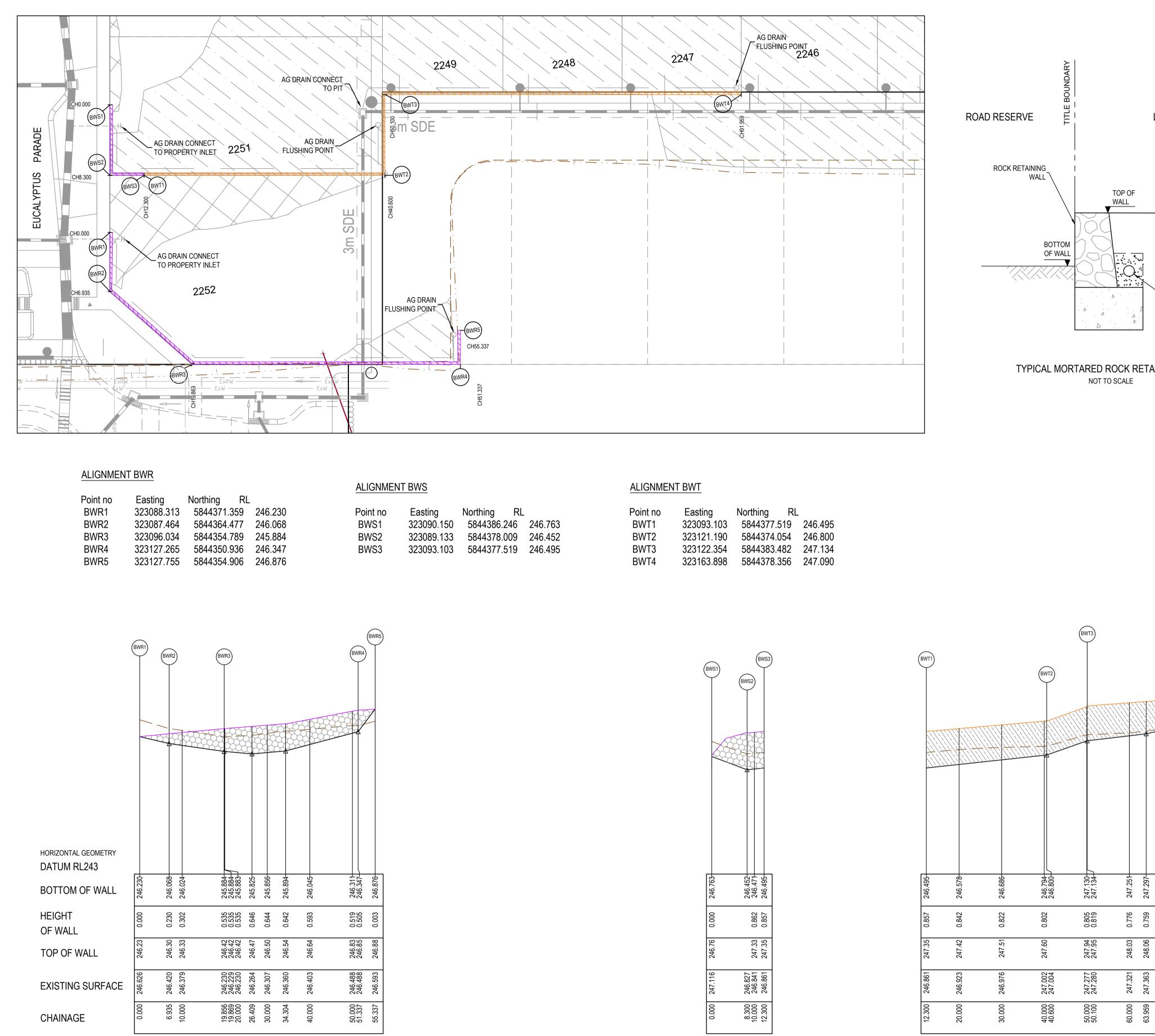
Northing	RL
5844377.352	246.742
5844373.382	246.073
5844368.888	245.891
5844380.301	246.900

# Olivine Estate - Stage 22 Whittlesea City Council Road and Drainage Retaining Wall Setout Plan - 4

MELWAYS REF PROJECT / DRAWING No.

367 G11 1700E-022-136

SHEET NO. REVISION 10 OF 43 3 SHEET No.



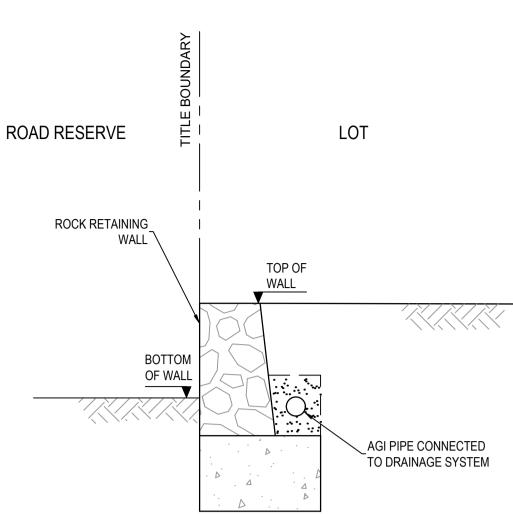
**RETAINING WALL BWR - LONGITUDINAL SECTION** 

# 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.

DWG PATH: V:\\_Vault\Projects\_Urban\1700E-Olivine\1700E-22\Dwgs\1700E-022-137.dwg PRINTED BY: LC20143 on 10/02/2023 at 05:11:38 PM

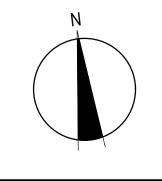




TYPICAL MORTARED ROCK RETAINING WALL

Point no	Easting	Northing F	RL
BWT1	323093.103	5844377.519	246.495
BWT2	323121.190	5844374.054	246.800
BWT3	323122.354	5844383.482	247.134
BWT4	323163.898	5844378.356	247.090

RETAINING WALL BWS - LONGITUDINAL SECTION



RETAINING WALL BWT - LONGITUDINAL SECTION





247.658-247.680-

0.437 0.415

248.10 248.09

247.505 247.501

80.000 80.959

248. 248.

0.072 0.000

60

248. 248.

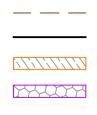
502

247. 247

90.000 91.959

BWT4

## <u>LEGEND</u>



— — — EXISTING SURFACE — DESIGN LINE **RETAINING WALL - CONCRETE SLEEPER** RETAINING WALL - ROCK

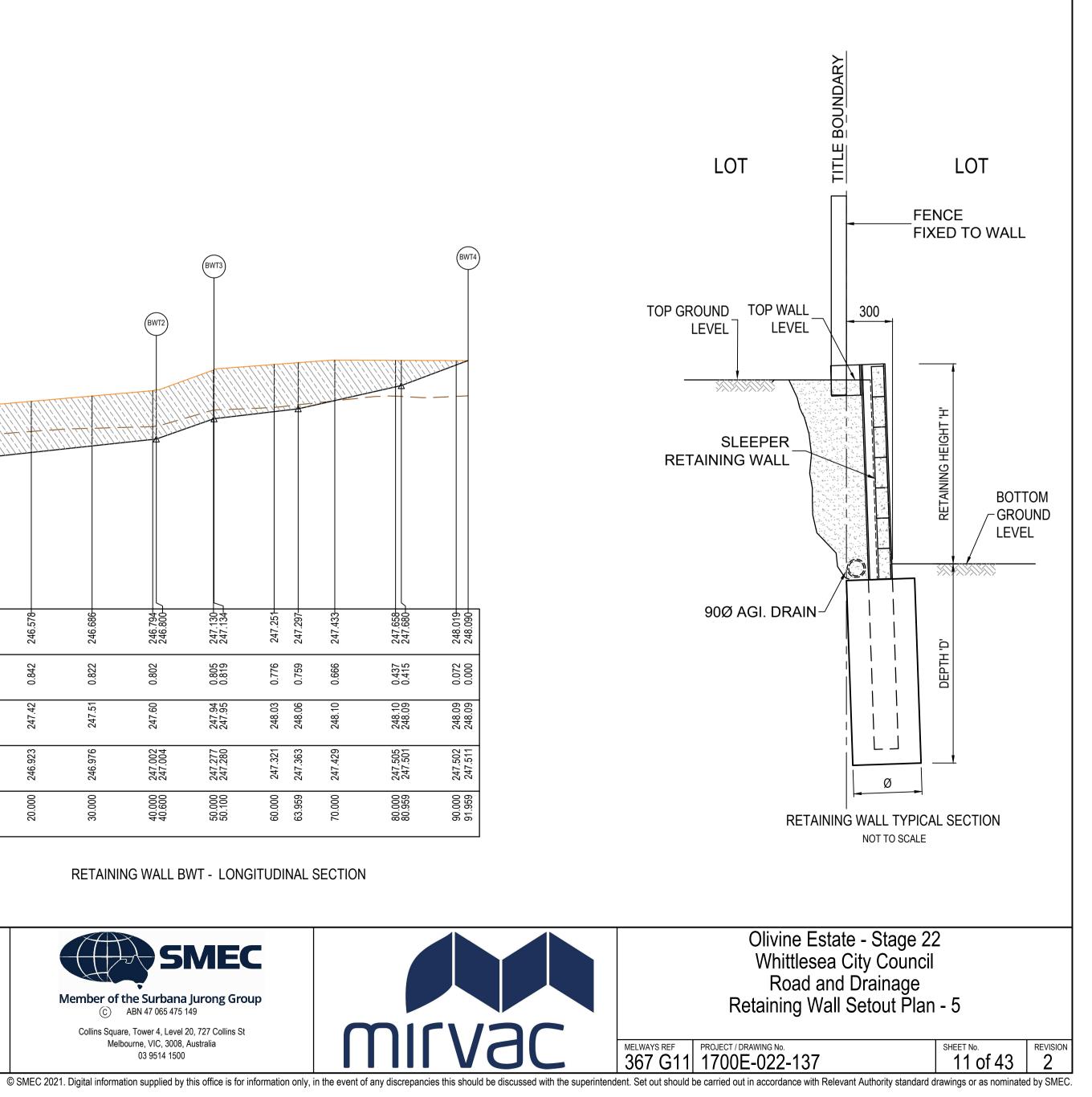
RETAINING WALL DESIGN AND APPROVALS REQUIREMENTS

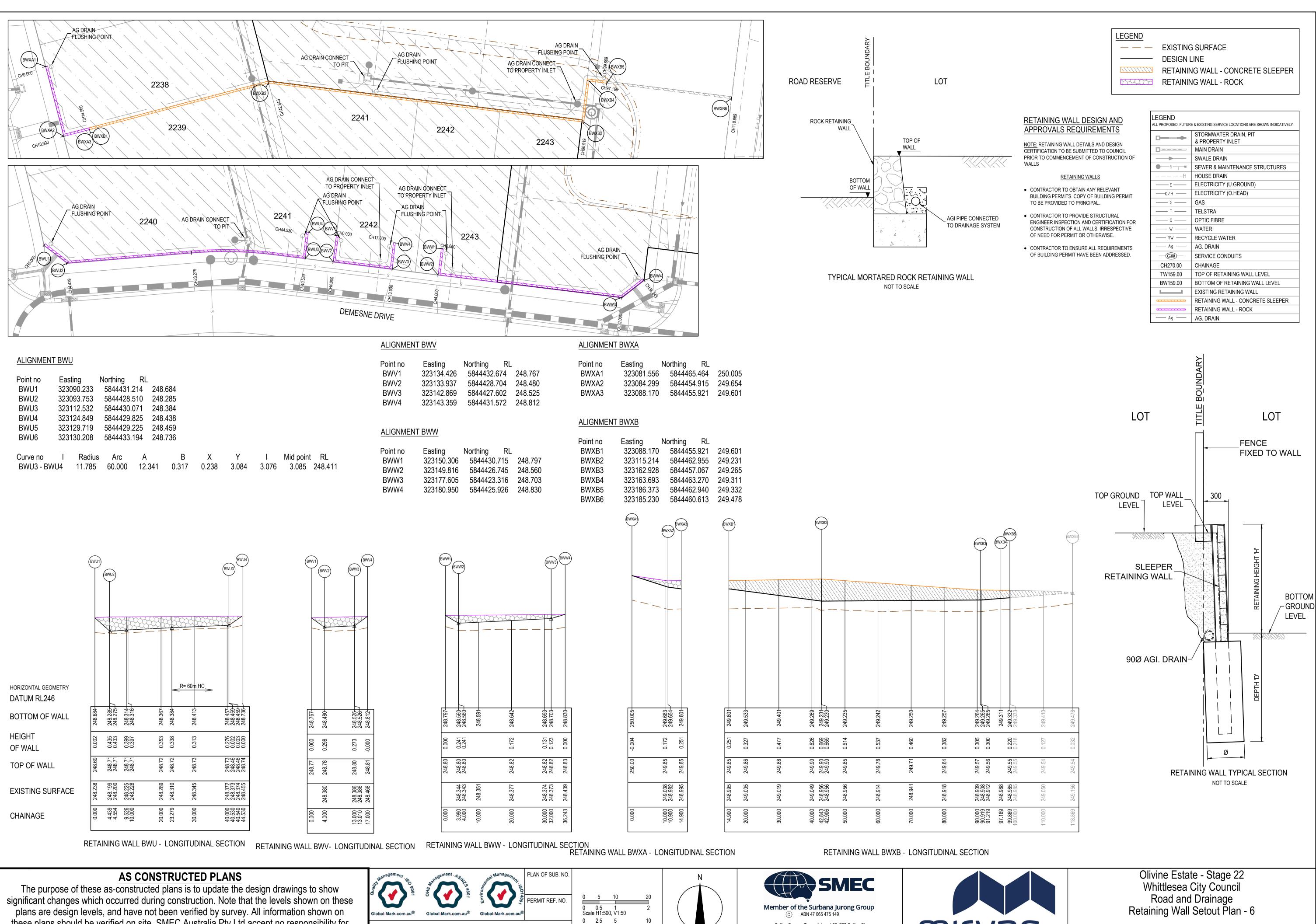
NOTE: RETAINING WALL DETAILS AND DESIGN CERTIFICATION TO BE SUBMITTED TO COUNCIL PRIOR TO COMMENCEMENT OF CONSTRUCTION OF WALLS

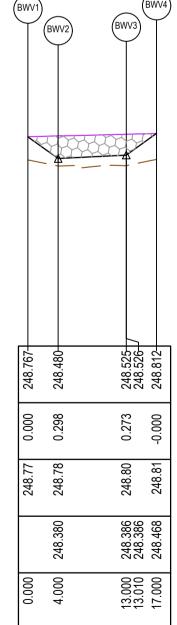
### RETAINING WALLS

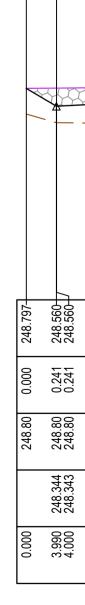
- CONTRACTOR TO OBTAIN ANY RELEVANT BUILDING PERMITS. COPY OF BUILDING PERMIT TO BE PROVIDED TO PRINCIPAL.
- CONTRACTOR TO PROVIDE STRUCTURAL ENGINEER INSPECTION AND CERTIFICATION FOR CONSTRUCTION OF ALL WALLS, IRRESPECTIVE OF NEED FOR PERMIT OR OTHERWISE.
- CONTRACTOR TO ENSURE ALL REQUIREMENTS OF BUILDING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

LEGEND ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY				
	STORMWATER DRAIN, PIT & PROPERTY INLET			
	MAIN DRAIN			
<b>&gt;</b>	SWALE DRAIN			
S	SEWER & MAINTENANCE STRUCTURES			
— — — — — H	HOUSE DRAIN			
—— E ——	ELECTRICITY (U.GROUND)			
——0/H ——	ELECTRICITY (O.HEAD)			
—— G ——	GAS			
— T ——	TELSTRA			
0	OPTIC FIBRE			
—— w ——	WATER			
—— RW ——	RECYCLE WATER			
—— Ag ——	AG. DRAIN			
—GW—	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			
	RETAINING WALL - ROCK			
—— Ag ——	AG. DRAIN			









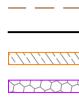
plans are design levels, and have not been verified by survey. All information shown on these plans should be verified on site. SMEC Australia Pty Ltd accept no responsibility for loss or damages resulting from the inappropriate usage of these plans.

DWG PATH: V:\\_Vault\Projects\_Urban\1700E-Olivine\1700E-22\Dwgs\1700E-022-138.dwg PRINTED BY: LC20143 on 10/02/2023 at 05:11:57 PM

Scale 1:250 SCALE AS SHOWN AT A1

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

03 9514 1500 © 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.



MELWAYS REF PROJECT / DRAWING No.

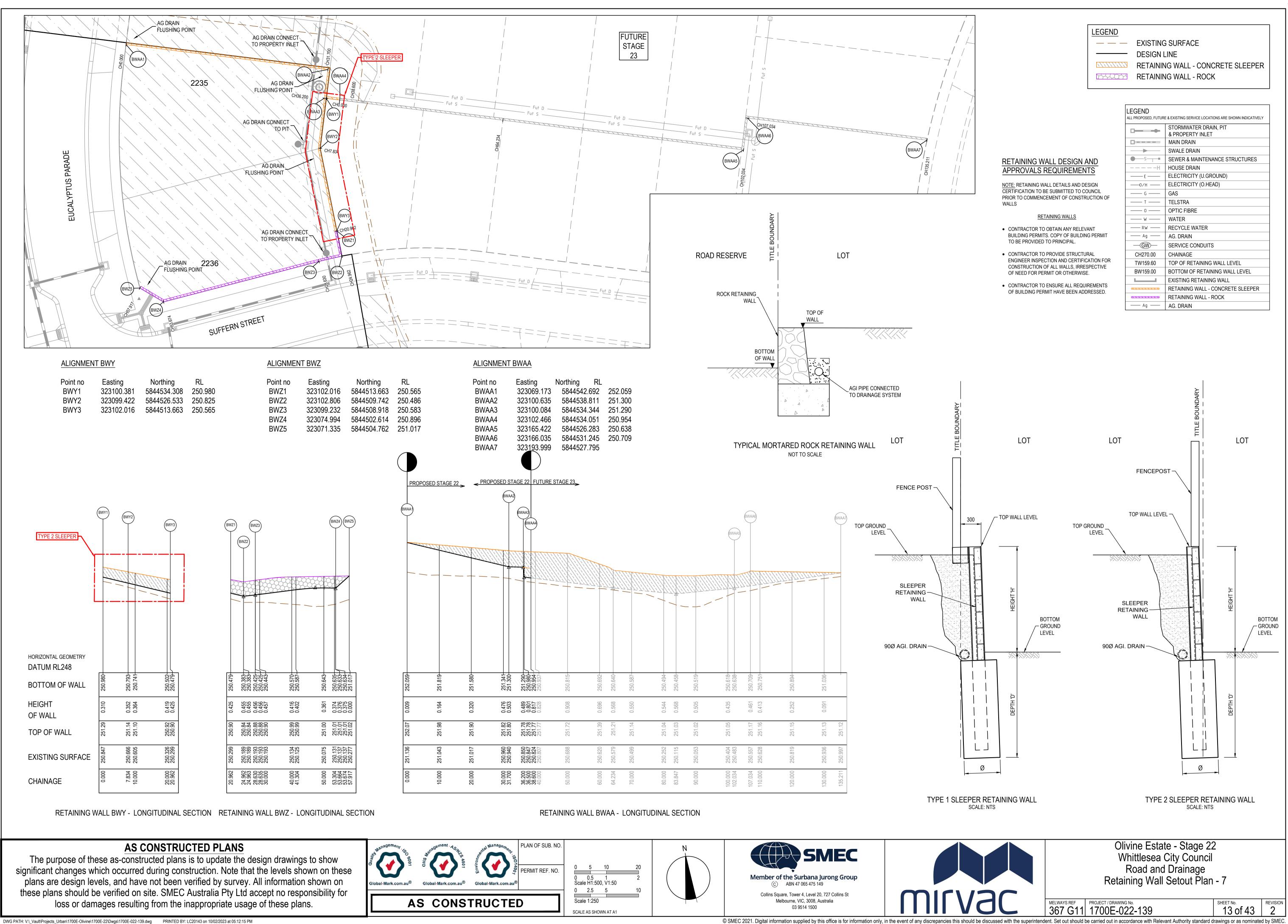
1700E-022-138

367 G11

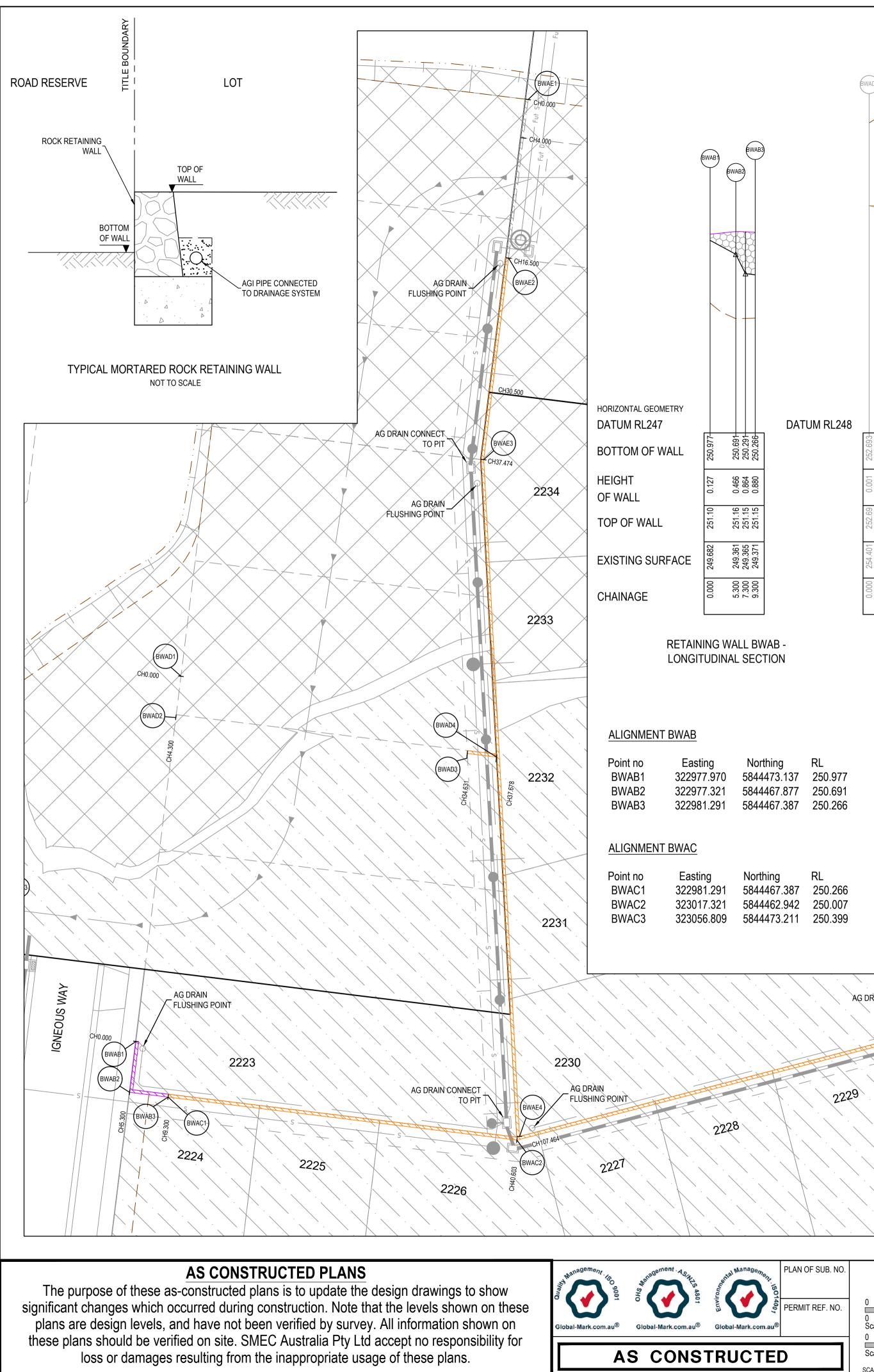
12 of 43 REVISION

SHEET No.

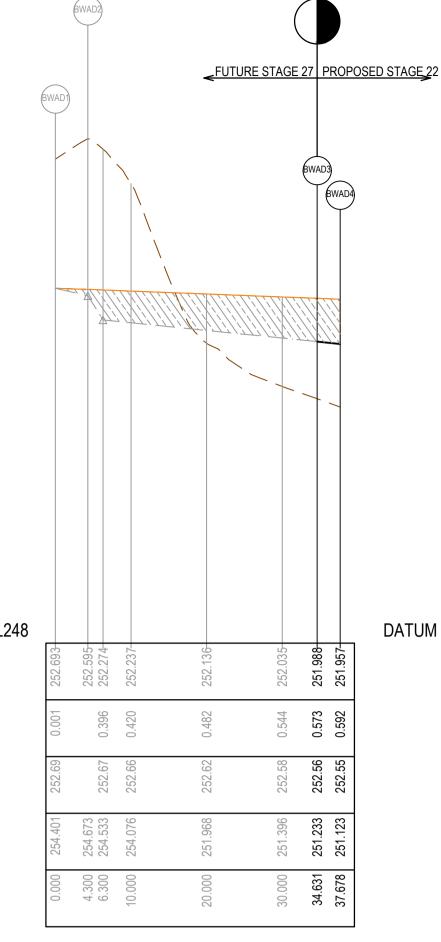
EGEND				
	& PROPERTY INLET MAIN DRAIN			
	SWALE DRAIN			
●S■	SEWER & MAINTENANCE STRUCTURES			
— — — — — H	HOUSE DRAIN			
——— E ———	ELECTRICITY (U.GROUND)			
——0/H ——	ELECTRICITY (O.HEAD)			
—— G ——	GAS			
— T —	TELSTRA			
0	OPTIC FIBRE			
—— w ——	WATER			
—— RW ——	RECYCLE WATER			
—— Ag ——	AG. DRAIN			
—@W—	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			
	RETAINING WALL - ROCK			
—— Ag ——	AG. DRAIN			

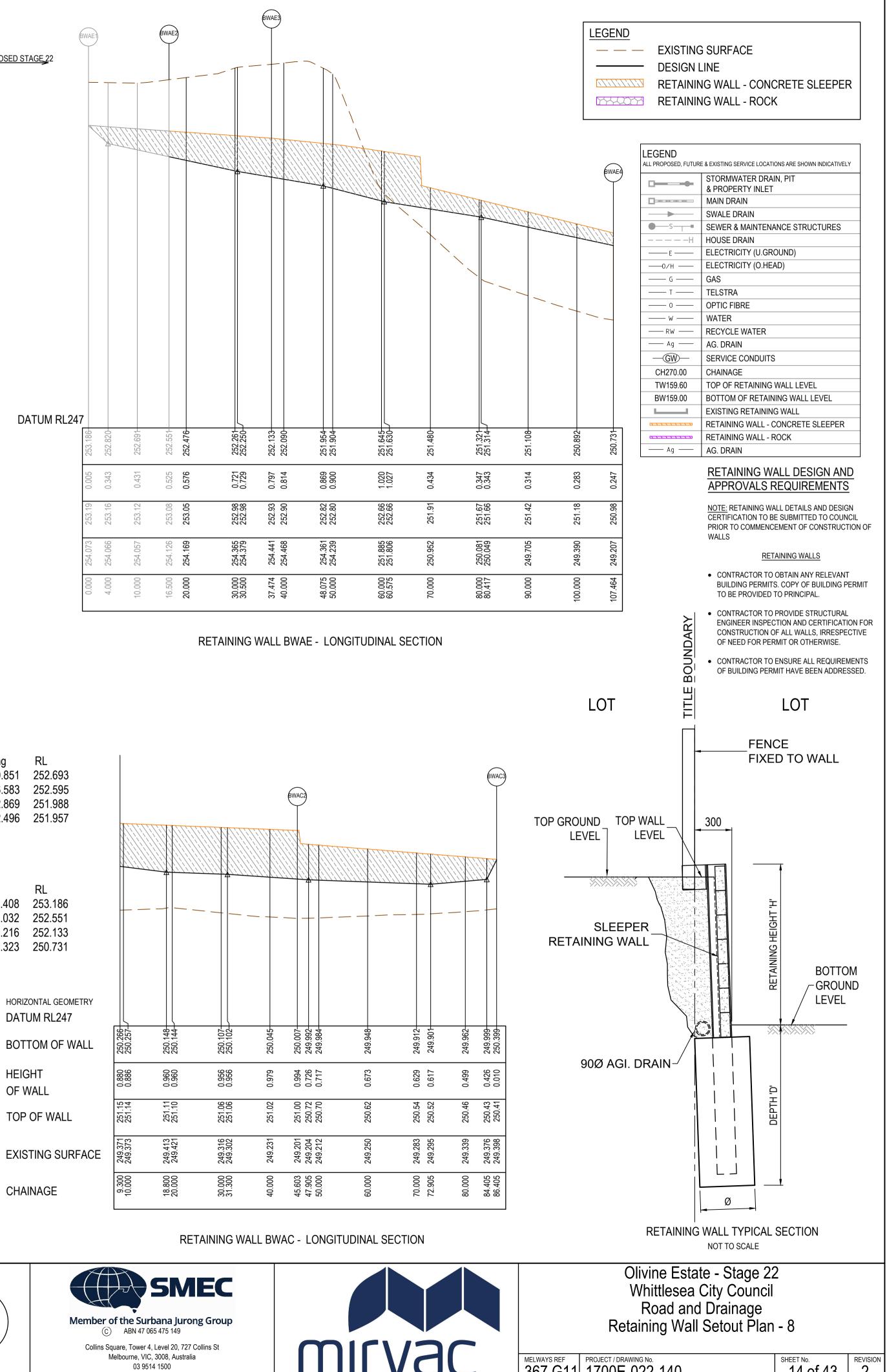


LEGEND ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY				
□	STORMWATER DRAIN, PIT & PROPERTY INLET			
	MAIN DRAIN			
	SWALE DRAIN			
●S■	SEWER & MAINTENANCE STRUCTURES			
— — — — — H	HOUSE DRAIN			
——— E ———	ELECTRICITY (U.GROUND)			
——0/H ——	ELECTRICITY (O.HEAD)			
G	GAS			
— T ——	TELSTRA			
0	OPTIC FIBRE			
—— w ——	WATER			
—— RW ——	RECYCLE WATER			
—— Ag ——	AG. DRAIN			
—@W—	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			
	RETAINING WALL - ROCK			
—— Ag ——	AG. DRAIN			



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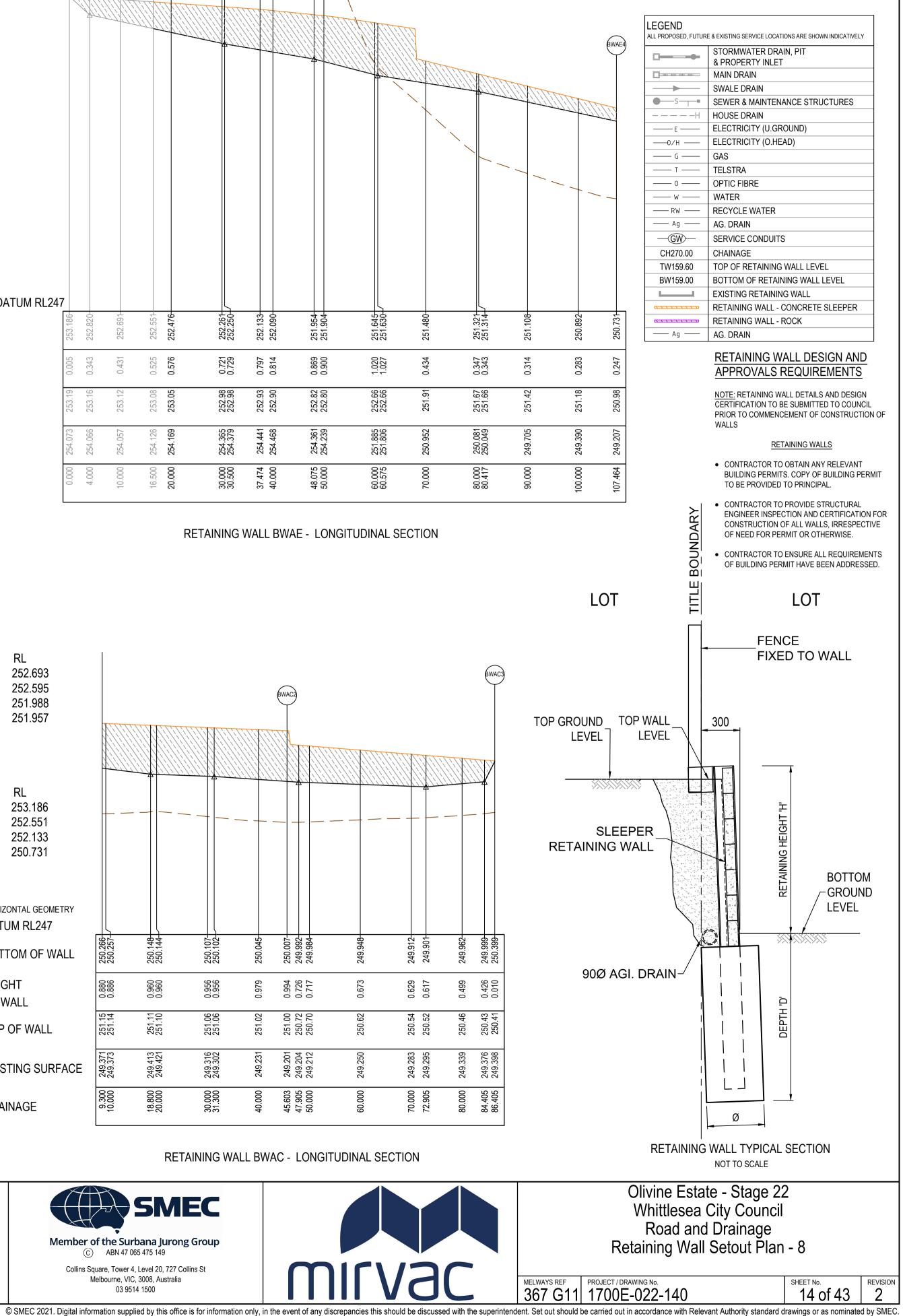




