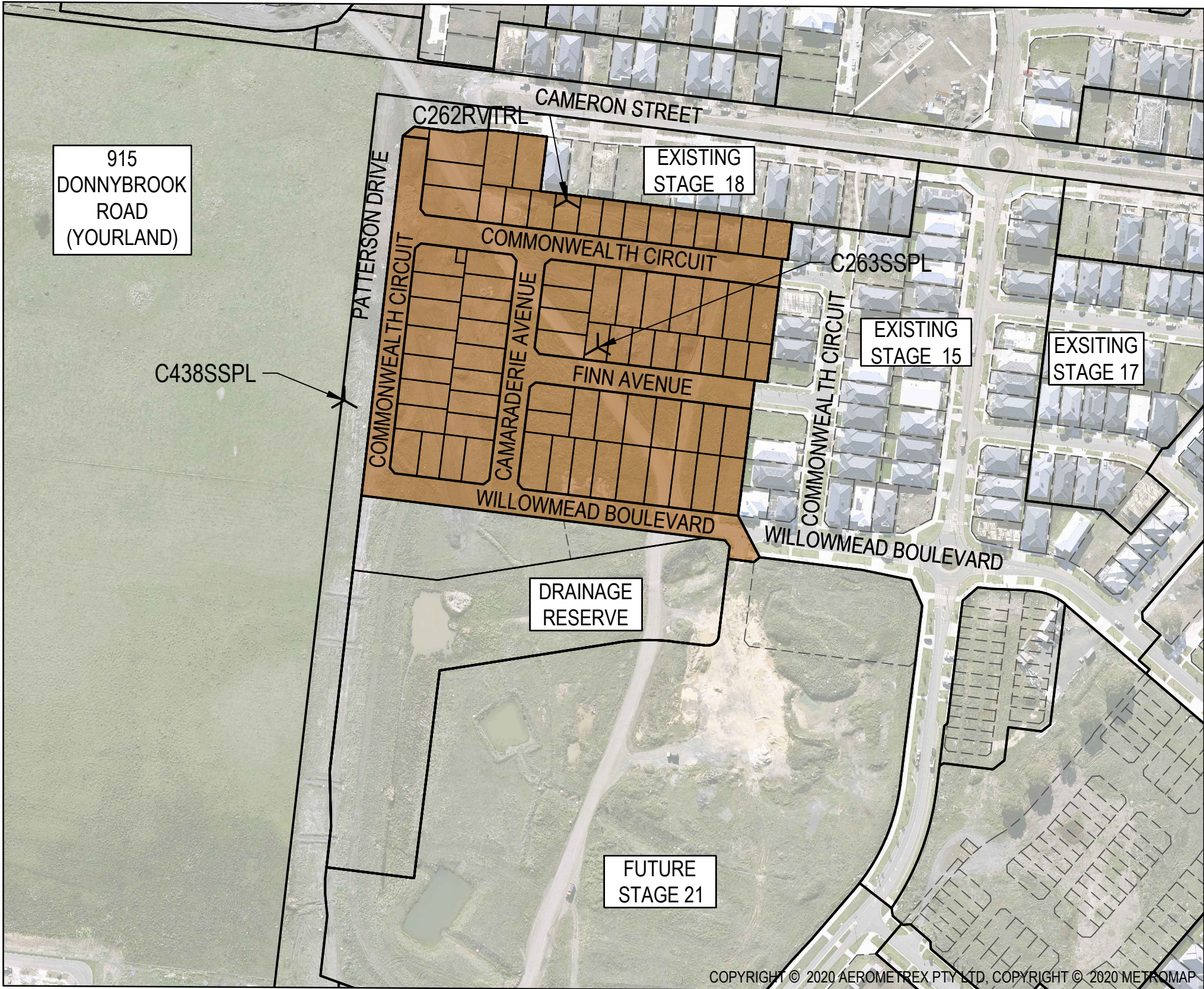


Olivine Estate

Stage 16

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 SURVEILLANCE COORDINATOR OR HIS REPRESENTATIVE.
- THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION. THEY SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.
- THE CONTRACTOR SHALL
 - COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982.
 - NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF THEIR INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
 - ENSURE THAT THE MINE MANAGER OR THEIR DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
- THE CONTRACTOR IS TO NOTIFY COUNCIL'S SENIOR SURVEILLANCE ENGINEER AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 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.
- 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.
- ANY EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE COUNCIL REPRESENTATIVE.
- 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.
- APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.
- 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.
- ALL TREES AND SHRUBS TO BE RETAINED UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT AUTHORITY BECAUSE ROAD CONSTRUCTION NECESSITATES THEIR REMOVAL, OR REMOVAL IS DIRECTED BY THE AUTHORISED ENGINEER. TREES TO BE REMOVED ARE TO BE SUITABLY LABELLED. WHEN IT IS PROPOSED TO REMOVE EXISTING TREES IN ROAD RESERVES OR COUNCIL RESERVES, CONSULTATION IS TO OCCUR WITH COUNCIL'S PARKS AND GARDENS DEPARTMENT.
- VICROADS ROADWORK SIGNING CODE OF PRACTICE WHICH COMPLIES WITH THE AUSTRALIAN STANDARD 1742.3:2002 IS TO BE ADHERED TO DURING THE CONSTRUCTION WORKS.
- 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 EDMC 303.
- ALL EARTHWORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S EARTHWORK SPECIFICATION AND THE EARTHWORKS SECTION OF SMEC'S CONTRACT SPECIFICATION.
- BATTERS INTO ALLOTMENTS SHALL NOT BE STEEPER THAN 1 IN 6 UNLESS NOTED OTHERWISE.
- ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVE AND NATURESTRIPS TO BE STRIPPED OF TOPSOIL AND STOCKPILED PRIOR TO EARTHWORK COMMENCING.
- NO FILLING OR STOCKPIILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE UNLESS DIRECTED BY THE SUPERINTENDENT.
- NO TOPSOIL TO BE REMOVED FROM SITE UNLESS OTHERWISE APPROVED.
- LOTS SHALL BE EVENLY GRADED TO ENSURE MINIMUM LOT FALLS AS SPECIFIED ON DRAWINGS ARE ACHIEVED.
- 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.
- ALL PITS GRATER THAN OR EQUAL TO 1000mm DEPTH TO BE PROVIDED WITH STEP IRONS IN ACCORDANCE WITH EDMC 609.
- 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.
- OFFSETS TO DRAINAGE IN EASEMENTS AS SHOWN ARE TO THE CENTRELINE OF THE DRAIN.
- AG DRAINS TO BE PROVIDED BEHIND ALL KERBS AND SHALL HAVE SUITABLE OUTLET. CONSTRUCTION TO BE IN ACCORDANCE WITH EDMC 605-608.
- HOUSE DRAINS ARE TO BE CONNECTED DIRECT TO UNDERGROUND DRAIN UNLESS NOTED OTHERWISE.
- PROPERTY INLET PITS AS PER EDMC 701-704.
- DRIVEWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCILS STANDARDS AND CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TREES.
- FOOTPATHS ARE TO BE OFFSET 50mm FROM THE BUILDING LINE.
- 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 WEARINO COURSE. FINAL LINEMARKING TO BE LONG LIFE ROAD MARKING WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.
- 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.
- 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.
- FOOTPATHS ARE TO BE CONTINUOUSLY REINFORCED CONCRETE IN ACCORDANCE WITH EDMC 403 UNLESS OTHERWISE SPECIFIED.
- 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.



TBM SETOUT TABLE				
POINT	EAST	NORTHING	ELEVATION	DESCRIPTION
C263SSPL	322851.14	5844238.37	242.38	STAR PICKET
C438SSPL	322709.93	5844208.85	239.97	STAR PICKET
C262RVTRL	322833.70	5844320.41	248.07	RIVET

SERVICES OFFSET SCHEDULE							
ROAD NAME	GAS	RECYCLED WATER	WATER	ELECTRICITY	OPTIC FIBRE	PUBLIC LIGHTING *	TREES**
	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)
WILLOWMEAD BOULEVARD	2.10 N	2.60 N	3.10 N	1.05 S	0.35 S	1.1 S BOK	1.3 BOK
COMMONWEALTH CIRCUIT (ADJ PATTERSON DR)	2.10E	2.55 E	3.05 E	1.05 W	0.35 W	1.1 W BOK	1.3 BOK / 1.0 BOK
COMMONWEALTH CIRCUIT	2.10 N	2.60 N	3.10 N	2.55 S	1.85 S	1.1 S BOK	1.3 BOK
CAMARADERIE AVENUE	2.10 W	2.55 W	3.05 W	2.55 E	1.85 E	1.1 E BOK	1.3 BOK
FINN AVENUE	2.10 S	2.60 S	3.10 S	2.55 N	1.85 N	1.1 N BOK	1.3 BOK
EDENMORE MEWS	1.80 E	2.20 E	2.70 E	1.05 W	0.35W	-	1.0 LOK

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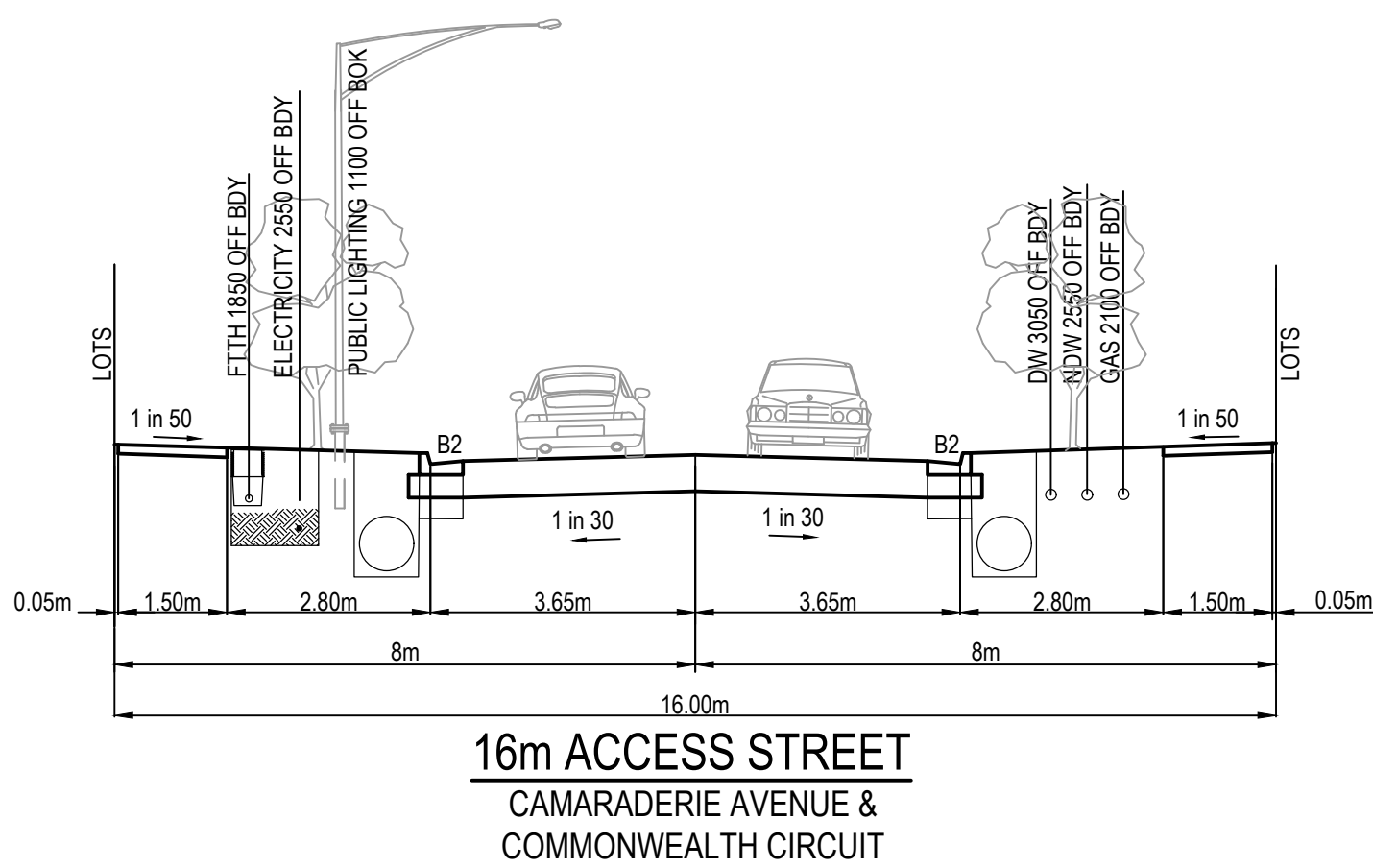
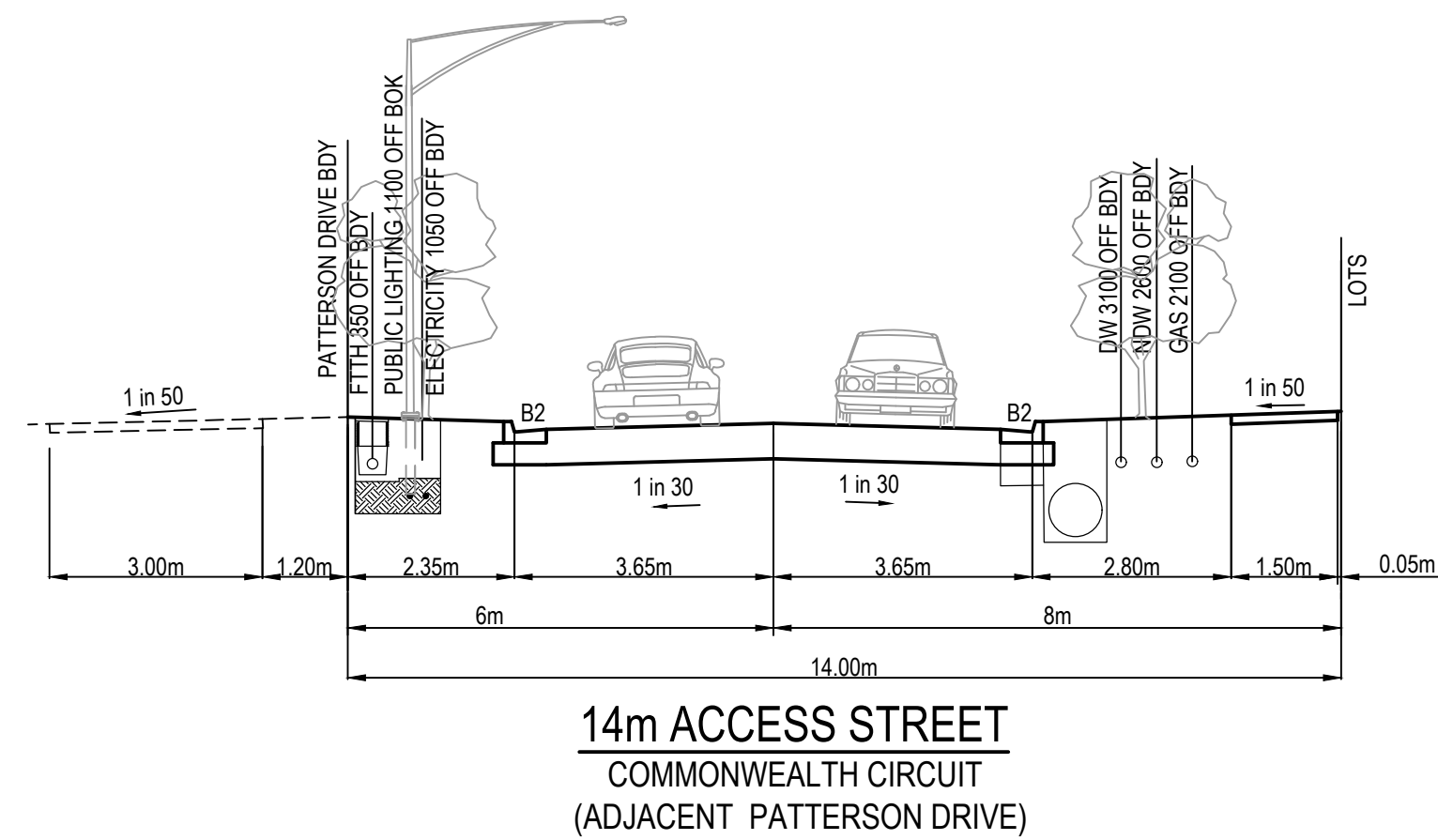
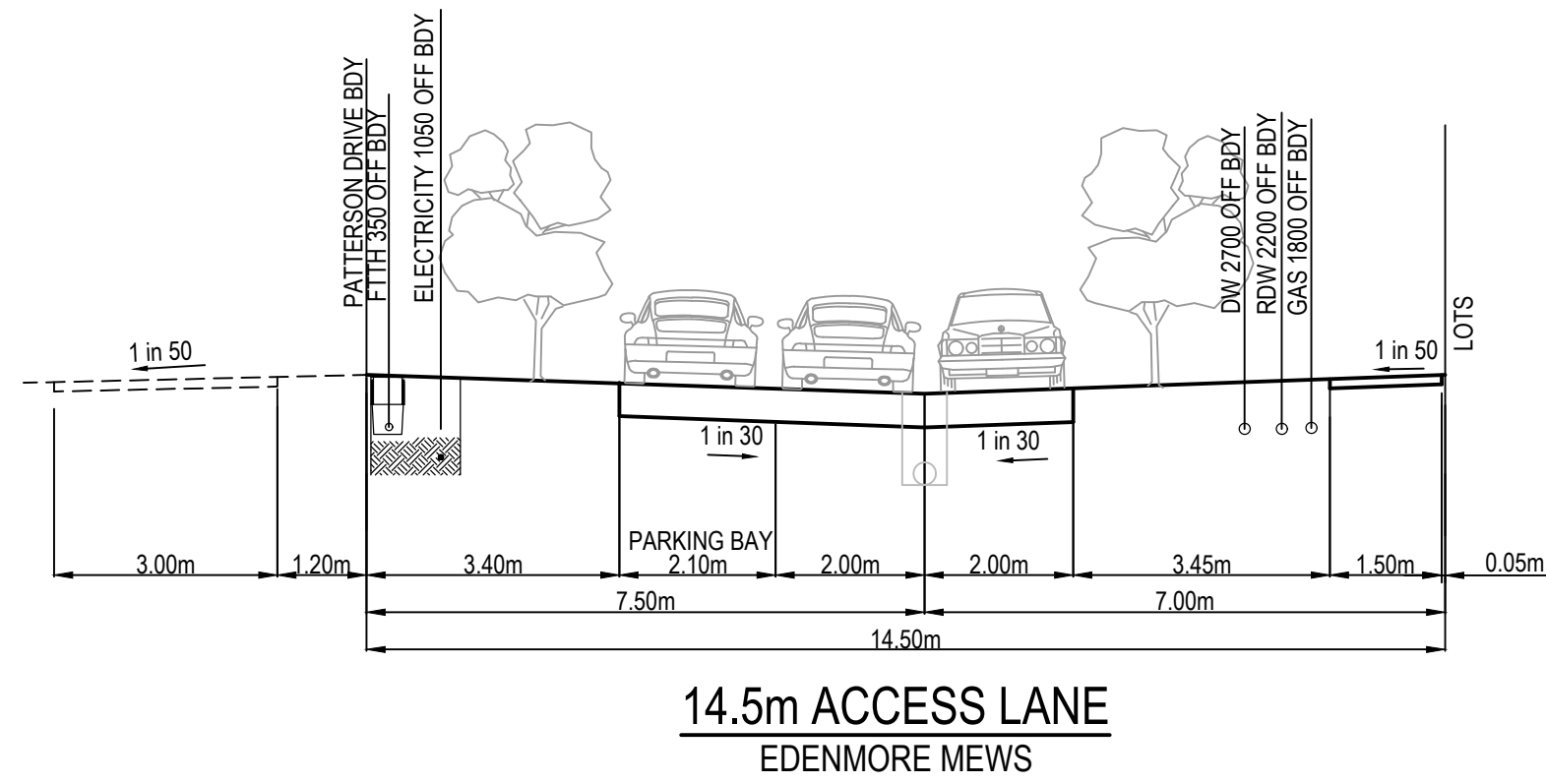
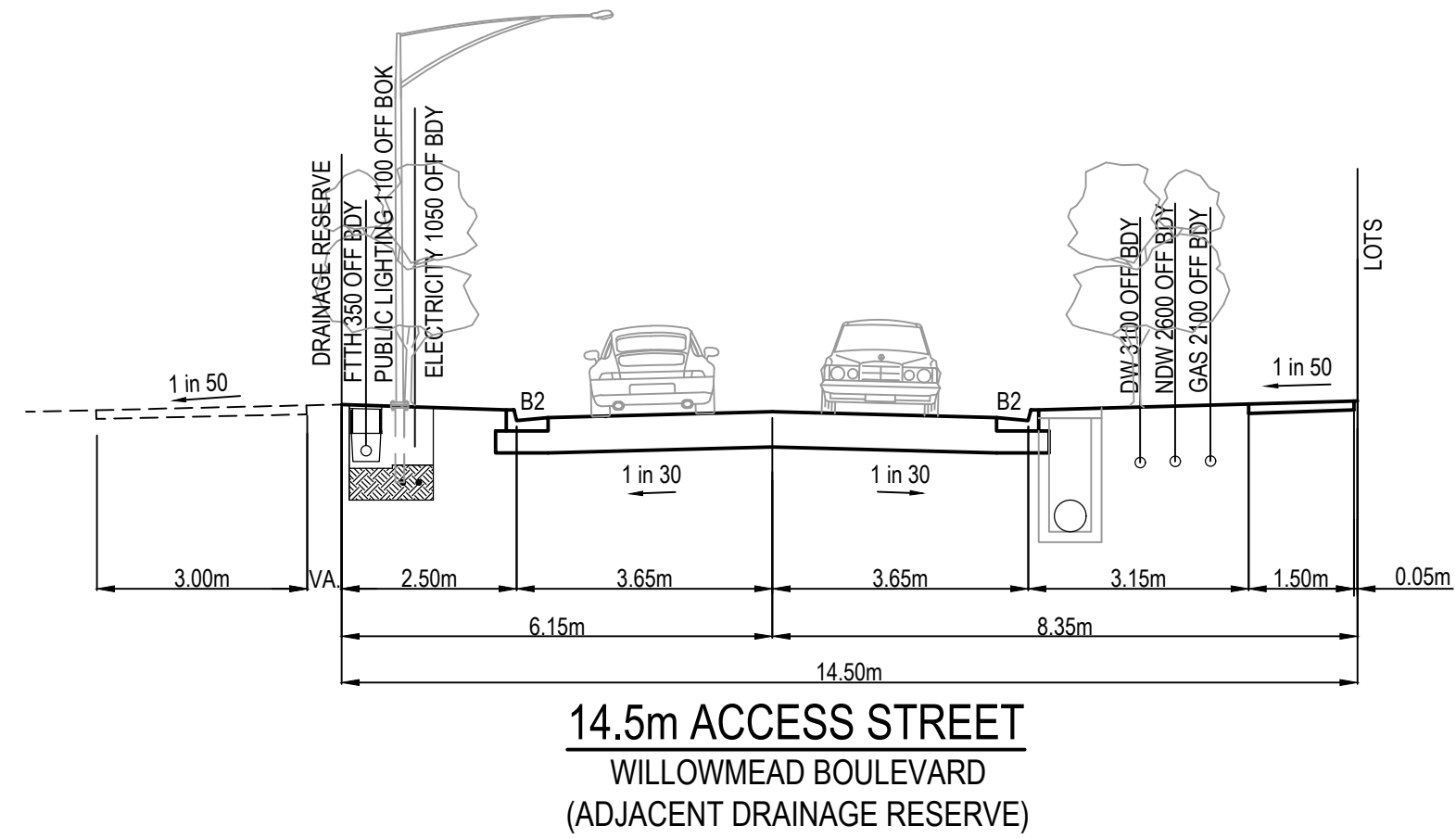
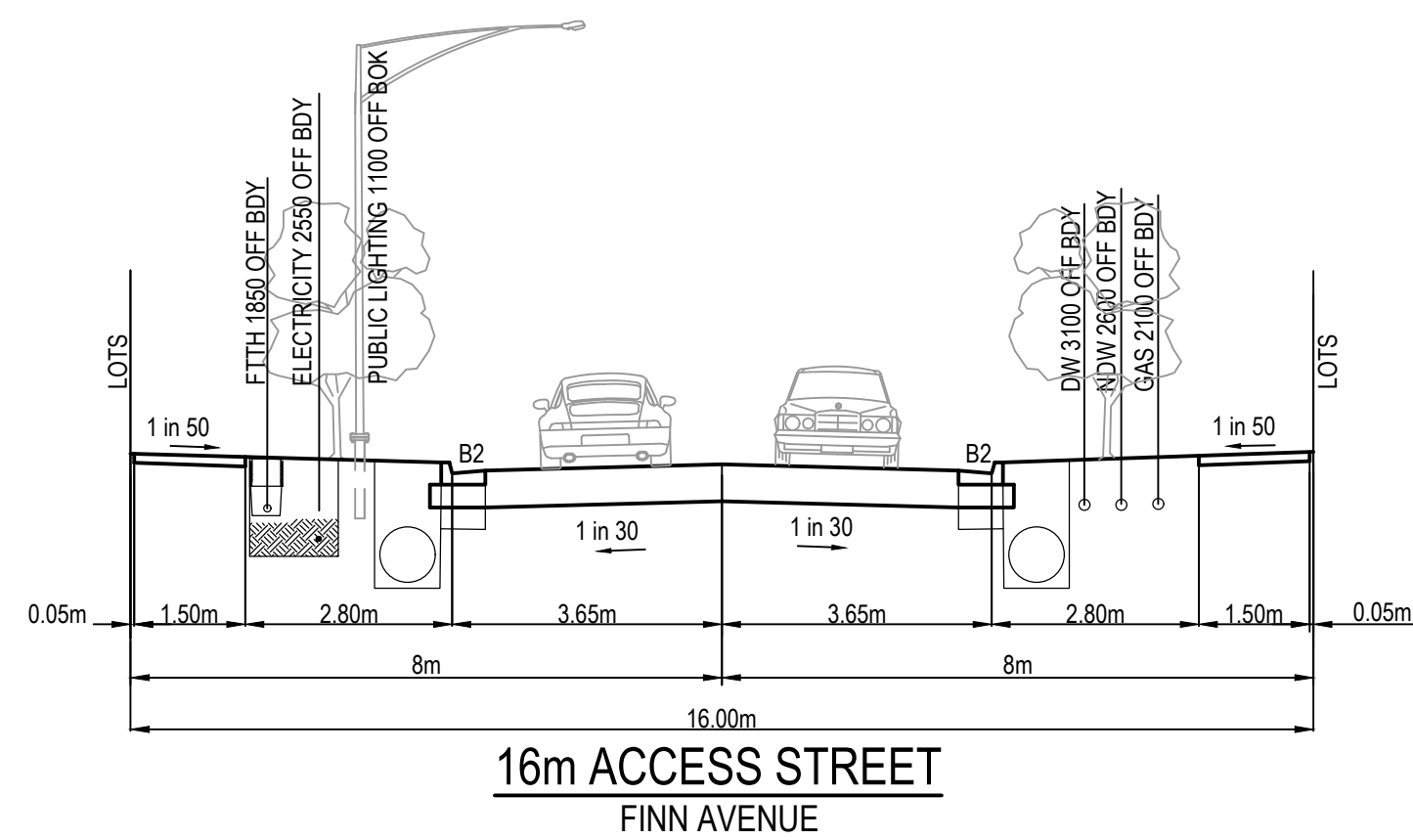
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STRUCTURAL FILL REQUIRED UNDER
PAVEMENT AND FOOTPATHS WHERE
CONSTRUCTED ABOVE EXISTING SURFACE