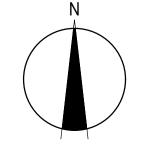
**RETAINING WALL BWAD -**LONGITUDINAL SECTION

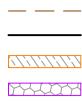
ALIGNMENT	BWA

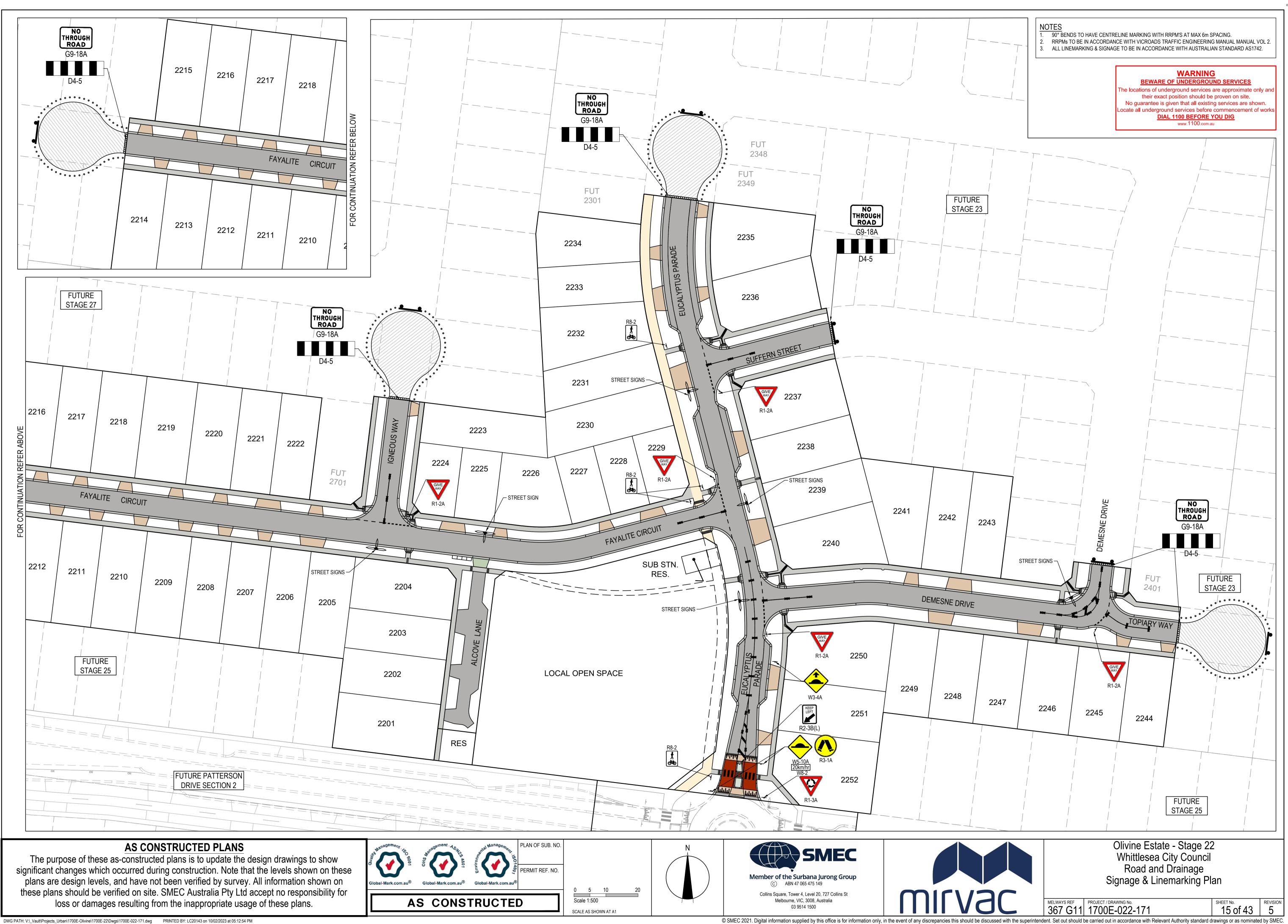
Easting 322977.970 322977.321 322981.291	Northing 5844473.137 5844467.877 5844467.387	RL 250.977 250.691 250.266	Point no BWAD1 BWAD2 BWAD3 BWAD4	Easting 322982.623 322982.096 323012.199 323015.223	Northing 5844510.851 5844506.583 5844502.869 5844502.496	RL 252.693 252.595 251.988 251.957		V.V.V.K.V.		
BWAC	<b>N</b> 1 (1)		ALIGNMENT	BWAE						
Easting 322981.291 323017.321 323056.809	Northing 5844467.387 5844462.942 5844473.211	RL 250.266 250.007 250.399	Point no BWAE1 BWAE2 BWAE3 BWAE4	Easting 323018.486 323016.465 323013.897 323017.597	Northing 5844570.408 5844554.032 5844533.216 5844463.323	RL 253.186 252.551 252.133 250.731				
		AG DRAN	N CONNECT TO PIT BWAC3		DAT	ZONTAL GEOMETRY UM RL247	250.266 250.257	250.148 250.144	250.107 250.102	
	· · · · ·	alter and the second se	CH86.405		BOT	TOM OF WALL				
		2229				WALL	1.15 0.880 1.14 0.886	1.11 0.960	0.956	

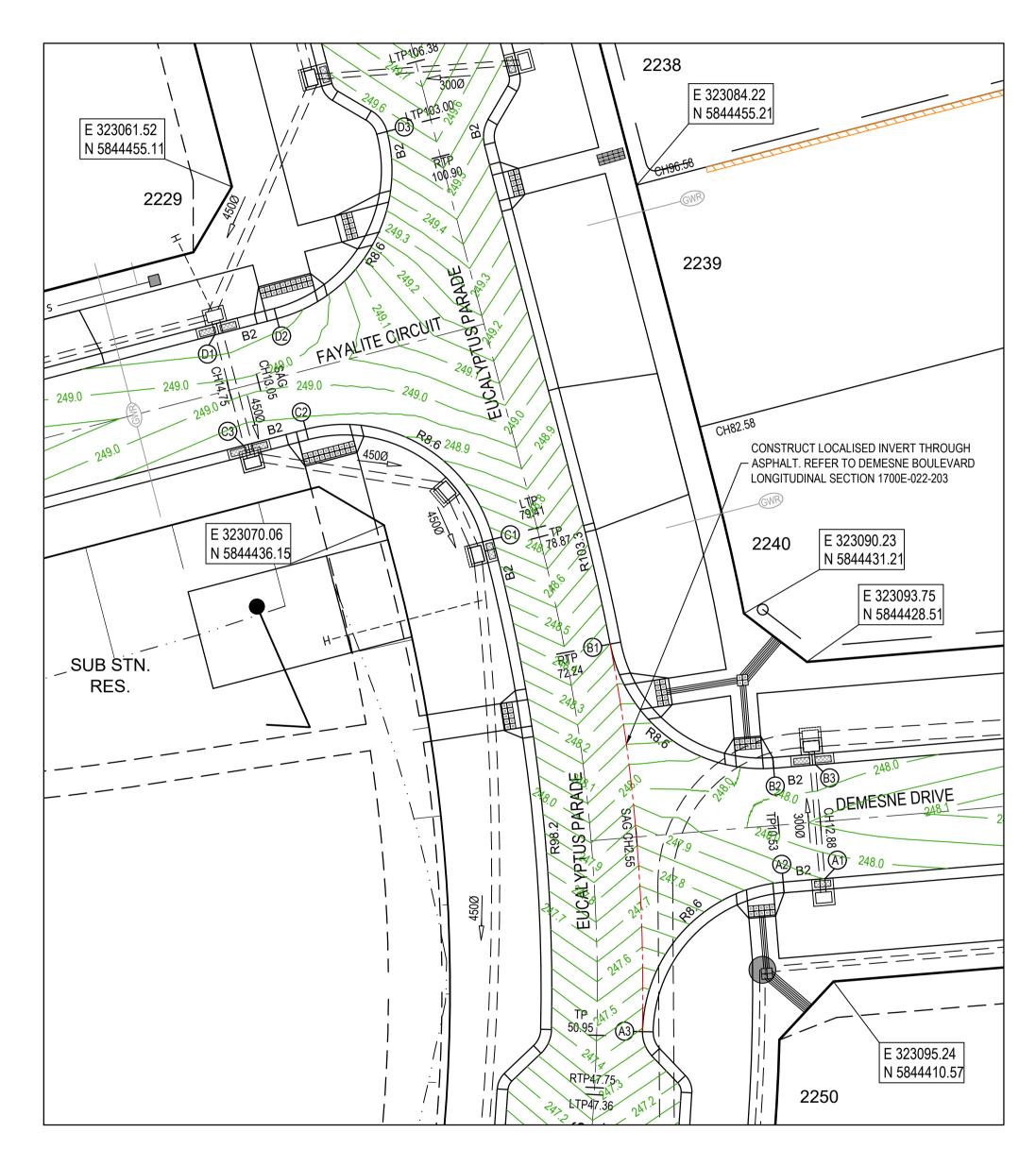


10 0 0.5 1 Scale H1:500, V1:50 0 2.5 5 Scale 1:250 SCALE AS SHOWN AT A1









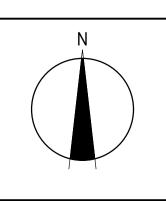
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DWG PATH: V:\\_Vault\Projects\_Urban\1700E-Olivine\1700E-22\Dwgs\1700E-022-181.dwg PRINTED BY: LC20143 on 10/02/2023 at 05:13:13 PM

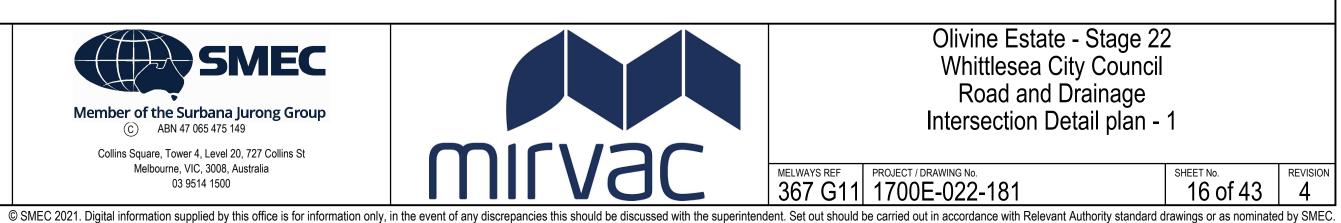


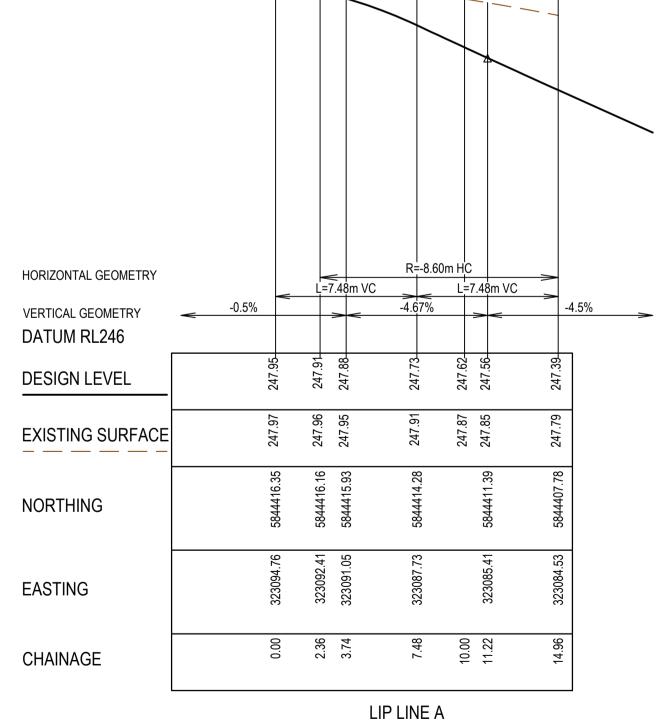


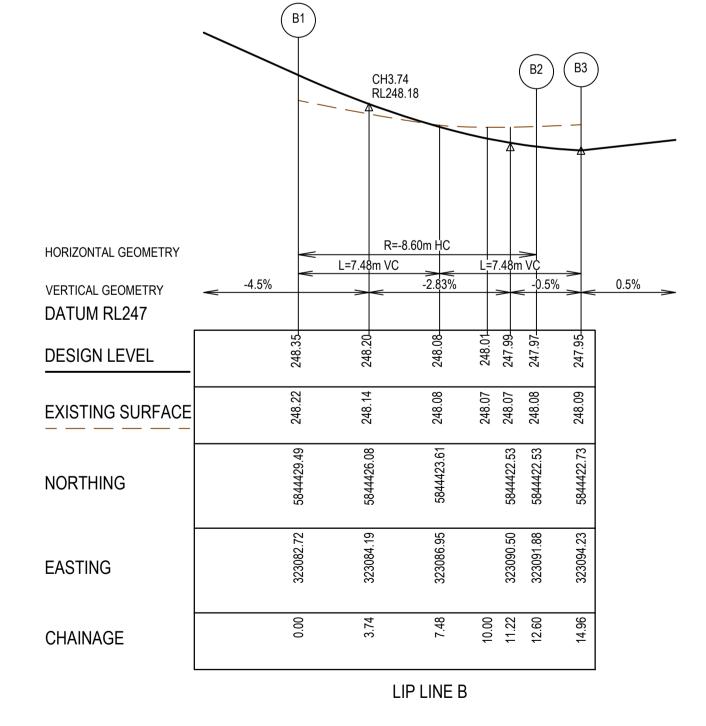
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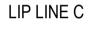


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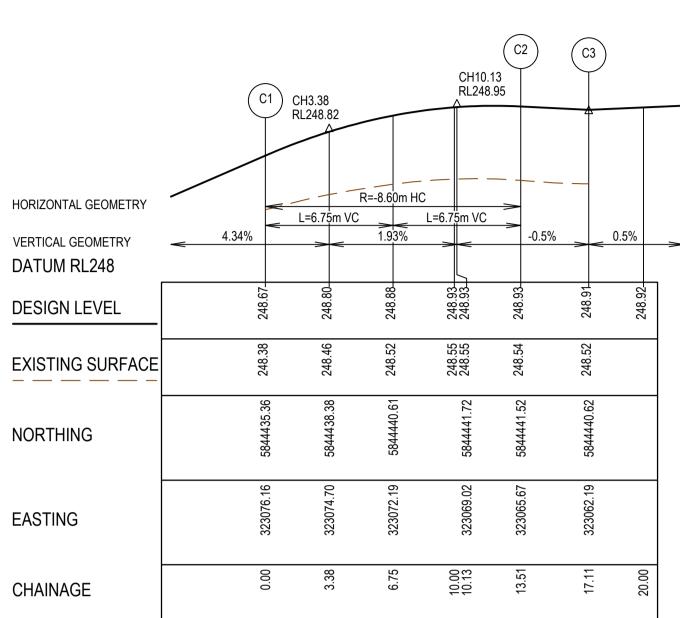


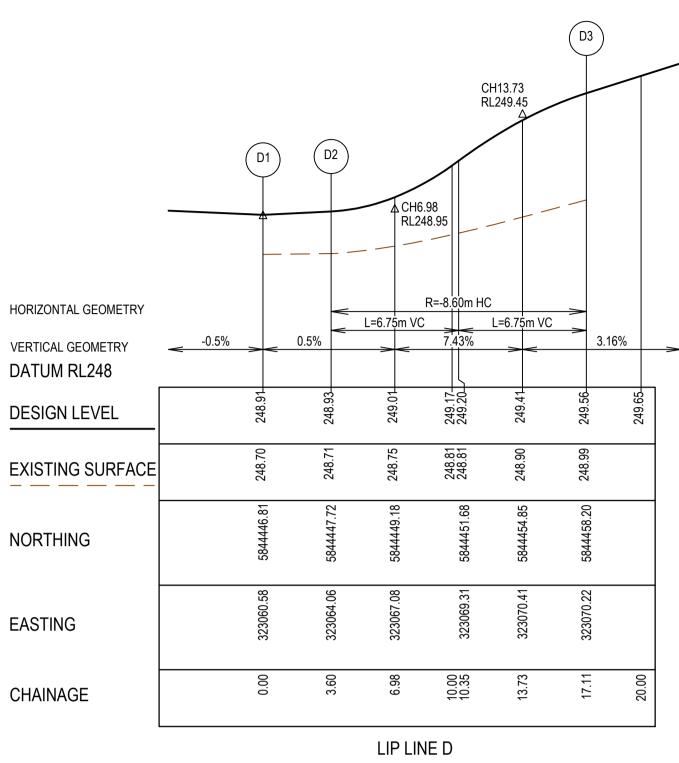




CH3.74 RL247.91

(A3)





## NOTES

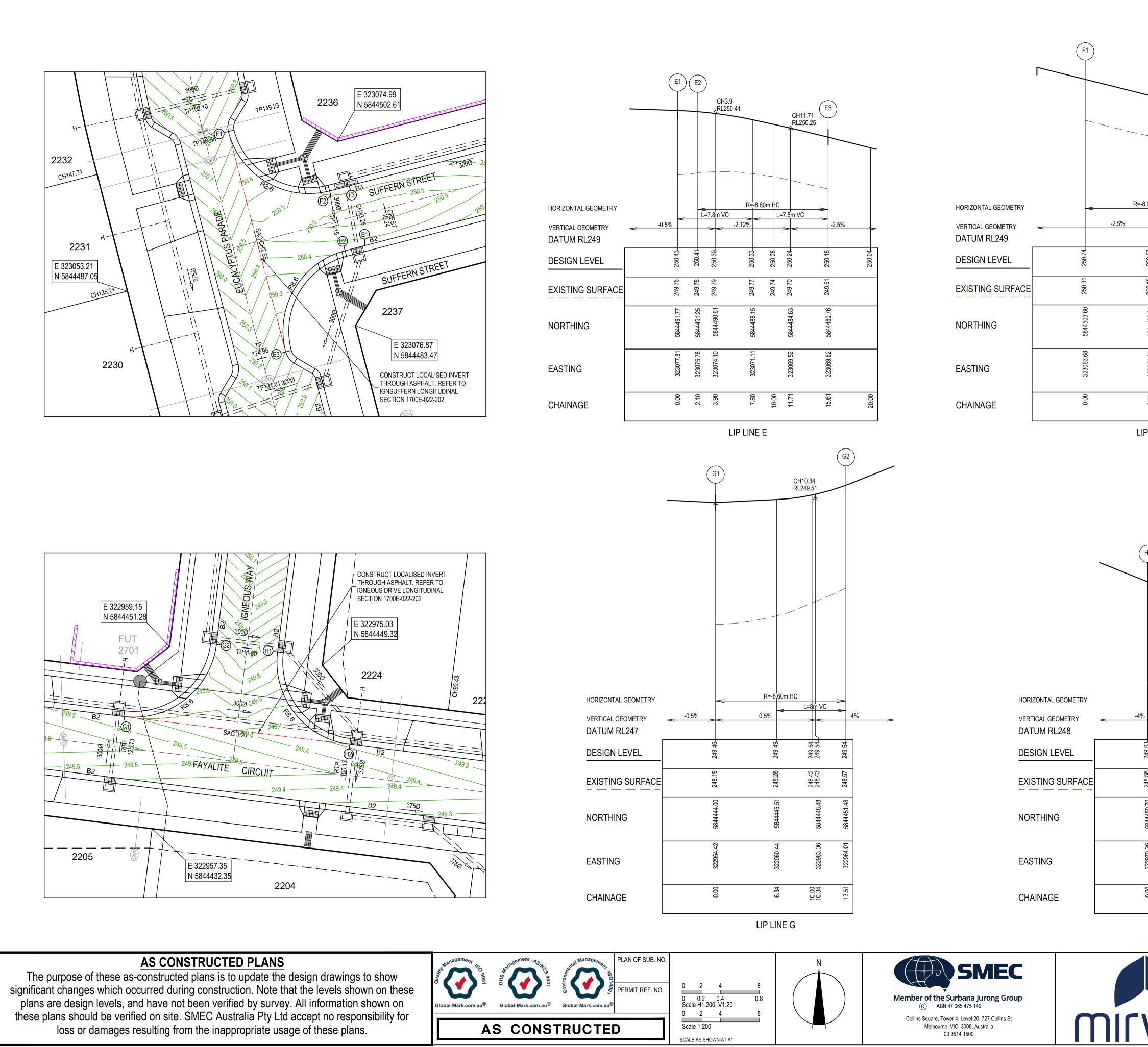
ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS. ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS. VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.

	JRE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY		
□= = = =	STORMWATER DRAIN, PIT		
<b>D</b> =====	& PROPERTY INLET		
•S	SEWER & MAINTENANCE STRUCTURES		
H	HOUSE DRAIN		
	SERVICE CONDUITS		
	TACTILE PAVERS		
	EXISTING STORMWATER DRAIN		
	EXISTING MAIN DRAIN		
GEx S	EXISTING SEWER & MAINTENANCE STRUCTURES		
GWR	EXISTING SERVICE CONDUITS		
	EXISTING TACTILE PAVERS		
-Fut D -	FUTURE STORMWATER DRAIN		
	FUTURE MAIN DRAIN		
G-FUT S			
— — — — — H	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			
X	TEMPORARY BENCH MARK		
	PROPOSED DRIVEWAY & FOOTPATH		

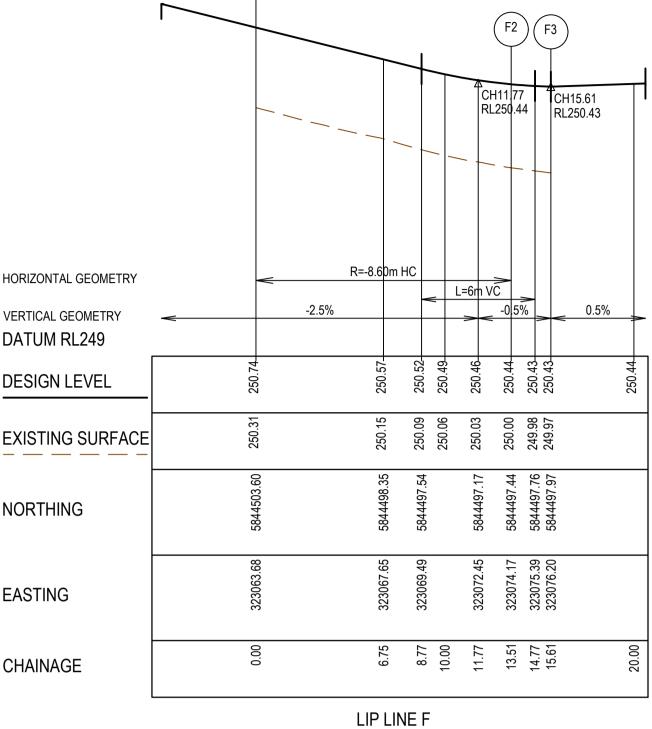
# Olivine Estate - Stage 22 Whittlesea City Council Road and Drainage Intersection Detail plan - 1

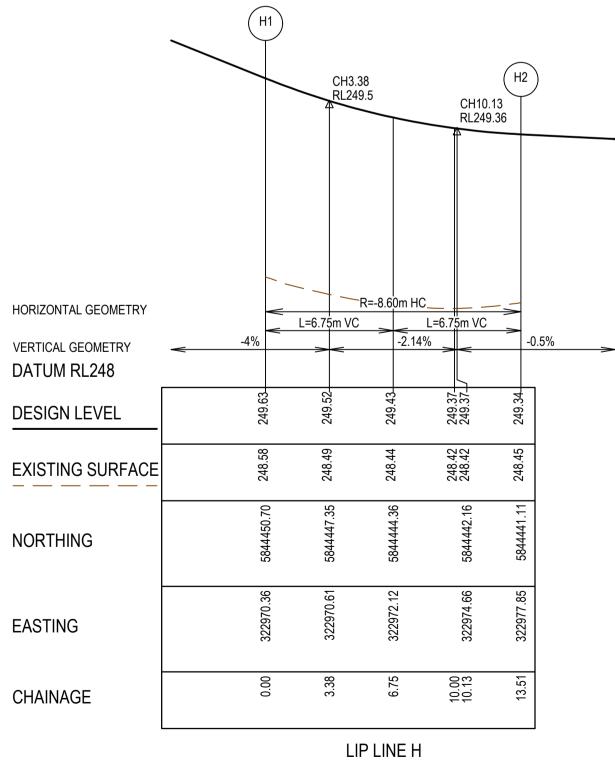
MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-022-181

n pian -	1	
	SHEET No.	REVISION
	16 of 43	4



DWG PATH: V:\\_Vault\Projects\_Urban\1700E-Olivine\1700E-22\Dwgs\1700E-022-182.dwg PRINTED BY: LC20143 on 10/02/2023 at 05:13:34 PM

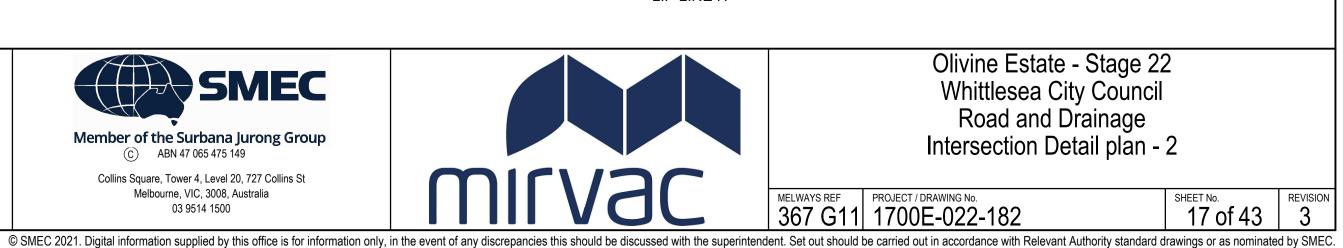


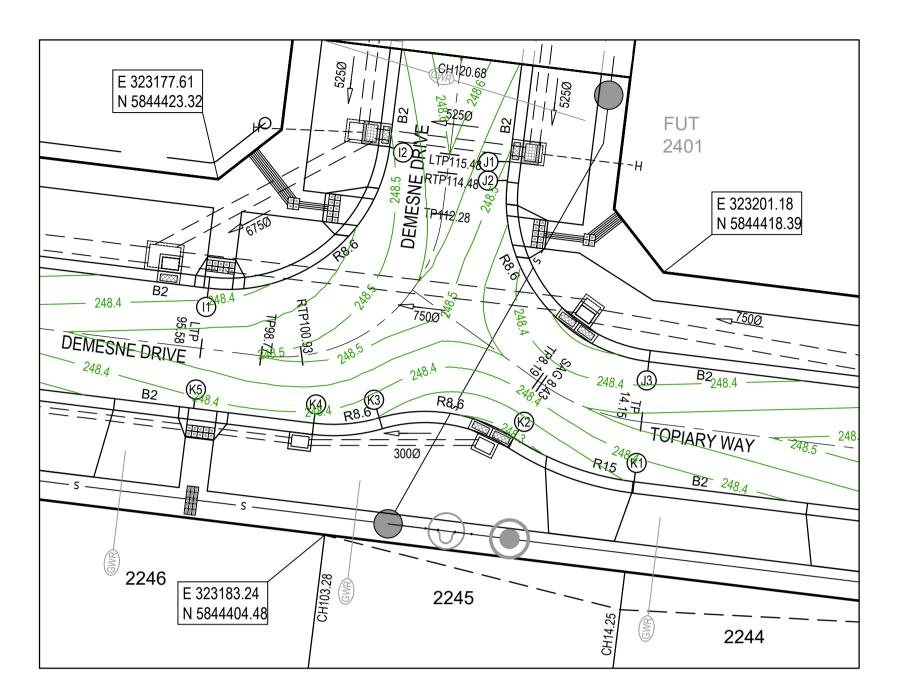


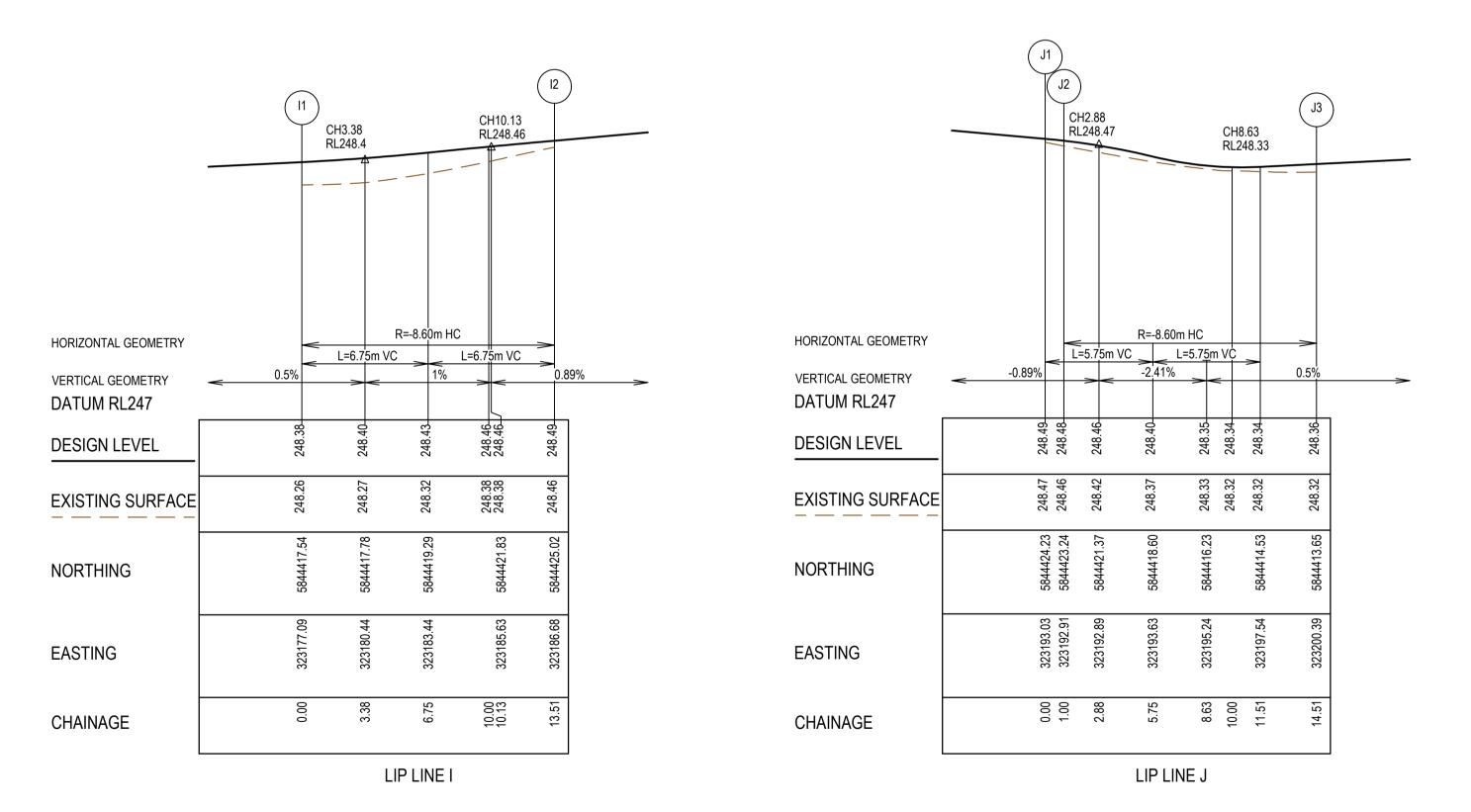
## NOTES

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.

LEGEND - INTERSECTION DETAIL PLAN ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY			
□= = = = ■ STORMWATER DRAIN, PIT & PROPERTY INLET			
	MAIN DRAIN		
•S	SEWER & MAINTENANCE STRUCTURES		
— — — — — H	HOUSE DRAIN		
GWR	SERVICE CONDUITS		
	TACTILE PAVERS		
	EXISTING STORMWATER DRAIN		
	EXISTING MAIN DRAIN		
⊖—£x s ——	EXISTING SEWER & MAINTENANCE STRUCTURES		
GWR	EXISTING SERVICE CONDUITS		
	EXISTING TACTILE PAVERS		
-Fut D -	FUTURE STORMWATER DRAIN		
	FUTURE MAIN DRAIN		
⊖ <del>f</del> ut s —	FUTURE SEWER & MAINTENANCE STRUCTURES		
— — — — — H	FUTURE HOUSE DRAIN		
GWR	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		







PLAN OF SUB. NO. PERMIT REF. NO. lobal-Mark.com.au® Global-Mark.com.au® Global-Mark.com.au AS CONSTRUCTED

# AS CONSTRUCTED PLANS

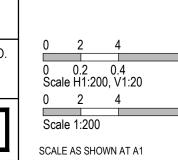
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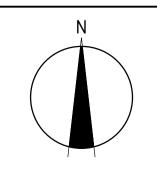
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R=15.00m HC HORIZONTAL GEOMETRY L=11.33m VC -0.5% -1.5% VERTICAL GEOMETRY DATUM RL247 248.36 248.34 248.29-248.29-DESIGN LEVEL 248.21 248.21 248.21 248.21 EXISTING SURFACE 248. 5844409.63 5844409.80 30 56 5844407. 5844407. NORTHING 323193.25 323192.97 14 .61 98. EASTING 323 323 0.00 1.50 6.84 7.17 10.00 CHAINAGE

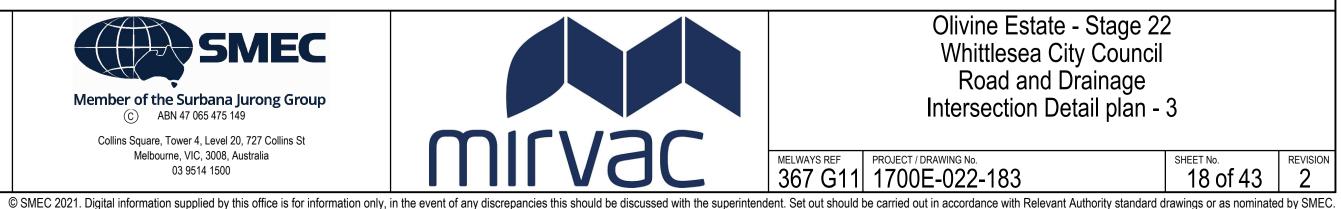
(К2)

CH7.17 RL248.25





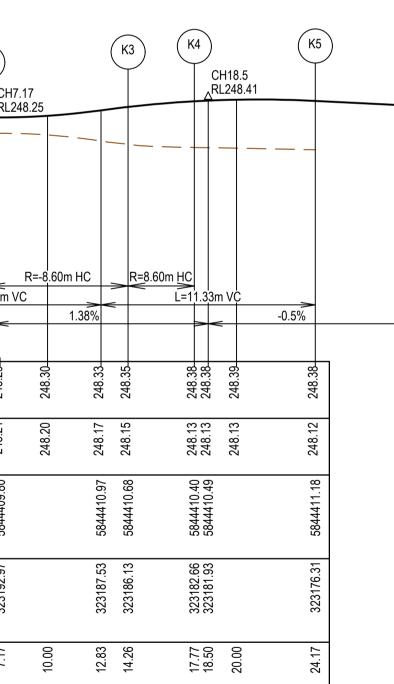




## NOTES

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	LEGEND - INTERSECTION DETAIL PLAN ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY				
	STORMWATER DRAIN, PIT & PROPERTY INLET				
	MAIN DRAIN				
S	SEWER & MAINTENANCE STRUCTURES				
H	HOUSE DRAIN				
GWR	SERVICE CONDUITS				
	TACTILE PAVERS				
	EXISTING STORMWATER DRAIN				
	EXISTING MAIN DRAIN				
<u>—</u> Ех S ——	EXISTING SEWER & MAINTENANCE STRUCTURES				
GWR	EXISTING SERVICE CONDUITS				
	EXISTING TACTILE PAVERS				
Fut D -	FUTURE STORMWATER DRAIN				
	FUTURE MAIN DRAIN				
⊖ <del>f</del> ut s —	FUTURE SEWER & MAINTENANCE STRUCTURES				
— — — — — H	FUTURE HOUSE DRAIN				
GWR	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				



LIP LINE K

# Olivine Estate - Stage 22 Whittlesea City Council Road and Drainage Intersection Detail plan - 3

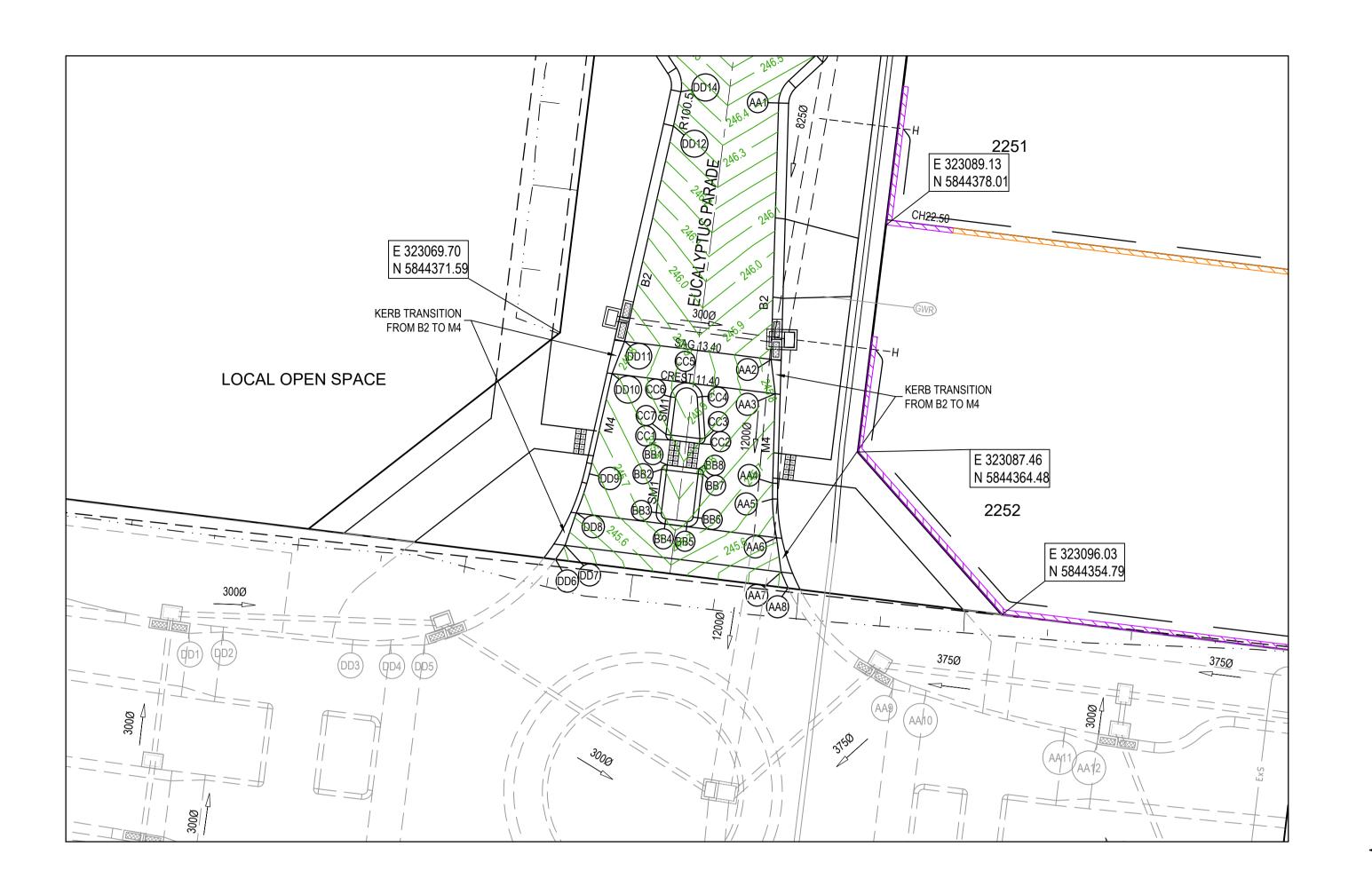
MELWAYS REF PROJECT / DRAWING No.

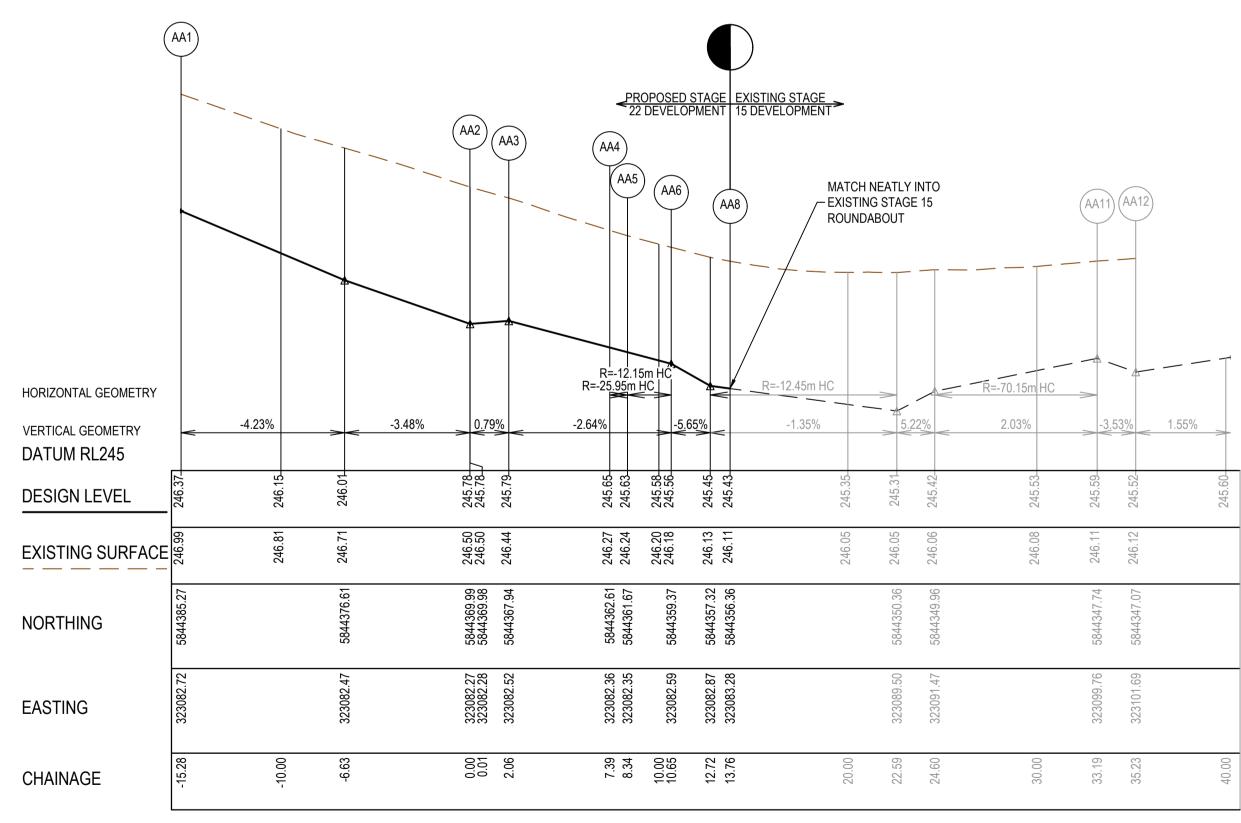
367 G11 1700E-022-183

SHEET No.	REVISION
18 of 43	2

ALIGNMENT BB

Point no BB1 BB2 BB3 BB4 BB5 BB6 BB7 BB8	Easting 323076.083 323075.749 323075.953 323077.243 323077.912 323078.227 323077.965	Northing 5844363.699 5844360.856 5844360.189 5844360.030 5844360.030 5844360.552 5844363.139 5844363.467	3       245.794         3       245.737         9       245.743         0       245.742         2       245.737         9       245.737         9       245.737         9       245.737					
Curve no	I Rad	ius Arc	A B	Х	Y	I Mid p	oint RL	
BB1 - BB2		0.300 0.4		0.065	0.115	0.097	0.118	245.802
BB3 - BB4		0.600 0.9		0.130	0.230	0.195	0.236	245.734
BB5 - BB6		0.600 0.9		0.130	0.230	0.195	0.236	245.734
BB7 - BB8	88.856	0.300 0.4	65 0.086	0.063	0.113	0.097	0.116	245.802
ALIGNMEN Point no CC1 CC2 CC3 CC4 CC5 CC6	Easting 323076.267 323077.996 323078.332 323078.167 323077.222	Northing 5844365.18 5844364.97 5844365.27 5844367.76 5844368.58 5844367.75	5 245.849 4 245.847 1 245.916 9 245.936					
CC6 CC7	323076.282 323076.006	5844367.75 5844365.52						
Curve no CC2 - CC3 CC4 - CC3	I Rad 3 97.271 5 82.791	ius Arc 0.300 0.5 0.950 1.3	A B 509 0.102 373 0.237	X 0.075 0.176	Y 0.124 0.336	0.102 0.292	oint RL 0.127 0.343	245.844 245.940
CC5 - CC CC7 - CC			3730.2371710.088	0.176 0.065	0.336 0.115	0.292 0.097	0.343 0.118	245.910 245.839
007-00	1 90.000	0.300 0.4	F/ I U.UOO	0.005	0.115	0.097	0.110	240.009





LIP LINE AA

## 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.

DWG PATH: V:\\_Vault\Projects\_Urban\1700E-Olivine\1700E-22\Dwgs\1700E-022-184.dwg PRINTED BY: LC20143 on 10/02/2023 at 05:14:15 PM



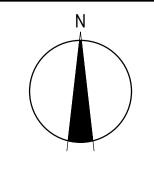
HORIZONTAL GEOMETRY		R=-13.15m HC	R=-13.45
VERTICAL GEOMETRY DATUM RL244	-0.5% -4.93%	-0.72% -5.33%	2.64%
DESIGN LEVEL	245.25	245.30 245.30 245.28 245.18	245.33 245.43 245.43
EXISTING SURFACE	245.58 245.62	245.74 245.74 245.77 245.77 245.79	245.93 246.06 246.00
NORTHING	5844353.66 5844353.66 5844353.75	5844352.99 5844352.97 5844352.97	5844358.07 5044358.07
EASTING	323047.59 323049.62	323057.33 323059.60 323061.61	323069.42
CHAINAGE	0.00 2.03	9.78 10.00 12.05 14.06	20.00 23.59

DD1)(DD2

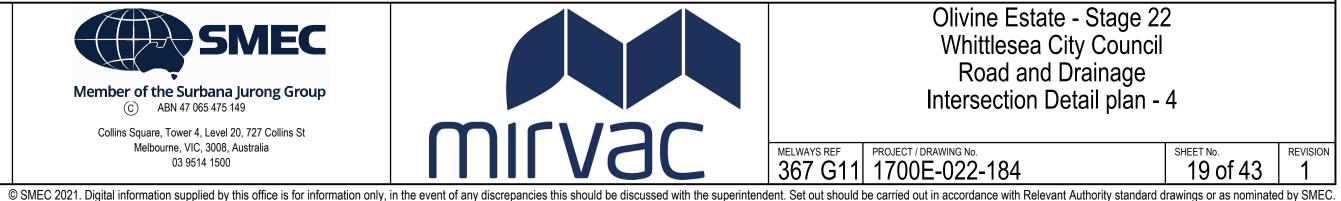
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LIP LINE DD

) 2 4 0 0.2 0.4 Scale H1:200, V1:20 0 2 4 Scale 1:200 SCALE AS SHOWN AT A1



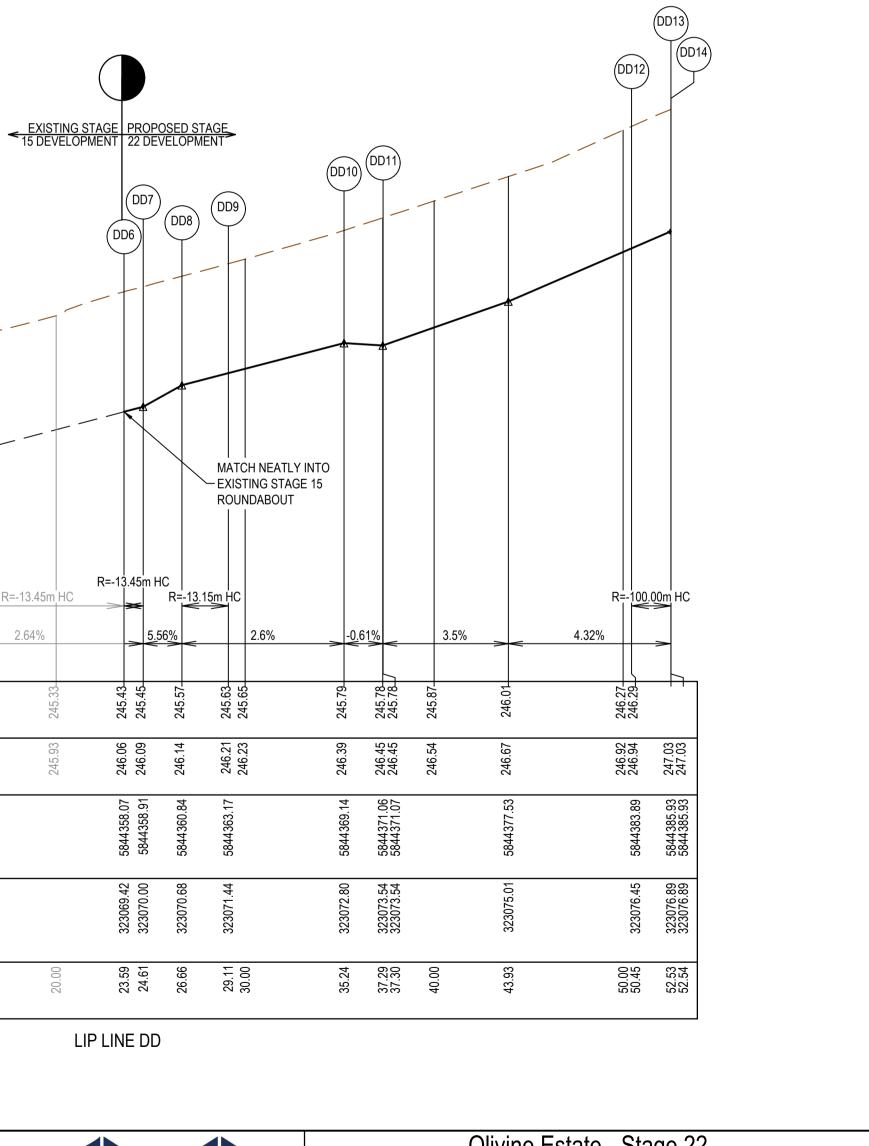
SMEC Member of the Surbana Jurong Group C ABN 47 065 475 149 Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC, 3008, Australia 03 9514 1500



## NOTES

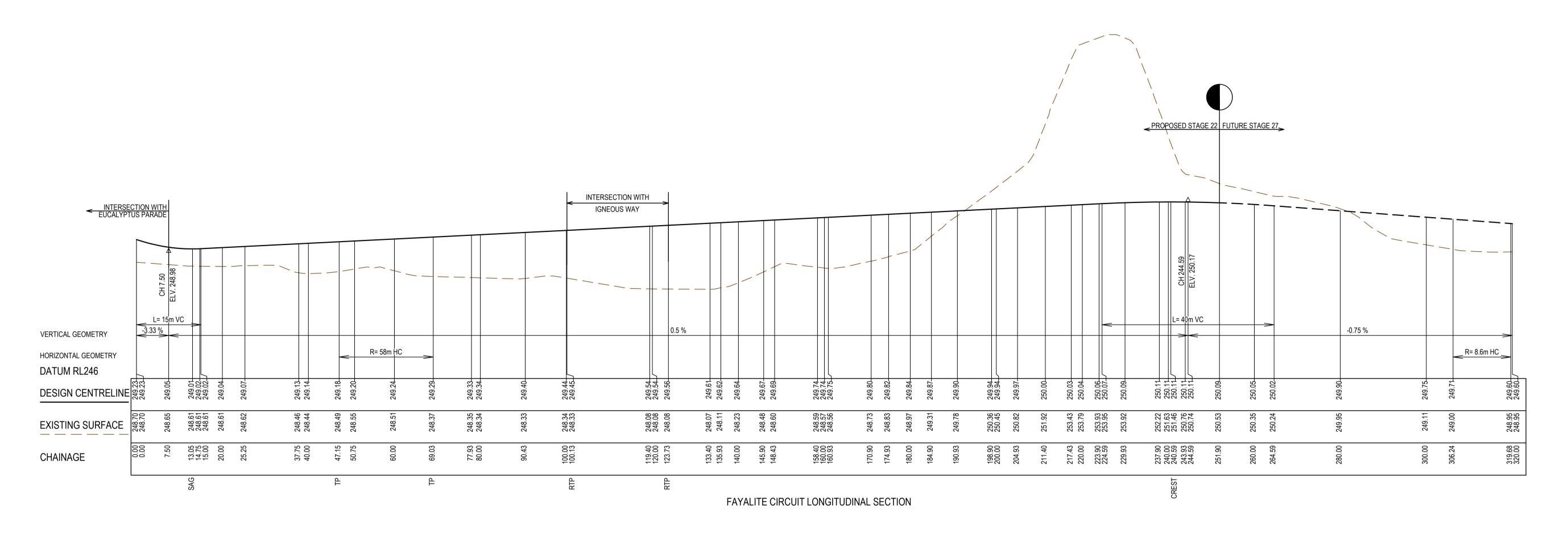
ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS. ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS. VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.

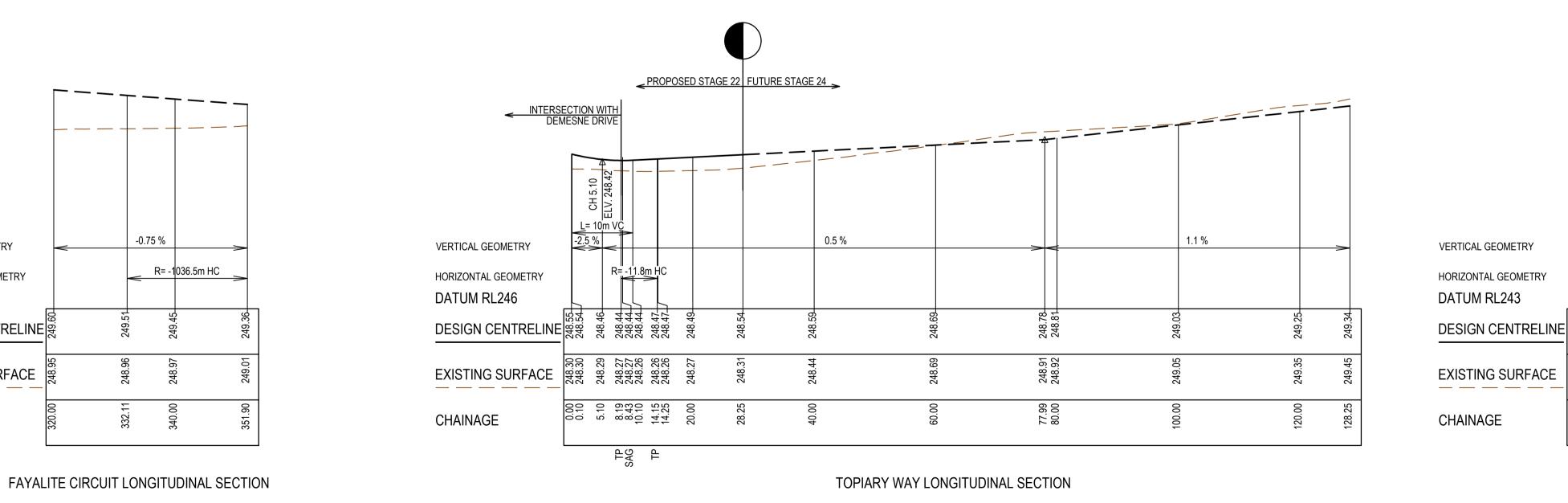
	ERSECTION DETAIL PLAN & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
•S	SEWER & MAINTENANCE STRUCTURES
— — — — — H	HOUSE DRAIN
GWR	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
⊖—£x s ——	EXISTING SEWER & MAINTENANCE STRUCTURES
GWR	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
-Fut D	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
⊖-fut s —	FUTURE SEWER & MAINTENANCE STRUCTURES
— — — — Н	FUTURE HOUSE DRAIN
GWR	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
<b>A</b>	PERMANENT SURVEY MARK
7	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH



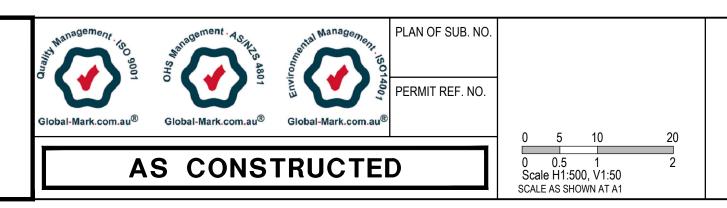
# Olivine Estate - Stage 22 Whittlesea City Council Road and Drainage Intersection Detail plan - 4

MELWAYS REF PROJECT / DRAWING No. 1700E-022-184 SHEET NO. 19 of 43 SHEET No.





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.