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	Global-Management-ISO 9001	Global-Management-AS/NZS 18001	Global-Management-ISO 14001	PLAN OF SUB. NO.	PERMIT REF. NO.	SCALE AS SHOWN AT A1	Member of the Surbana Jurong Group	mirvac	MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
A	17.09.24	ISSUED TO COUNCIL FOR APPROVAL	C.PIERRE	C.PIERRE	T.MOTET	A.BURROWS	Global-Mark.com.au®	Global-Mark.com.au®	Global-Mark.com.au®	PS21784A			Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC, 3008, Australia 03 9514 1500		367 G11	1700E-016-112	03 of 31	B
B	03.12.24	ACCESS LANE & ACCESS STREET CROSS SECTIONS UPDATED	C.PIERRE	C.PIERRE	T.MOTET	A.BURROWS												



LEGEND - EARTHWORKS PLAN	
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	ELECTRICITY (U.GROUND)
	ELECTRICITY (O.HEAD)
	GAS
	TELSTRA
	OPTIC FIBRE
	WATER
	RECYCLE WATER
	AG DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING HOUSE DRAIN
	EXISTING ELECTRICITY (UNDER GROUND)
	EXISTING ELECTRICITY OVERHEAD
	EXISTING GAS
	EXISTING TELSTRA
	EXISTING OPTIC FIBRE
	EXISTING WATER
	EXISTING RECYCLED WATER
	EXISTING AG DRAIN
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE ELECTRICITY (UNDER GROUND)
	FUTURE ELECTRICITY OVERHEAD
	FUTURE GAS
	FUTURE TELSTRA
	FUTURE OPTIC FIBRE
	FUTURE WATER
	FUTURE RECYCLED WATER
	FUTURE AG DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	ZERO LOT LINES
	141.34 EXISTING SURFACE LEVEL
	FS140.35 FINISHED BUILDING LINE LEVEL
	FR157.40 FINISHED RIDGE LINE LEVEL
	CH270.00 CHAINAGE
	TW159.00 TOP OF RETAINING WALL LEVEL
	BW159.00 BOTTOM OF RETAINING WALL LEVEL
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	STRUCTURAL FILL > 200mm DEEP
	CUT > 200mm DEEP
	DIRECTION OF FALL
	OVERLAND FLOW
	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
	EDGE STRIP, SUBSOIL DRAIN, 'NO ROAD' SIGN & BARRIER
	EXISTING TREE TO BE RETAINED
	EXISTING TREE TO BE REMOVED
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING

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



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	PLAN OF SUB. NO.	SCALE AS SHOWN AT A1	N	SMEC Member of the Surlana Jurong Group ABN 47 065 475 149 Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC, 3008, Australia 03 9514 1500	mirvac	Olivine Estate - Stage 16 Whittlesea City Council Road and Drainage Earthworks & Retaining Wall Setout Plan	MELWAYS REF 367 G11	PROJECT / DRAWING No. 1700E-016-131	SHEET No. 04 of 31	REVISION B	
A	17.09.24	ISSUED TO COUNCIL FOR APPROVAL	C.PIERRE	C.PIERRE	T.MOTET	A.BURROWS	PS921784A										
B	03.12.24	EARTHWORK PLAN UPDATED AS PER COUNCIL COMMENTS	C.PIERRE	C.PIERRE	T.MOTET	A.BURROWS	PERMIT REF. NO.										
								SUBJECT TO APPROVAL									

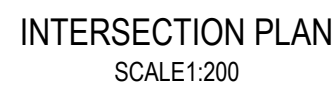
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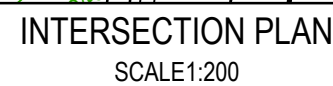
WARNING
BEWARE OF UNDERGROUND SERVICES
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
DIAL 1100 BEFORE YOU DIG
www.1100.com.au

- NOTES**
- 1. 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPMS AT MAX 6m SPACING.
 - 2. RRPMS TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL MANUAL VOL 2.
 - 3. ALL LINEMARKING & SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	<div>Quality Management ISO 9001</div> <div>Global-Mark.com.au®</div> <div>Quality Management AS/NZS 9001</div> <div>Global-Mark.com.au®</div> <div>Environmental Management ISO 14001</div> <div>Global-Mark.com.au®</div>			PLAN OF SUB. NO.	<div>0 5 10 20</div> <div>Scale 1:500</div>	<div>N</div>	<div>SMEC Member of the Surbana Jurong Group ABN 47 065 475 149 Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC, 3008, Australia 03 9514 1500</div>	<div></div>	Olivine Estate - Stage 16 Whittlesea City Council Road and Drainage Signage & Linemarking Plan			
A	17.09.24	ISSUED TO COUNCIL FOR APPROVAL	C.PIERRE	C.PIERRE	T.MOTET	A.BURROWS				PS921784A								
B	03.12.24	LINE-MARKING FOR EDENMORE MEWS PARKING BAYS ADDED	C.PIERRE	C.PIERRE	T.MOTET	A.BURROWS				PERMIT REF. NO. 717158								
<div>SUBJECT TO APPROVAL</div>																		
SCALE AS SHOWN AT A1																		

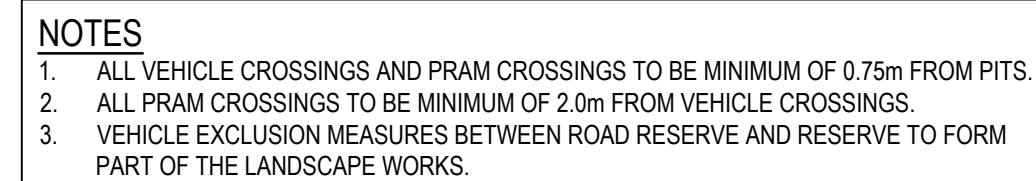
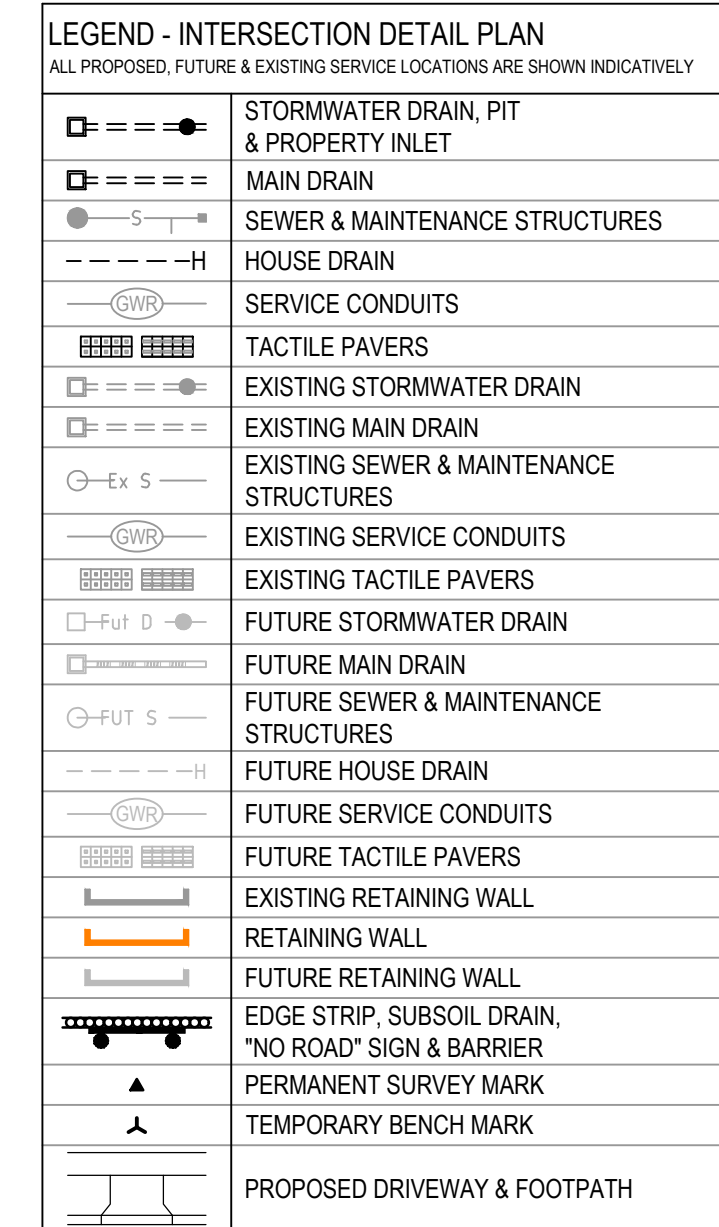








LEGEND - INTERSECTION DETAIL PLAN	
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH

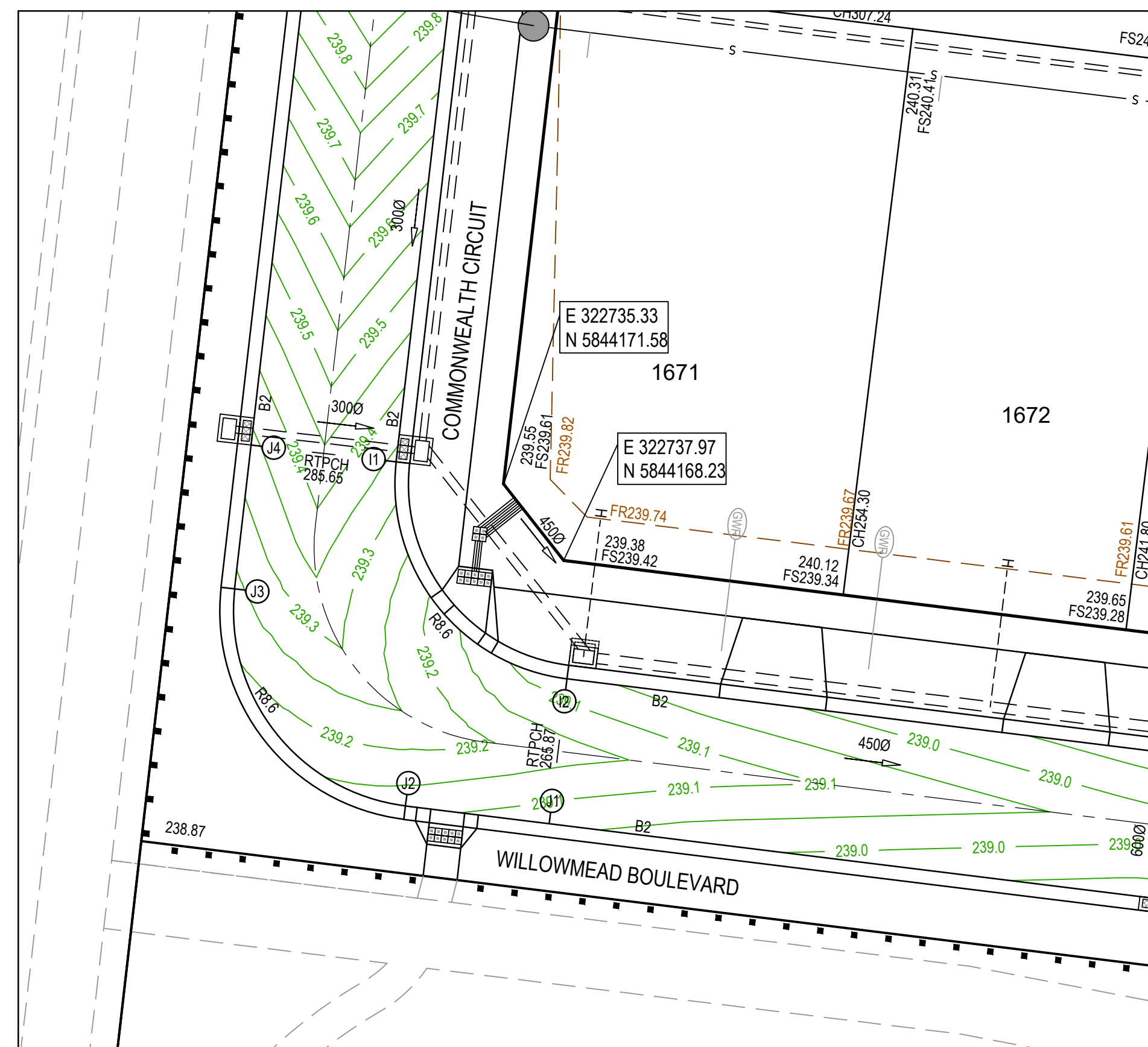


- | NOTES | |
|-------|--|
| 1. | ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS. |
| 2. | ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS. |
| 3. | VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS. |

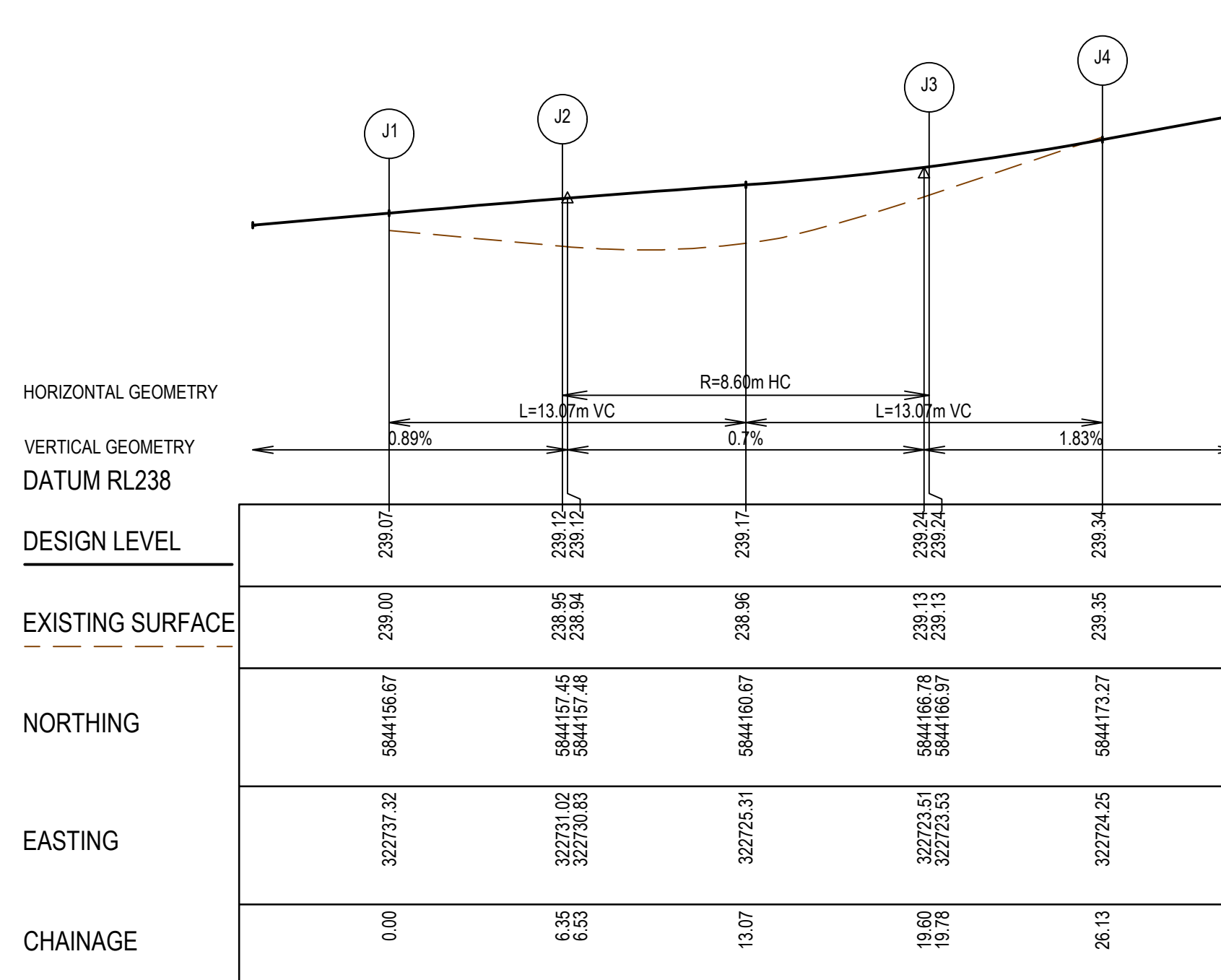
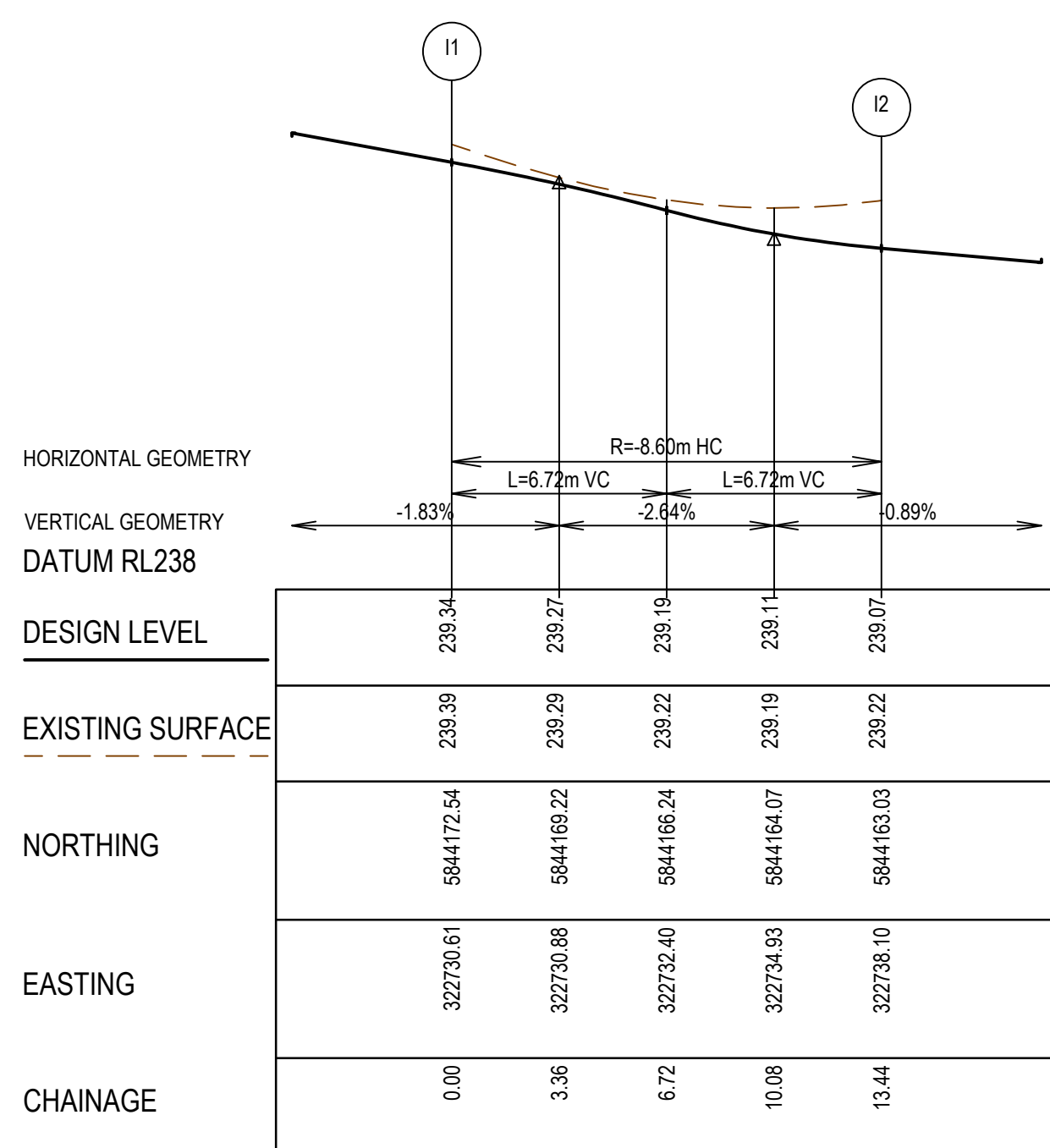
REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	<div>Quality Management ISO 9001</div> <div>Ons Management A/S1425</div> <div>Environmental Management ISO 14001</div> <div>Global-Mark.com.au®</div> <div>Global-Mark.com.au®</div> <div>Global-Mark.com.au®</div>			PLAN OF SUB. NO.	<div>0 2 4 8</div> <div>0 0.2 0.4 0.8</div> <div>Scale H1:200, V1:20</div>	<div>N</div>	<div> Member of the Surbana Jurong Group ABN 47 065 475 149 Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC, 3008, Australia 03 9514 1500</div>	<div></div>	Olive Estate - Stage 16 Whittlesea City Council Road and Drainage Intersection Detail Plan - 1			
A	17.09.24	ISSUED TO COUNCIL FOR APPROVAL	C.PIERRE	C.PIERRE	T.MOTET	A.BURROWS	<div>SUBJECT TO APPROVAL</div>			PS921784A PERMIT REF. NO. 717158	<div>0 2 4 8</div> <div>Scale 1:200</div>	SCALE AS SHOWN AT A1	<div>MELWAYS REF 367 G11</div>	<div>PROJECT / DRAWING No. 1700E-016-181</div>	<div>SHEET No. 07 of 31</div>	<div>REVISION A</div>		





REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	Quality Management - ISO 9001		OHS Management - AS/NZS 4500		Environmental Management - ISO 14001		PLAN OF SUB. NO.	0 2 4 8 0 0.2 0.4 0.8 Scale H1:200, V1:20				 Member of the Surbana Jurong Group Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC, 3008, Australia 03 9514 1500				Olivine Estate - Stage 16 Whittlesea City Council Road and Drainage Intersection Detail Plan - 2				
A	17.09.24	ISSUED TO COUNCIL FOR APPROVAL	C.PIERRE	C.PIERRE	T.MOTET	A.BURROWS				PS921784A	0 2 4 8 0 0.2 0.4 0.8 Scale 1:200												MELWAYS REF 367 G11	PROJECT / DRAWING No. 1700E-016-182	SHEET No. 08 of 31	REVISION B
B	03.12.24	LIP PROFILE E AND CORRESPONDING INTERSECTION UPDATED	C.PIERRE	C.PIERRE	T.MOTET	A.BURROWS	Global-Mark.com.au®	Global-Mark.com.au®	Global-Mark.com.au®	717158	0 2 4 8 0 0.2 0.4 0.8 Scale 1:200		SCALE AS SHOWN AT A1													
SUBJECT TO APPROVAL																										

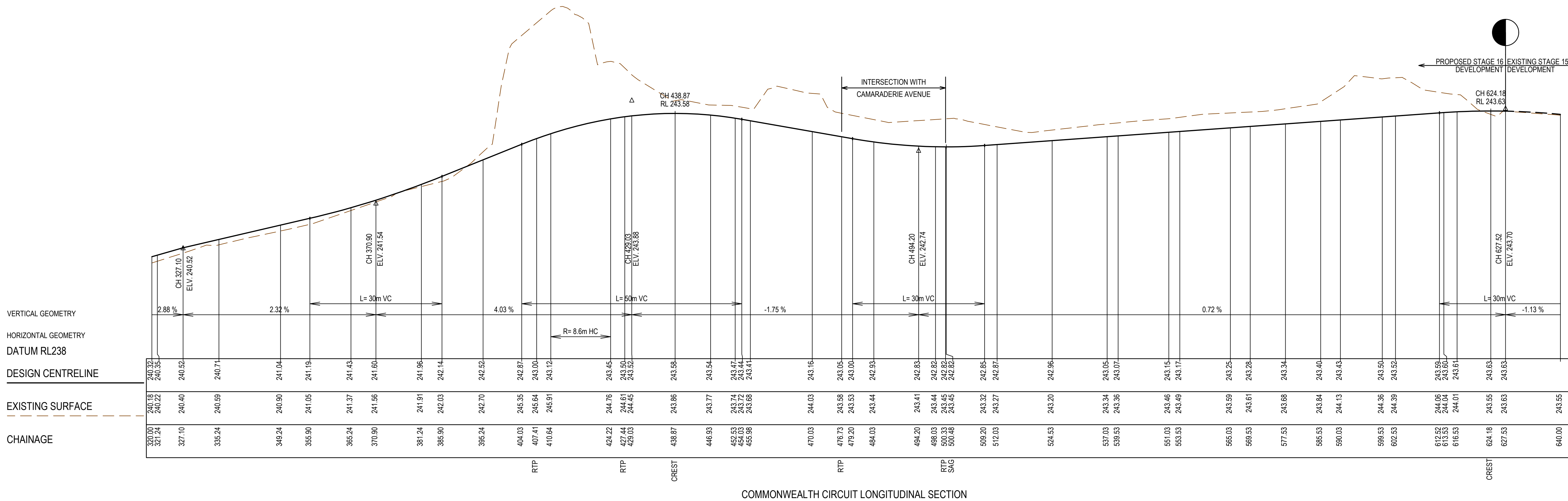
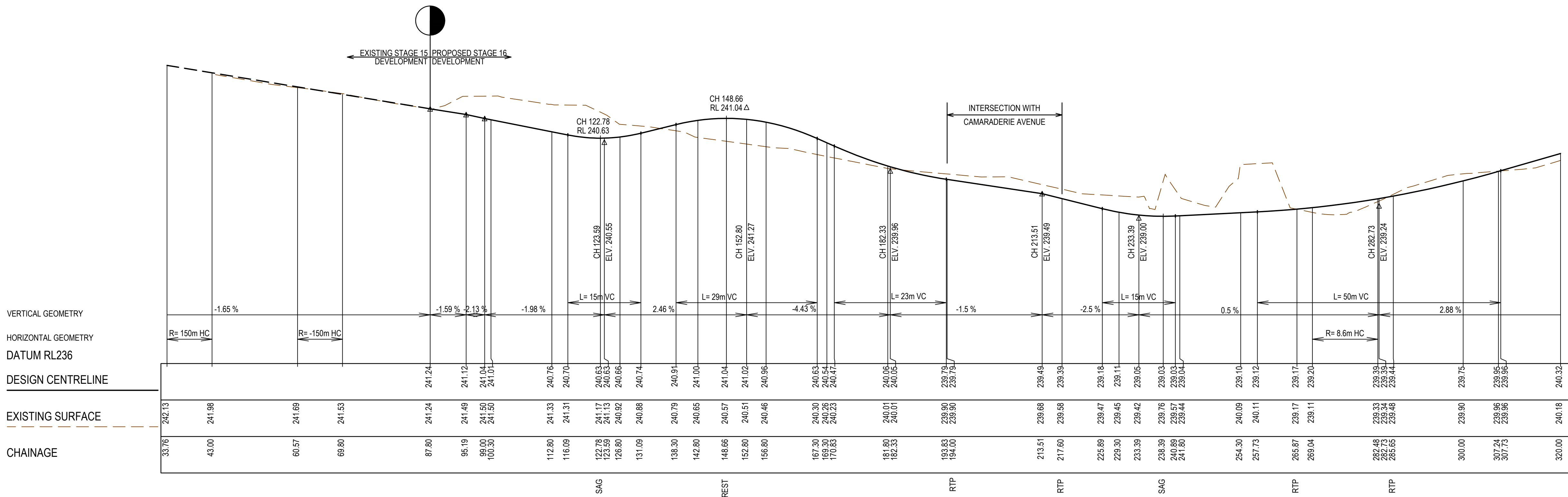


LEGEND - INTERSECTION DETAIL PLAN	
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH

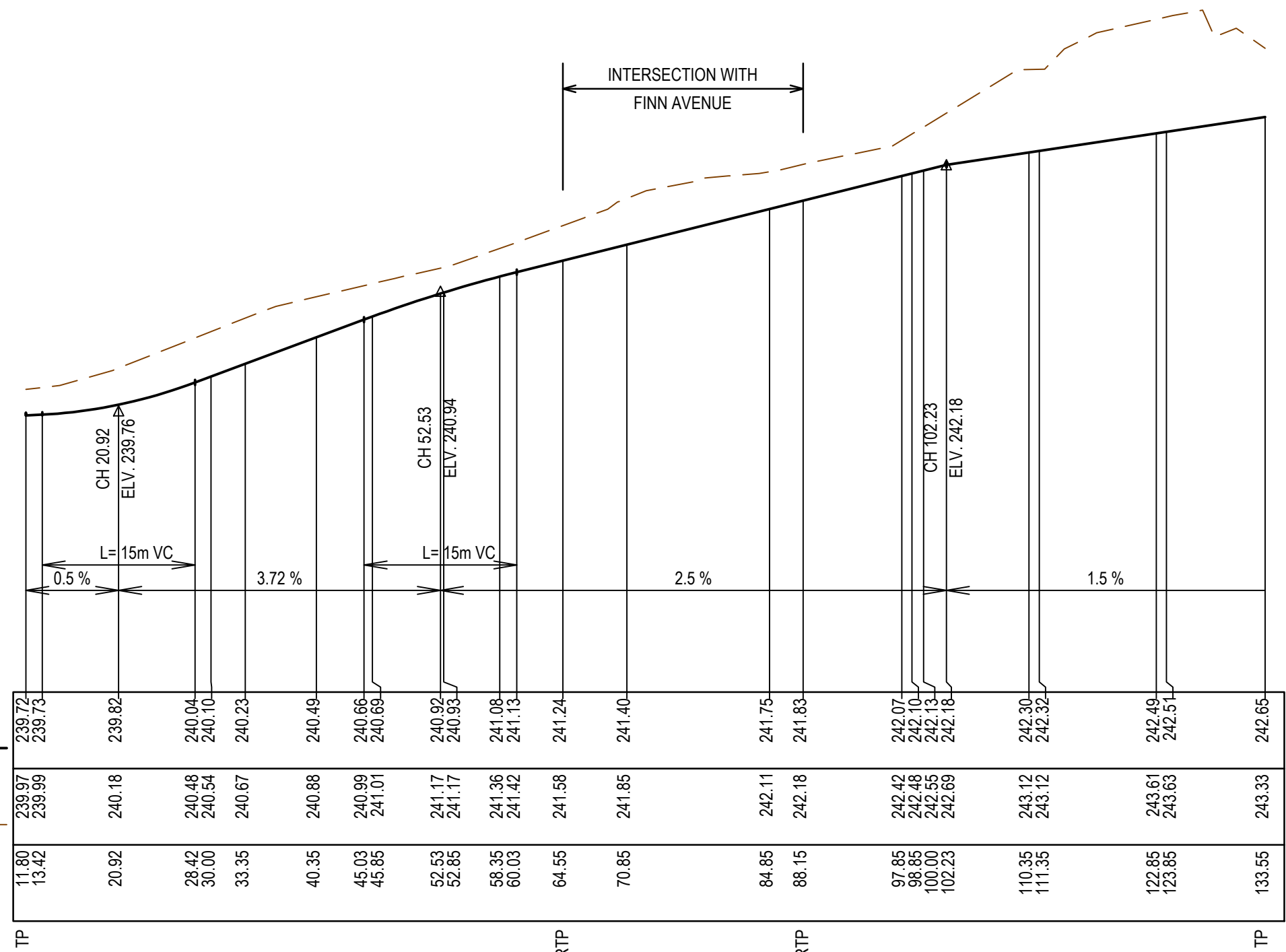


- | NOTES | |
|-------|--|
| 1. | ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITTS. |
| 2. | ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS. |
| 3. | VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS. |
| 4. | INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS PART OF LANDSCAPE WORKS. |
| 5. | SHARE PATH THROUGH CREEK CORRIDOR TO FORM PART OF LANDSCAPE WORKS. |

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	<div>Quality Management - ISO 9001</div> <div>OHS Management - AS/NZS 4801</div> <div>Environmental Management - ISO 14001</div> <div>Global-Mark.com.au®</div> <div>Global-Mark.com.au®</div> <div>Global-Mark.com.au®</div>		PLAN OF SUB. NO. PS921784A PERMIT REF. NO. 717158	<div>0 2 4 8</div> <div>0 0.2 0.4 0.8</div> <div>Scale H1:200, V1:20</div> <div>0 2 4 8</div> <div>0 2 4 8</div> <div>Scale 1:200</div>	<div>SCALE AS SHOWN AT A1</div>	<div>N</div>	<div> Member of the Surbana Jurong Group © ABN 47 065 475 149 Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC, 3008, Australia 03 9514 1500</div>	<div></div>	Olivine Estate - Stage 16 Whittlesea City Council Road and Drainage Intersection Detail Plan - 3			
MELWAYS REF		PROJECT / DRAWING No.		SHEET No.		REVISION												
367 G11		1700E-016-183		09 of 31		A												