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VERTICAL GEOMETRY

DATUM RL246

CHAINAGE

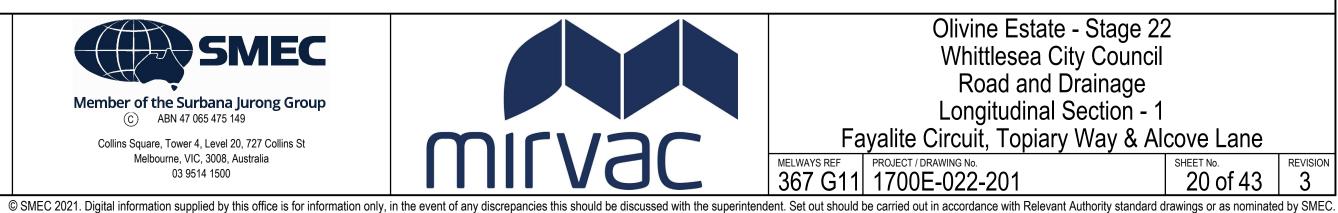
HORIZONTAL GEOMETRY

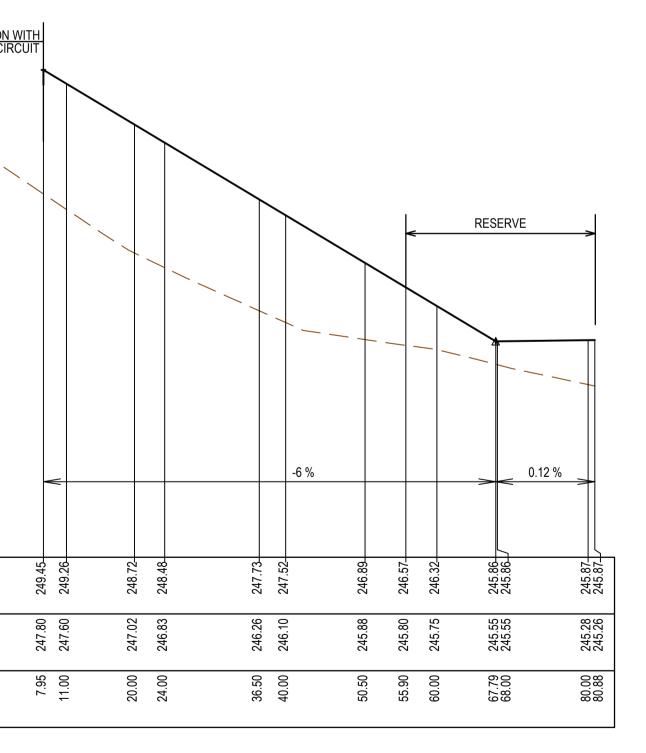
DESIGN CENTRELINE

EXISTING SURFACE

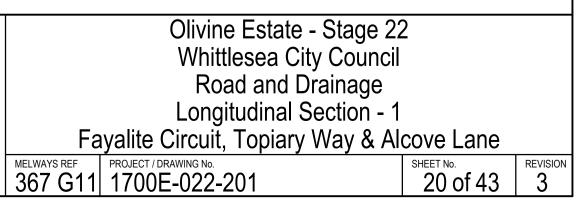
INTERSECTION WITH FAYALITE CIRCUIT

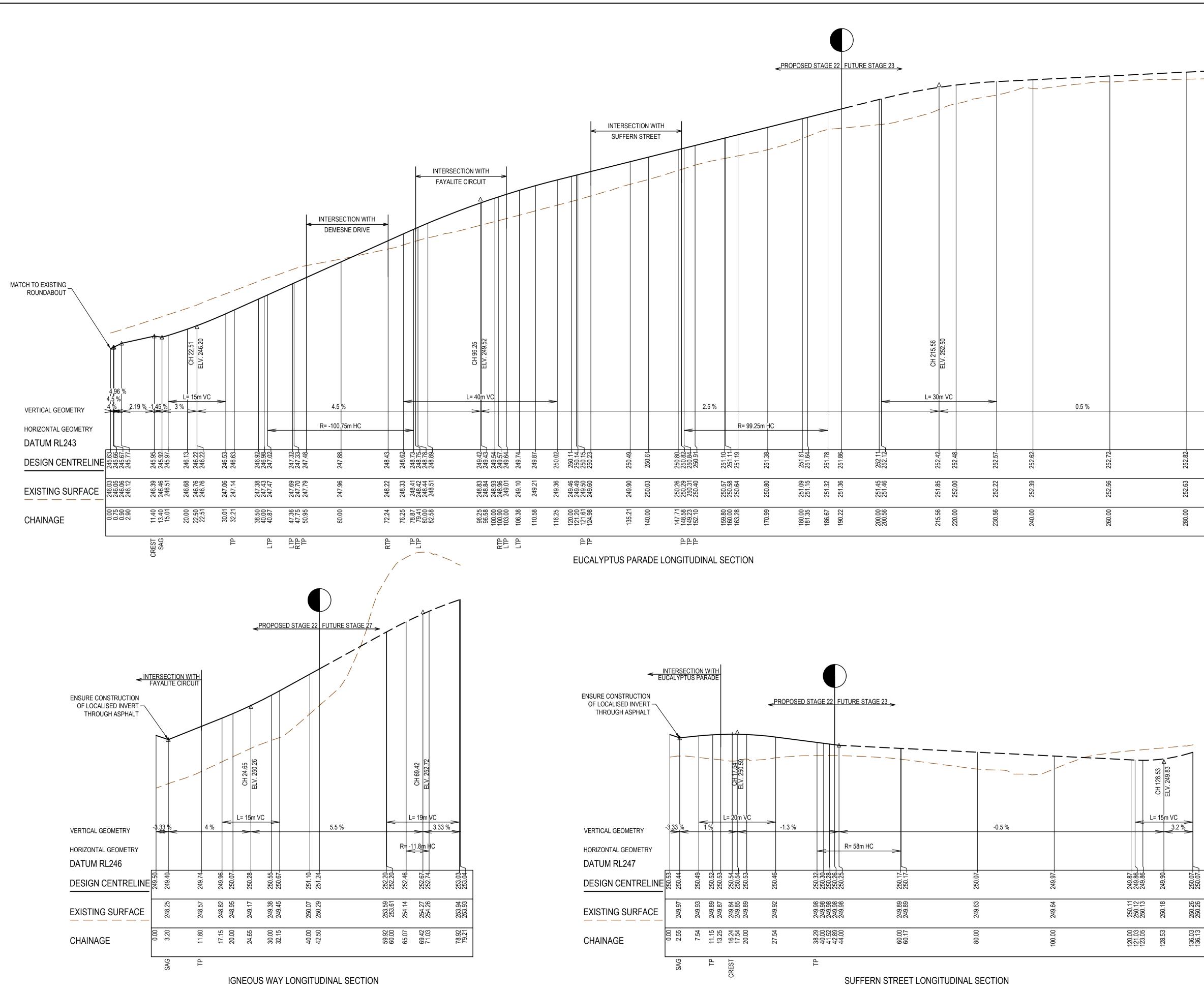






ALCOVE LANE LONGITUDINAL SECTION





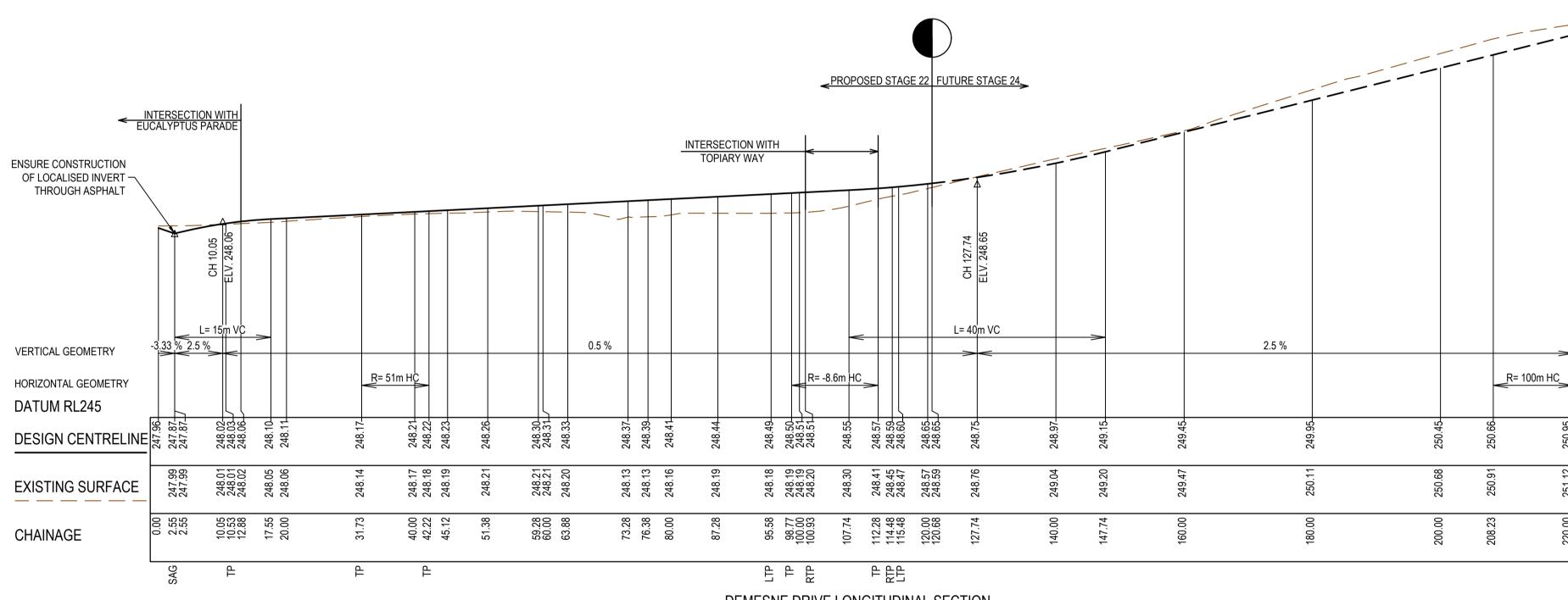
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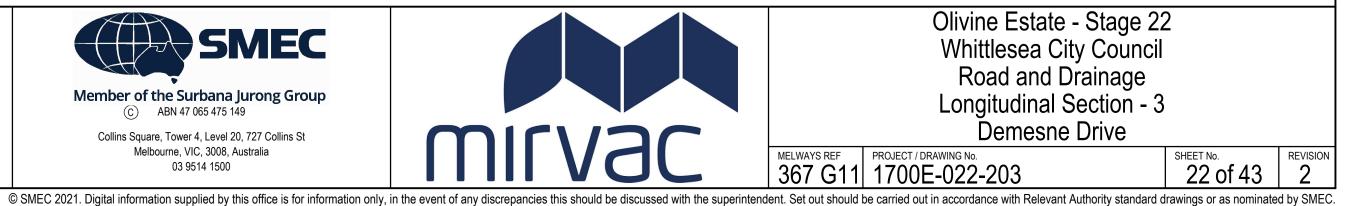
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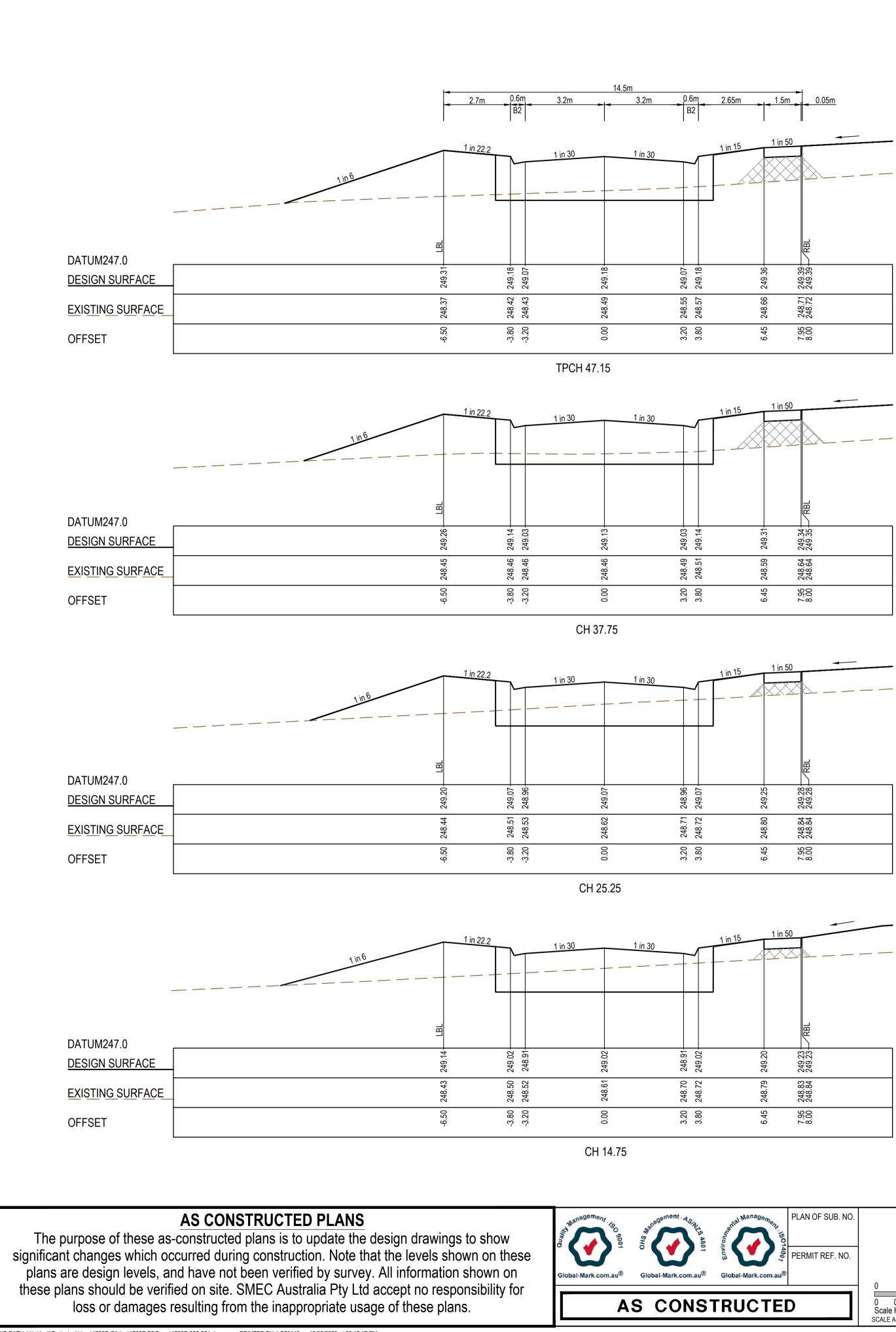
DEMESNE DRIVE LONGITUDINAL SECTION

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



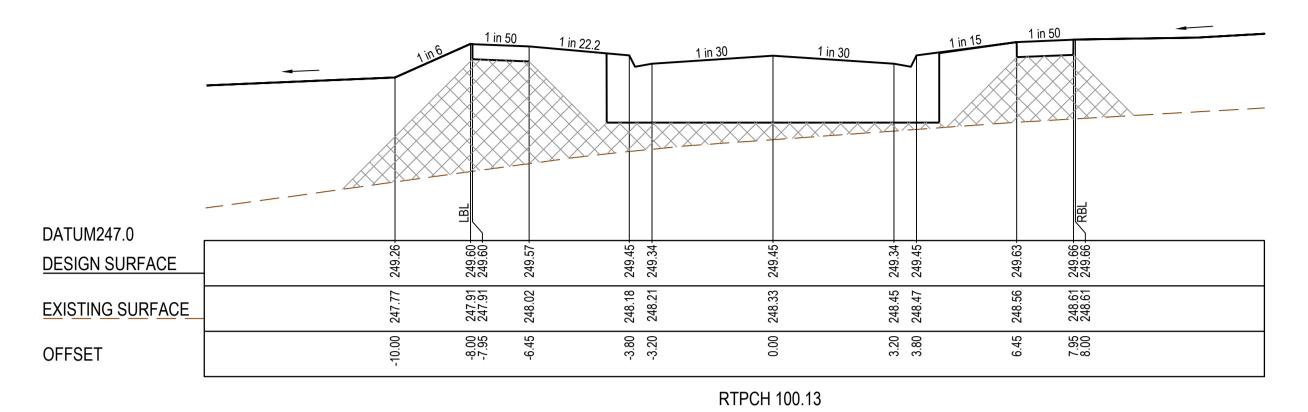


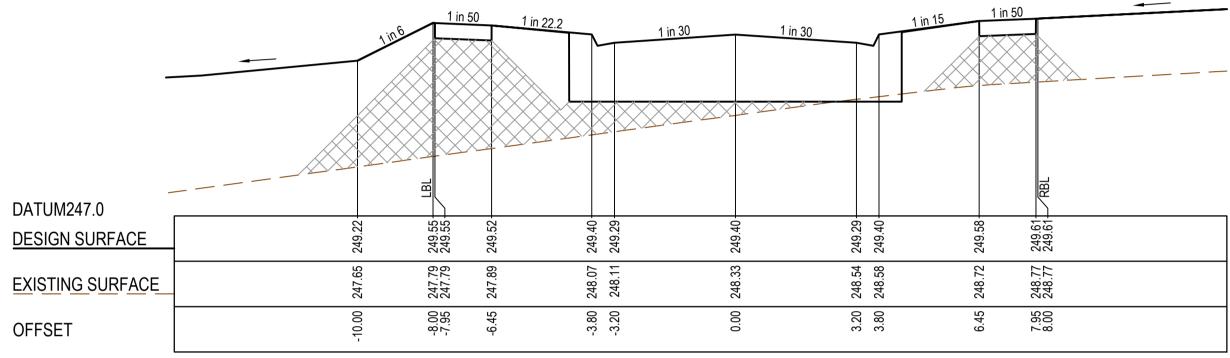




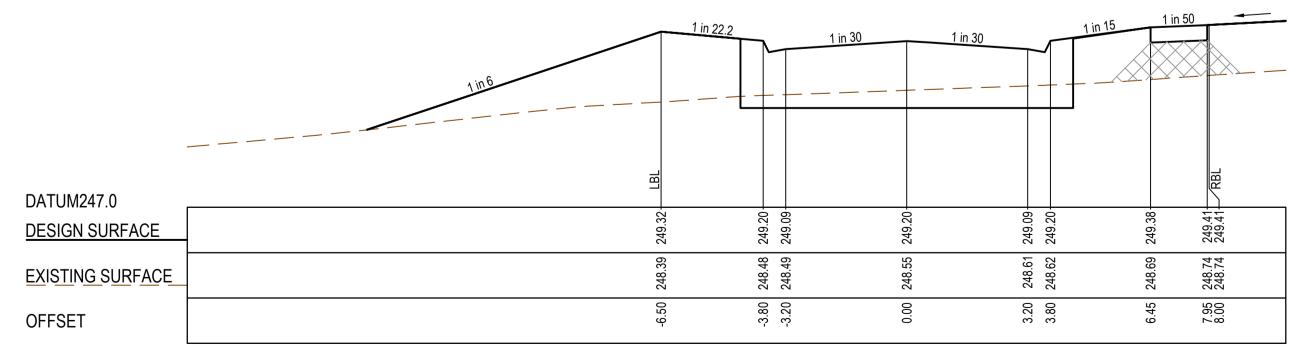
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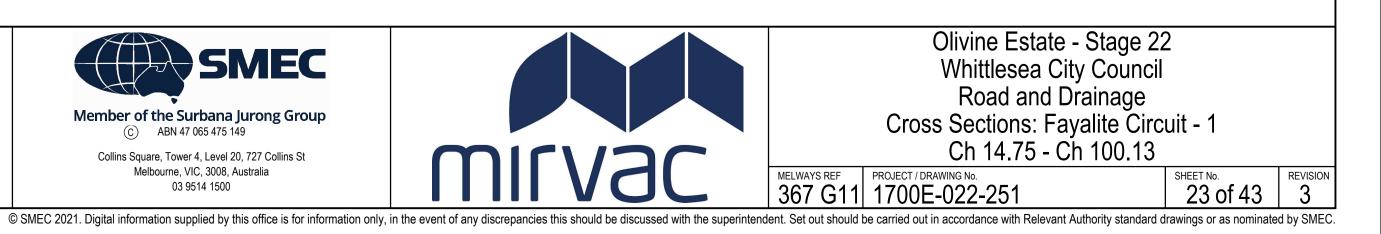
0 1 2 4 0 0.5 1 2 Scale H1:100, V1:50 SCALE AS SHOWN AT A1





	1 in 6		<u>1 in 22.2</u> 1 in 3
DATUM247.0		 FBL	
DESIGN SURFACE		249.41-	249.29 - 249.18 -
EXISTING SURFACE		247.94	248.12 248.16
OFFSET		-6.50	-3.80 -3.20

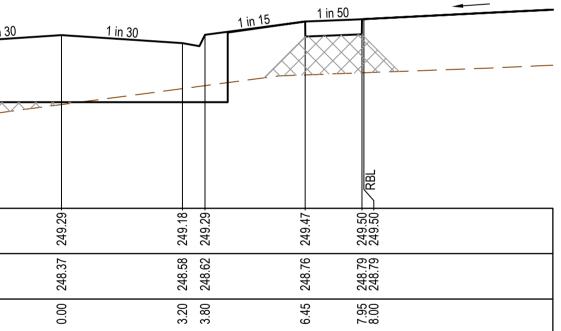






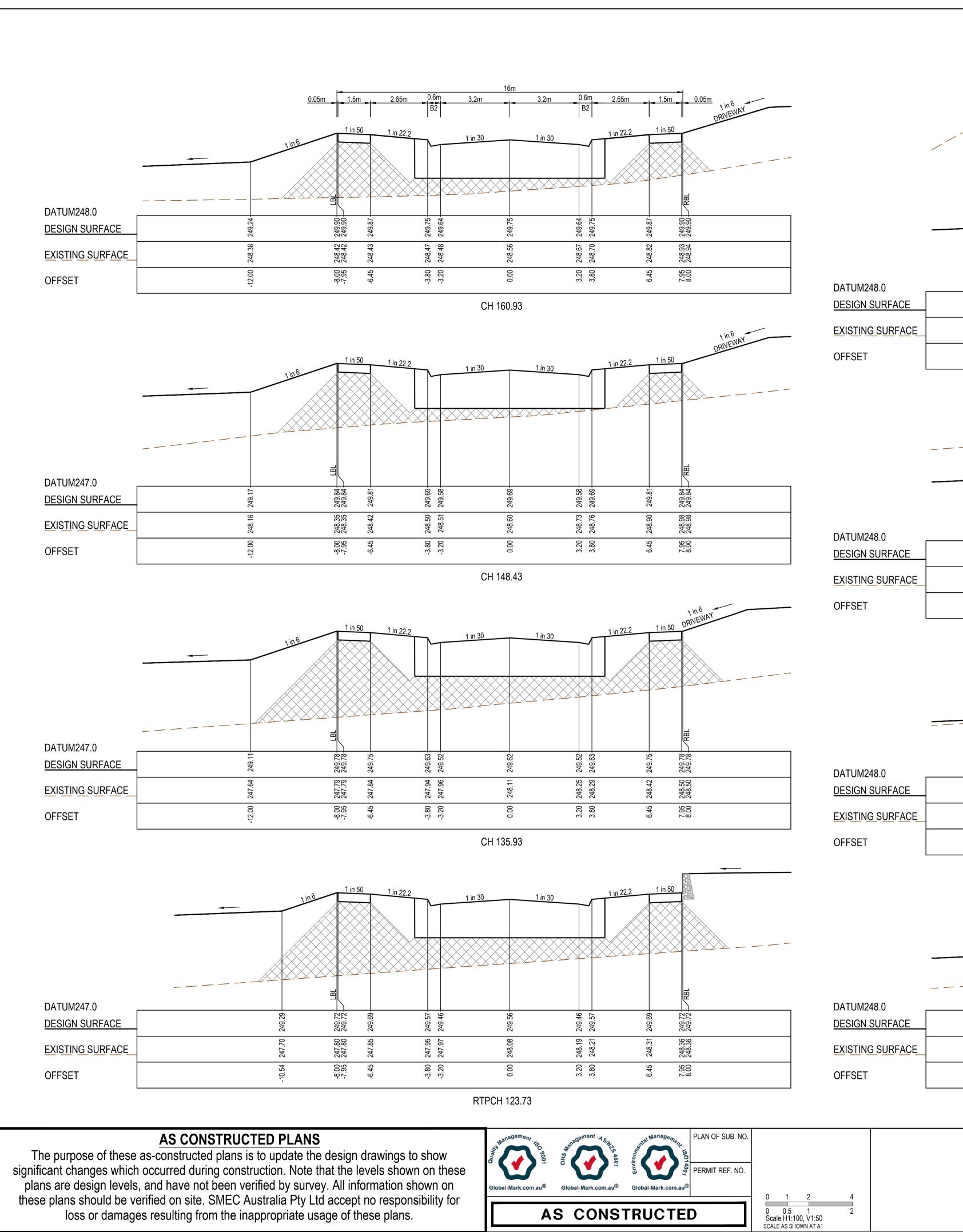
### STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

CH 90.43



CH 69.03

TPCH 50.75



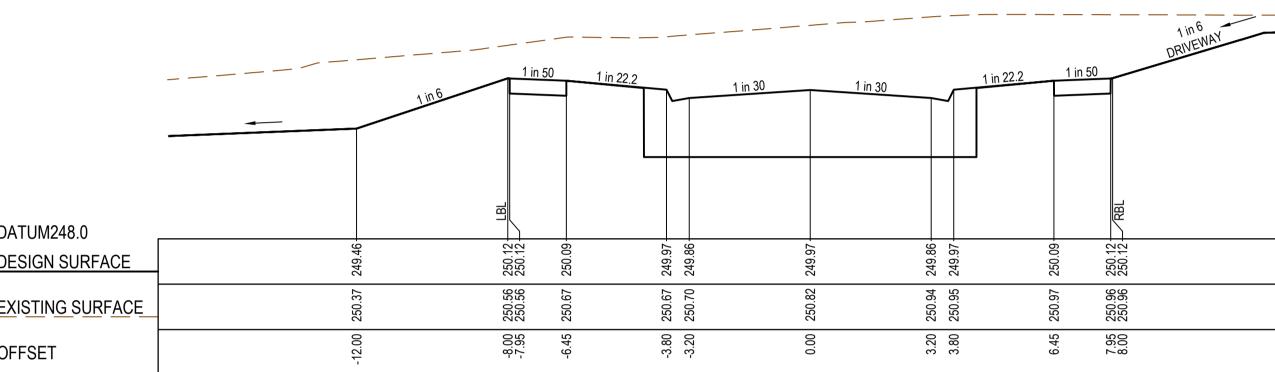
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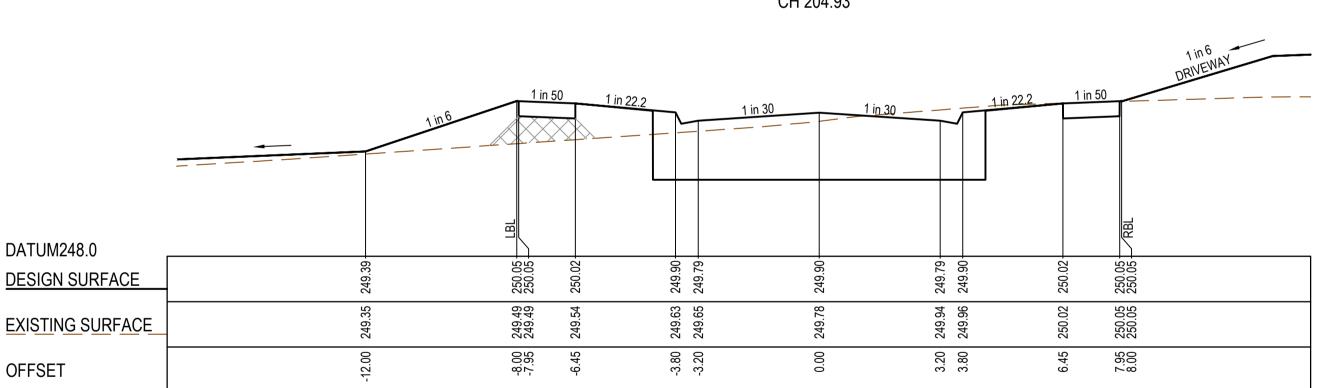
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1 in 22 2

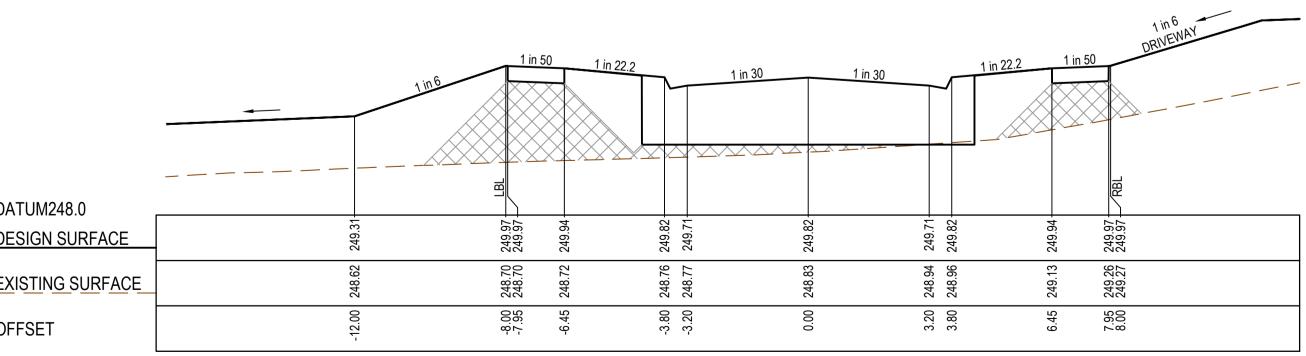
1 in 30



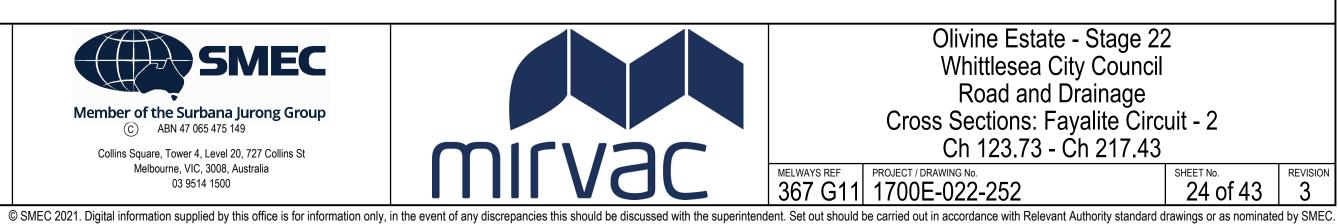
CH 204.93

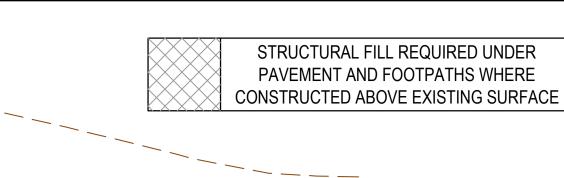


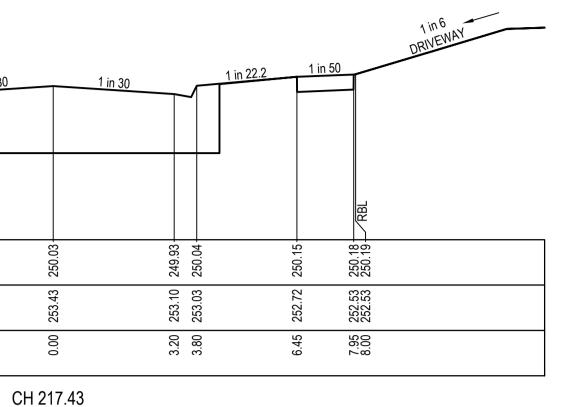
CH 190.93



CH 174.93





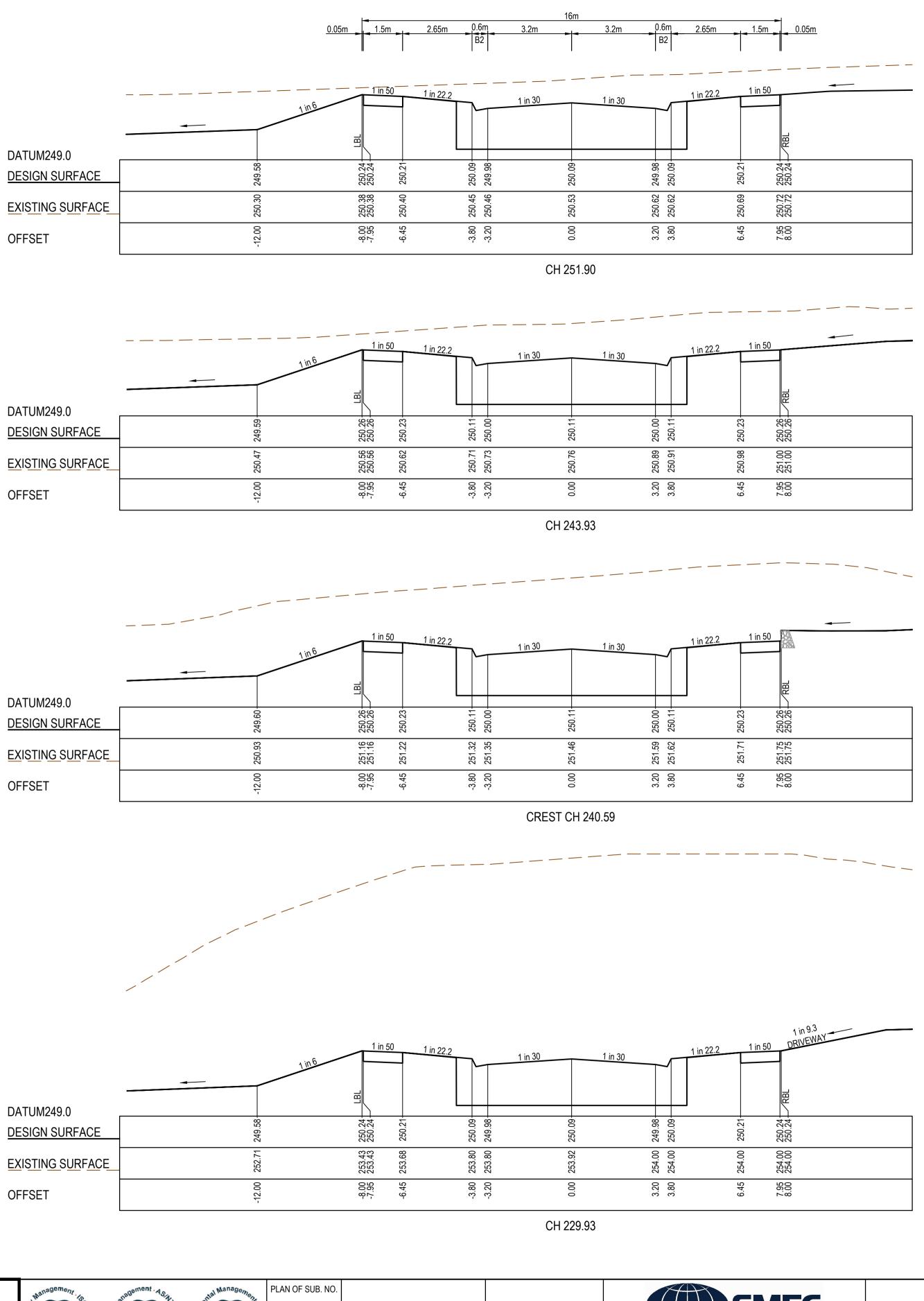




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DESIGN SURFACE	
EXISTING SURFACE	
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DATUM249.0	
DESIGN SURFACE	
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EXISTING SURFACE	
OFFSET	

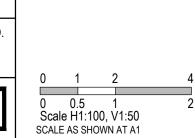




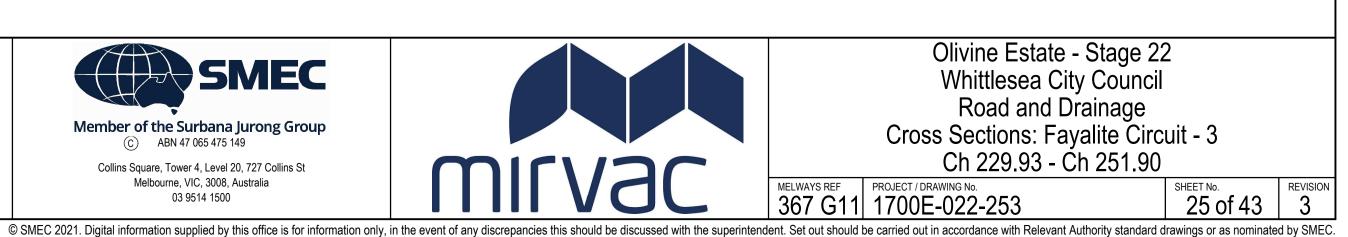
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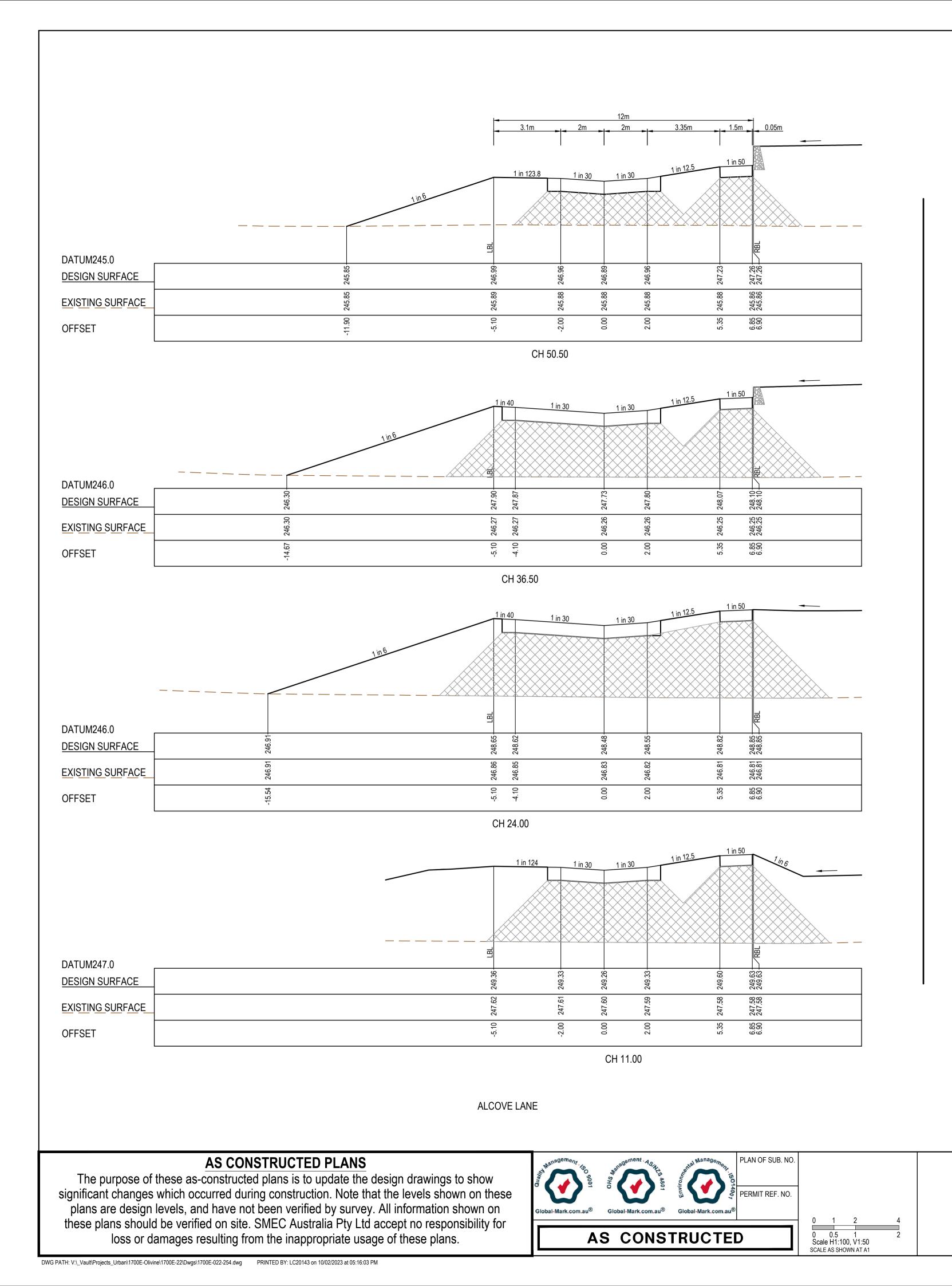


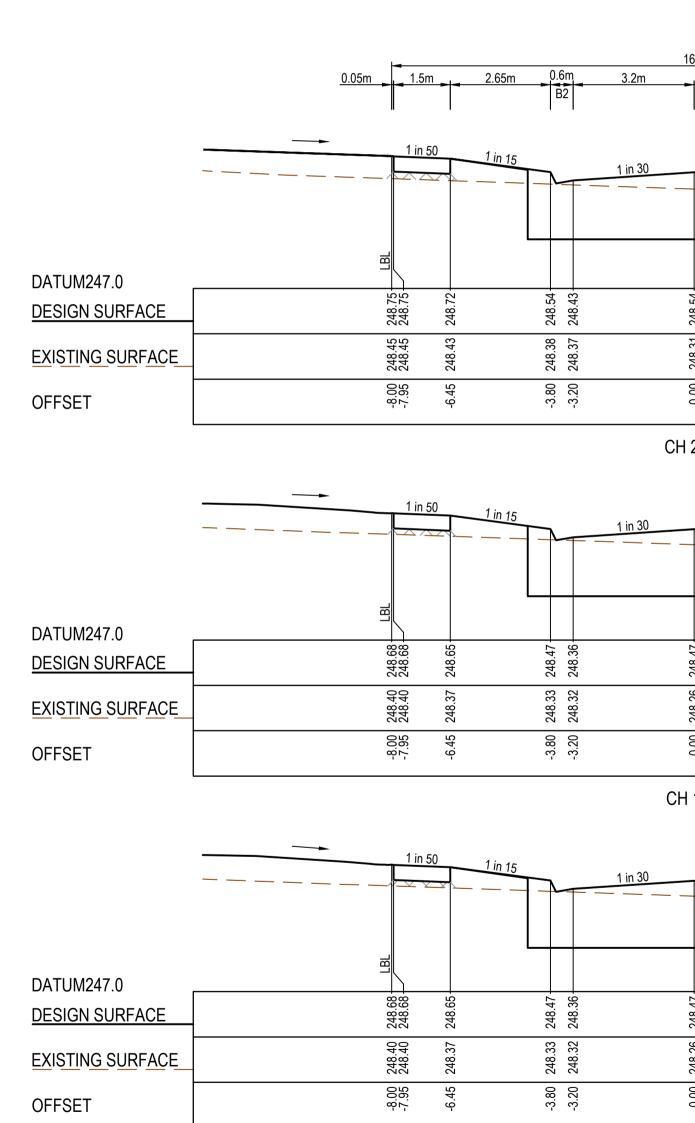






## STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE





TPCH

TOPIA







## STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

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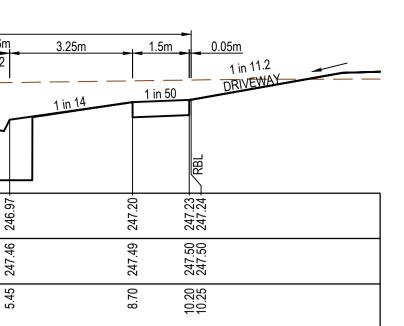
MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-022-254