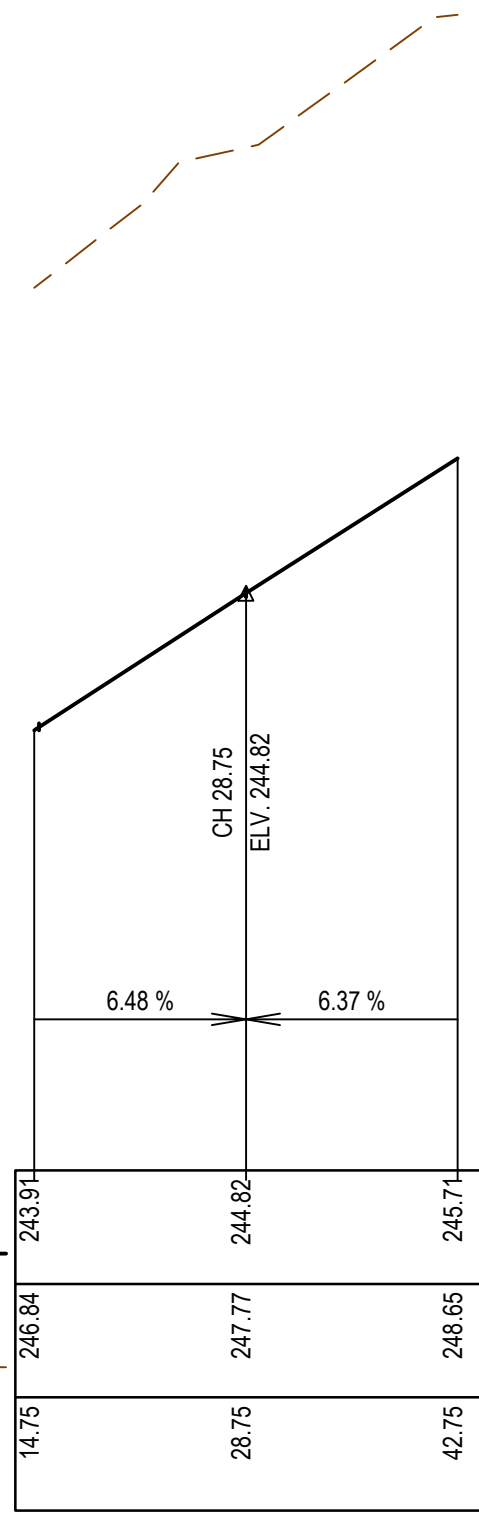


VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
DATUM RL237
DESIGN CENTRELINE
EXISTING SURFACE
CHAINAGE



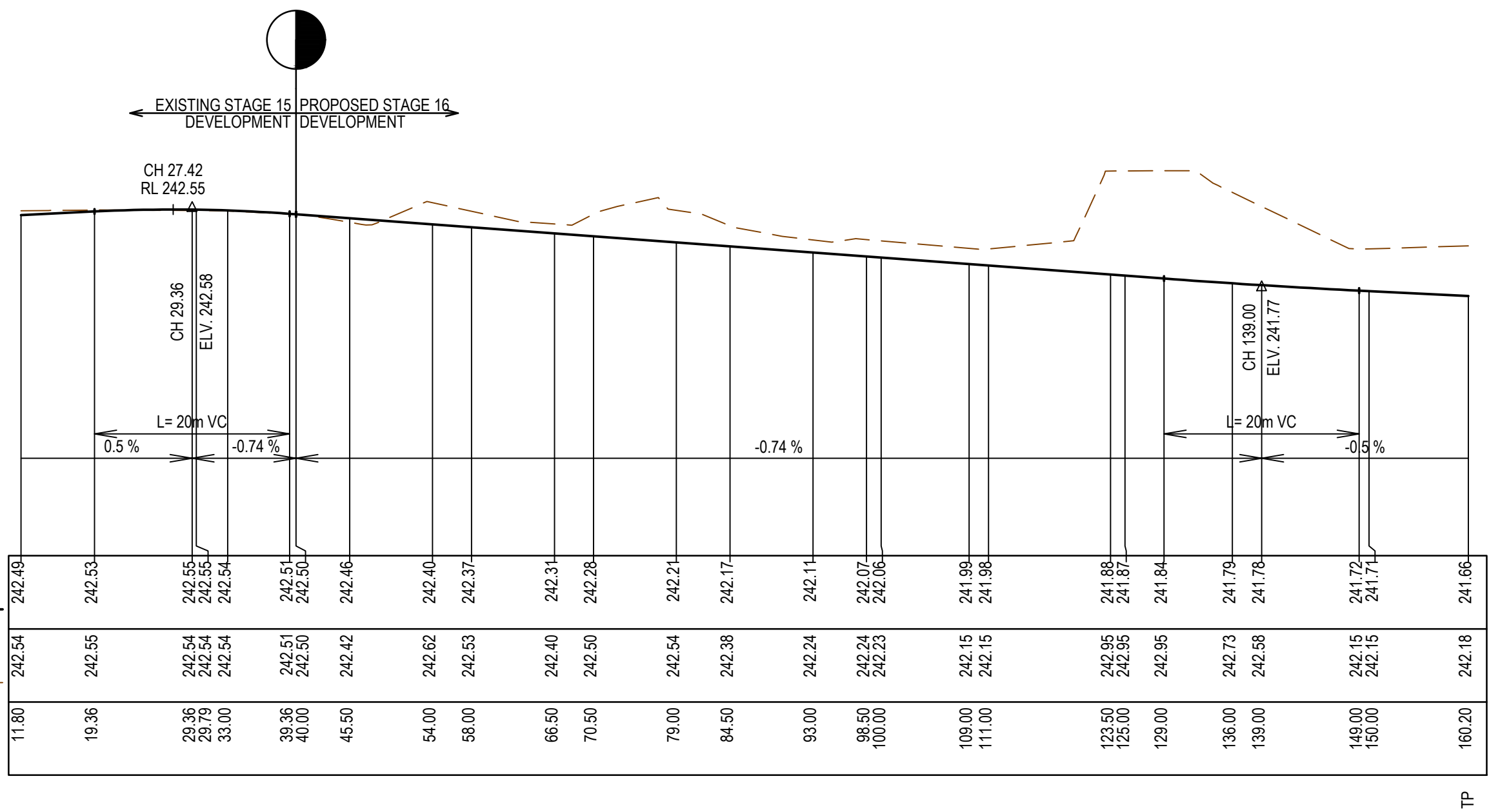
CAMARADERIE AVENUE LONGITUDINAL SECTION

VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
DATUM RL241
DESIGN CENTRELINE
EXISTING SURFACE
CHAINAGE

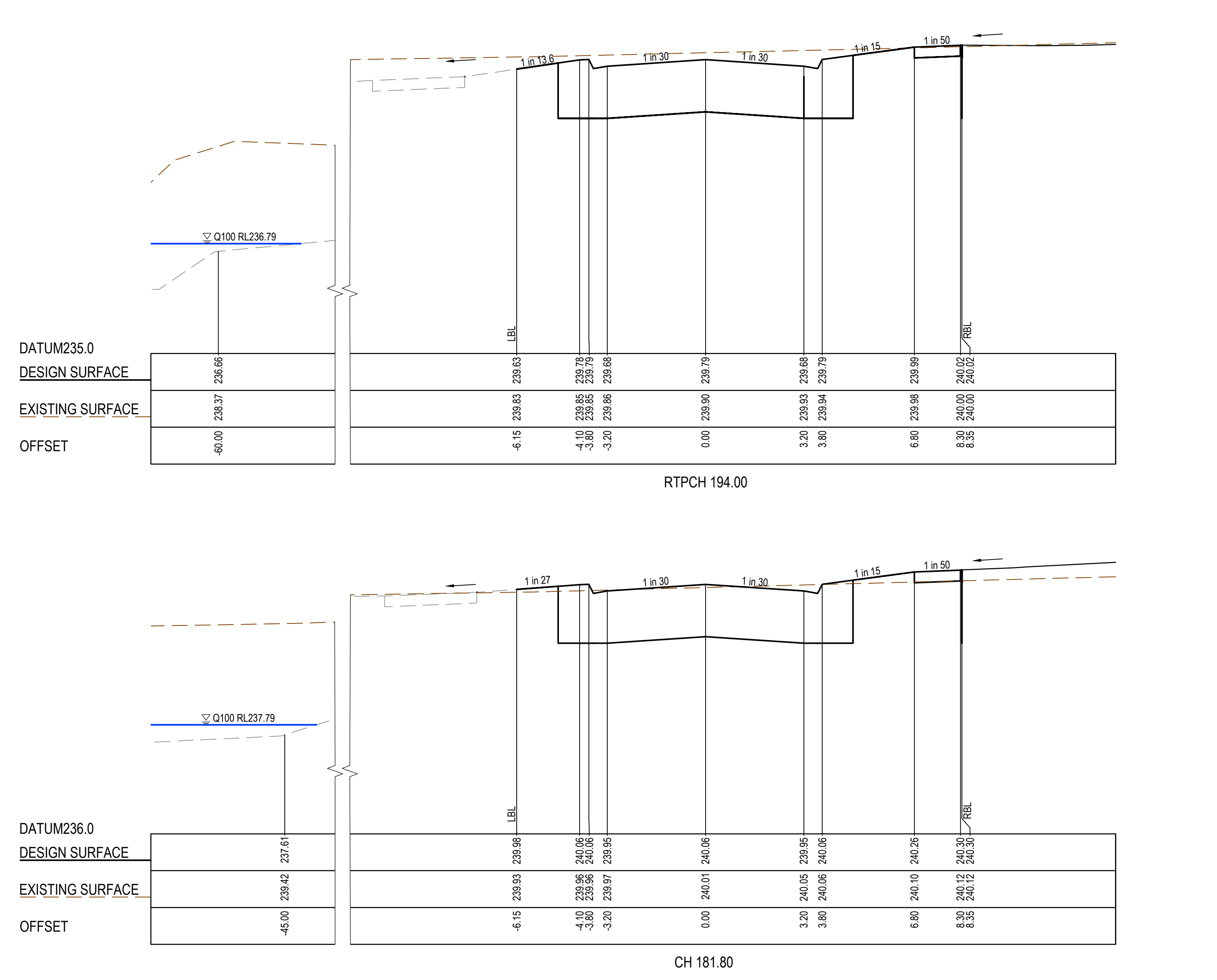
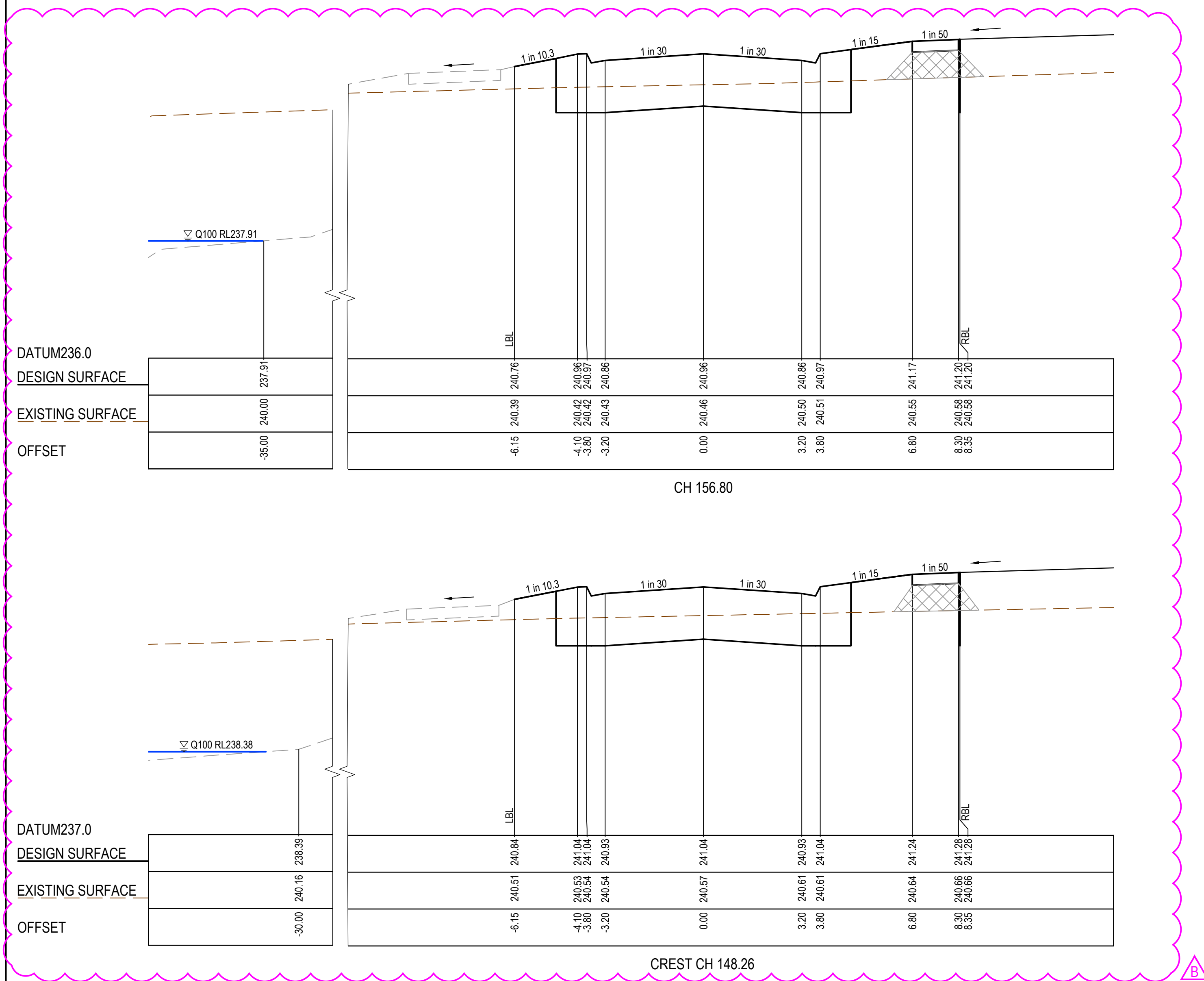


EDENMORE MEWS LONGITUDINAL SECTION

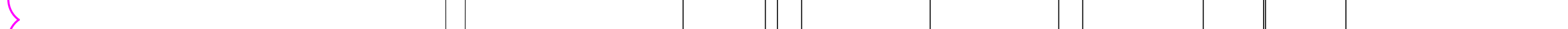
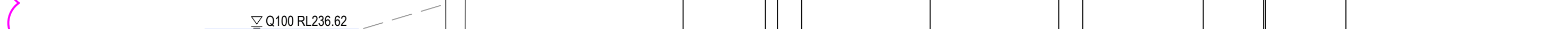
VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
DATUM RL239
DESIGN CENTRELINE
EXISTING SURFACE
CHAINAGE



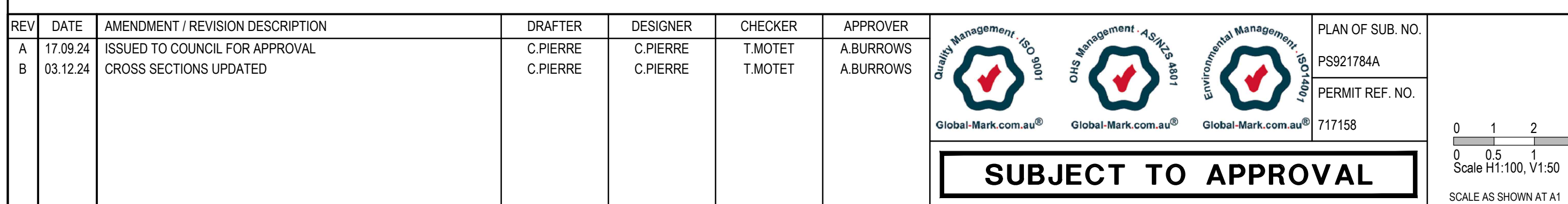
FINN AVENUE LONGITUDINAL SECTION

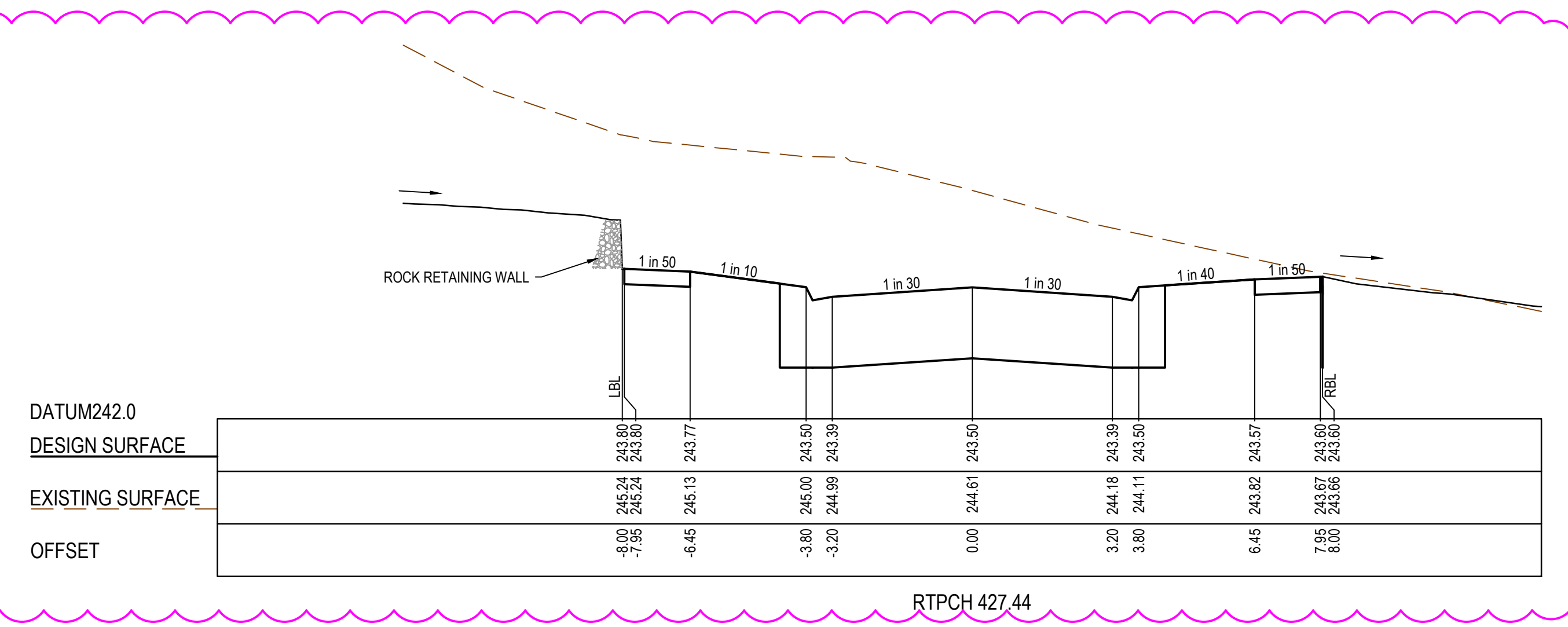
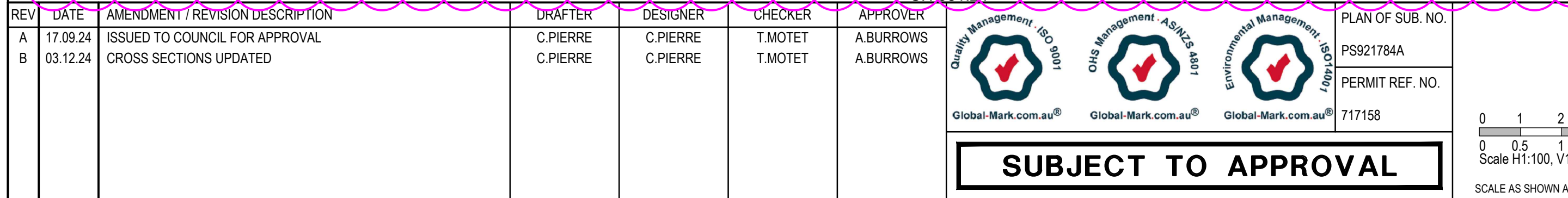
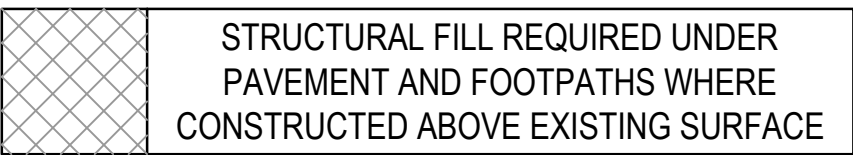


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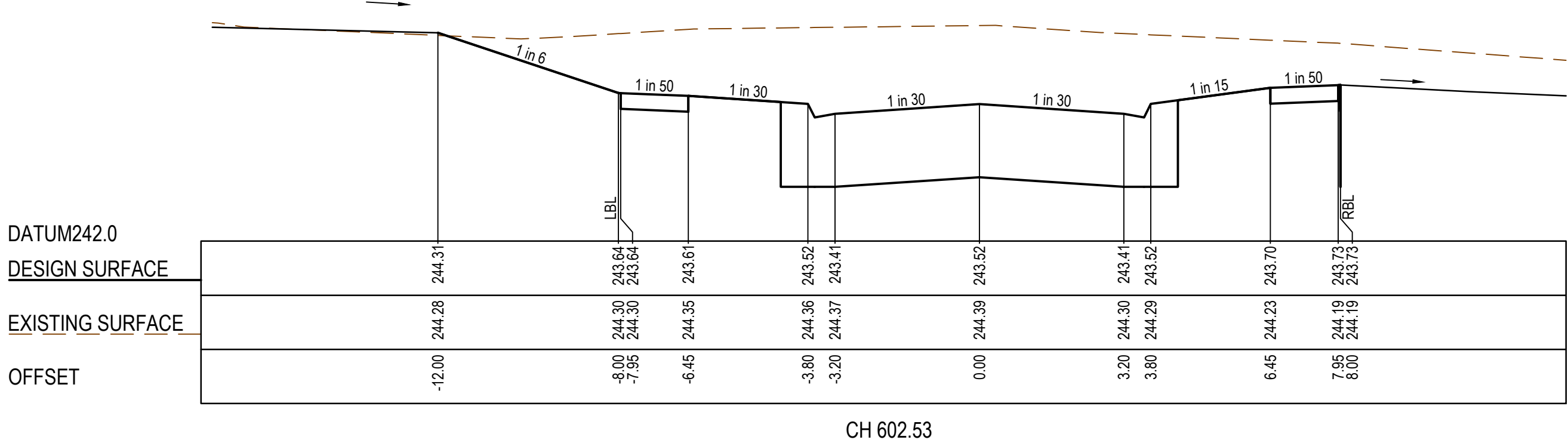
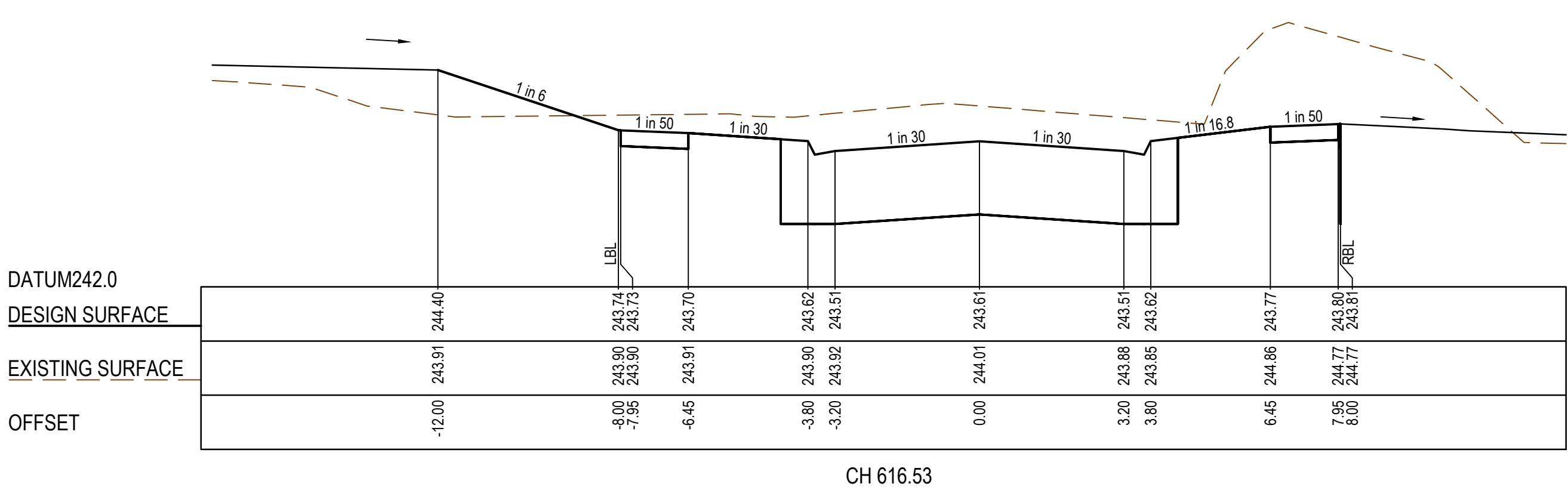
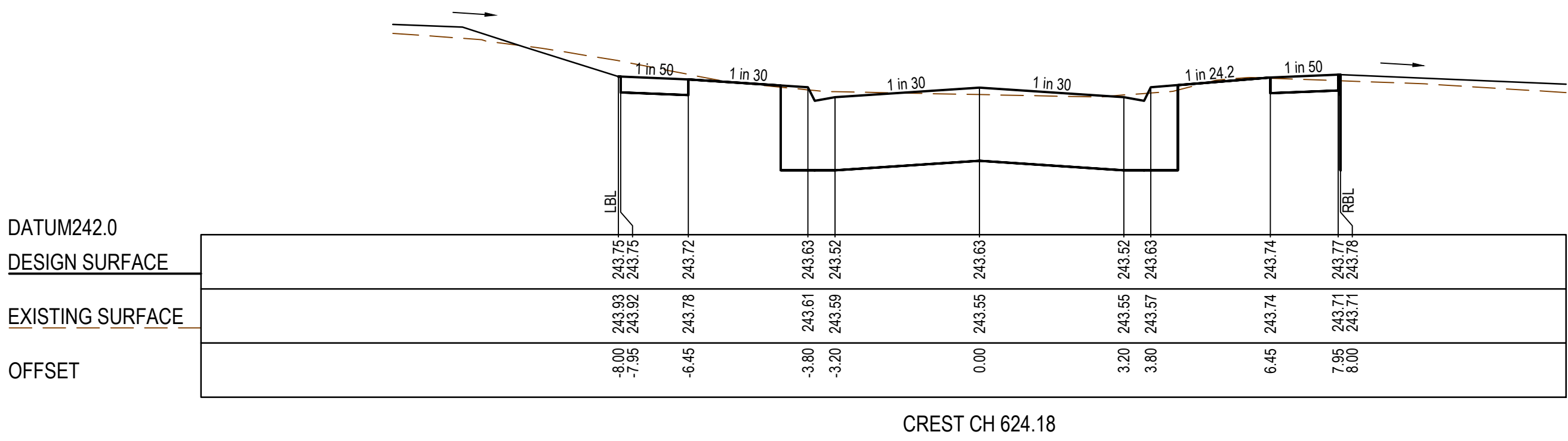
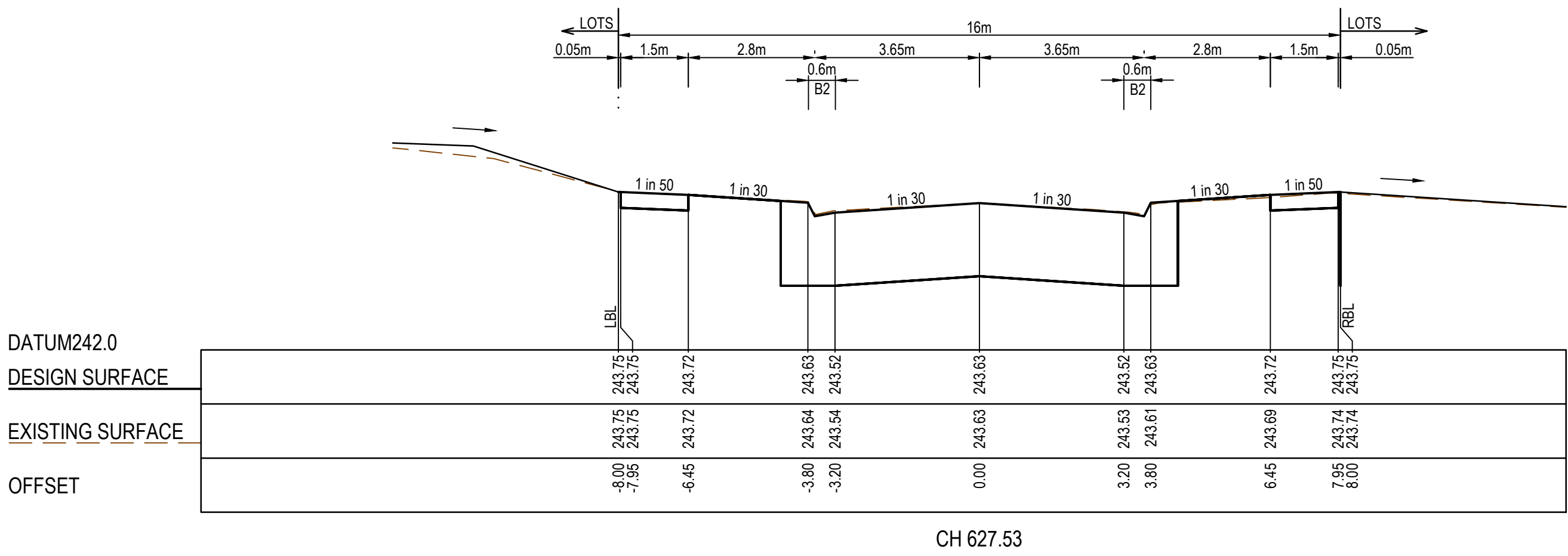


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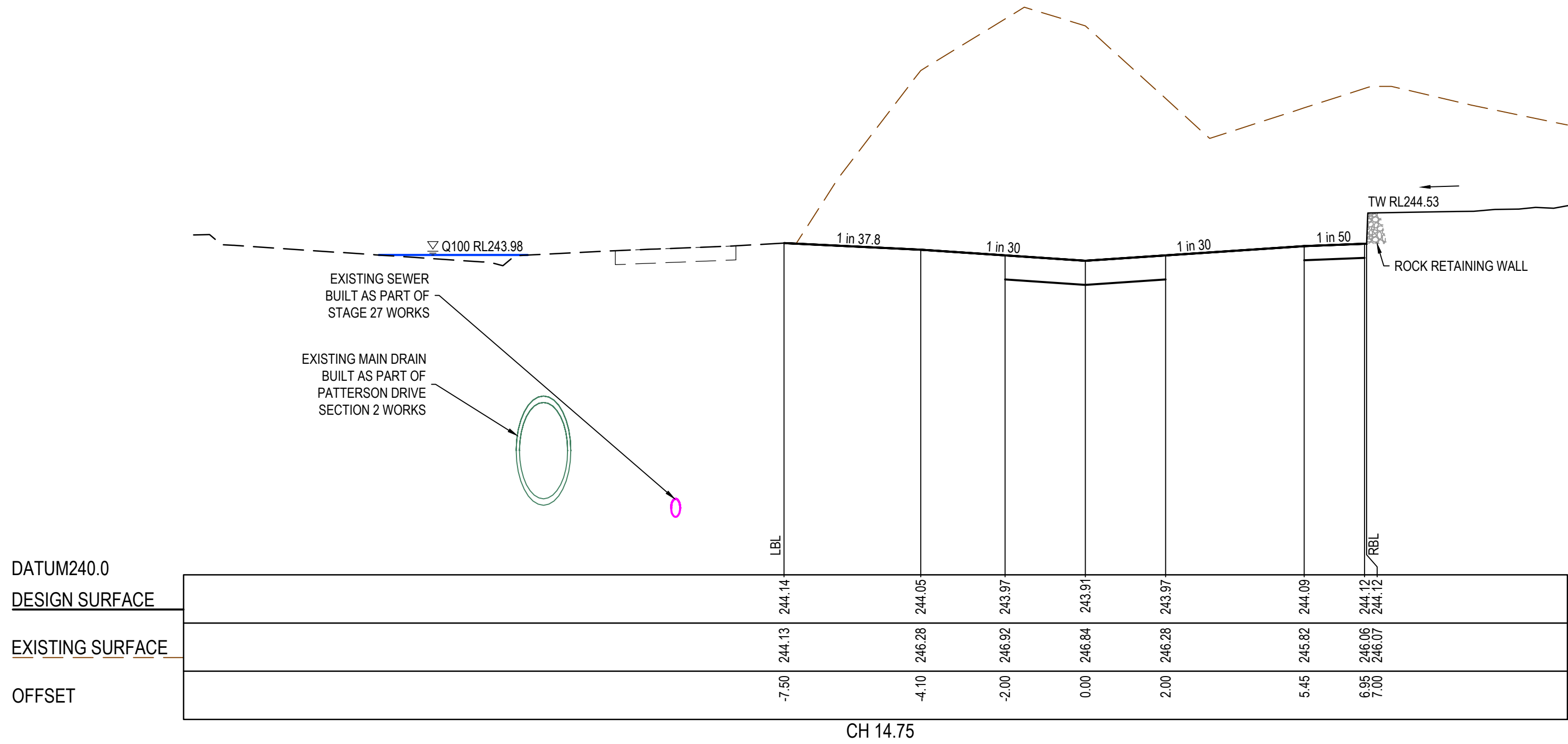
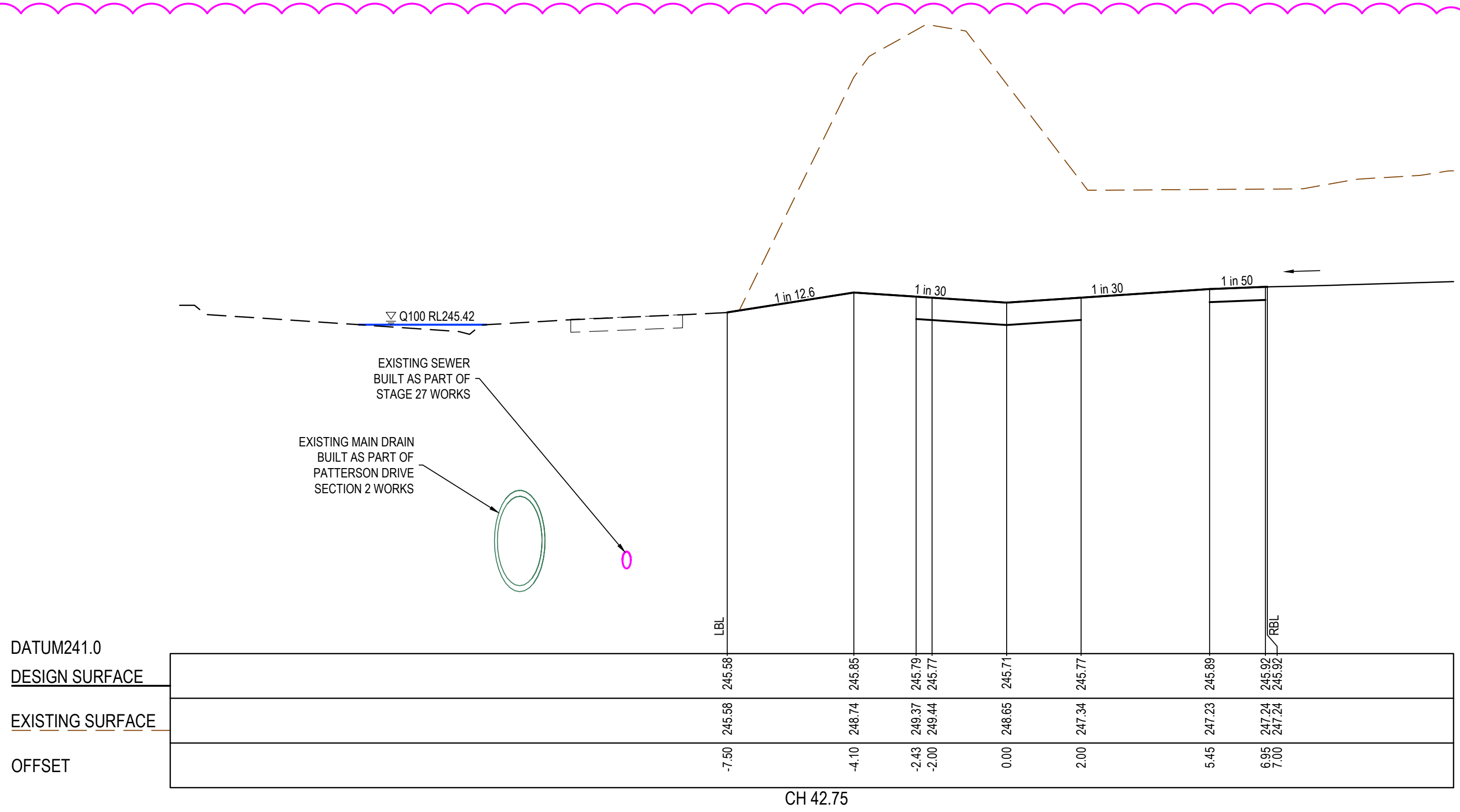
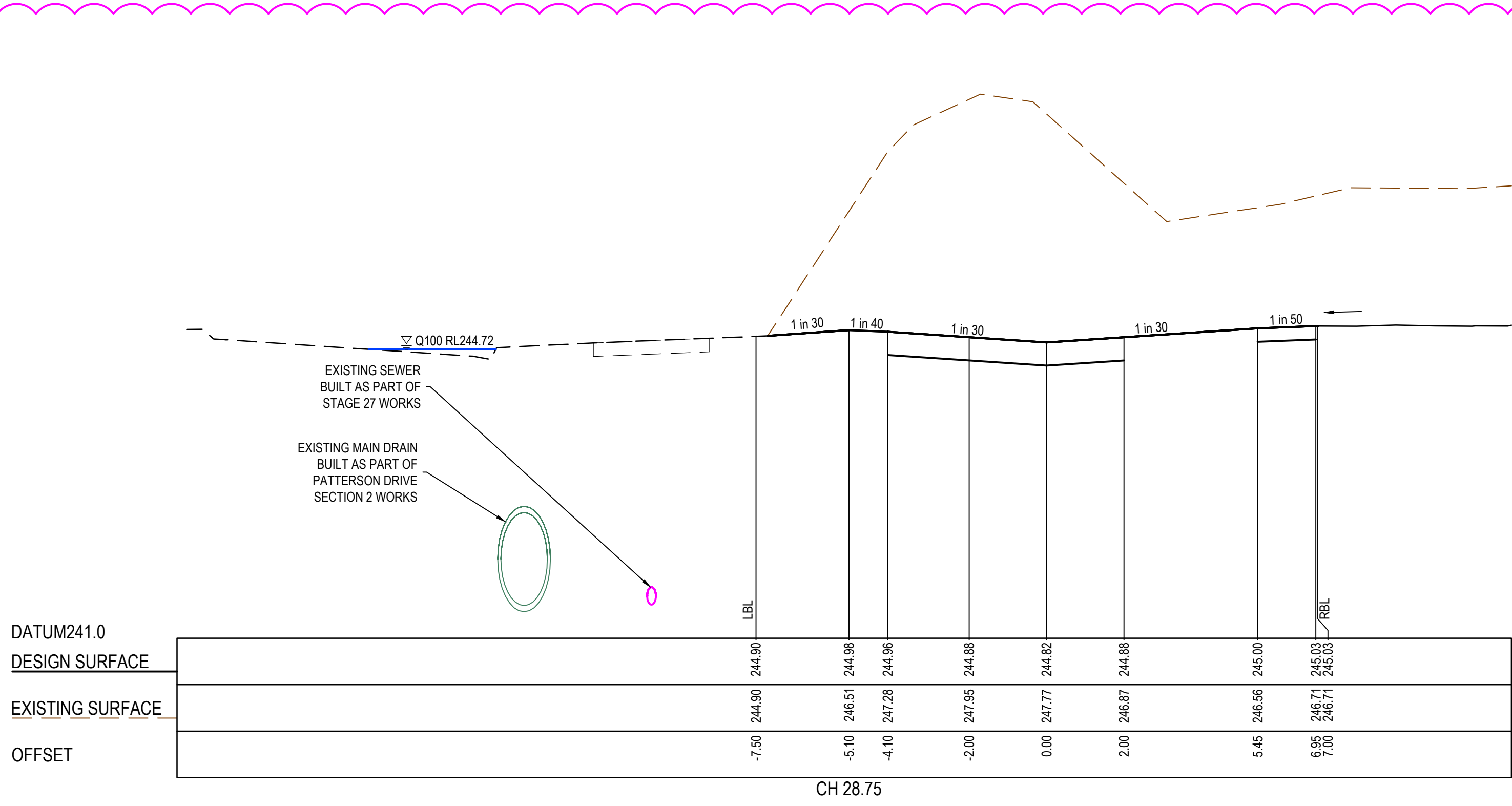
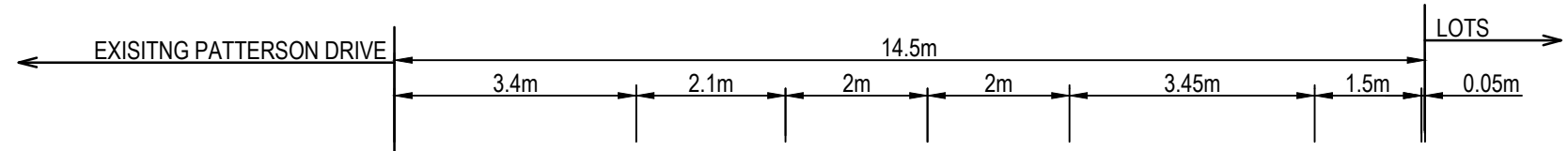