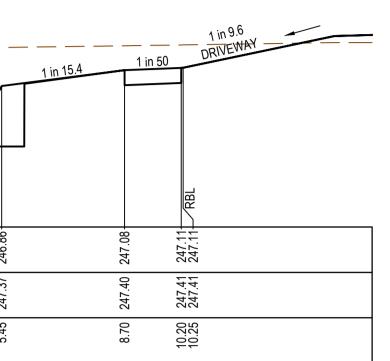
SHEET NO. REVISION 26 of 43 2

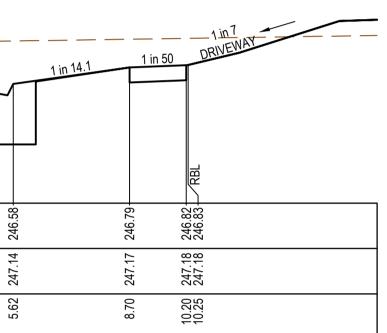
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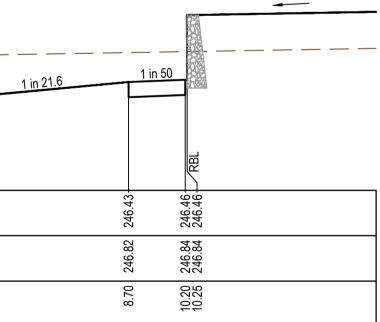
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purpose of these as-constructed plans is to update the design drawings to show nt changes which occurred during construction. Note that the levels shown on these		<u>``</u>			CH 0.00		
nt changes which occurred during construction. Note that the levels shown on these				n drouvinge to sha	ist Management	Nonogement. Julki sental Ma	PLAN OF SU
	nt changes which occurred dur	ring construction. N	ote that the	e levels shown on	these	4801 HO	PERMIT REF

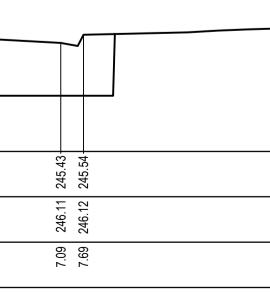
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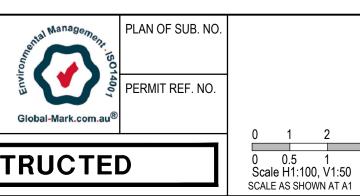


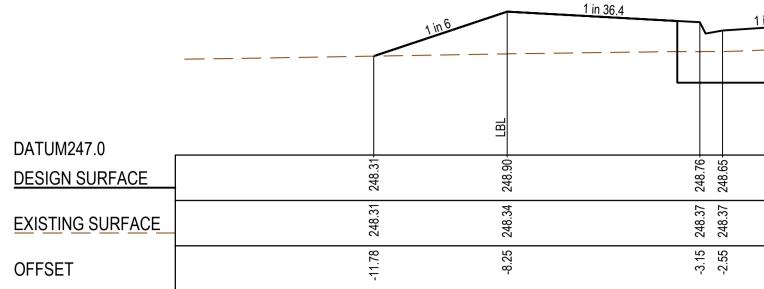












		1 in 6	1 in 31.3	<u>1 in 30</u>	<u> </u>		<u>1 in 30.6</u>	1 in 50	
DATUM247.0 DESIGN SURFACE	18 17	- 4	18 AC			248.35		248.64	248.65 248.65 - RBL
EXISTING SURFACE	248.17	248.19			248.22	248.22 248.22		248.22	248.23
OFFSET	01004	Š (	ç	-2.55	0.00	2.55 3.15		8.70	10.25

	 <u>1 in 6</u> <u>1 in 36.8</u>		1 in 30	1 in 30			<u>1 in 20.5</u>	1 in 5	
DATUM246.0	 ГВ								
DESIGN SURFACE	247.64	~	247.39	247.48	247.39-	247.50		247.77	247.80- 247.80-
EXISTING SURFACE	247.73 247.74	~	247.78	247.79	247.79	247.79		247.80	247.80 247.80
OFFSET	-8.79 -8.25		-2.55	0.00	2.55	3.15		8.70	10.25

		<u>1 in 6</u>	<u>1 in 15</u>		1 in 30 1 in 30		1 in 9.7
DATUM246.0		L BI					
DESIGN SURFACE		<u>.</u>	247.28	247.17-	247.33-	247.17-	247.28 - 247.61 - 247.65 - 247.65 -
EXISTING SURFACE	-	÷ ;		247.68	247.70	▶.	247.72 247.73 247.73 247.73
OFFSET		-9.29	-6.23	-4.74	0.00		5.45 8.70 10.25

		1-in 6 18	<u>1 in 14.3</u>		1 in 30 1 in 30		1 in 9.9	<u>-1 in 5</u>	
DATUM246.0 DESIGN SURFACE	5	247.46	247.26	247.15	•	CI.142	241.20		247.62 247.62
EXISTING SURFACE	19 270	247.65	247.67	247.67		241.10		241.17	247.71 247.71
OFFSET	ц С С	-9.33	-5.45	-4.85	0.00	1.00 1.4 1.00	0 0 0 0	8./U	10.25



;E	247	247.	247.	247. 247.	247	247 247		
	-9.35	-5.45 -4.85	00. 0	4.85 5.45	8.70	10.25 10.25		
			LTPCH 47.36					
	Collins Square, Tower 4, Level 20, 727 Collins St				Whittles Road Cross Sections	Estate - Stage sea City Coun and Drainage : Eucalyptus I .00 - Ch 78.87	ncil e Parade - 1	
	Melbourne, VIC, 3008, Australia 03 9514 1500		VDL	MELWAYS REF	PROJECT / DRAWING No. 1700E-022-25	5	SHEET No. 27 of 43	REVISION 1
	${f {f {f {f {f {f {f {f {f {f $	, in the event of any discrepanci	es this should be discussed with the superintende	ent. Set out should b	be carried out in accordance w	ith Relevant Authority stand	ard drawings or as nominate	d by SMEC.

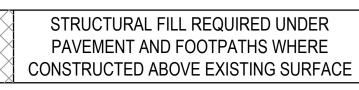
RTPCH 47.75

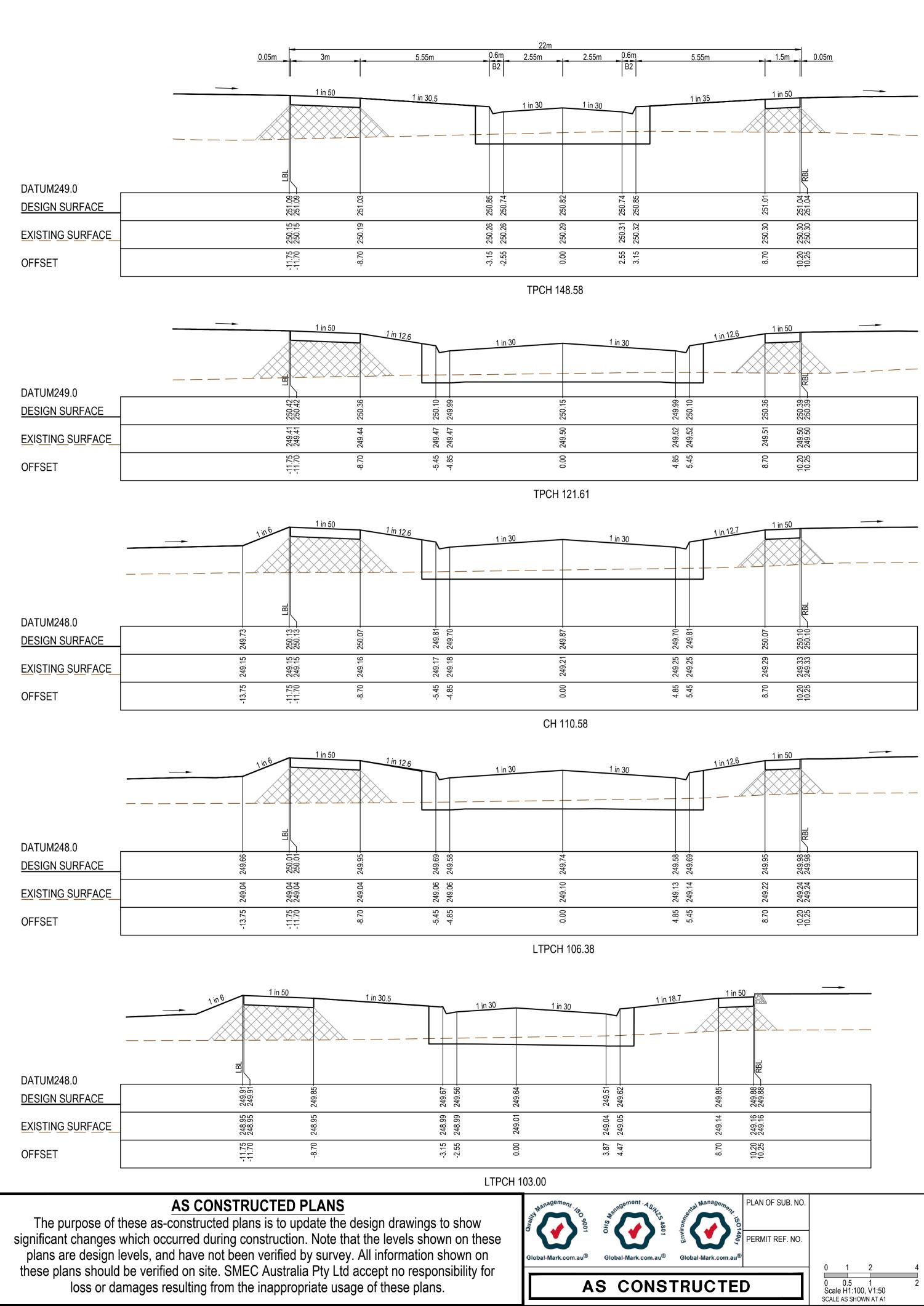
TPCH 50.95

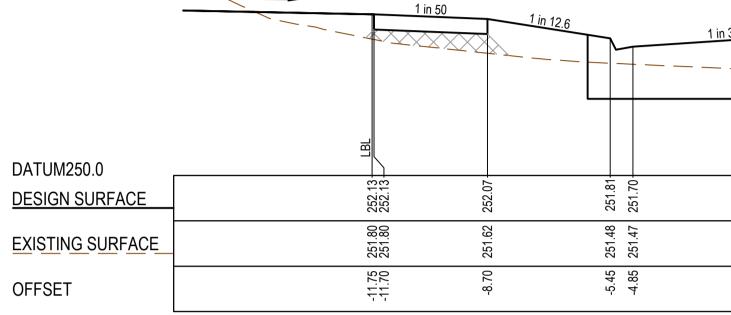
RTPCH 72.24

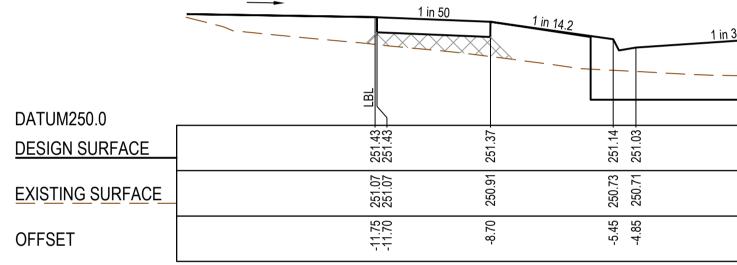
			RBL	
248.73-	248.65 - 248.76 -	248.94 -	248.97 - 248.97 -	
248.41	248.41 248.41	248.43	248.43 248.43	
0.00	2.55 3.15	8.70	10.20 10.25	
TPCH 78.87				

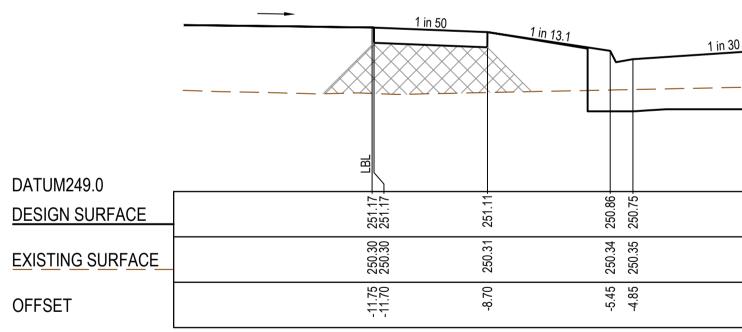
1 in 50 1 in 30.6 1 in 30 1 in 30 \_\_\_\_ \_\_\_\_

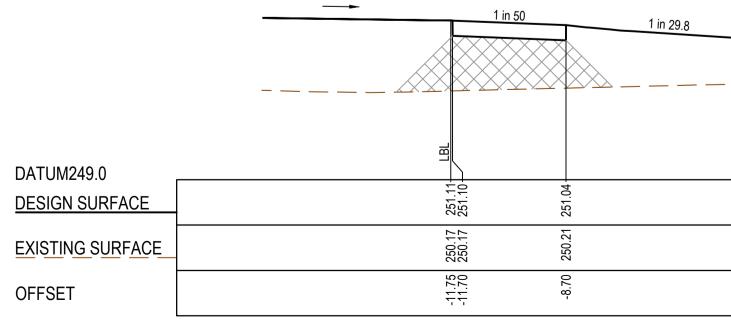


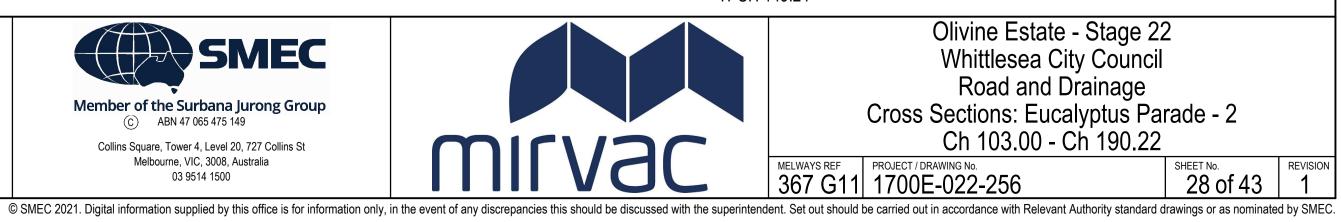












1 1			-			
TPCH 1	149.24					
		Whit Ro Cross Sectio	ne Estate - Sta atlesea City Co ad and Draina ons: Eucalyptu 103.00 - Ch 19	ouncil age is Pai		
	MELWAYS REF	PROJECT / DRAWING No. 1700E-022	-256		SHEET No. 28 of 43	REVISION

	1 in 30 1 in 30		1 in 33.4 1 in 50	
			RBL	
250.86- 250.75-	250.84	250.75	251.02 - 251.05 - 251.05 -	
250.27 250.28	250.31	250.33 250.34	250.32 250.31 250.31	
-3.26	00.0	2.67 3.27	8.70 10.25 10.25	

## TPCH 152.10

in 30	1 in 30		1 in 14.2		
					La
250.91-	<u>ЭБЛ 76.</u>	250.86	251 00 -	201.03 051.19_	251.12-
250.40	260 30 260 30	250.39	750 38	200.00	250.37
0.00	1 85	5.45	0 2 Z		10.25

## CH 163.28

	1 in 50
in 30 1 in 30	1 in 15.3 1 in 50
251.19-	251.03 - 251.14 - 251.35 - 251.38 - 251.38 - 251.38 -
250.64	250.61 250.59 250.58 250.58
0.00	4.85 5.45 8.70 8.70 10.25

## CH 190.22

in 30	1 in 30		$\int$	1 in 14.6	1 in 50	
				_		LIN
00 01 01 01 01 01 01 01 01 01 01 01 01 0	00'	251.70-	251.81	252.04	252.07	252.07.
061 96	PC-1 C7	251.25	251.24	251.17	251 14	251.14
	2	4.85	5.45	8.70	10 20	10.25

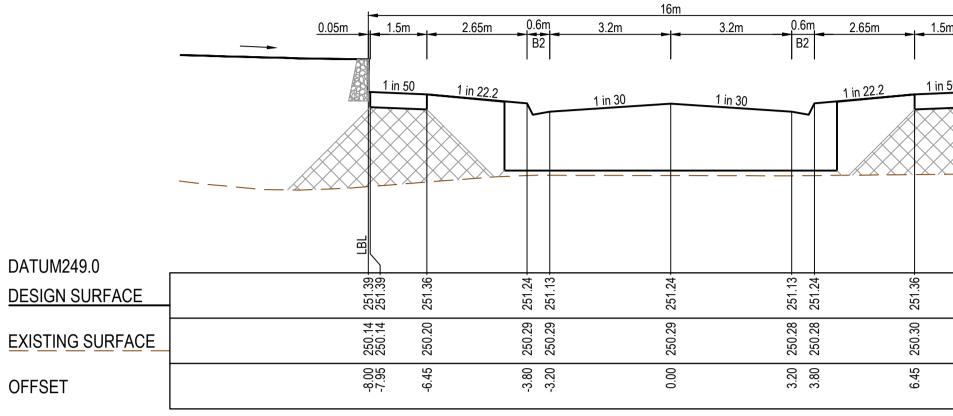
### STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

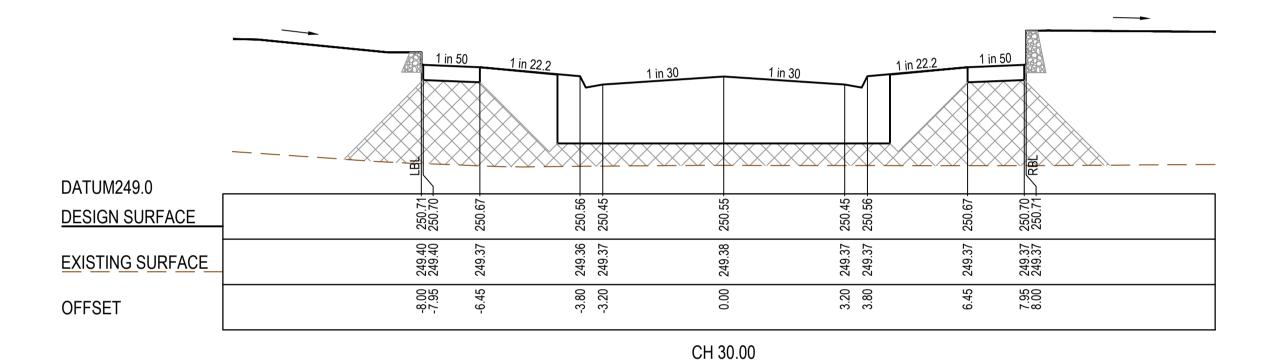
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1 in 50

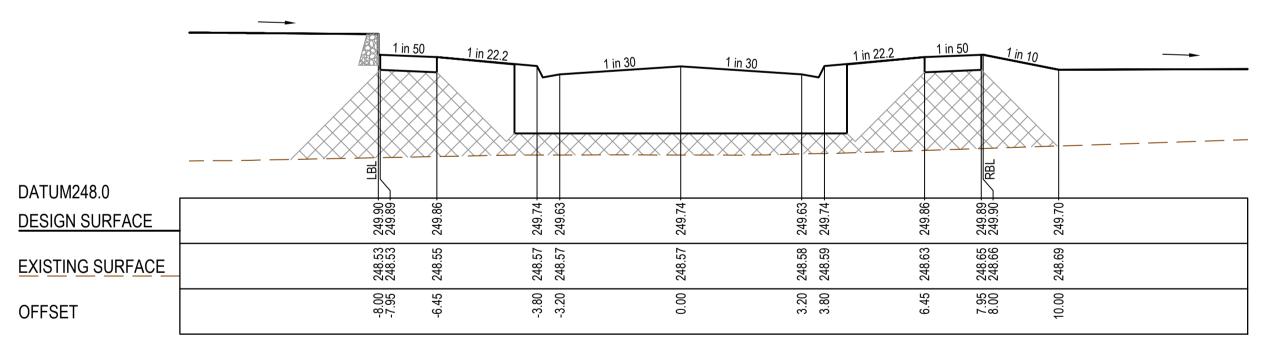


STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE





CH 42.50



TPCH 11.80

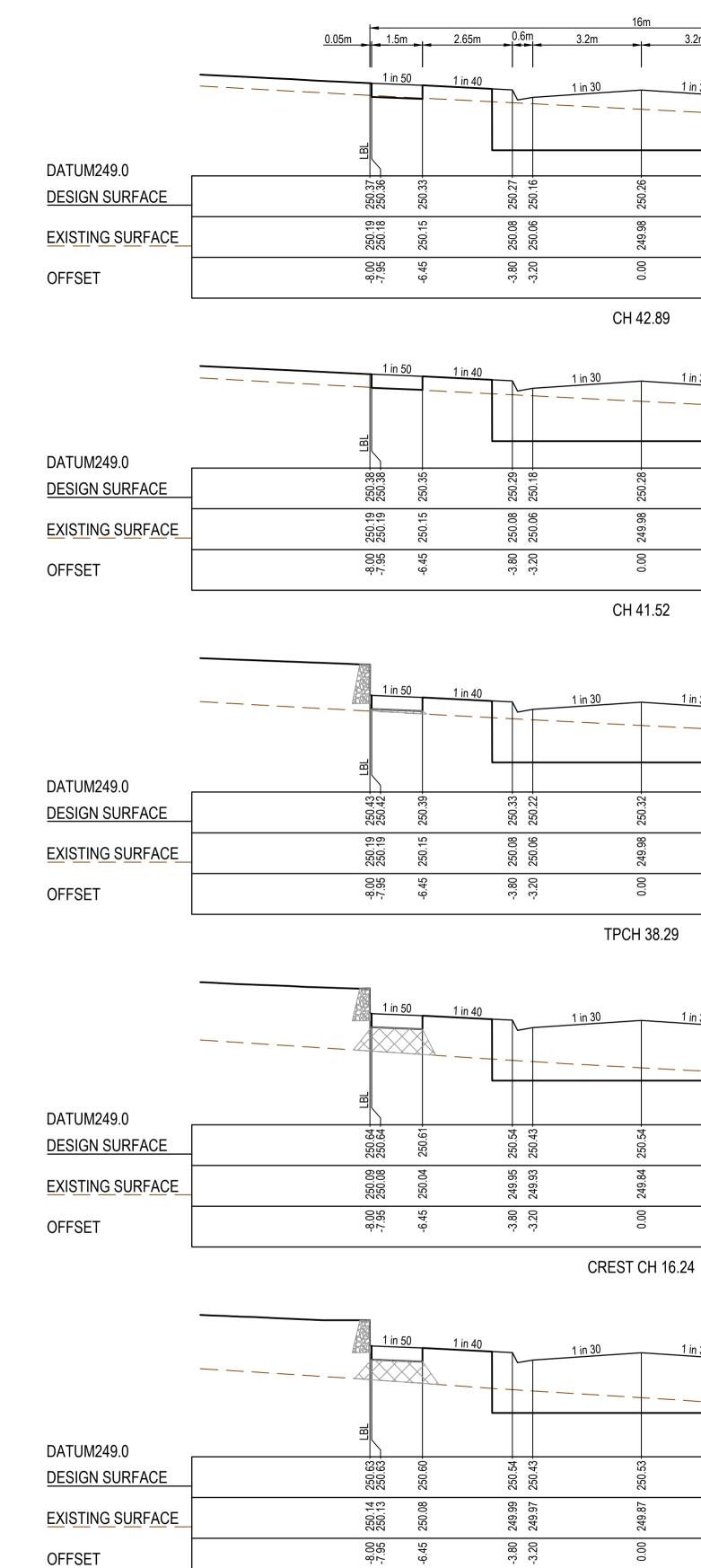
IGNEOUS WAY

# 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.



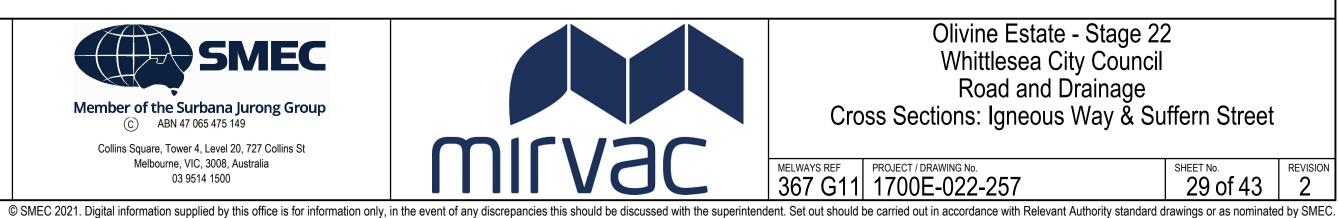
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251.39 251.39 250.31 250.31 7.95 8.00

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





im3.2m	0.6m	2.65m	1.5m	<u>0.05m</u>
1 in 30		1 in 40	1 in 50	
				)
02.002	250.16 - 250.27 -		250.33 - 250.36 -	250.37
06.647	249.90 249.88		249.81 249.77	249.77
2 2 2	3.20 3.80		6.45 7.95	0 0 8

1	in 30			1 in 40		1 ir		 	 
07.007		250.18-	250.29-		7ED 2E.	00.002	250.38- 250.38-		
249.30		249.90	249.88		19 010	243.01	249.77 249.77		
00.0		3.20	3.80		E AE	0.4.0	7.95 8.00		

1 in 30		1 in 40	1 in 50		
×0.00×	250.22- 250.33-	2E0 20	250.42	250.43	
0 0 0 1 1	249.90 249.88	10 01 0	249.77	249.77	
	3.20 3.80	0 12	0.40 7.95	8.00	

1 in 30	1 in 40 1 in 50	
250.54 - 250.43 - 250.54 -	250.61- 250.64 - 250.64 -	
249.76 249.76 249.75	249.72 249.70 249.70	
0.00 3.20 3.80	6.45 8.00 8.00	

1 in 30		1 in 40	1 in 50		
2	43 54		000	33 RBL	
- cc.ucz	250.43 250.54		250.60	250.63 - 250.63 -	
249.07	249.76 249.74		249.69	249.65 249.65	
0	3.20 3.80		6.45	7.95 8.00	

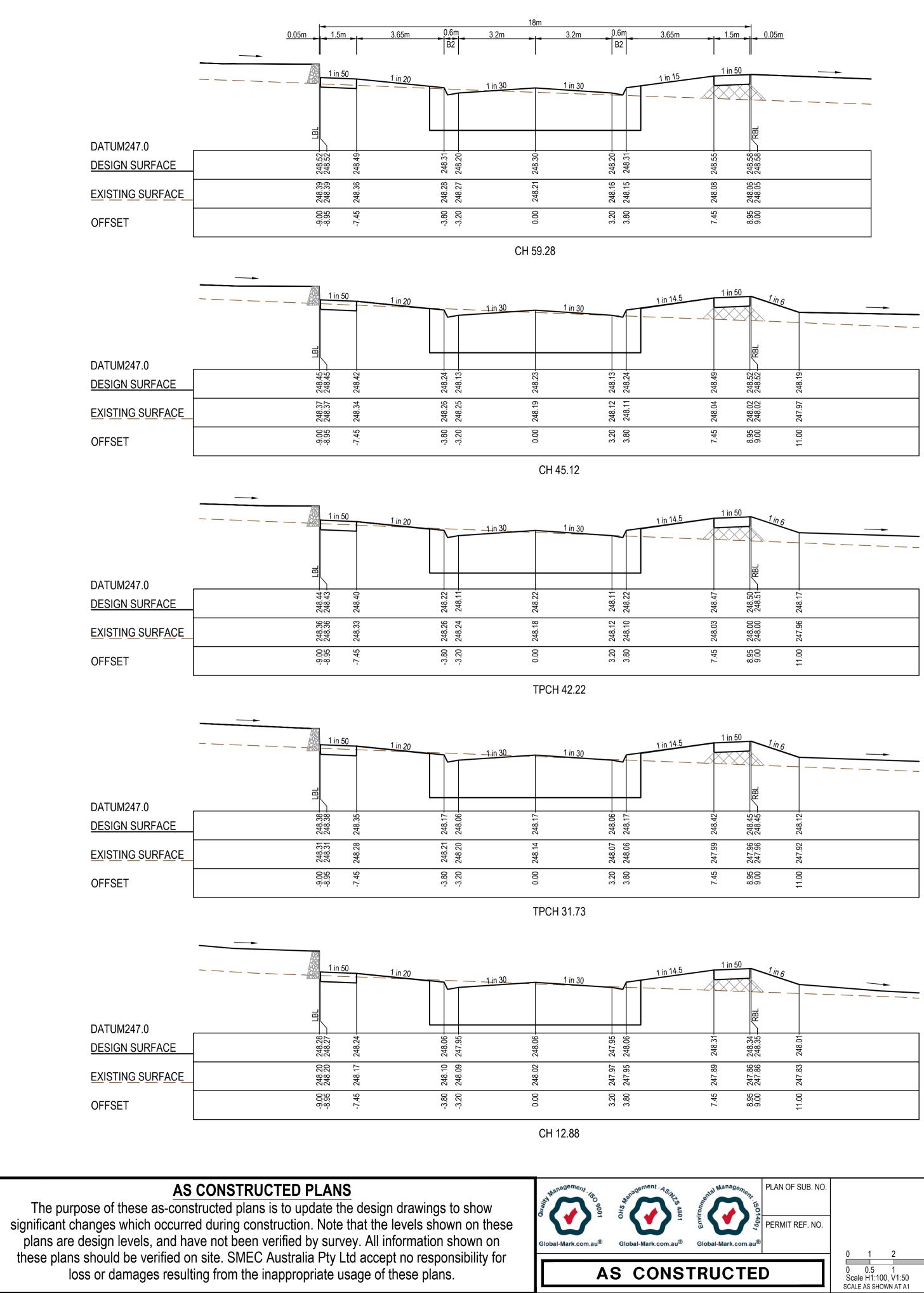
MELWAYS REF PROJECT / DRAWING No. 367 G11 1700E-022-257

CH 13.25

# Olivine Estate - Stage 22 Whittlesea City Council Road and Drainage Cross Sections: Igneous Way & Suffern Street

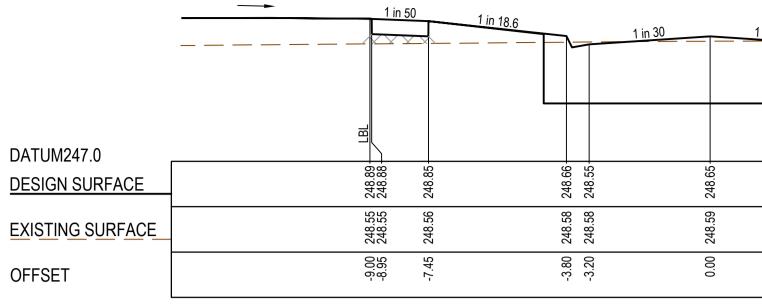
SHEET No. REVISION 29 of 43 2

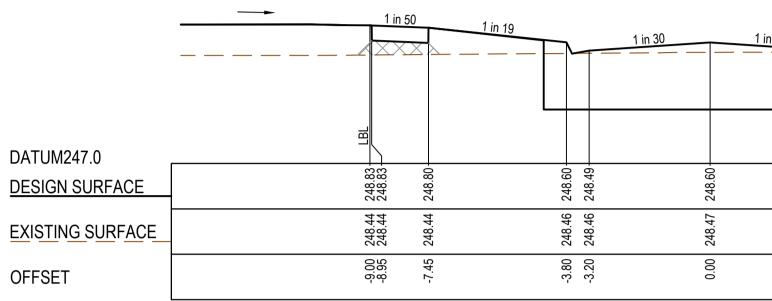
SHEET No.

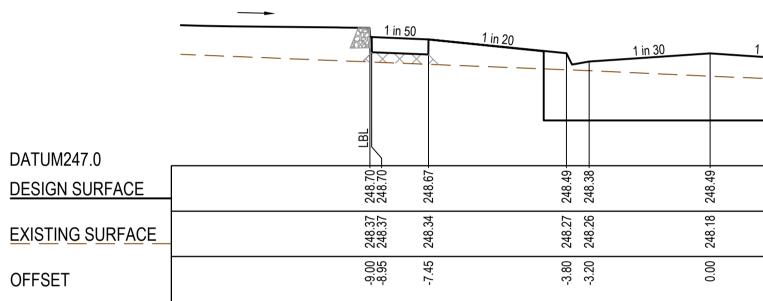


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	1 in 50	1 in 6		
	248.42	248.45 - 248.45 -	248.12-	
	247.99	247.96 247.96	247.92	
L T	7.45	8.95 9.00	11.00	







LTPCH 95.58

CH 120.68

LTPCH 115.48

	 <u>1 in 50</u>	1 in 20			1 in 30	1 in 30			1 in 15 1 in 50
DATUM247.0 DESIGN SURFACE	248.66 LBL 248.66	248.63	248.45	248.34	248 44		248.34	248.45	248.69 248.72 248.72 248.72
EXISTING SURFACE	248.38 248.37	248.34	248.27	248.26	01 8 10	2	248.11	248.10	248.02 247.98 247.98
OFFSET	-9.00 -8.95	-7.45	-3.80	-3.20			3.20	3.80	7.45 9.00

DATUM247.0 248.59-248.59-.38 DESIGN SURFACE 248. 248. 248.26 248.25 248.35 248.35 EXISTING SURFACE 48 -9.00 -3.80 -3.20 45 OFFSET 

CH 73.28

CH 87.28



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### STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

	1 in 10	1 in 50	
<u>L in 30</u>	<u>1 in 19</u>		
			L L L L L L L L L L L L L L L L L L L
248.55 -	248.66	248.85	248.88 248.88 248.99 248.99 249 249 249 249 249 249 249 249 249 2
248.59	248.59	248.60	248.60 248.60
3.20	3.80	7.45	00. 200. 200.