STRUCTURAL FILL REQUIRED UNDER
PAVEMENT AND FOOTPATHS WHERE
CONSTRUCTED ABOVE EXISTING SURFACE

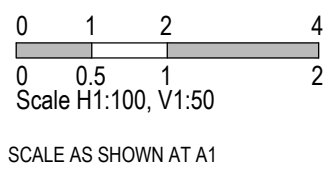


STRUCTURAL FILL REQUIRED UNDER
PAVEMENT AND FOOTPATHS WHERE
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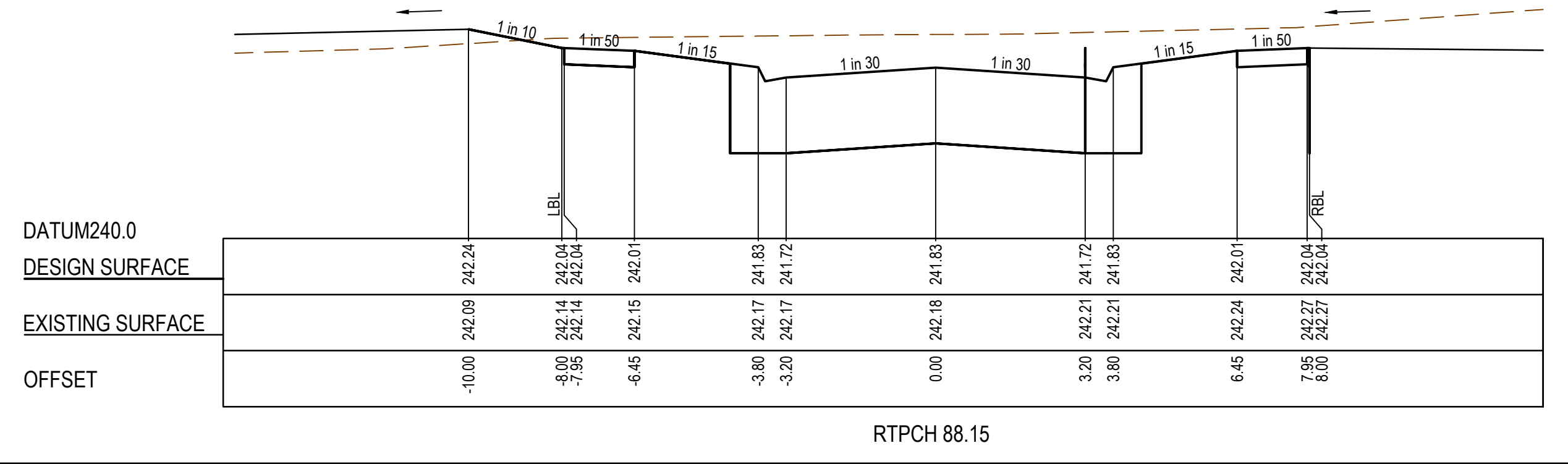
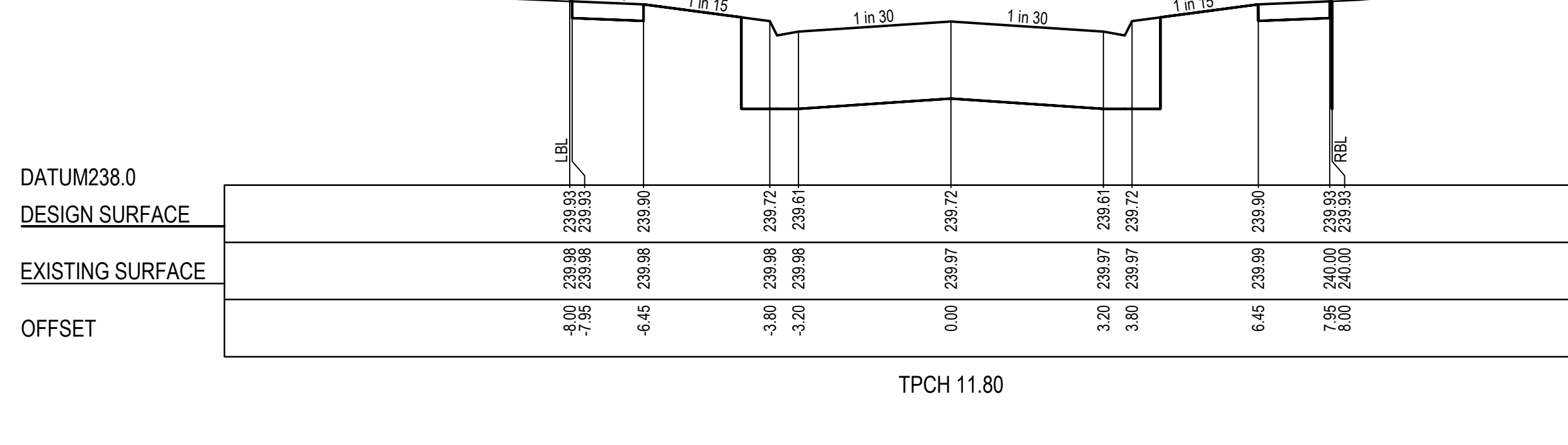
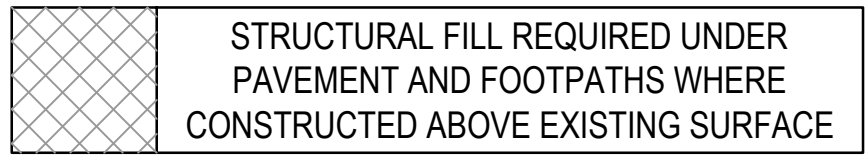
REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	17.09.24	ISSUED TO COUNCIL FOR APPROVAL	C.PIERRE	C.PIERRE	T.MOTET	A.BURROWS
B	03.12.24	CROSS SECTIONS UPDATED	C.PIERRE	C.PIERRE	T.MOTET	A.BURROWS

 Quality Management ISO 9001 Global-Mark.com.au®	 OHS Management AS/NZS 4801 Global-Mark.com.au®	 Environmental Management ISO 14001 Global-Mark.com.au®
PLAN OF SUB. NO. PS921784A		
PERMIT REF. NO. 717158		
SUBJECT TO APPROVAL		



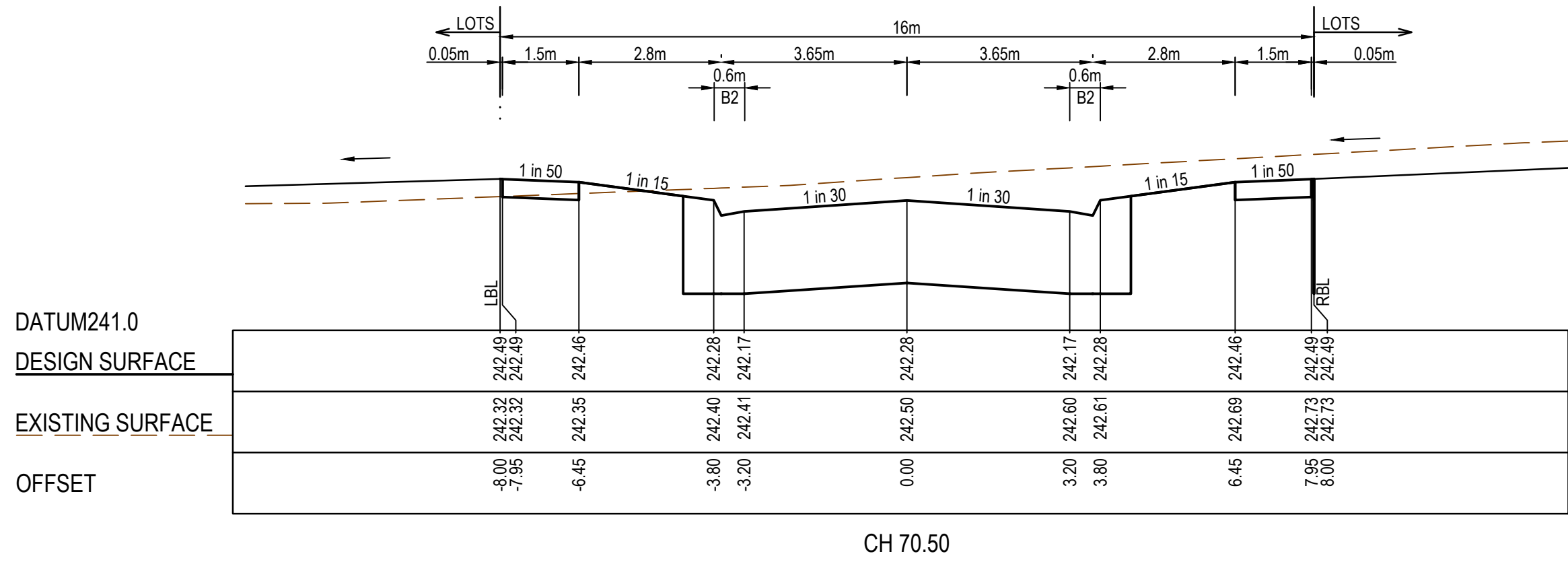
Olivine Estate - Stage 16
Whittlesea City Council
Road and Drainage
Cross Sections: Edenmore Mews
Ch 14.75 - Ch 42.75

MELWAYS REF 367 G11	PROJECT / DRAWING No. 1700E-016-258	SHEET No. 19 of 31	REVISION B
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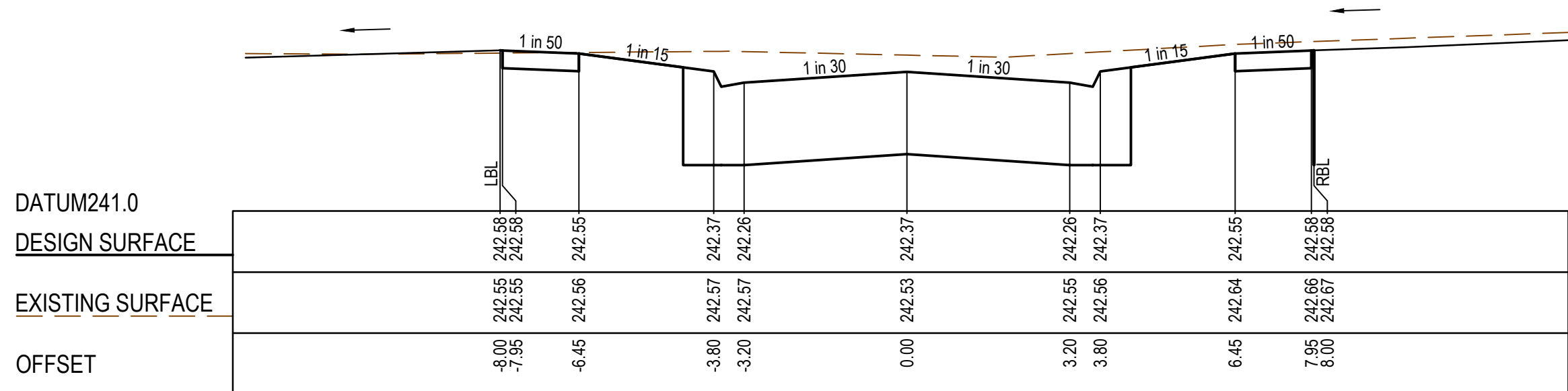


REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	<div>Quality Management ISO 9001</div> <div>OHS Management AS/NZS 1881</div> <div>Environmental Management ISO 14001</div> <div>Global-Mark.com.au®</div> <div>Global-Mark.com.au®</div> <div>Global-Mark.com.au®</div>			PLAN OF SUB. NO.	<div><div>0124</div><div>00.512</div><div>Scale H1:100, V1:50</div></div> <div>SCALE AS SHOWN AT A1</div>	<div><div>N</div><div></div></div>	<div><div><div><div></div></div><div><div>SMEC</div></div></div><div>Member of the Surbana Jurong Group</div><div>ABN 47 065 475 149</div><div>Collins Square, Tower 4, Level 20, 727 Collins St</div><div>Melbourne, VIC, 3008, Australia</div><div>03 9514 1500</div></div>	<div><div><div></div></div><div>mirvac</div></div>	Olive Estate - Stage 16 Whittlesea City Council Road and Drainage Cross Sections: Camaraderie Avenue Ch 11.80 - Ch 133.55			
A	B	17.09.24	03.12.24	ISSUED TO COUNCIL FOR APPROVAL CROSS SECTIONS UPDATED	C.PIERRE	C.PIERRE	T.MOTET	A.BURROWS	A.BURROWS	PS921784A					PERMIT REF. NO. 717158	MELWAYS REF 367 G11	PROJECT / DRAWING No. 1700E-016-259	SHEET No. 20 of 31
SUBJECT TO APPROVAL																		

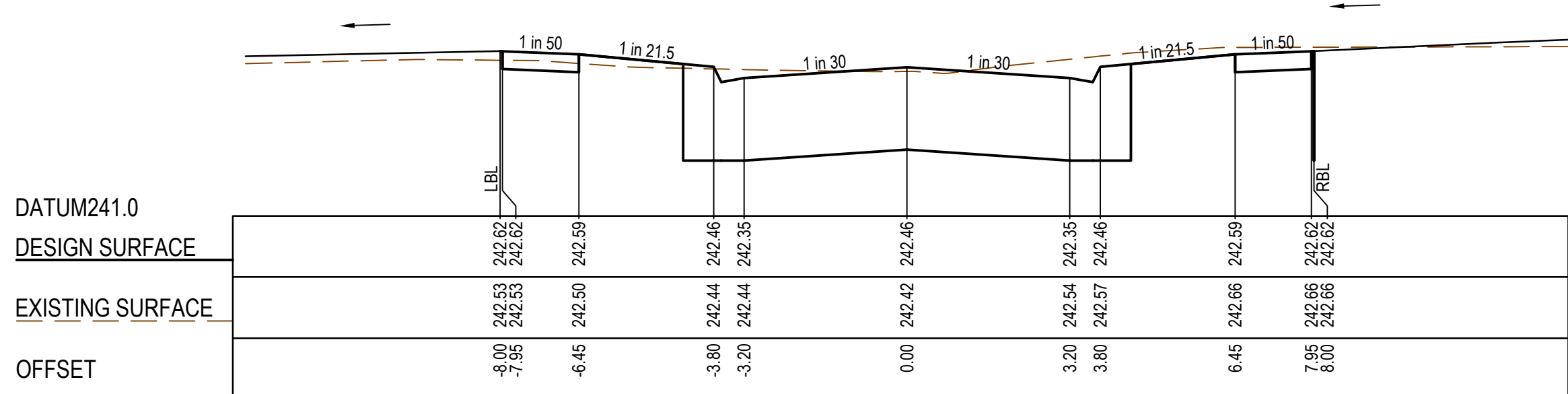
STRUCTURAL FILL REQUIRED UNDER
PAVEMENT AND FOOTPATHS WHERE
CONSTRUCTED ABOVE EXISTING SURFACE



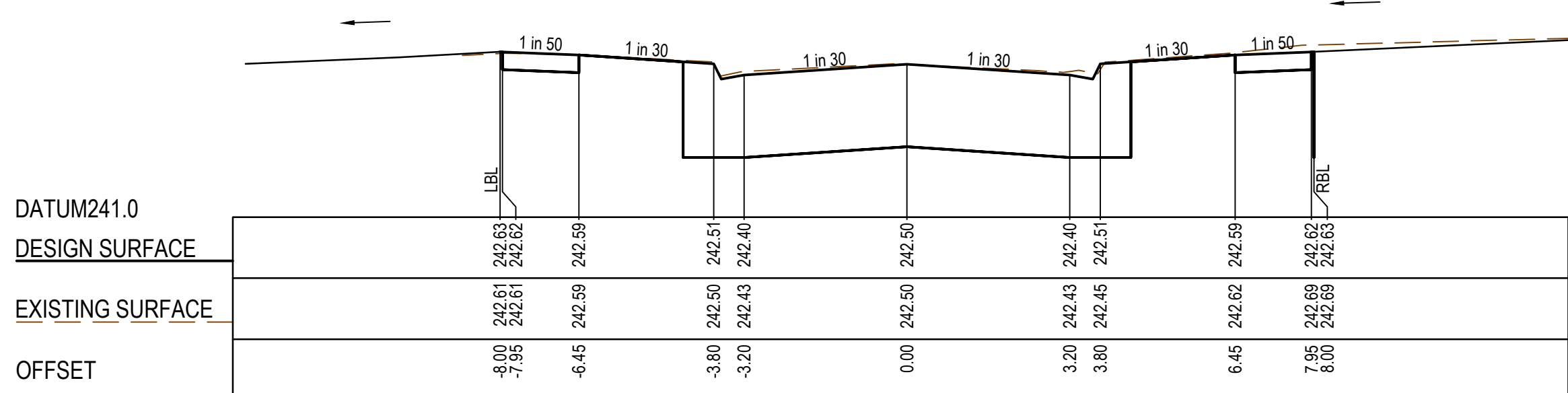
CH 70.50



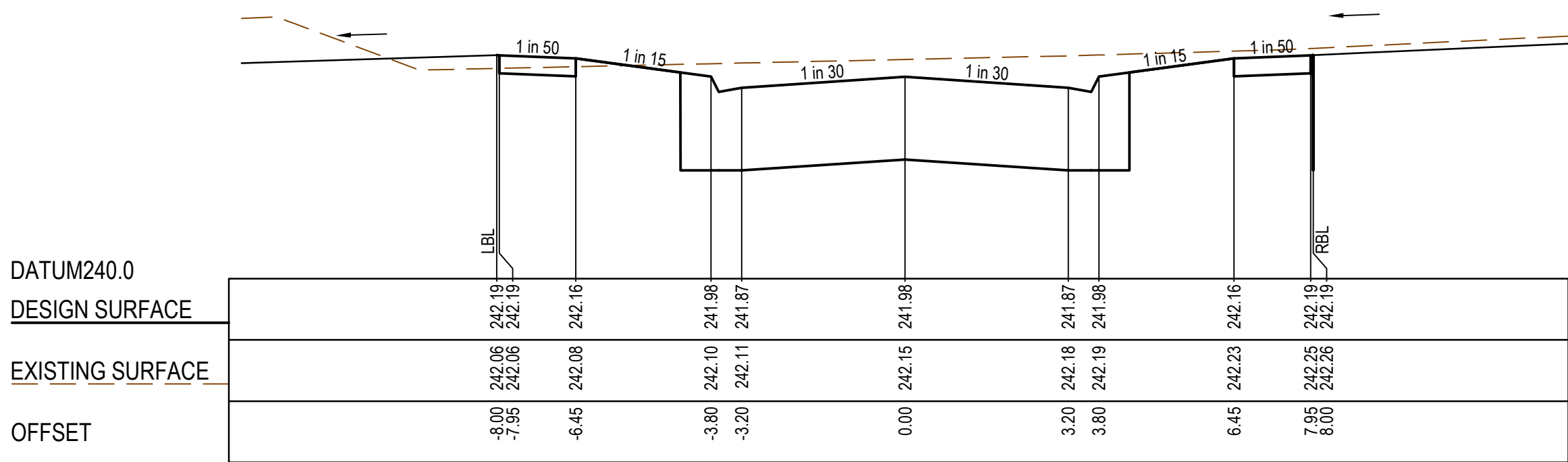
CH 58.00



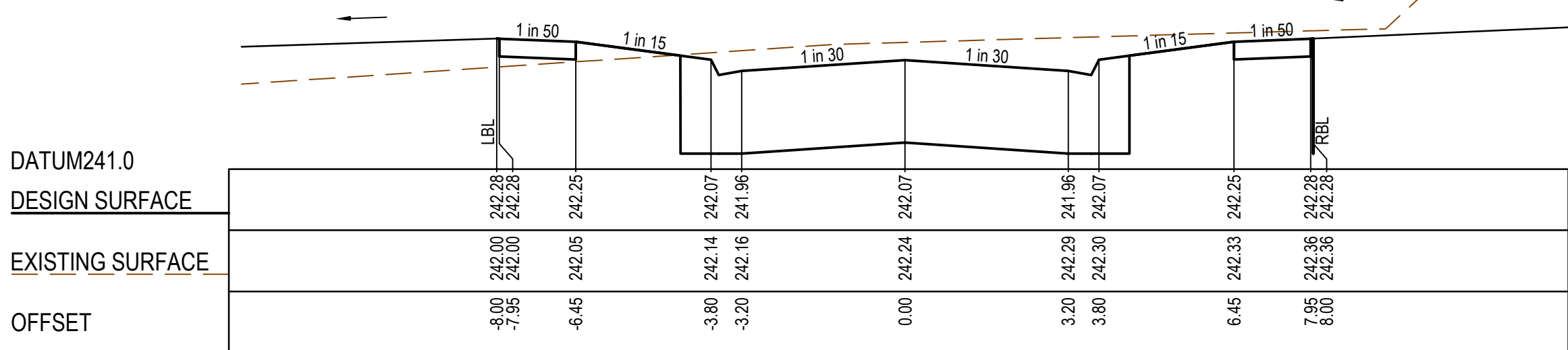
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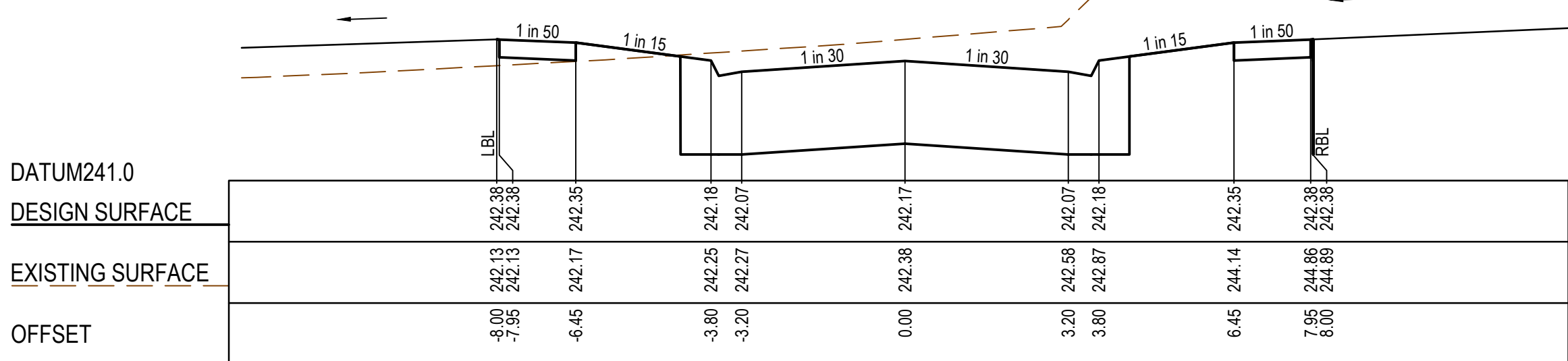
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CH 111.00

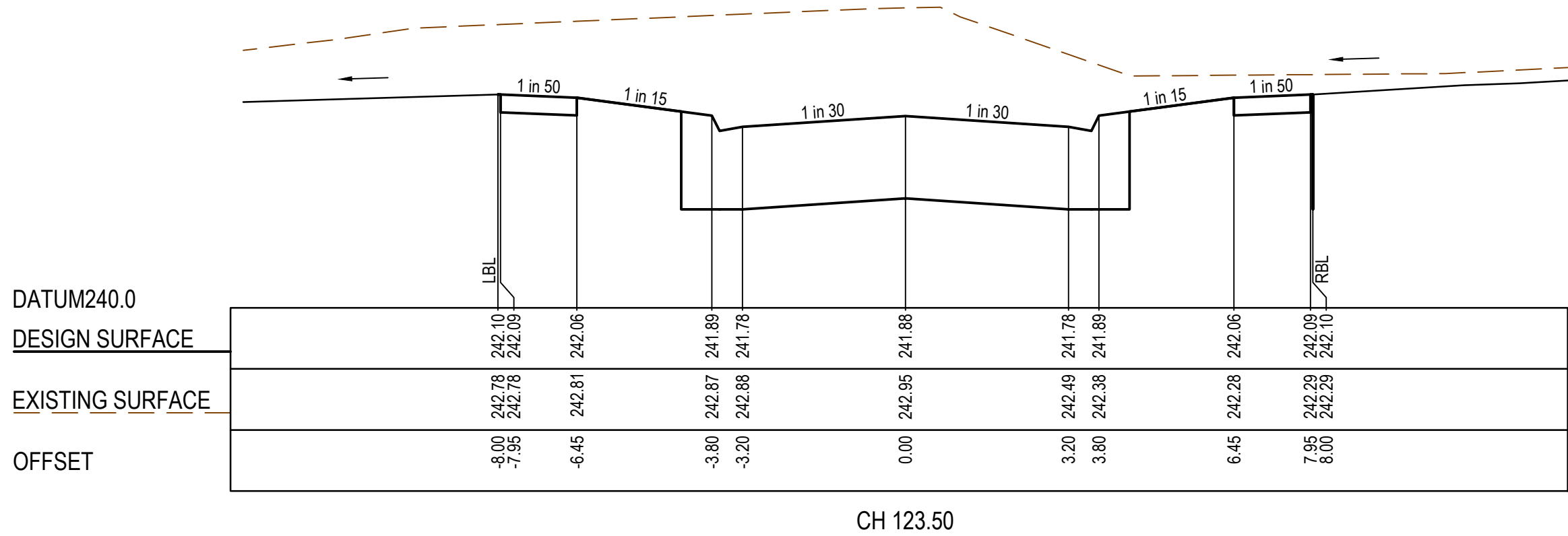
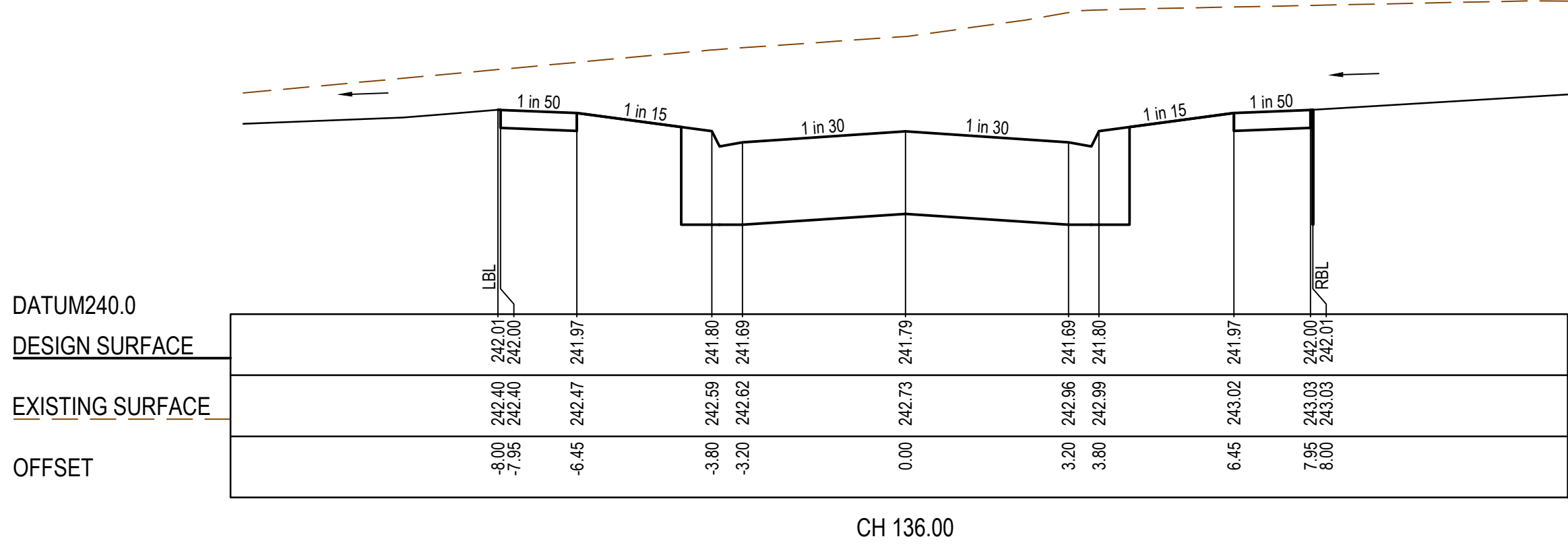
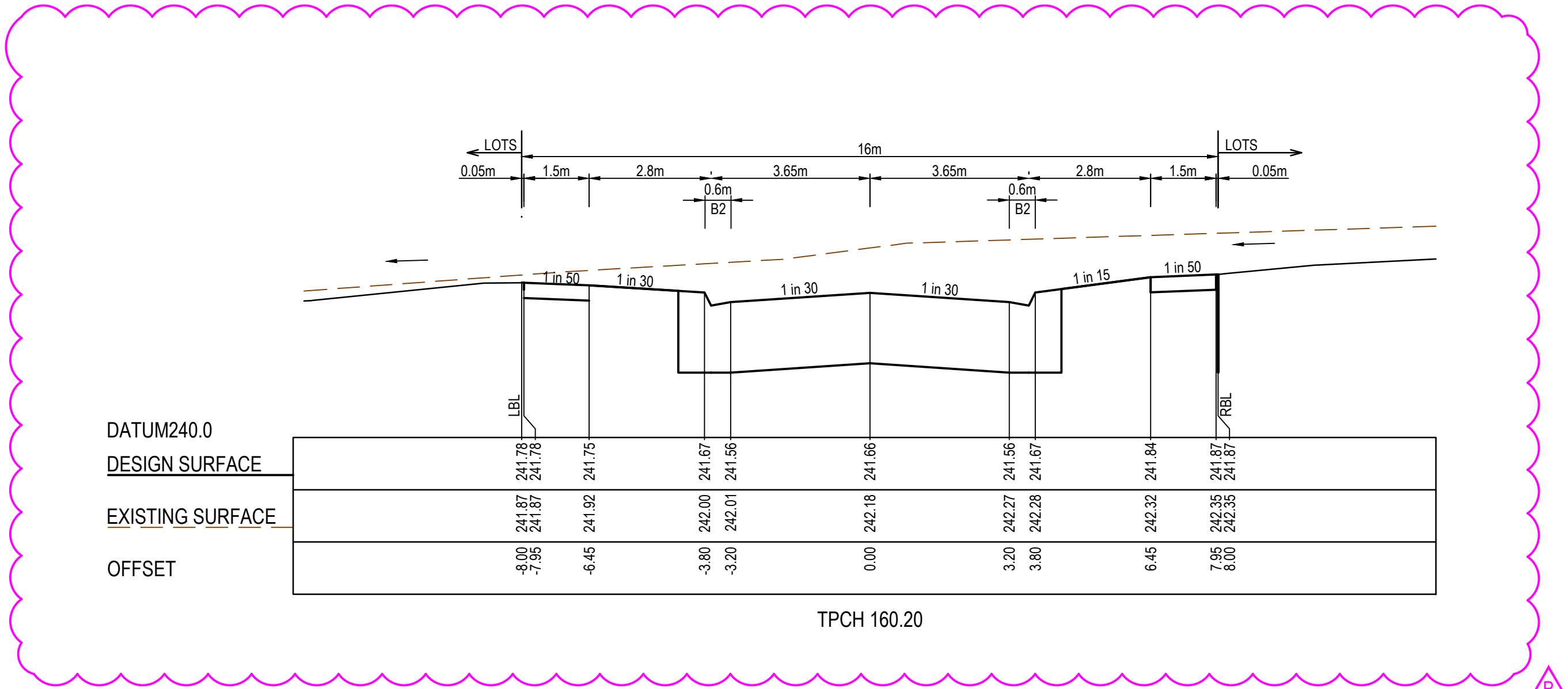


CH 98.50

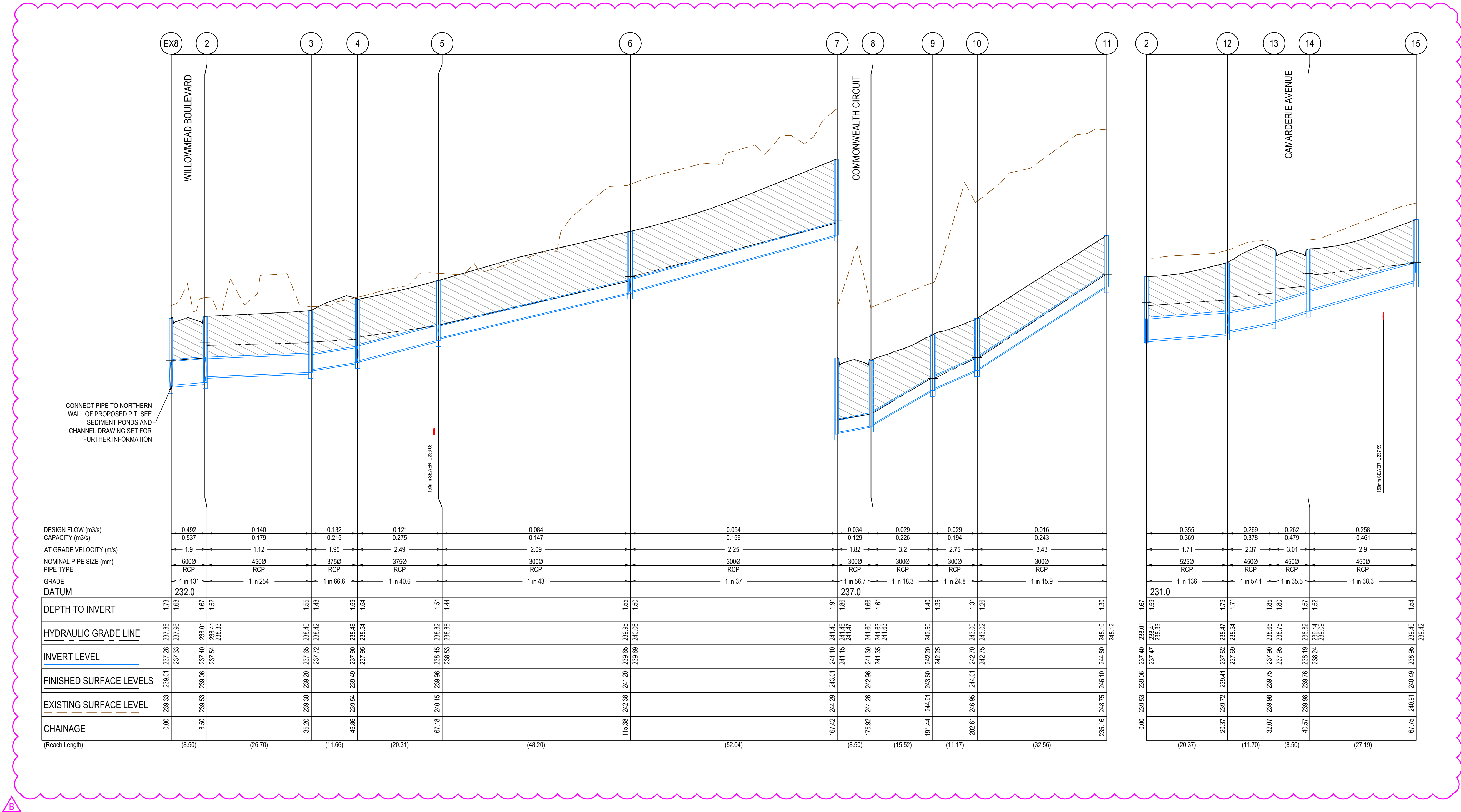


CH 84.50

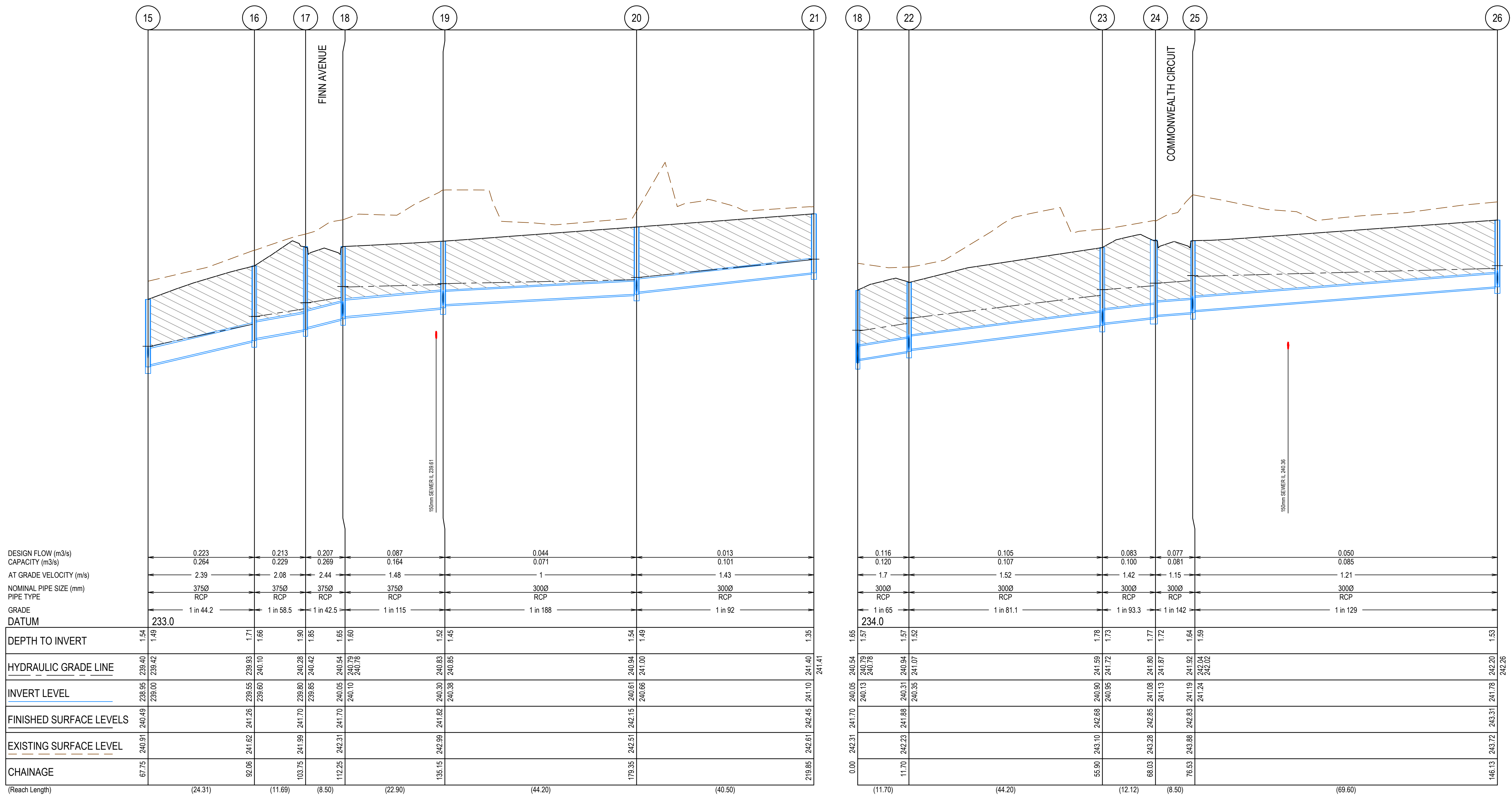
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PAVEMENT AND FOOTPATHS WHERE
CONSTRUCTED ABOVE EXISTING SURFACE