<u>1 in 19</u>	1 in 50	
248.49 - 248.60 -	248.80 - 248.83 - 248.83 - 248.83 -	
248.47 248.48	248.48 248.48 248.48	
3.20	7.45 8.95 9.00	

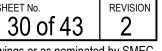
	1 in 15	1 in 50		
248.38	240.49	248.76	248.76 <del> </del>	
248.12	248.11	248.01	248.00	
3.20	3.80 7 A5	8.95	0.00	

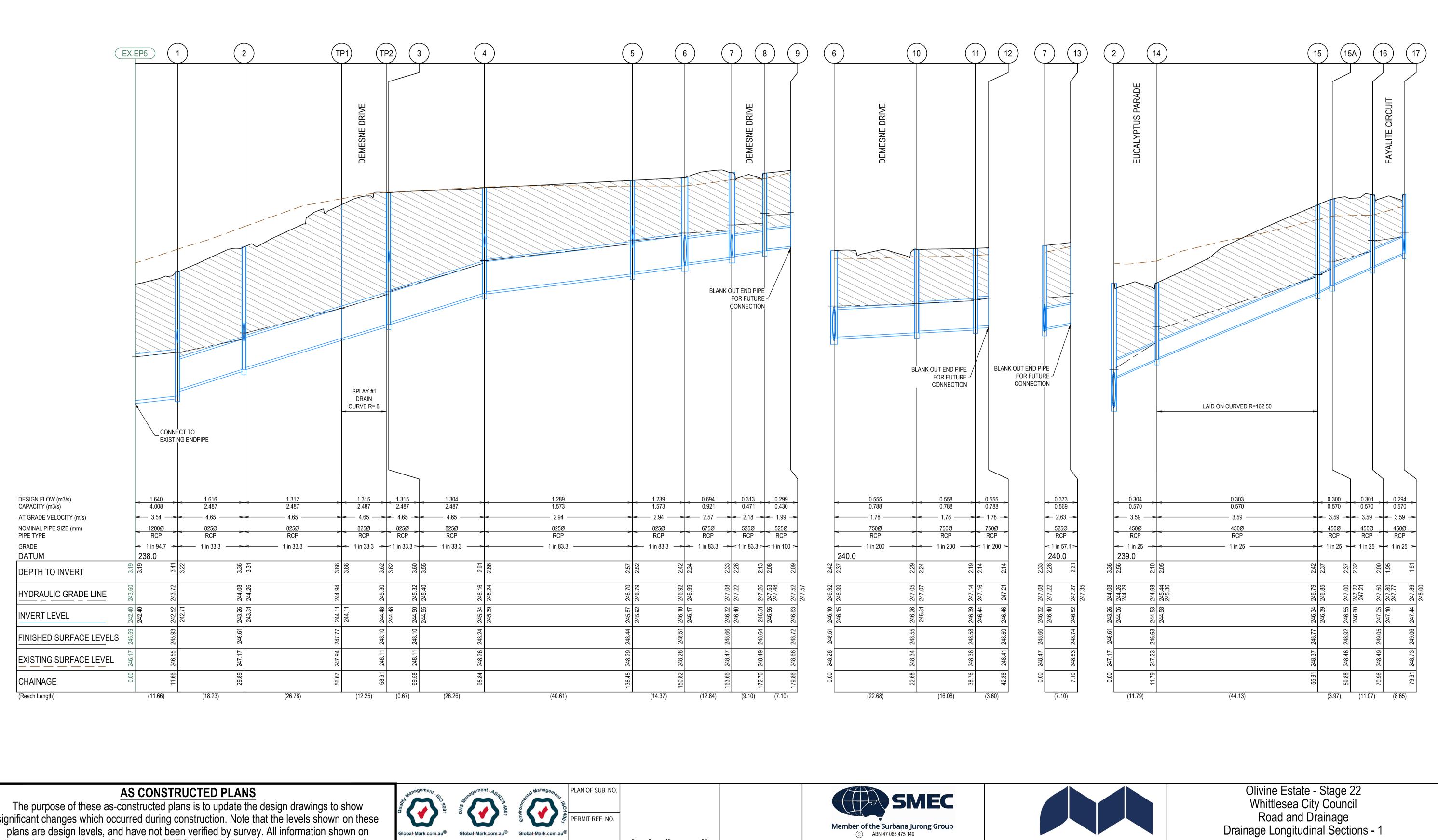
1 in 30	<u>1 in 15</u>	1 in 50	
248.27 -	с.	248.65 -	
248.38 -	278 6.7	248.65 -	
248.05	010	248.00	
248.04	010	248.00	
3.20 3.80	7 15	8.95 9.00	



# Olivine Estate - Stage 22 Whittlesea City Council Road and Drainage Cross Sections: Demesne Drive

		DIIIO
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.
367 G11	1700E-022-258	30



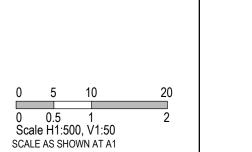


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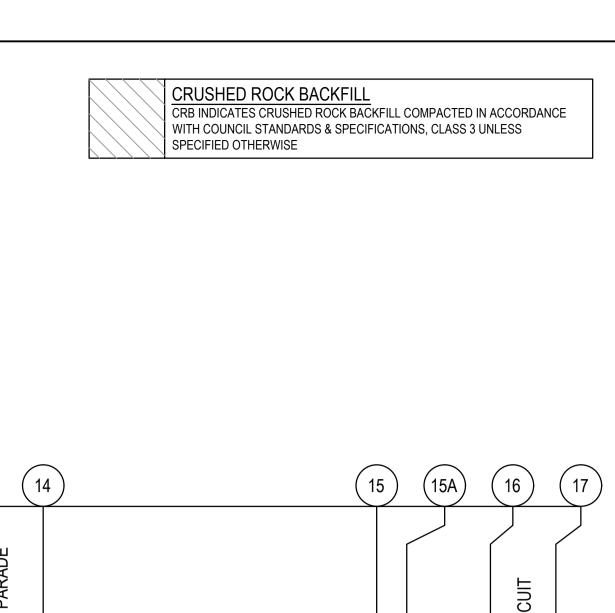








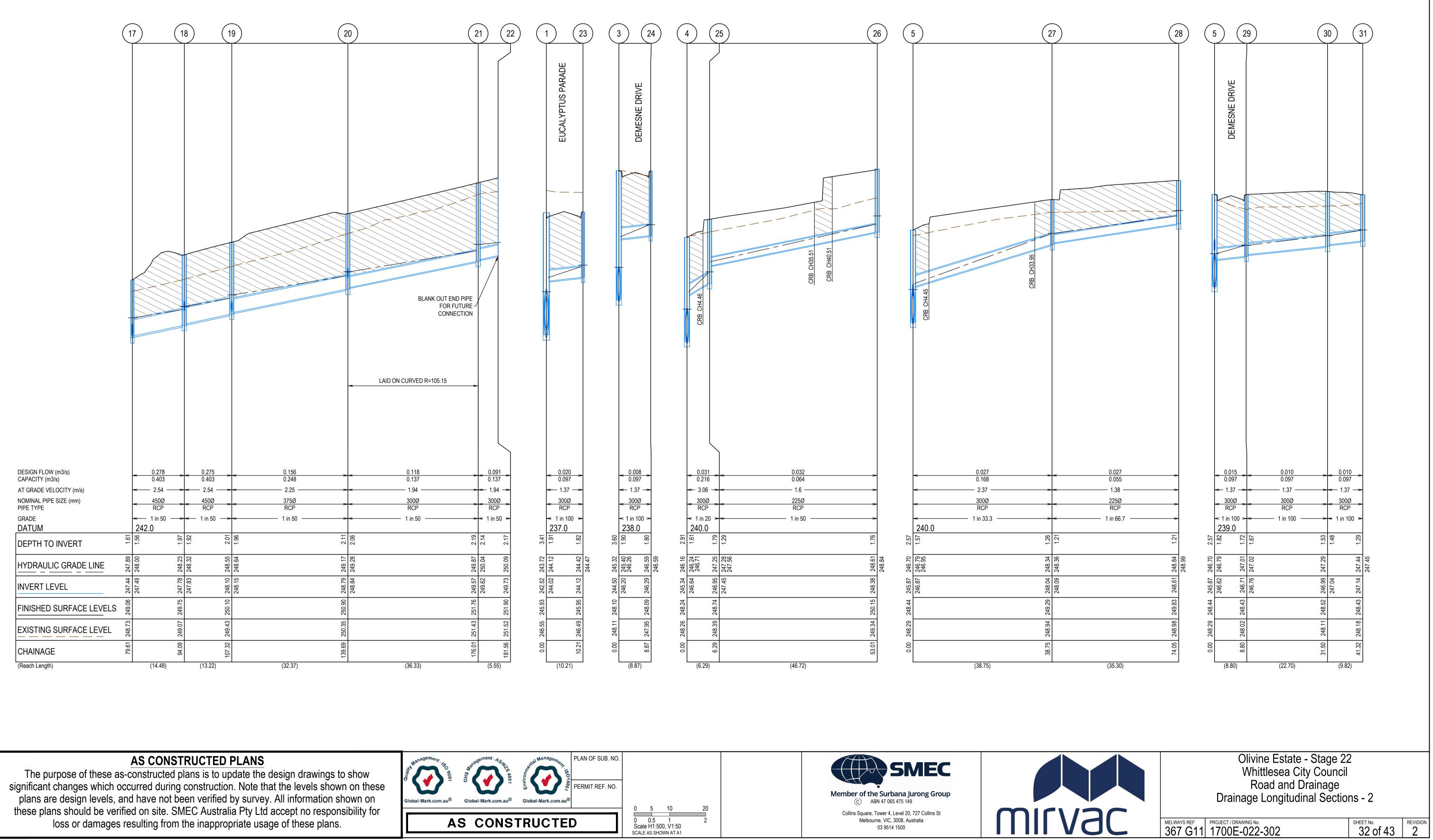
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MELWAYS REF PROJECT / DRAWING No.

367 G11 1700E-022-301

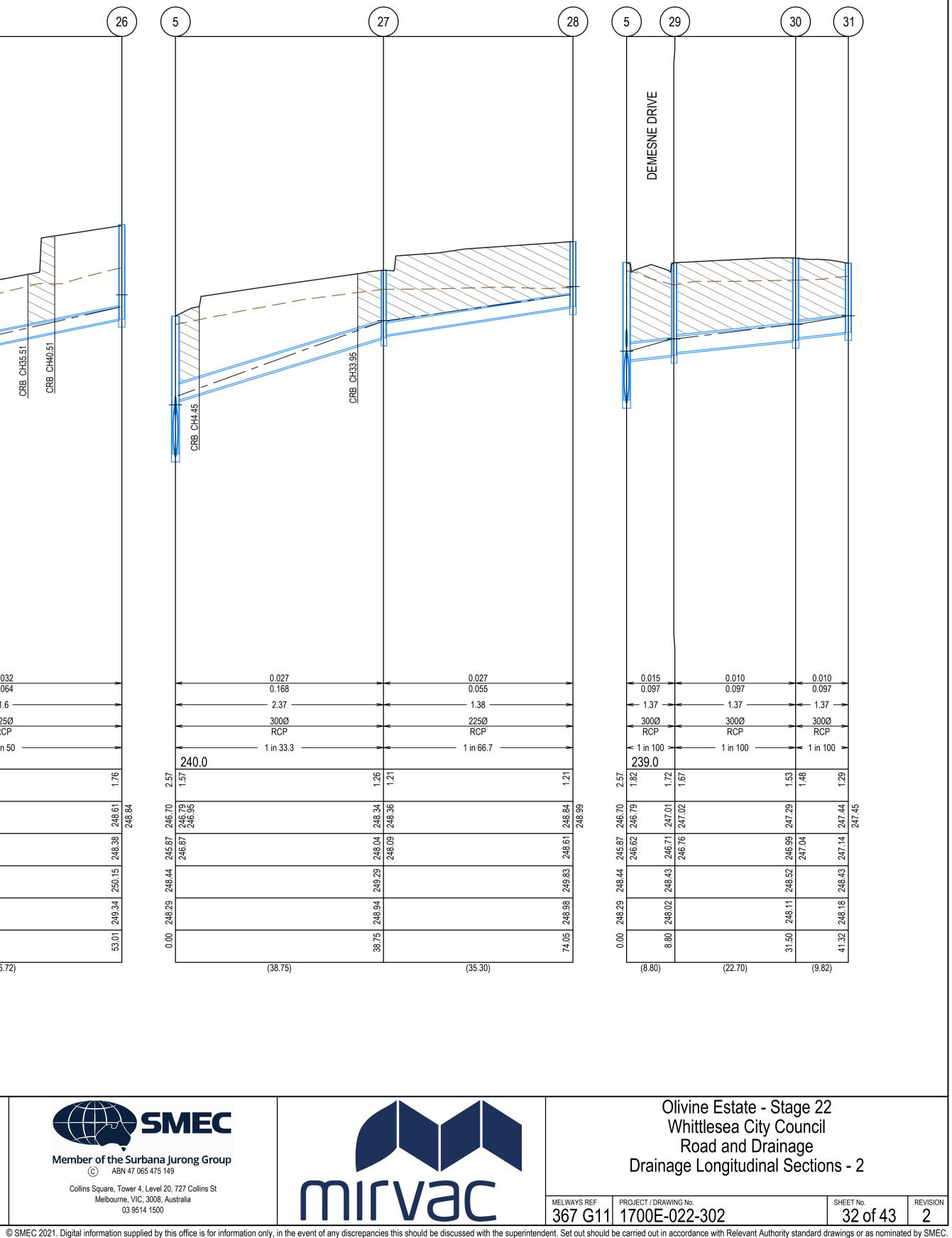
SHEET NO. REVISION 31 of 43 3 SHEET No.

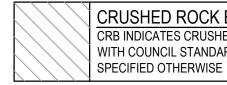




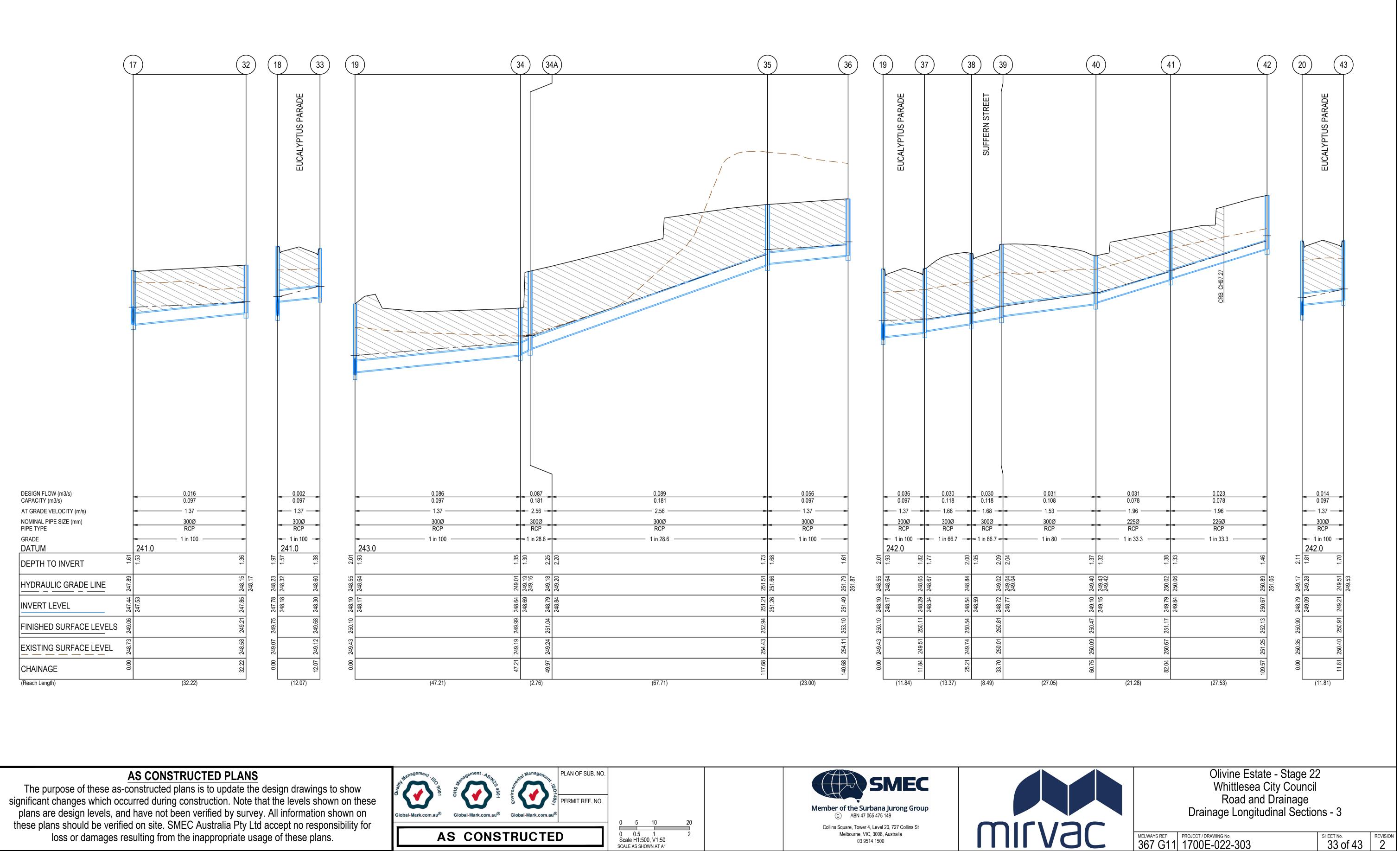
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### CRUSHED ROCK BACKFILL CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS



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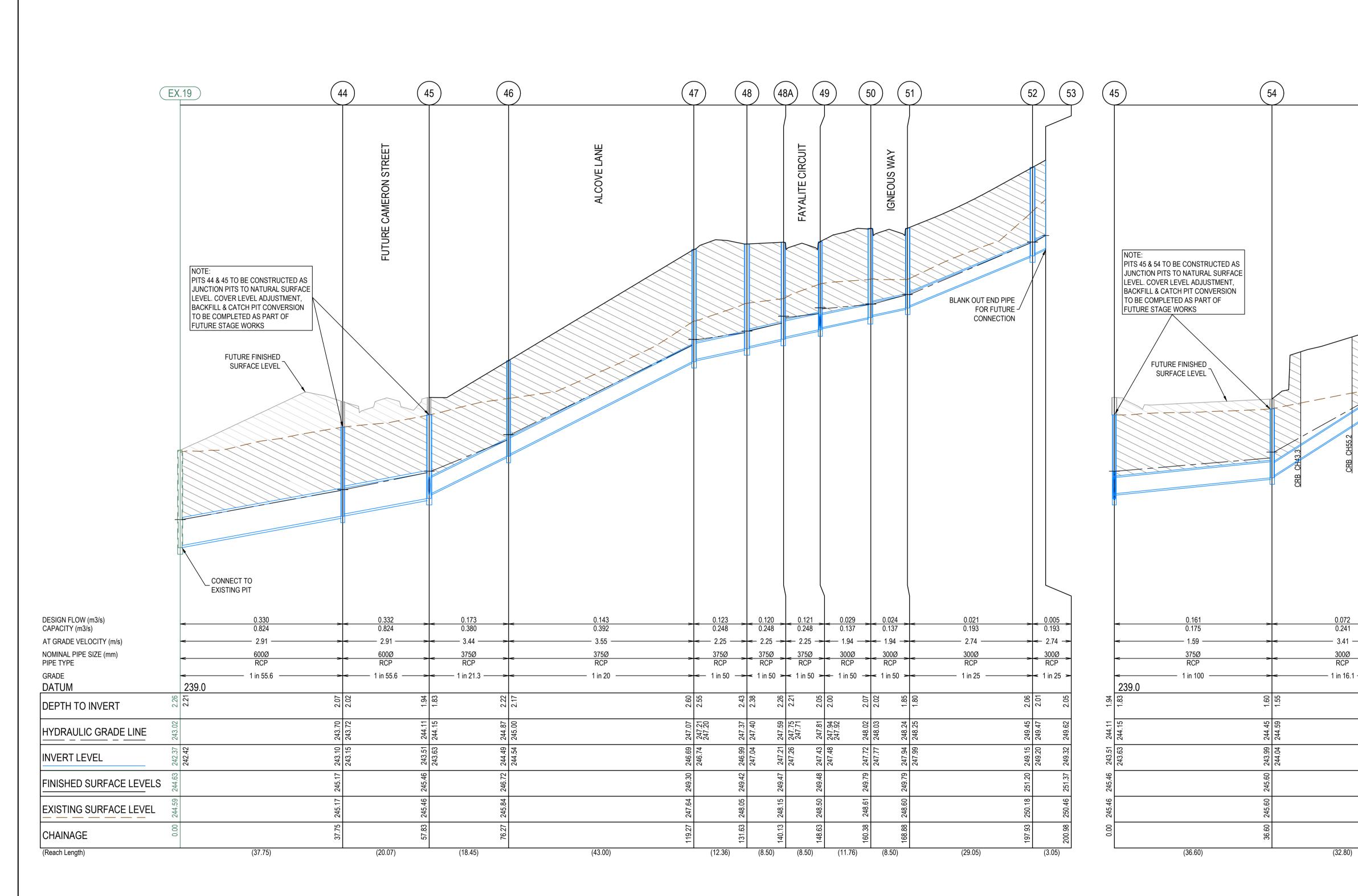


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### CRUSHED ROCK BACKFILL CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS SPECIFIED OTHERWISE



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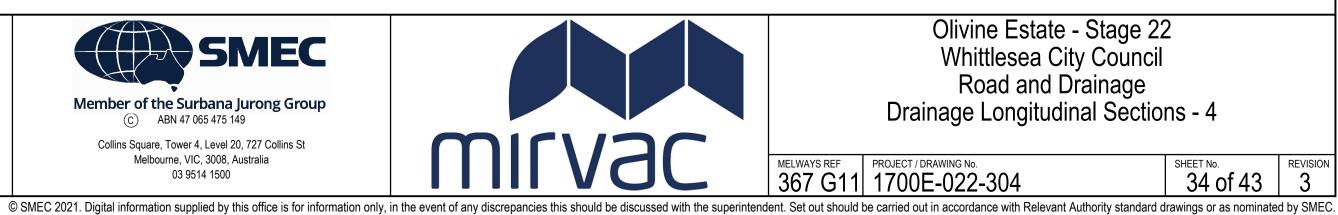


10

0 0.5 1 Scale H1:500, V1:50 SCALE AS SHOWN AT A1

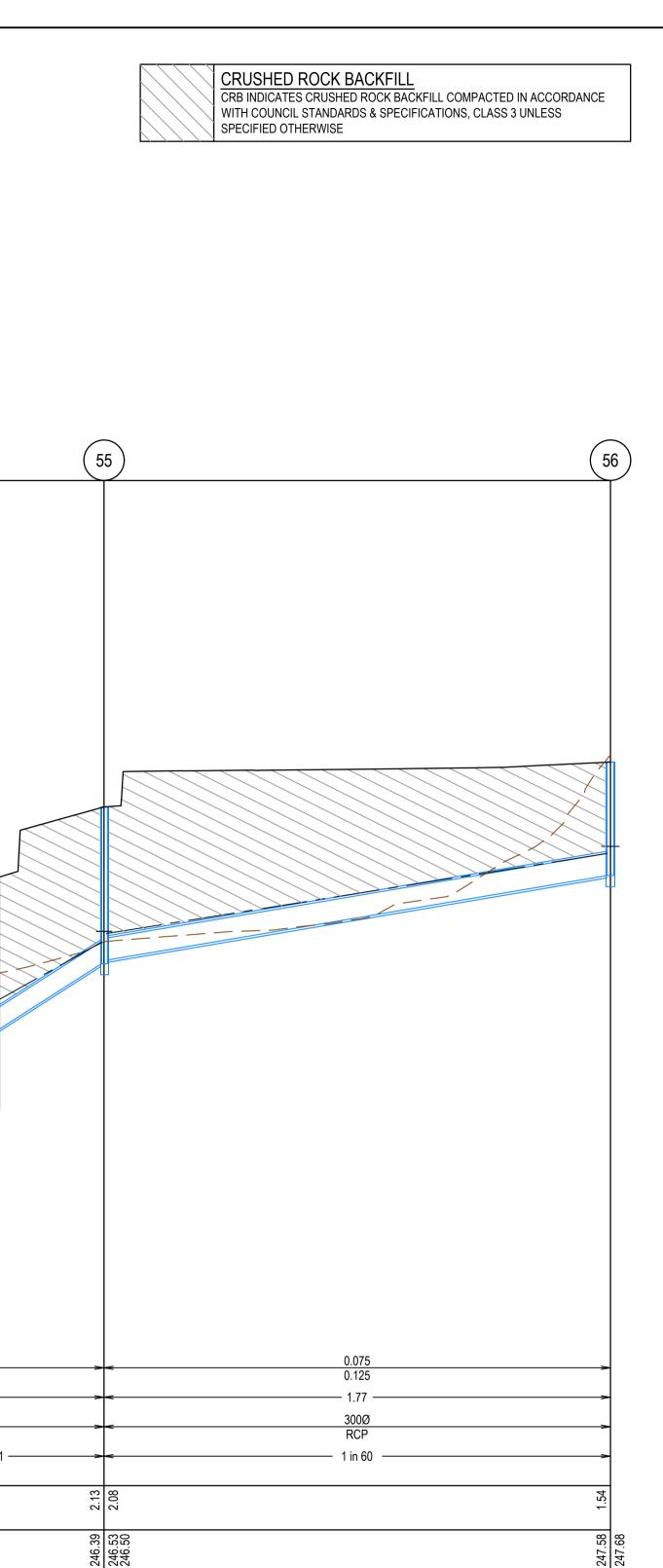
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246. 246



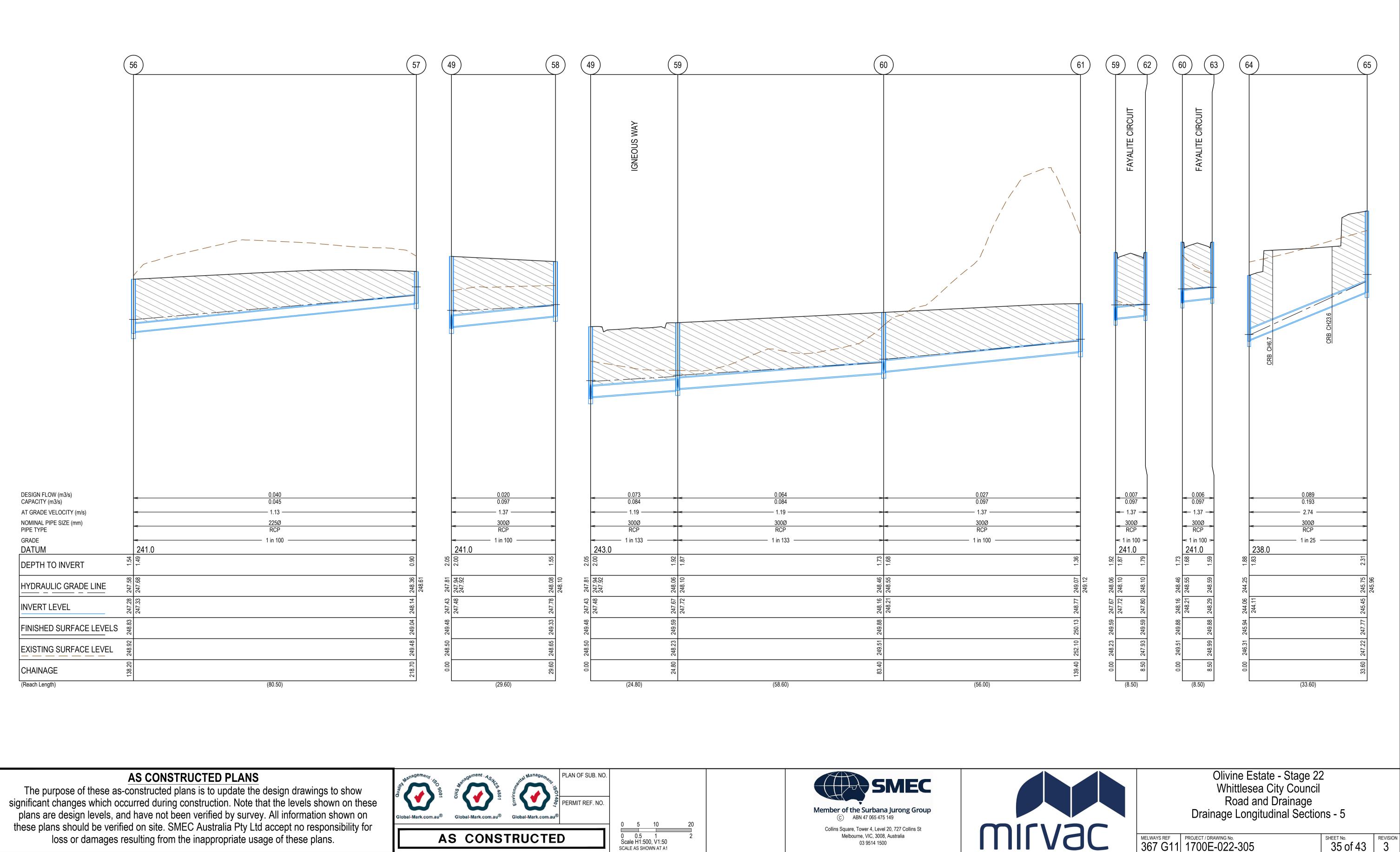
80 2 144

SHEET No. REVISION 34 Of 43 3

SHEET No.

(68.80)

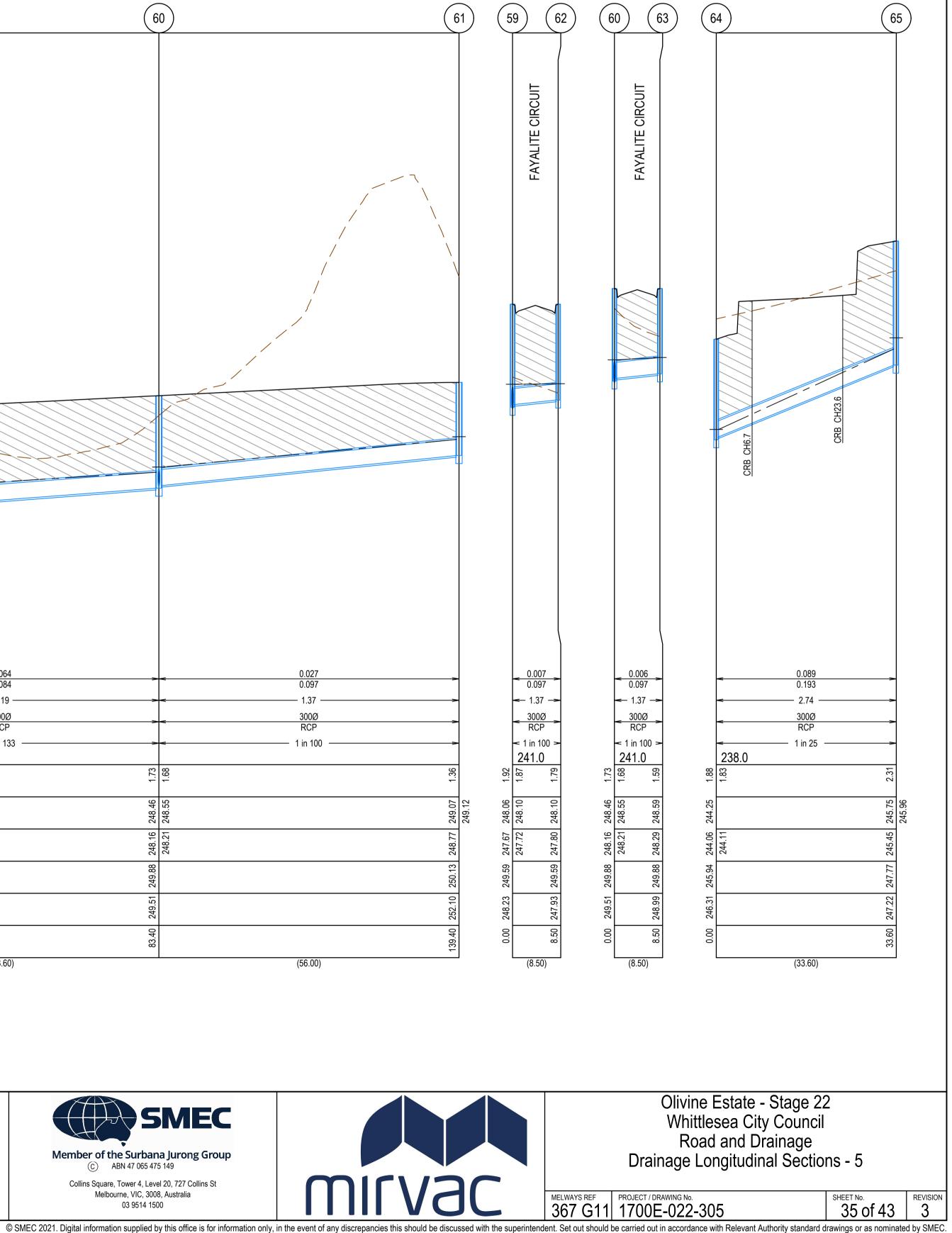
# Olivine Estate - Stage 22 Whittlesea City Council Road and Drainage Drainage Longitudinal Sections - 4





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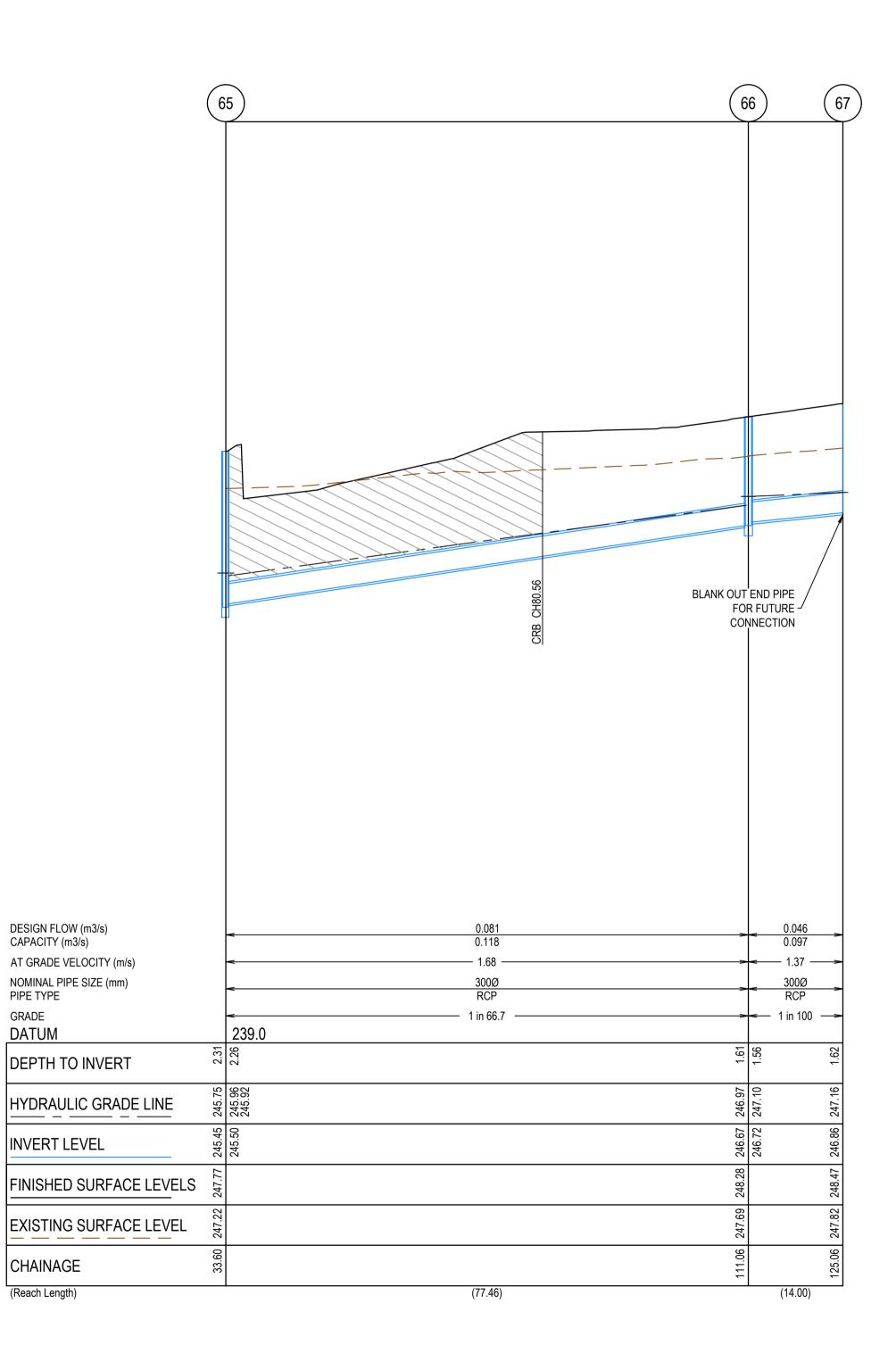


### CRUSHED ROCK BACKFILL CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS SPECIFIED OTHERWISE

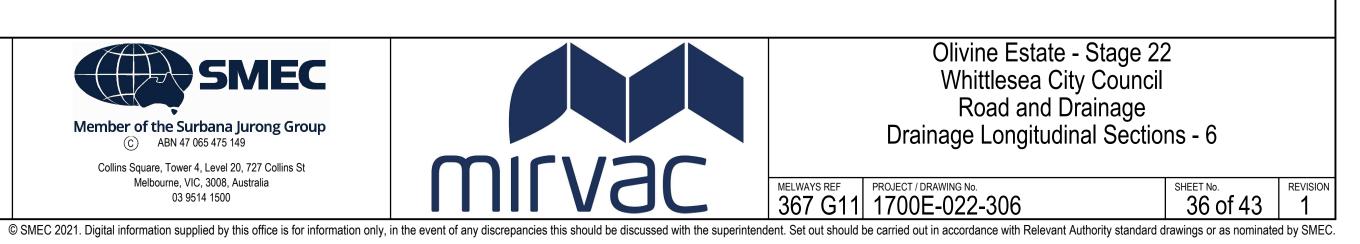
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## CRUSHED ROCK BACKFILL

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

		INTEF		161	LET		JTLET	SCHEDULE		[	
PIT NUMBER	TYPE	INTER WIDTH (mm)	RNAL LENGTH (mm)	DIAMETER (mm)	INV R.L. (m)	DIAMETER (mm)		F.S.L.	DEPTH	STANDARD DRAWING	REMARKS
Ex.EP5	ENDPIPE			1200	242.4			245.59	3.19		CONNECT TO EXISTING ENDPIPE
1	DOUBLE SIDE ENTRY PIT	1500	900	825	242.71	1200	242.52	245.93	3.41	EDCM 602 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
				300	244.02						
2	SIDE ENTRY PIT	1200	900	825	243.31	825	243.26	246.62	3.36	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
				450	244.06						
3	DOUBLE SIDE ENTRY PIT	1200	900	825	244.55	825	244.5	248.1	3.6	EDCM 602 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
				300	246.2						
4	SIDE ENTRY PIT	1200	900	825	245.39	825	245.34	248.24	2.91	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
		1000		300	246.64	005	0.45.07	040.44	0.57		
5	SIDE ENTRY PIT	1200	900	825	245.92	825	245.87	248.44	2.57	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
				300	246.87						
				300	246.62					EDCM 601 & VR SD	
6	SIDE ENTRY PIT	1200	1600	675	246.17	825	246.1	248.51	2.42	1023	PIT TO BE HAUNCHED TO 600x900 COVER
				750	246.15						
7	SIDE ENTRY PIT	1500	900	525	246.4	675	246.32	248.66	2.33	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER. PROVIDE CLASS D BOLT DOWN LI
				525	246.4						
8	SIDE ENTRY PIT	900	900	525	246.56	525	246.51	248.64	2.13	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER. PROVIDE CLASS D BOLT DOWN LI
9		10				525	246.63	248.72	2.09		
10	DOUBLE SIDE ENTRY PIT	1050	900	750	246.31	750	246.26	248.55	2.29	EDCM 602 & 607	
11	SIDE ENTRY PIT	1050	900	750	246.44	750	246.39	248.58	2.19	EDCM 601 & 607	
12	ENDPIPE					750	246.46	248.59	2.14		
13 14	ENDPIPE SIDE ENTRY PIT	750	900	450	244.58	525 450	246.52 244.53	248.74 246.63	2.21	EDCM 601 & 607	BLANK OFF ENDPIPE PIT TO BE HAUNCHED TO 600x900 COVER
14	SIDE ENTRY PIT	900	900	450	244.56	450	244.53	246.63	2.1	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
15A	JUNCTION PIT	900	900	450	240.39	450	246.55	248.93	2.43	EDCM 607	PIT TO BE HAUNCHED TO 600x900 COVER
16	DOUBLE SIDE ENTRY PIT	900	900	450	240.0	450	240.05	240.95	2.01	EDCM 602 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
17	DOUBLE SIDE ENTRY PIT	600	900	450	247.49	450	247.44	249.06	1.62	EDCM 602 & 605	
				300	247.53	+00	277.77	243.00	1.02		
18	SIDE ENTRY PIT	750	900	450	247.83	450	247.78	249.75	1.97	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
				300	248.2						
19	SIDE ENTRY PIT	750	900	375	248.15	450	248.1	250.1	2.01	EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
				300	248.18						
				300	248.18						
20	SIDE ENTRY PIT	600	900	300	248.84	375	248.79	250.9	2.11	EDCM 601 & 605	
				300	249.11						
21	SIDE ENTRY PIT	600	900	300	249.62	300	249.57	251.76	2.19	EDCM 601 & 605	
22	ENDPIPE					300	249.73	251.9	2.17		BLANK OFF ENDPIPE
23	DOUBLE SIDE ENTRY PIT	600	900			300	244.13	245.95	1.82	EDCM 602 & 605	
24	SIDE ENTRY PIT	600	900			300	246.29	248.09	1.8	EDCM 601 & 605	
25	JUNCTION PIT	900	600	225	247.45	300	246.95	248.75	1.8	EDCM 605	
26	JUNCTION PIT	900	600			225	248.38	250.15	1.76	EDCM 605	
27	JUNCTION PIT	900	600	225	248.09	300	248.04	249.29	1.26	EDCM 605	
28	JUNCTION PIT	600	900			225	248.62	249.83	1.21	EDCM 605	
29	SIDE ENTRY PIT	600	900	300	246.76	300	246.71	248.43	1.72	EDCM 601 & 605	
30	JUNCTION PIT	600	900	300	247.04	300	246.99	248.52	1.53	EDCM 605	
31	DOUBLE SIDE ENTRY PIT	600	900			300	247.14	248.43	1.29	EDCM 602 & 605	
32	SIDE ENTRY PIT	600	900			300	247.85	249.21	1.36	EDCM 601 & 605	
33	SIDE ENTRY PIT	600	900			300	248.3	249.68	1.38	EDCM 601 & 605	
34	JUNCTION PIT	600	900	300	248.69	300	248.64	249.99	1.35	EDCM 605	
34A	JUNCTION PIT	600	900	300	248.84	300	248.79	251.04	2.25	EDCM 605	
35		900	600	300	251.26	300	251.21	252.94	1.73	EDCM 605	
36		600	900	200	049.04	300	251.49	253.1	1.61	EDCM 605	PROVIDE 300 DIA BLOCKOUT AT IL 251.54 ON EASTERN WALL
37	SIDE ENTRY PIT	600	900	300	248.34	300	248.29	250.11	1.82	EDCM 601 & 605	
38	SIDE ENTRY PIT	600 600	900 900	300 300	248.59 248.77	300 300	248.54 248.72	250.54 250.81	2	EDCM 602 & 605	
39		600 600	900	300 225	248.77	300	248.72	250.81	2.09 1.37	EDCM 605 EDCM 605	
40	JUNCTION PIT	600	900	225	249.16	225	249.11	250.47	1.37	EDCM 605 EDCM 605	
41	JUNCTION PIT	900	900 600	220	243.04	225	249.79	251.17	1.38	EDCM 605	
42	SIDE ENTRY PIT	600	900			300	230.07	252.13	1.40	EDCM 601 & 605	
Ex.19	JUNCTION PIT	900	900	600	242.42		2.0.21	244.63			CONNECT INTO EXISTING PIT
											CONSTRUCT PIT TO EXISTING LEVEL. PIT TO BE RAISED TO ULTIMATE LEVEL W
44	JUNCTION PIT	600	900	600	243.15	600	243.1	245.17	2.07	EDCM 605	CATCH PIT TO BE CONSTRUCTED AS PART OF FUTURE WORKS. PROVIDE 300 I BLOCKOUT AT IL 243.26 ON WESTERN WALL
٨٢		000	000	075	040.00	000	040.54	045 40	4.04	FDOMOG	CONSTRUCT PIT TO EXISTING LEVEL. PIT TO BE RAISED TO ULTIMATE LEVEL W
45	JUNCTION PIT	600	900	375	243.63	600	243.51	245.46	1.94	EDCM 605	CATCH PIT TO BE CONSTRUCTED AS PART OF FUTURE WORKS.
				375	243.63						
46	GRATED PIT	600	900	375	244.54	375	244.49	246.72	2.22	EDCM 605	GRATED JUNCTION PIT LID. REFER TO DETAIL
47	GRATED PIT	600	900	375	246.74	375	246.69	249.3	2.6	EDCM 605	GRATED JUNCTION PIT LID. REFER TO DETAIL
48	SIDE ENTRY PIT	600	900	375	247.04	375	246.99	249.42	2.43	EDCM 601 & 605	
48A		600	900	375	247.26	375	247.21	249.47	2.26	EDCM 605	
49	SIDE ENTRY PIT	600	900	300	247.48	375	247.43	249.48	2.05	EDCM 601 & 605	
				300	247.5						
		600	900	300 300	247.5 247.77	300	247.72	249.79	2.07	EDCM 601 & 605	
50	SIDE ENTRY PIT								7		

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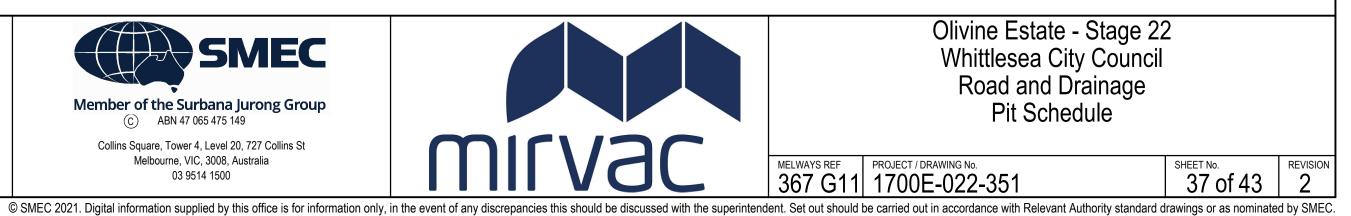
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	Management, ISO14007	PLAN OF SUB. NO

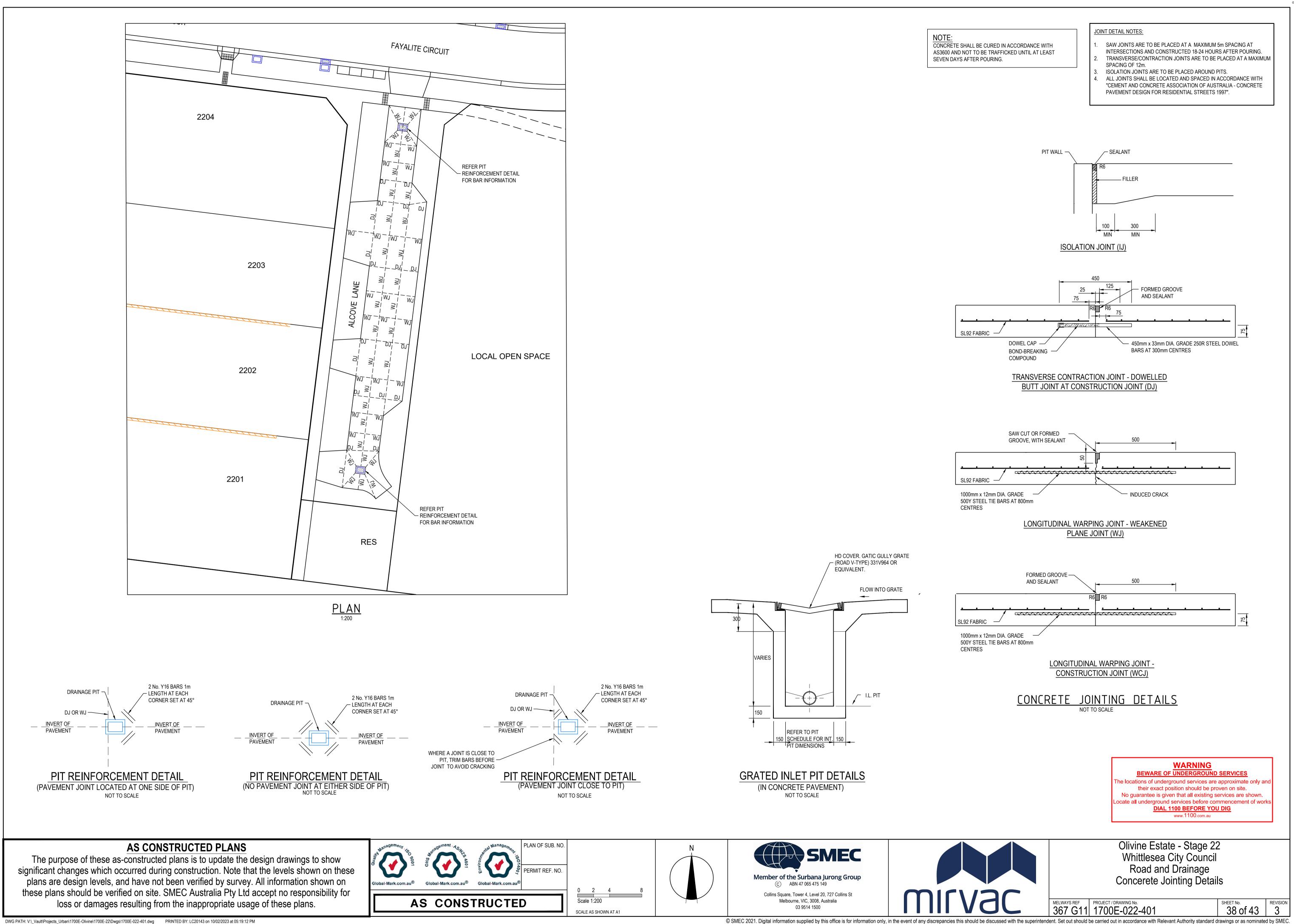
SIDE ENTRY PIT 249.2 249.15 251.2 600 900 300 300 52 53 300 249.32 251.37 ENDPIPE 54 JUNCTION PIT 600 900 300 244.04 375 243.99 245.6 375 244.04 300 55 JUNCTION PIT 900 600 246.14 300 246.09 248.22 56 600 900 225 JUNCTION PIT 247.34 300 247.29 248.83 57 900 JUNCTION PIT 600 225 248.14 249.04 900 58 600 300 SIDE ENTRY PIT 247.78 249.33 600 900 247.72 300 59 SIDE ENTRY PIT 300 247.67 249.59 300 247.74 60 SIDE ENTRY PIT 600 900 300 248.21 300 248.16 249.88 300 248.23 61 JUNCTION PIT 600 900 300 248.77 250.13 62 900 300 SIDE ENTRY PIT 600 247.8 249.59 63 600 900 300 248.29 SIDE ENTRY PIT 249.88 600 900 245.94 64 300 244.11 JUNCTION PIT 900 600 300 245.5 300 245.45 247.77 65 JUNCTION PIT 900 600 300 248.28 66 JUNCTION PIT 246.72 300 246.67 67 300 246.86 248.47 ENDPIPE

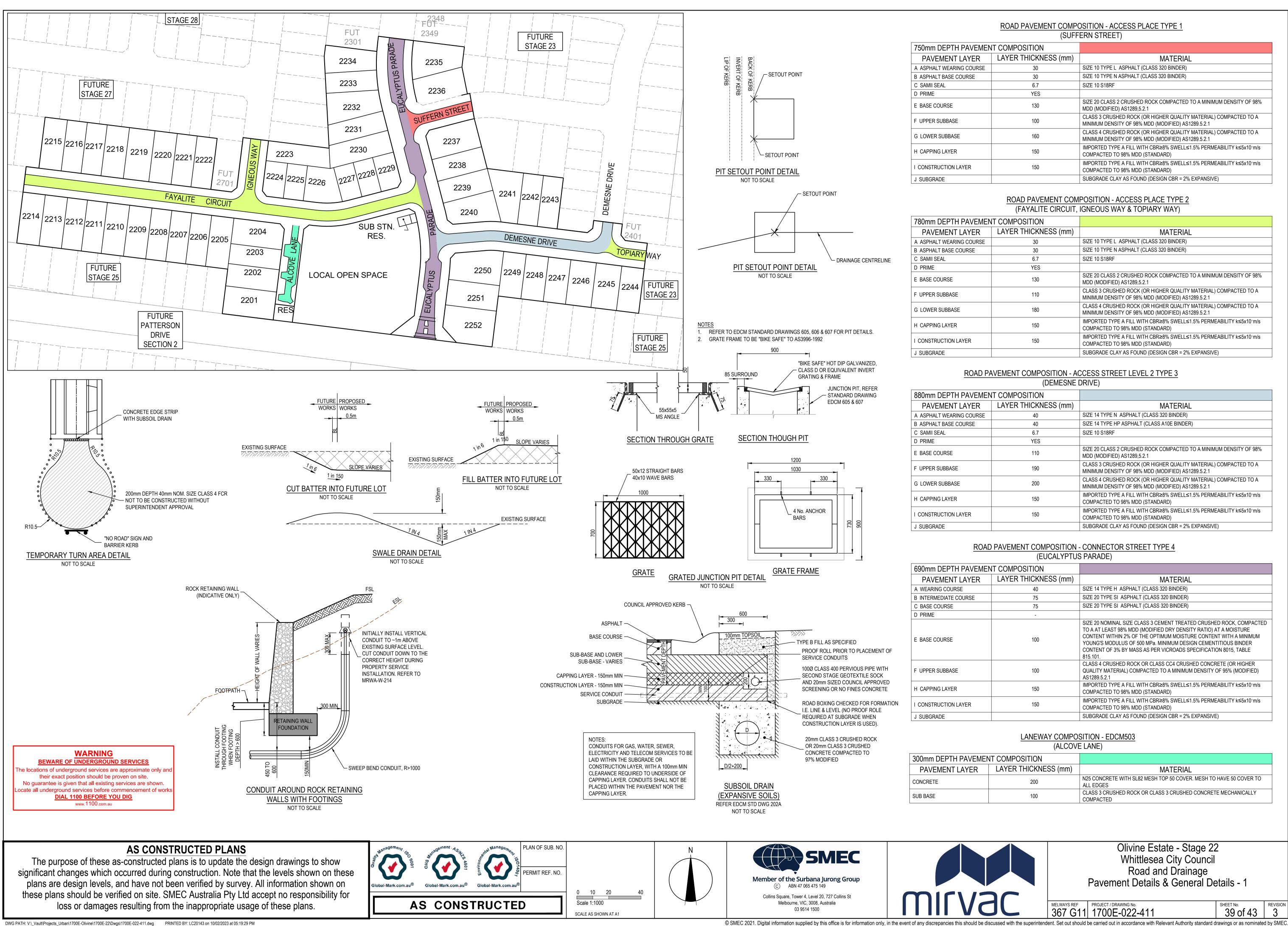




SCALE AS SHOWN AT A1

	-	
2.06	EDCM 601 & 605	
2.05		BLANK OFF ENDPIPE
1.6	EDCM 605	CONSTRUCT PIT TO EXISTING LEVEL. PIT TO BE RAISED TO ULTIMATE LEVEL WITH CATCH PIT TO BE CONSTRUCTED AS PART OF FUTURE WORKS. PROVIDE 375 DIA BLOCKOUT AT IL 244.04 ON WESTERN WALL
2.13	EDCM 605	
1.54	EDCM 605	
0.9	EDCM 605	
1.55	EDCM 601 & 605	
1.92	EDCM 601 & 605	
1.73	EDCM 601 & 605	
1.37	EDCM 605	
1.79	EDCM 601 & 605	
1.59	EDCM 601 & 605	
	EDCM 601 & 605	CATCH PIT TO BE CONSTRUCTED AS PART OF FUTURE WORKS. PROVIDE 300 DIA BLOCKOUT AT IL 244.11 ON EASTERN WALL
2.31	EDCM 605	
1.61	EDCM 605	
1.62		BLANK OFF ENDPIPE





## **ROAD PAVEMENT COMPOSITION - ACCESS PLACE TYPE 1** (SUFFERN STREET)

'EMEN	IT COMPOSITION	
ĒR	LAYER THICKNESS (mm)	MATERIAL
JRSE	30	SIZE 10 TYPE L ASPHALT (CLASS 320 BINDER)
Ξ	30	SIZE 10 TYPE N ASPHALT (CLASS 320 BINDER)
	6.7	SIZE 10 S18RF
	YES	
	130	SIZE 20 CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289,5.2.1
	100	CLASS 3 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289.5.2.1
	160	CLASS 4 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289.5.2.1
	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10 m/s COMPACTED TO 98% MDD (STANDARD)
	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10 m/s COMPACTED TO 98% MDD (STANDARD)
		SUBGRADE CLAY AS FOUND (DESIGN CBR = 2% EXPANSIVE)

## ROAD PAVEMENT COMPOSITION - ACCESS PLACE TYPE 2 (FAYALITE CIRCUIT, IGNEOUS WAY & TOPIARY WAY)

EMEN	IT COMPOSITION	
R	LAYER THICKNESS (mm)	MATERIAL
JRSE	30	SIZE 10 TYPE L ASPHALT (CLASS 320 BINDER)
	30	SIZE 10 TYPE N ASPHALT (CLASS 320 BINDER)
	6.7	SIZE 10 S18RF
	YES	
	130	SIZE 20 CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289,5.2.1
	110	CLASS 3 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289.5.2.1
	180	CLASS 4 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289.5.2.1
	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10°m/s COMPACTED TO 98% MDD (STANDARD)
	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10*m/s COMPACTED TO 98% MDD (STANDARD)
		SUBGRADE CLAY AS FOUND (DESIGN CBR = 2% EXPANSIVE)

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

 	 -	-	 	-	 -	

'EMEN	IT COMPOSITION	
ER	LAYER THICKNESS (mm)	MATERIAL
JRSE	40	SIZE 14 TYPE N ASPHALT (CLASS 320 BINDER)
Ξ	40	SIZE 14 TYPE HP ASPHALT (CLASS A10E BINDER)
	6.7	SIZE 10 S18RF
	YES	
	110	SIZE 20 CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289,5.2.1
	190	CLASS 3 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289.5.2.1
	200	CLASS 4 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% MDD (MODIFIED) AS1289.5.2.1
	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10°m/s COMPACTED TO 98% MDD (STANDARD)
	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10°m/s COMPACTED TO 98% MDD (STANDARD)
		SUBGRADE CLAY AS FOUND (DESIGN CBR = 2% EXPANSIVE)

### ROAD PAVEMENT COMPOSITION - CONNECTOR STREET TYPE 4 (EUCALYPTUS PARADE)

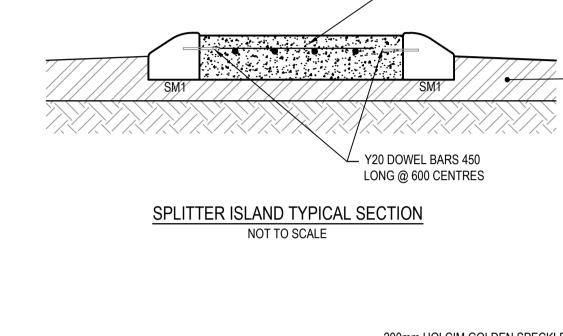
EMEN	IT COMPOSITION	
R	LAYER THICKNESS (mm)	MATERIAL
	40	SIZE 14 TYPE H ASPHALT (CLASS 320 BINDER)
	75	SIZE 20 TYPE SI ASPHALT (CLASS 320 BINDER)
	75	SIZE 20 TYPE SI ASPHALT (CLASS 320 BINDER)
	-	
	100	SIZE 20 NOMINAL SIZE CLASS 3 CEMENT TREATED CRUSHED ROCK, COMPACTED TO A AT LEAST 98% MDD (MODIFIED 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.
	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
	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10°m/s COMPACTED TO 98% MDD (STANDARD)
	150	IMPORTED TYPE A FILL WITH CBR≥8% SWELL≤1.5% PERMEABILITY k≤5x10°m/s COMPACTED TO 98% MDD (STANDARD)
		SUBGRADE CLAY AS FOUND (DESIGN CBR = 2% EXPANSIVE)

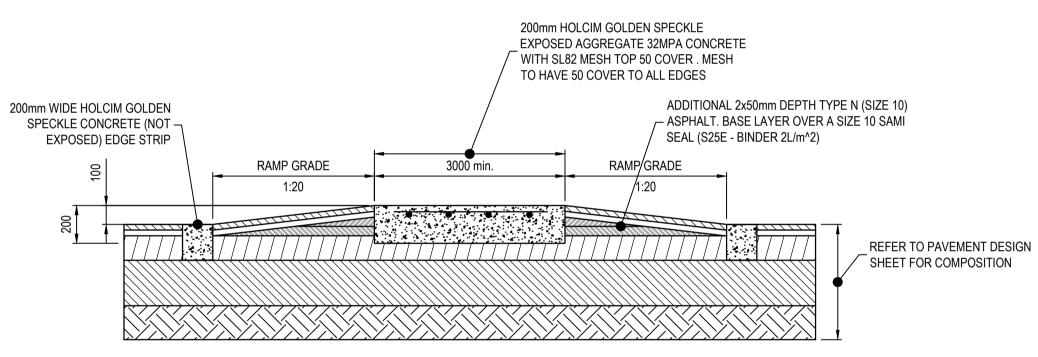
### LANEWAY COMPOSITION - EDCM503 (ALCOVE LANE)

MEN	IT COMPOSITION	
२	LAYER THICKNESS (mm)	MATERIAL
	200	N25 CONCRETE WITH SL82 MESH TOP 50 COVER. MESH TO HAVE 50 COVER TO ALL EDGES
	100	CLASS 3 CRUSHED ROCK OR CLASS 3 CRUSHED CONCRETE MECHANICALLY COMPACTED

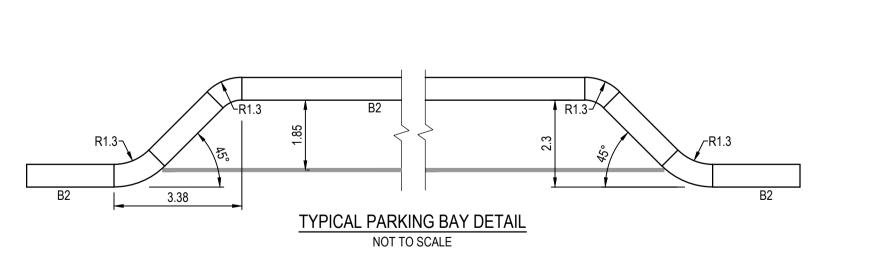
# Olivine Estate - Stage 22 Whittlesea City Council Road and Drainage Pavement Details & General Details - 1

MELWAYS REF PROJECT / DRAWING No. SHEET No. REVISION 367 G11 1700E-022-411 39 of 43 3





FLAT TOP RAISED PAVEMENT NOT TO SCALE

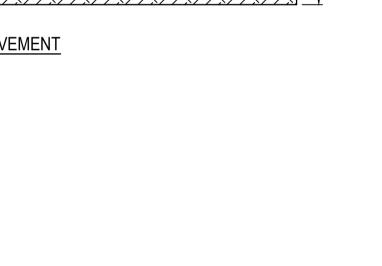




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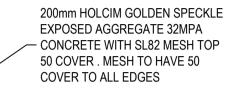
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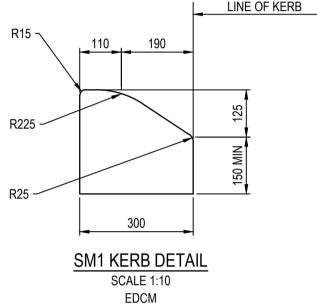












LINE OF KERB

600

600 B2 KERB DETAIL SCALE 1:10 EDCM

600

M2 KERB DETAIL SCALE 1:10 EDCM

LINE OF KERB

R15 🔨

R25 🛩

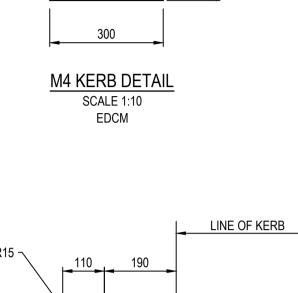
R15 -

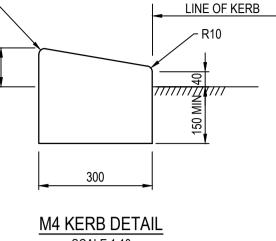
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LIP OF KERB

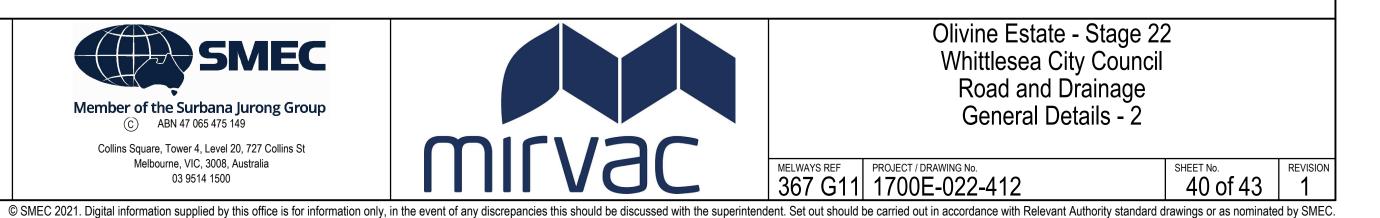
✓ 15 CHAMFER

SHARP TRANSITION

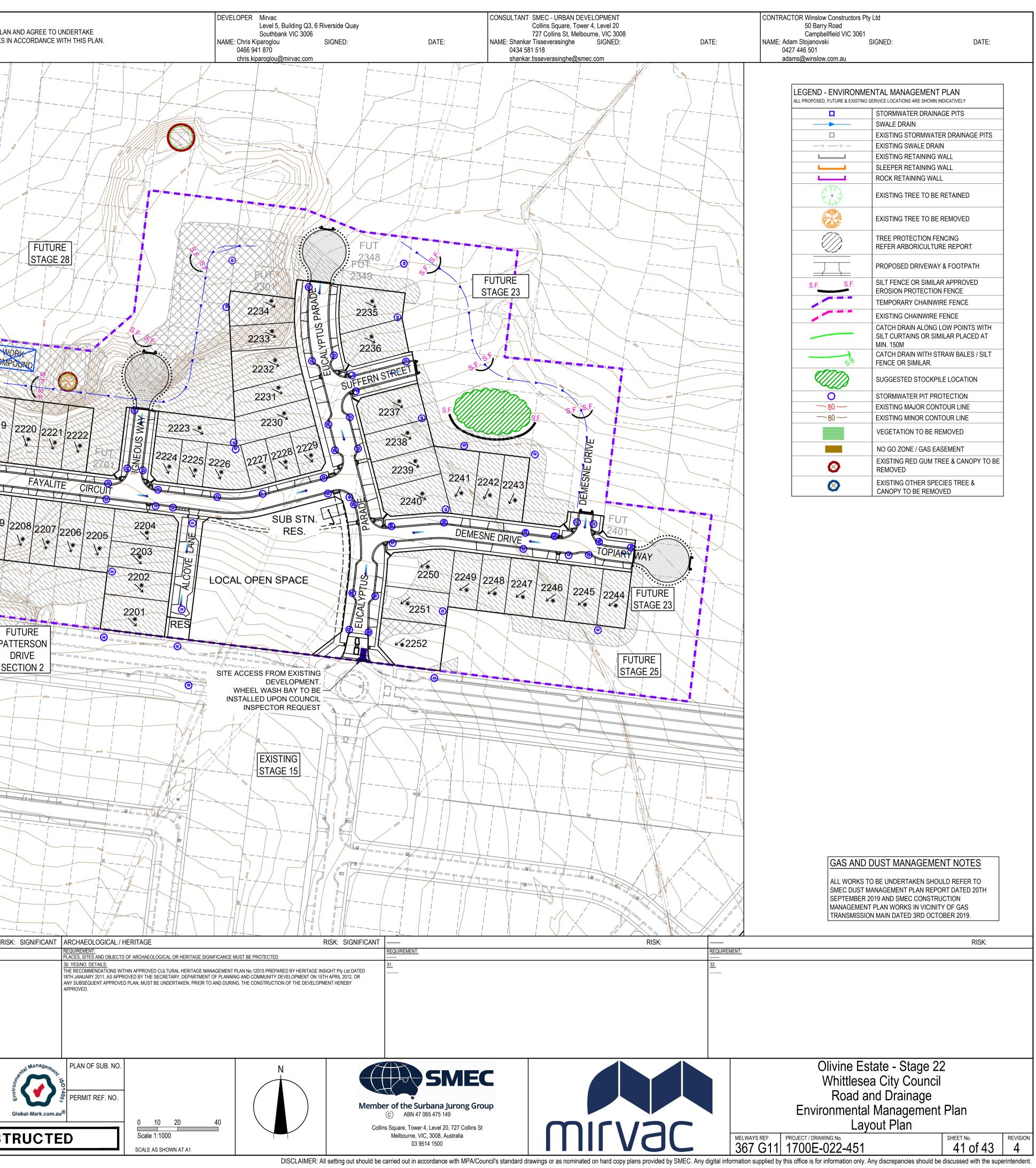




R15 ~



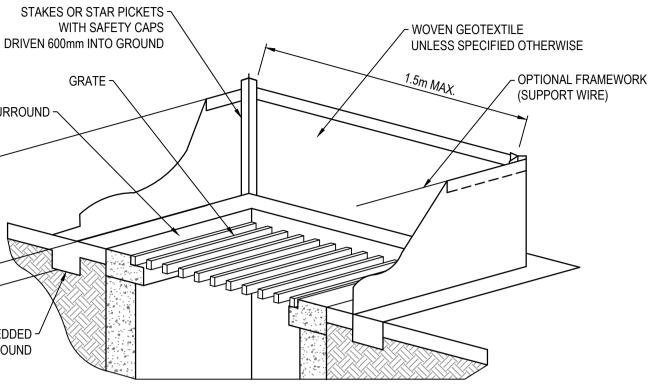
THE FOLLOWING HAVE BEEN IDENTIFIED AS SIGNIFICAL CHMP, REF. 12653_12112014 KANGAROO MANAGEMENT PLAN ,REF. 6406_FINAL_24062016 RIVER RED GUM TREE MANAGEMENT PLAN, REF. 008833_22032018 CEMP, REF. 9930_FINAL(v1)_26102017		I HAVE PREPARED THIS ENVIRONMENTAL MANAGEMENT PL WORKS AND ENSURE SUB-CONTRACTORS UNDERTAKE WORKS
THESE ASPECTS SHALL BE MANAGED WITH THE ENVIRONMENTAL PROTECT MANAGEMENT	ION MEASURES OUTLINED ON THIS PLAN.	
1. RESPONSIBILITIES: Civil Contractor: WINSLOW CONSTRUCTORS PTY LTD Superintendent: SMEC	4. STAGING OF WORKS: - AS PER CONSTRUCTION PROGRAM	
EMERGENCY CONTACTS 1. SHANKAR TISSEVERASINGHE - (03) 98690947 2. RILEY GIACOMINI - (03) 95141622 2. COMMUNICATION OF EMP REQUIREMENTS:	5. INFORMING RESIDENTS:	
- INDUCTION OF ALL PERSONS WORKING ON SITE REGARDING REQUIREMENTS AS SET OUT ON THE EMP. - EMP TO BE DISPLAYED IN VISIBLE LOCATION WITHIN SITE COMPOUND EG. ON WALLS OF SITE SHEDS / OFFICE.	AS REQUIRED	
3. INSPECTIONS AND MAINTENANCE: - TWO INSPECTIONS PER WEEK - PRIOR TO AND AFTER STORM EVENT AND/OR HEAVY RAIN. - MAINTAINS SO REQUIRED WITH ALL RECTIFICATION TO BE ADDRESSED WITH 12 HOURS OF INCIDENT / REPORT.	6. ASSOCIATED DOCUMENTS: 	
NOISE	RISK: SIGNIFICANT	
REQUIREMENT:         EPA VICTORIA AND COUNCIL REQUIREMENTS MUST BE ADHERED TO IN REL         RESIDENTS AND OTHER APPLICABLE NEIGHBOURS TO THE SITE ARE NOT DI         7. WORKING HOURS:       08.00 TO 16.30 MON - FRI         8. NOISE MINIMISATION METHODS:         - MAINTAIN WORKING HOUR.         - RESTRICT USE OF NOISY EQUIPMENT AND PROCESSES TO AVOID DISTURBANCES TO ADJACENT RESIDENTS.         - FOLLOW EPA NOISE CONTROL GUIDELINES - TG302/92.	ATION TO THE LEVEL OF NOISE AND WORKING HOURS, TO ENSURE THAT STURBED UNREASONABLY. THE GENERATION OF NOISE MUST BE MINIMISED. 09.00 TO 13.00 SATURDAY	FUTURE STAGE 27
DUST REQUIREMENT:	RISK: SIGNIFICANT	2215 2216 2217 2218 221
10. MINIMISING DUST GENERATION         10. MINIMISING DUST GENERATION         - AVOID STRIPPING LARGE AREAS OF THE SITE WHEN NOT         REQUIRED.         - WATER SPRAYING AS REQUIRED.         - MINIMISE STRIPPED AREAS.         - MINIMISE ACTIVITIES ON HIGH WIND DAYS.	ISK OR LOSS OF AMENITY. 12. CONTINGENCIES: - IF HIGH WIND IS EXPECTED WHILE LARGE AREAS OF THE SITE ARE STRIPPED, SPRAY WATER IN ORDER TO ESTABLISH A THICK CRUST OVER UNVEGETATED LAND. ALSO MONITOR DRYNESS OF EXPOSED EARTH. SHOULD GROUND DRY OUT SIGNIFICANTLY, CONSIDER WATER SPRAYING OR COVER AREA WITH SOIL OR GRASS.	
	NOTE: IF A HOSE IS USED FOR WATER SPRAYING, THE HOSE IS TO BE FILLED WITH A LARGE TRIGGER NOZZLE. CHECK WATER RESTRICTIONS WITH LOCAL AUTHORITY FOR GUIDELINES.	
11. DUST SUPPRESSION: - WATER SPRAYING. - REDUCE ACTIVITY ONSITE WINDY DAYS.	13. OTHER: REFER TO DUST MANAGEMENT PLAN FOR FURTHER INFORMATION	
EROSION AND SEDIMENT REQUIREMENT: EPOSION AND SEDIMENT MUST BE MANAGED IN ACCORDANCE WITH CURRE		STAGE 25
EROSION AND SEDIMENT MUST BE MANAGED IN ACCORDANCE WITH CORRE SEDIMENT-LADEN WATER FROM ENTERING ANY DRAINAGE SYSTEM OR NAT 14. DRAINAGE MANAGEMENT: - STORMWATER FLOWING ONTO SITE WILL BE CONTROLLED BY	NT BEST PRACTICE ENVIRONMENTAL MANAGEMENT PRACTICES, TO PREVENT URAL WATERWAY <u>17. SEDIMENT TRAPS:</u> - SEDIMENT BASIN / SILT FENCE AS REQUIRED.	
CUT SWALES/ DRAINS, STRAW BALES AND SILT FENCE OR OTHER CONTROLS TO FILTER FLAW WHERE APPLICABLE. - ENSURE STORMWATER PITS AND DRAINS ARE PROTECTED FROM SILT/SEDIMENT BY USING APPROPRIATE METHODS.	- PIT LIDS MUST BE FITTED AS SOON AS POSSIBLE - USE TEMPORARY PIT LIDS UNTIL INSTALLED. USE SILT FENCES, SILT SAUSAGES, CUT OFF DRAINS AND OTHER SILT PROTECTION METHODS WHERE NECESSARY AS DETAILED IN THIS EMP PLAN AND AS REQUIRED BY THE SITUATION.	
15. SOIL STABILISATION DURING CONSTRUCTION: GRADE AND SEAL SOIL AS REQUIRED, RE-INSTATE DISTURBED AREAS AS SOON AS PRACTICAL.	18. DEWATERING: - WHERE POSSIBLE WATER SHALL BE DIRECTED OVER EXISTING GRASS & PLANTED AREAS FRO FURTHER SEDIMENT CONTROL PRIOR TO DISCHARGE INTO STORMWATER SYSTEM. - IF THIS IS NOT POSSIBLE, WATER TO BE COLLECTED INTO A TEMPORARY SUMP AND THEN SENT THROUGH SILT TRAPS BEFORE ENTERING INTO THE DRAINAGE SYSTEM.	
POST WORKS: - JUTE MATTING RETAINED. - TOPSOILING AND GRASSING DISTURBED SOIL AREAS TO BE CARRIED OUT AS SOON AS PRACTICAL. 16. STOCKPILE PROTECTION:	19. VEHICLE AND ROAD MANAGEMENT: SITE ACCESS:         - ACCESS THROUGH COMO PARADE         CLEANING VEHICLES:         ALL VEHICLES LEAVING THE SITE MUST REMOVE ANY EXCESS         SEDIMENTS/ CLAY COLLECTED ON THE VEHICLES WHILST ON SITE. EACH         OPERATOR MUST MANUALLY REMOVE EXCESS CLAY SUCH THAT IT	
- SILT FENCES TO BE ERECTED AROUND THE DOWNSTREAM SIDE OF STOCKPILES WHERE APPLICABLE. STOCKPILES TO BE PLACED AWAY FROM DRAINAGE INLETS, OPEN DRAINS, WATER COURSES & PAVED AREAS. A CUT-OFF DRAIN WITH EARTH BUND TO BE INSTALLED ON THE UPSLOPE SIDE OF THE STOCKPILE TO DIVERT RUN-OFF AWAY FROM THE STOCKPILE. MINIMISE THE NUMBER OF STOCKPILES WHERE POSSIBLE.	MINIMISES DEPOSITS ON THE ROAD. 20. OTHER: ROADS ARE TO BE CLEANED PRIOR TO RAIN/STORMWATER EVENTS. STORMWATER PITS ALONG THE ESTABLISHED ROADWAY, WHICH ARE SUBJECT TO SEDIMENT DEPOSITS, WILL BE EITHER FITTED WITH KERB INLET PROTECTORS OR SHALL BE FITTED WITH (GEO-FABRIC) FILTER	
WAOTE	MATERIAL TO CAPTURE SEDIMENTS. ROADS ARE TO BE INSPRECTED AND ANY SEDIMENT DEPOSITED ON THESE ROADS REMOVED.	
WASTE <u>REQUIREMENT:</u> LITTER AND WASTE MUST BE CONTAINED ON SITE, BEFORE DISPOSAL IN A F		
21. MOVEMENT OF SOIL: OFF SITE CONTAMINANT STATUS: CLEAN	23. WASTE STORAGE AND DISPOSAL: - WASTE BINS TO BE PLACED IN COMPOUND FRO DAILY RUBBISH AND REMOVED OFFSITE AS REQUIRED.	
22. WASTE MINIMISATION METHODS: - THE COLLECTION OF SURVEY PEGS AND OTHER MATERIALS ARE TO BE COLLECTED AND RE-USED ONSITE AND RECYCLED FRO FUTURE PROJECTS. - MATERIALS TO BE STORED IN COMPOUND OR SITE CONTAINER.	<u>24. OTHER:</u> N/A	
CHEMICALS <u>REQUIREMENT:</u> <u>STORAGE AND SPUL MANAGEMENT DRACTICES MUST BE IMPLEMENTED TO</u>	RISK: SIGNIFICANT	SIGNIFICANT FLORA / FAUNA       F         REQUIREMENT:       ALL SIGNIFICANT FLORA AND FAUNA ON AND ADJACENT TO THE SITE MUST BE PROTECTED
OR SPILLAGE OF CHEMICALS OR FUELS. <u>25. STORAGE:</u> - MINIMAL QUANTITIES STORED IN SITE CONTAINER.	27. REFUELLING PROCEDURE: - ALL REFUELLING TO BE CARRIED OUT BY EXTERNAL CONTRACTOR WITH PROCEDURES AND SPILL KITS AVAILABLE DURING REFUELLING.	29. YES/NO. DETAILS: REFER TO ENDORSED LANDSCAPE MASTER PLAN
26. SPILL MANAGEMENT: - SEE ITEM 27, REFUELLING UNDERTAKEN BY EXTENDED FUEL CONTRACTOR WHO CARRIES ALL THE REQUIRED SPILL KITS ETC.	28. OTHER: N/A	
The purpose of these as-co	AS CONSTRUCTED PLANS Instructed plans is to update the de	
plans are design levels, and these plans should be verified	urred during construction. Note that have not been verified by survey. A d on site. SMEC Australia Pty Ltd ac sulting from the inappropriate usage	All information shown on ccept no responsibility for

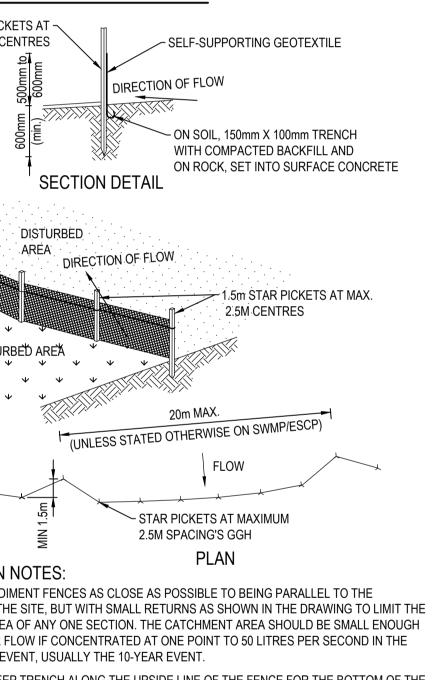


RISK ASSESSMENT CHECKLIST		I HAVE PREPARED THIS ENVIRONMENTAL MANAGEMENT PLAN AND AGREE TO UNDERTAKE WORKS AND ENSURE SUB-CONTRACTORS UNDERTAKE WORKS IN ACCORDANCE WITH THIS PLAN.	DEVELOPER Mirvac Level 5, Building Q3, 6 Riverside Quay	CONSU	ILTANT SMEC - URBAN DEVELOPMENT COLLINS SQUARE, TOWER 4, LEVEL 20	CONTRACTOR Winslow Constructors Pty Ltd 50 Barry Road
NOISE		ENVIRONMENTAL PROTECTION MEASURES SHALL BE	Southbank VIC 3006 NAME: Chris Kiparoglou SIGNED:		727 COLLINS ST, MELBOURNE, VIC, 3008 Shankar Tisseverasinghe SIGNED: DATE:	Campbellfield VIC 3061 NAME: Adam Stojanovski SIGNED: DATE:
INDISE ISSUES: - NATURE OF NOISE GENERATING WORKS: VEHICLES, FIXED MACHINERY, CONSTRUCTION ACTIVITIES. - POTENTIAL NOISE RECEPTORS: SURROUNDING RESIDENTS / CONTRACTORS.:	LIKELIHOOD LIKELY	CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING DESIGNS.	0466 941 870 chris.kiparoglou@mirvac.com		0434 581 518 shankar.tisseverasinghe@smec.com	0427 446 501 adams@winslow.com.au
- PROXIMITY OF WORKS TO NOISE RECEPTORS: ADJACENT RESIDENTS						WARNING
- THE RESIDENTS OF CRESSY WAY & EMINENCE DRIVE LIVE, 100m FROM THE SITE						BEWARE OF UNDERGROUND SERVICES The locations of underground services are approximate only and their exact
	MAJOR	<b>GEOTEXTILE INLET GUARD - PHASE B**</b>		<b>STOCKPILES</b>		position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works
	OVERALL RISK	STAKES OR STAR PICKETS - WITH SAFETY CAPS	∽ WOVEN GEOTEXTILE		- STABILIZED STOCKPILE SURFACE	DIAL 1100 BEFORE YOU DIG
	LOW	DRIVEN 600mm INTO GROUND	UNLESS SPECIFIED OTHERWISE		SEDIMENT FENCE	www.1100.com.au
		GRATE	- OPTIONAL FRAMEWORK (SUPPORT WIRE)	Flow	2:1 SLOPE (MAX)	AT & DO ward
DUST		SURROUND	(SUPPORT WIRE)			
- DUST SOURCES: MOVEMENTS OF VEHICLES - POTENTIAL DUST RECEPTORS: SURROUNDING RESIDENTS / CONTRACTORS	LIKELIHOOD LIKELY				 	
- PROXIMITY OF WORKS TO DUST RECEPTORS: ADJACENT RESIDENTS				CONSTRUCTION NO		NOT APPROVED FOR CONSTRUCTION           ED WATER FLOWS         THIS PLAN HAS BEEN PREPARED FOR INFORMATION
- EXTENT OF EXPOSED EARTH AND DURATION OF TIME EXPOSED: DURATION OF STAGED WORKS		TAX TAX		1. WHERE POSSIBLE LOCA ROADS AND HAZARD ARI	TE STOCKPILE AT LEAST 5 METRES FROM EXISTING VEGETATION, CONCENTRATI EAS.	ED WATER FLOWS, ONLY IN ACCORDANCE WITH CLAUSE XX THE CONTRACTOR SHALL BE RESPONSIBLE FOR
- WIND CONDITIONS:	MAJOR	M M		2. CONSTRUCT ON THE CON	TOUR AS A LOW, FLAT, ELONGATED MOUND.	PRODUCING THE FINAL EMP AS PART OF THE LUMP SUM PRICE FOR THE WORKS
				3. WHERE THERE IS SUFFICI	ENT AREA TOPSOIL STOCKPILES SHALLBE LESS THAN 2 METRES IN HEIGHT.	SOM THICE FOR THE WORKS
	OVERALL RISK LOW			4. REHABILITATE IN ACCORE	DANCE WITH THE SWMP/ESCP.	
		GEOTEXTILE EMBEDDED / 200mm INTO GROUND			( (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUNE ANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE OF STOCKPILE.	THE STOCKPILE AND
EROSION AND SEDIMENT				· ·	MUST BE DESIGNED TO ENSURE THAT IT DOES NOT COMPROMISE NATIVE VEGE	TATION TO BE
ISSUES: - EROSION AND SEDIMENT SOURCES: EXPOSED TOPSOIL	LIKELIHOOD LIKELY			PROTECTED.		
- POTENTIAL EROSION AND SEDIMENT RECEPTORS: STORMWATER SYSTEM, CREEK SYSTEM. - PROXIMITY OF WORKS TO EROSION AND SEDIMENT RECEPTORS: ADJACENT RESIDENTS				7. SOIL MUST NOT BE STOCK	KPILED ON NATIVE VEGETATION	
- EXTENT OF EXPOSED EARTH AND DURATION OF TIME EXPOSED: AREA APPROXIMATELY 5 HA EXPOSED FOR 6 MONTHS.						
- SLOPE: MINIMAL - 3 METRES OVER 250M - SITE DRAINAGE REGIME: SURFACE SWALES AND UNDERGROUND DRAINAGE	MAJOR					
- RAINFALL: 400 - 600MM / YEAR - VEHICLE MOVEMENTS ON AND OFF SITE: TO BE KEPT TO A MINIMUM AND VIA A SINGLE ENTRY / EXIT.						
- VEHICLE MOVEMENTS ON AND OFF SITE: TO BE REPT TO A MINIMUM AND VIA A SINGLE ENTRY / EXIT.	OVERALL RISK LOW	SILT/DRIFT FENCE - PHASE A**	TREE PROTE	CTIVE FENCING	INLET FILTER BAG	G - PHASE B**
		1.5M STAR PICKETS AT SELF-SUPPORTING GEOTEXTILE	TREE PROTECTION/ NO-	GO FENCING	ROLLED WIRE MESH AND/OF GEOTEXTILE FILLED WIT	
WASTE			- ALL INDIGENOUS TREE	S TO TWICE THE CANOPY	25-50mm GRAVE	
ISSUES: - NATURE OF WASTE TO BE GENERATED: BUILDING AND CONSTRUCTION PRODUCTS. LITTER.	LIKELIHOOD	DIRECTION OF FLOW	DISTANCE OF EACH SC	(HIGHLY VISIBLE) AROUND TWICE THE CATTERED TREE AND MORE THAN 2 M		CONCRETE BLOCK
- PRESENCE OF WASTE ON SITE PRIOR TO WORK COMMENCEMENT: EXISTING SHEDS.	LIKELY	ON SOIL, 150mm X 100mm TRENCH	FROM AREAS OF NATIV	/E VEGETATION IDENTIFIED TO BE PR	OTECTED. ROADWAY	
- POTENTIAL WASTE RECEPTORS: SURROUNDING RESIDENTS. - PROXIMITY TO POTENTIAL WASTE RECEPTORS: ADJACENT RESIDENTS		WITH COMPACTED BACKFILL AND ON ROCK, SET INTO SURFACE CONCI	RETE	Sam		
- THE RESIDENTS AT CRESSY WAY & EMINENCE DRIVE LIVE < 100M FROM THE SITE	CONSEQUENCE MAJOR	SECTION DETAIL				
				$\sim$		
	OVERALL RISK					
	LOW	1.5m STAR PICKETS AT MAX				
CHEMICALS			$\leq$			
ISSUES: - TYPES OF CHEMICALS AND FUELS USED AND/OR STORED ON SITE: REFER TO MATERIAL SAFETY DATA SHEET (MSDS)	LIKELIHOOD	Ψ ŬNDISŤURBĖĎ AREĂ Ψ Ψ Ψ			$\sim$	
- QUANTITIES OF CHEMICALS AND FUELS USED AND/OR STORED ON SITE: REFER TO MATERIAL SAFETY DATA SHEET (MSDS)	LIKELY				$\leq$	
POTENTIAL CHEMICAL RECEPTORS: SURROUNDING RESIDENTS / CONTRACTORS / WATERWAYS     PROXIMITY TO POTENTIAL CHEMICAL RECEPTORS: 200 METRES		20m MAX. (UNLESS STATED OTHERWISE ON SWMP/ESCP)	3~~~			
	CONSEQUENCE MAJOR	FLOW				
	OVERALL RISK	STAR PICKETS AT MAXIMUM 2.5M SPACING'S GGH		TPZ ZONE		
	LOW	CONSTRUCTION NOTES: PLAN				
SIGNIFICANT FLORA/FAUNA		<ol> <li>CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO</li> </ol>	DLIMIT THE			
SIGNIFICANT FLORA/FAUNA ISSUES: - TYPES OF FLORA/ FAUNA: NIL	LIKELIHOOD	CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND	ENOUGH			
- VULNERABILITY OF FLORA/ FAUNA: N/A.	LIKELY	DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT. 2. CUT A 150MM DEEP TRENCH ALONG THE UPSIDE LINE OF THE FENCE FOR THE BOTTO		H PANELS WITH SHADE CLOTH (IF REG	QUIRED) ATTACHED, HELD IN PLACE WITH	
- PROXIMITY OF FLORA/FAUNA TO WORKS: N/A. - WORK ACTIVITIES WHICH MAY THREATEN FLORA/ FAUNA: N/A.		FABRIC TO BE ENTRENCHED.	CONCRETE FEET. 2. ALTERNATIVE PLY	YWOOD OR WOODEN PALING FENCE F	PANELS. THIS FENCING MATERIAL ALSO	
- POTENTIAL IMPACTS ON FLORA/ FAUNA: N/A.	CONSEQUENCE MAJOR	<ol> <li>DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH S CAPS</li> </ol>	SAFETY 3. MULCH INSTALLA	· · · · · · · · · · · · · · · · · · ·	HE DISCRETION OF THE PROJECT ARBORIST).	
- REFER TO 0697-06-81, ITEM No.29 FOR DETAILS.		4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING	G IT GOES OF MATERIALS OF	FANY KIND IS PERMITTED WITHIN THE		
	OVERALL RISK	TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMM THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIME	ENDED DI	NISSIDLE WITHIN THE TPZ. INSTALLAT	ON OF SUPPORTS SHOULD AVOID DAMAGING	
	LOW	<ul><li>FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.</li><li>5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150MM OVERLAP.</li></ul>				
		6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGH	HLY OVER	07/177 1001/70 1		
ARCHAEOLOGICAL/HERITAGE  ISSUES: - TRADITIONAL LAND OWNERS CONSULTED? YES		OTHER ISSUES 1 THE GEOTEXTILE. SSUES: ALL CONTRACTORS TO IMPLEMENT AND ADHERE TO THE GUIDELINES AS DESCRIBED WITHIN THIS EMP. PLEASE REFER TO ALL ASSOCIATED DOCUMENTS AND		OTHER ISSUES 2		LIKELIHOOD
- SURVEY OR ASSESSMENT CONDUCTED? YES	LIKELY	DETAILED DESIGN DRAWINGS FOR EXACT LOCATION OF ELEMENTS.	LIKEL			LIKELY
- PROBABILITY OF ENCOUNTERING ARCHAEOLOGICAL/ HERITAGE ITEMS DURING WORKS: LOW		ALL CONTRACTORS TO IMPLEMENT, MONITOR AND REVIEW ENVIRONMENTAL PROTECTIVE MEASURES ON A STAGE BY STAGE BASIS.				
- TYPES OF ARCHAEOLOGICAL/ HERITAGE ITEMS ON SITE: NIL - PROXIMITY OF ARCHAEOLOGICAL/ HERITAGE ITEMS TO WORKS ON SITE: NA	CONSEQUENCE MAJOR		<u>CONSEQU</u> MAJO			CONSEQUENCE MAJOR
- WORK ACTIVITIES WHICH MAY THREATEN ARCHAEOLOGICAL/ HERITAGE ITEMS: NIL						
- REFER TO 0697-06-81, ITEM No.30 FOR DETAILS.	OVERALL RISK		OVERALL	RISK		OVERALL RISK
	LOW		LOW			LOW
AS CONSTRUCTED PLANS		HNanagement to horagement to have antal Management.				Olivine Estate - Stage 22
The purpose of these as-constructed plans is to update the constructed plans is to update the construction.	design drawings to show	duality BHO SHO SHO SHO SHO SHO		SMEC		Whittlesea City Council Road and Drainage
significant changes which occurred during construction. Note that plans are design levels, and have not been verified by survey.	All information shown on these	Global-Mark.com.au <sup>®</sup> Global-Mark.com.au <sup>®</sup> Global-Mark.com.au <sup>®</sup>	Member of t	the Surbana Jurong Group		Environmental Management Plan
these plans should be verified on site. SMEC Australia Pty Ltd	accept no responsibility for		Collins Square	ABN 47 065 475 149 e, Tower 4, Level 20, 727 Collins St		Details
loss or damages resulting from the inappropriate usage	ge of these plans.	AS CONSTRUCTED SCALE AS SHOWN AT A1	Melbo	ourne, VIC, 3008, Australia 03 9514 1500		ELWAYS REF PROJECT / DRAWING NO. 8HEET NO. 42 of 43 1

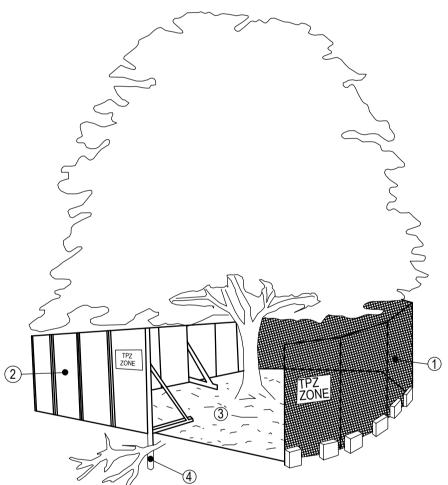
DWG PATH: V:\\_Vault\Projects\_Urban\1700E-Olivine\1700E-22\Dwgs\1700E-022-456.dwg PRINTED BY: LC20143 on 10/02/2023 at 05:20:21 PM

ONMENTAL MANAGEMENT PLAN AND AGREE TO UNDERTAKE	DEVELOPER Mirvac			CONSULTANT SMEC - URBAN DE	VELOPMENT
ACTORS UNDERTAKE WORKS IN ACCORDANCE WITH THIS PLAN.	Level 5, Building Q3, 6	S Riverside Quay		COLLINS SQUARE,	, TOWER 4, LEVEL 20
	Southbank VIC 3006			727 COLLINS ST, M	IELBOURNE, VIC, 3008
AL PROTECTION MEASURES SHALL BE	NAME: Chris Kiparoglou	SIGNED:	DATE:	NAME: Shankar Tisseverasinghe	SIGNED:
	0466 941 870			0434 581 518	
CORDANCE WITH THE FOLLOWING DESIGNS.	chris.kiparoglou@mirvac.com			shankar.tisseverasinghe@sm	nec.com









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

PHASEDRoad Furniture / RoadsidConstructionRDConstructionRD		NE CODE		ENTIAL RISK			POTENTIAL ELIMINATION MEASURE, DESIGN		IS THE RISK	RESIDUAL	RESIDUAL RISK	RESIDUAL	
Road Furniture / Roadsid       Construction     RD	ide Feature	NE CODE		ENTIAL RIOR		POTENTIAL	TOTENTIAL ELIMINATION MEASURE, DEOIGN						RESIDUAL
Construction RD				Dperations, Maintenance)	RISK OWNER	CONSEQUENCES	INITIATIVE or CONTROL	HOW ISSUE ADDRESED IN DESIGN AND/OR CONSTRUCTION OF THE WORKS	ELIMINATED?	<u>RISK</u> LIKELIHOOD	CONSEQUENCE	RISK	RISK OWNER
Construction RD							(Identify any Standard or Code of practice used)		YES / NO	(0-5)	(0-5)	RATING	
	n	es										I I	
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	Ν	5	3	15	Constructor
	D	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	Ν	2	5	10	Constructor
Construction US	S Utilitie	ies 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	Ν	1	5	5	Constructor
Operational RD	D	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	Ν	1	4	4	Road Authority
Operational LS	S Line	es 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	Ν	1	4	4	Road Authority
Operational RF	F Roa	ad 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	Ν	2	4	8	Road Authority
Operational RD	D	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)	Ν	2	5	10	Constructor
Retaining Walls												I	
Construction RW	W Reta	taining 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	Ν	1	1	1	Constructor
Operational RW	W Reta	taining 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	Ν	1	1	1	Authority
Operational RW	W Reta	taining 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	Ν	1	5	5	Authority
Operational RW	W Reta	taining 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	Ν	1	5	5	Authority
Drainage													
Operational DR	R C	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	R C	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	Ν	1	4	4	Authority
Operational DR	R C	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	Ν	1	4	4	Authority
Operational DR	R C	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	Ν	2	5	10	Authority
Maintenance DR	R C	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	Ν	2	5	10	Authority
Maintenance DR	R C	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	Ν	1	5	5	Authority
Maintenance DR	R C	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	Ν	2	3	6	
Sewer													
Construction SE	E	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	Ν	1	1	1	Constructor
Maintenance SE	E	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	Ν	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	Ν	1	5	5	Authority
Maintenance SE	E	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							1	Pits designed below ground. Where above ground adequate offset					
Operational ES	S Electr	trical 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	from vehicle clear zones has been provided or barrier protection provided	Ν	2	3	6	Authority
Telstra	·												
Operational TE	E	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	Ν	2	3	6	Authority
Water													
Operational WA	'A	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	Ν	2	3	6	Authority
Gas													
Operational GA	A	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

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.



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SCALE AS SHOWN AT A1

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# Olivine Estate - Stage 22 Whittlesea City Council Road and Drainage Safety In Design

MELWAYS REF PROJECT / DRAWING No. 1700E-022-500

SHEET NO. REVISION 43 of 43 1