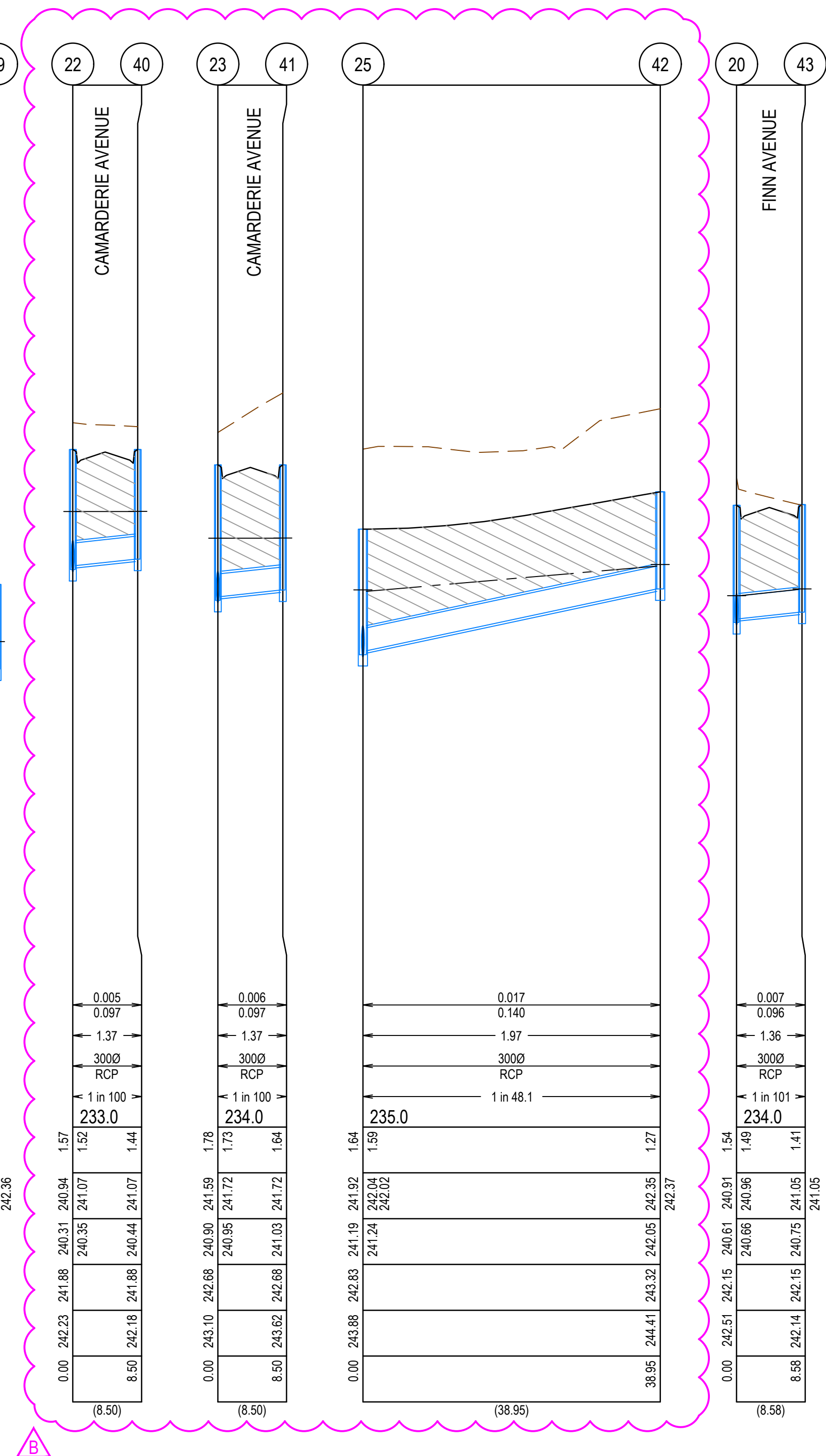
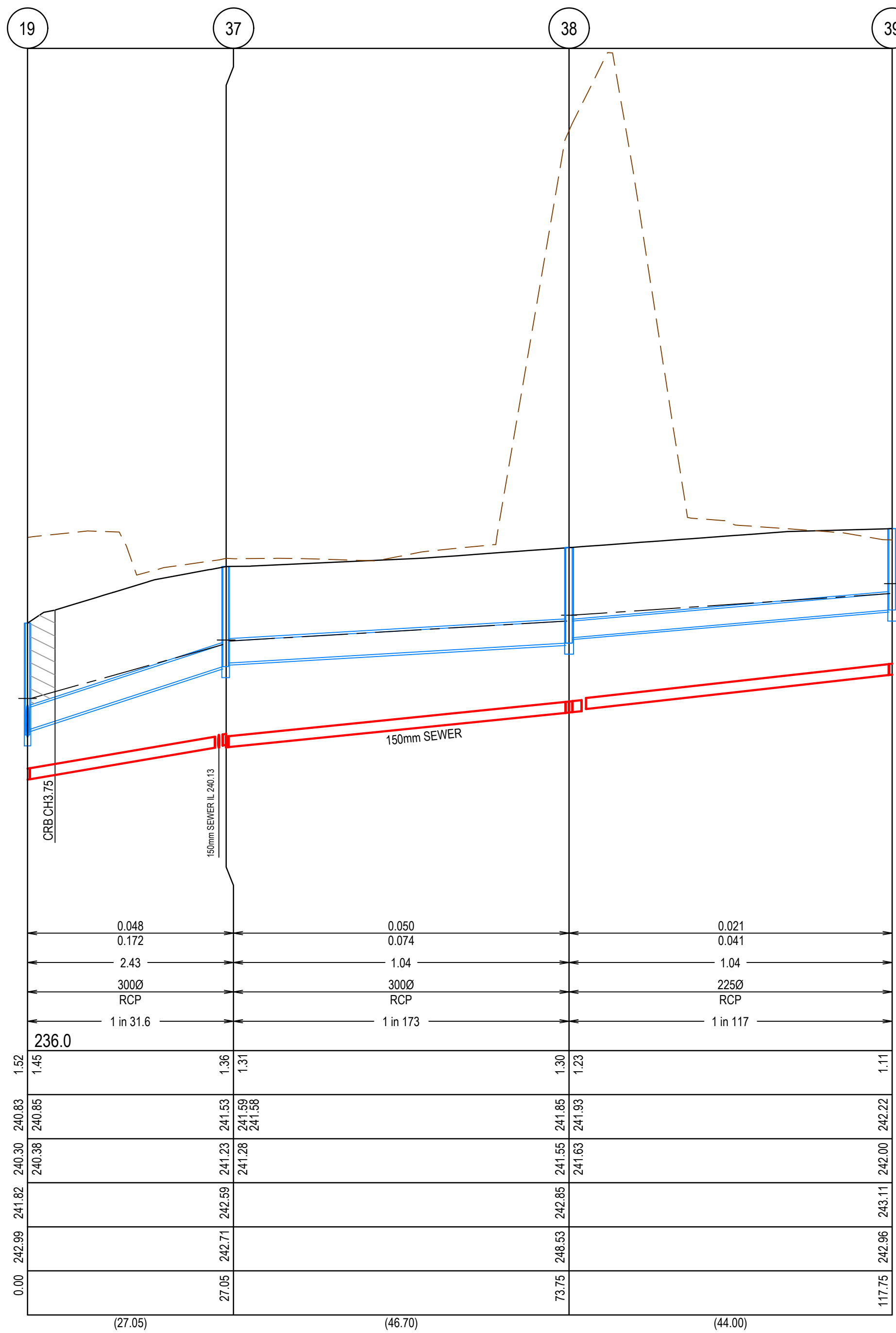
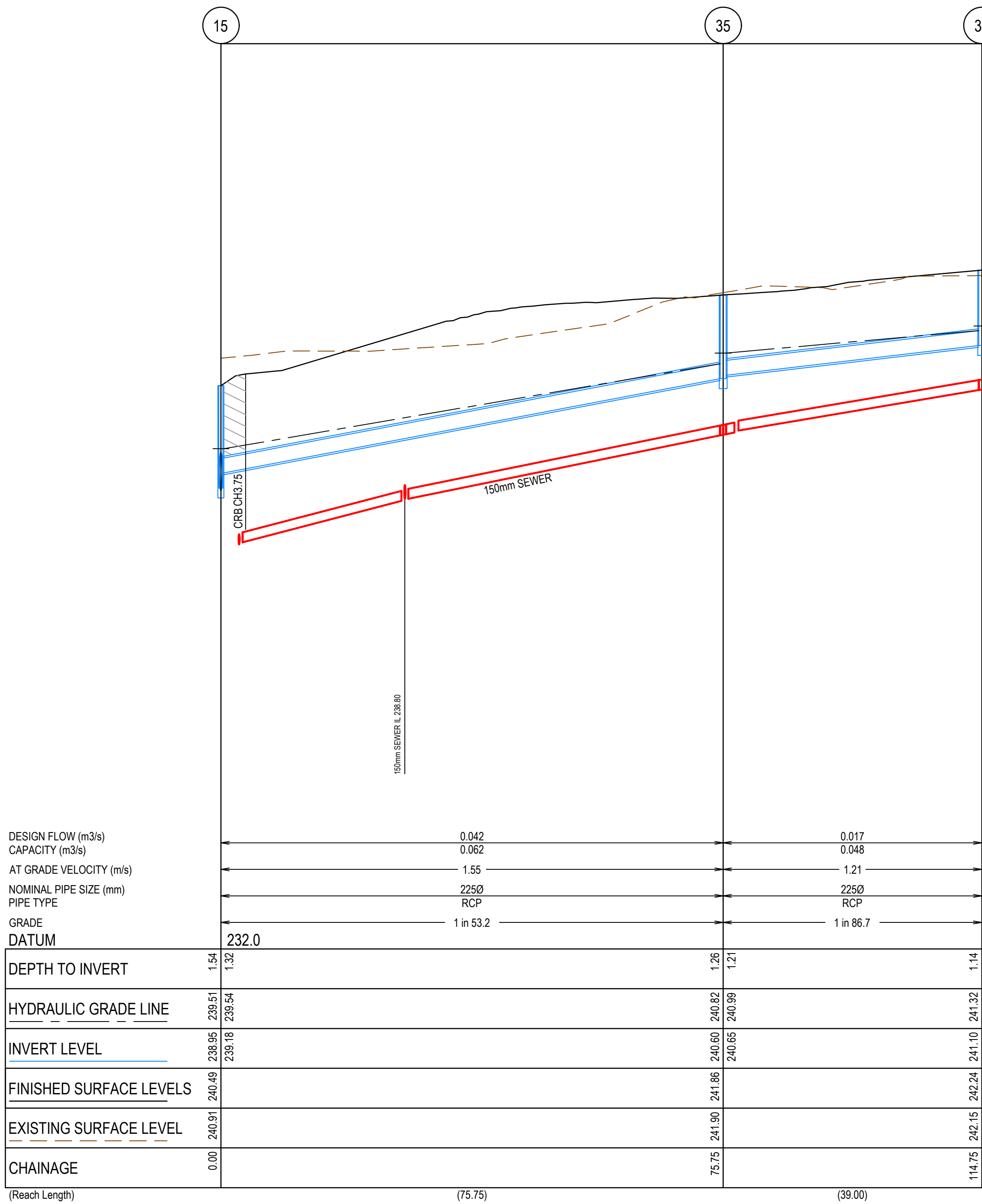


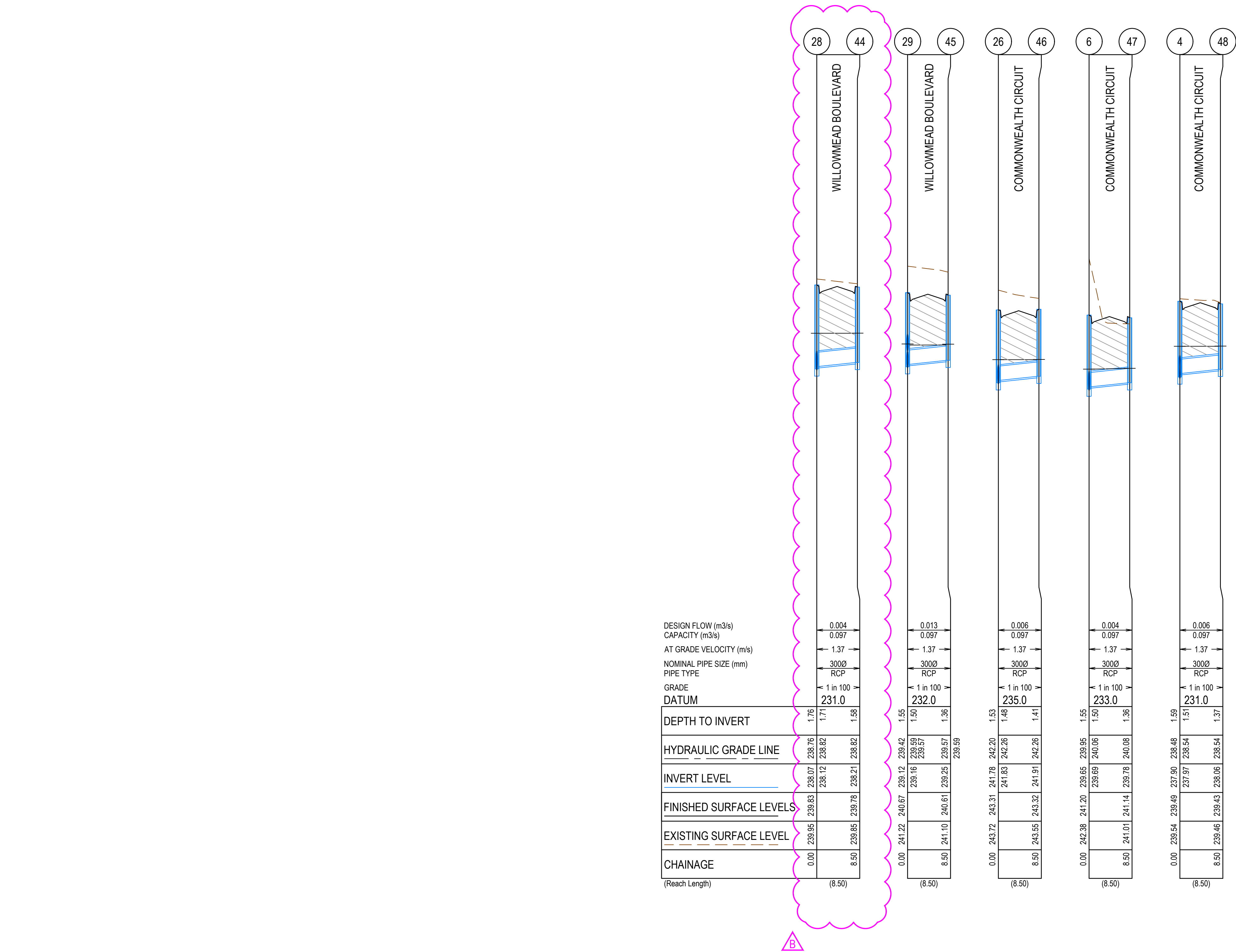
CRUSHED ROCK BACKFILL
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE
WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS
SPECIFIED OTHERWISE



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







PIT SCHEDULE											
PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		F.S.L.	DEPTH	STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INV R.L. (m)	DIAMETER (mm)					
Ex8	DOUBLE GRATED ENTRY PIT	600	900	600	237.33	600	237.28	239.007	1.727	EDCM 602 & 605	
2	DOUBLE GRATED ENTRY PIT	900	900	450	237.545	600	237.395	239.061	1.666	EDCM 602, 605 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
3	JUNCTION PIT	750	900	450	237.545	450	237.65	239.202	1.552	EDCM 605 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
4	GRATED ENTRY PIT	600	900	375	237.95	375	237.9	239.488	1.588	EDCM 601 & 605	
				300	237.975						
5	JUNCTION PIT	600	900	300	238.525	375	238.45	239.964	1.514	EDCM 605	
				225	238.6						
6	GRATED ENTRY PIT	600	900	300	239.695	300	239.645	241.198	1.553	EDCM 601 & 605	
				300	239.695						
7	GRATED ENTRY PIT	600	900	300	241.35	300	241.3	243.015	1.715	EDCM 601 & 605	
8	GRATED ENTRY PIT	600	900	300	241.65	300	241.6	242.957	1.357	EDCM 601 & 605	
9	JUNCTION PIT	600	900	300	242.25	300	242.2	243.598	1.398	EDCM 605	
10	GRATED PIT	600	900	300	242.75	300	242.7	244.01	1.31	EDCM 601 & 605	GRATED JUNCTION PIT LID. REFER TO DETAIL
11	JUNCTION PIT	600	900			300	244.8	246.097	1.297	EDCM 605	
12	GRATED ENTRY PIT	900	900	450	237.957	450	237.907	239.409	1.502	EDCM 601, 605 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
				300	238.057						
13	GRATED ENTRY PIT	600	900	450	238.114	450	238.064	239.754	1.69	EDCM 601 & 605	
14	GRATED ENTRY PIT	750	900	450	238.239	450	238.189	239.755	1.566	EDCM 601, 605 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
15	JUNCTION PIT	750	900	450	239	450	238.95	240.494	1.544	EDCM 605 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
				225	239.175						
16	GRATED ENTRY PIT	600	900	375	239.625	450	239.55	241.258	1.708	EDCM 601 & 605	
17	GRATED ENTRY PIT	600	900	375	239.85	375	239.8	241.699	1.899	EDCM 601 & 605	
18	GRATED ENTRY PIT	600	900	375	240.1	375	240.05	241.699	1.649	EDCM 601 & 605	
				300	240.125						
19	JUNCTION PIT	600	900	300	240.375	375	240.3	241.823	1.523	EDCM 605	
				300	240.375						
20	GRATED ENTRY PIT	600	900	300	240.66	300	240.61	242.147	1.537	EDCM 601 & 605	
				300	240.66						
21	JUNCTION PIT	600	900			300	241.1	242.446	1.346	EDCM 605	
22	GRATED ENTRY PIT	600	900	300	240.385	300	240.335	241.878	1.543	EDCM 601 & 605	
				300	240.385						
23	GRATED ENTRY PIT	600	900	300	241.13	300	241.08	242.676	1.596	EDCM 601 & 605	
				300	241.13						
24	DOUBLE GRATED ENTRY PIT	600	900	300	241.28	300	241.23	242.849	1.619	EDCM 602 & 605	
25	DOUBLE GRATED ENTRY PIT	600	900	300	241.39	300	241.34	242.834	1.494	EDCM 602 & 605	
				300	241.39						
26	GRATED ENTRY PIT	600	900	300	241.83	300	241.78	243.306	1.526	EDCM 601 & 605	
				300	241.83						
27	JUNCTION PIT	600	900			300	242.4	243.649	1.249	EDCM 605	
28	GRATED ENTRY PIT	600	900	300	238.33	300	238.28	239.829	1.549	EDCM 601 & 605	
				300	238.33						
29	DOUBLE GRATED ENTRY PIT	600	900	300	239.468	300	239.115	240.667	1.552	EDCM 602 & 605	
				300	239.165						
ExE80	Ex ENDPIPE			300	239.947	300	239.947	241.222	1.274		CONNECT TO EXISTING 3000 ENDPIPE
32	JUNCTION PIT	600	900	225	239.3	225	239.25	240.461	1.211	EDCM 605	
33	JUNCTION PIT	900	600	225	240.7	225	240.65	241.92	1.27	EDCM 605	
34	JUNCTION PIT	900	600			225	241.85	243.135	1.285	EDCM 605	
35	JUNCTION PIT	600	900	225	240.65	225	240.6	241.862	1.262	EDCM 605	
36	JUNCTION PIT	600	900			225	241.1	242.236	1.136	EDCM 605	
37	JUNCTION PIT	600	900	300	241.28	300	241.23	242.593	1.363	EDCM 605	
38	JUNCTION PIT	900	600	225	241.625	300	241.55	242.852	1.302	EDCM 605	
39	JUNCTION PIT	900	600			225	242	243.11	1.11	EDCM 605	
40	GRATED ENTRY PIT	600	900			300	240.47	241.878	1.408	EDCM 605	
41	GRATED ENTRY PIT	600	900			300	241.215	242.676	1.461	EDCM 601 & 605	
42	GRATED ENTRY PIT	600	900			300	242.05	243.322	1.272	EDCM 601 & 605	
43	GRATED ENTRY PIT	600	900			300	240.745	242.155	1.41	EDCM 601 & 605	
44	GRATED ENTRY PIT	600	900			300	238.415	239.783	1.368	EDCM 601 & 605	
45	DOUBLE GRATED ENTRY PIT	600	900			300	239.25	240.614	1.364	EDCM 602 & 605	
46	GRATED ENTRY PIT	600	900			300	241.915	243.321	1.406	EDCM 601 & 605	
47	GRATED ENTRY PIT	600	900			300	239.78	241.14	1.36	EDCM 601 & 605	
48	GRATED ENTRY PIT	600	900			300	238.06	239.433	1.373	EDCM 601 & 605	

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Oris Management - AS/NZS 4801

Global-Mark.com.au®

Environmental Management - ISO 14001

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PLAN OF SUB. NO.

PS921784A

PERMIT REF. NO.

717158



SMEC

Member of the Surbana Jurong Group

ABN 47 065 475 149

Collins Square, Tower 4, Level 20, 727 Collins St

Melbourne, VIC, 3008, Australia

03 9514 1500



Olivine Estate - Stage 16

Whittlesea City Council

Road and Drainage

Drain Pit Schedule

MELWAYS REF

367 G11

PROJECT / DRAWING No.

1700E-016-351

SHEET No.

28 of 31

REVISION

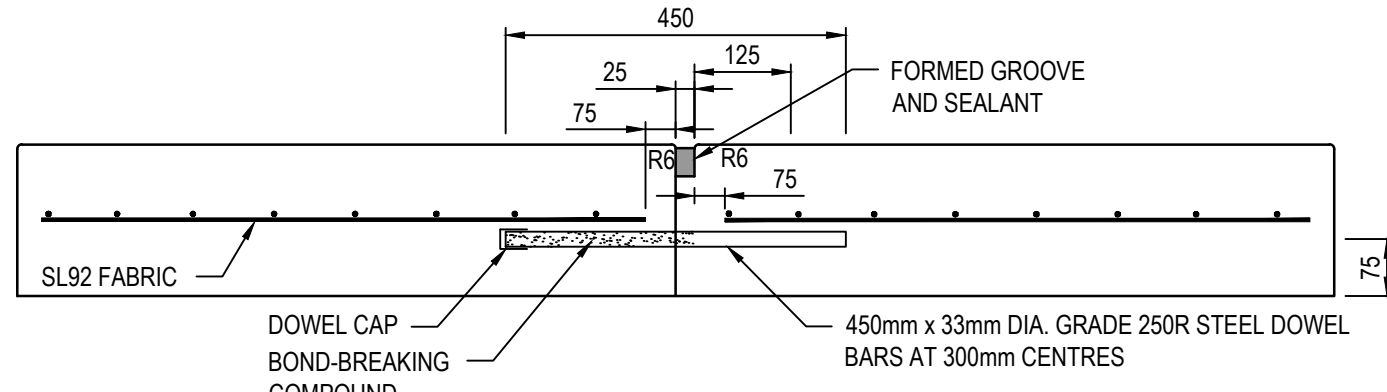
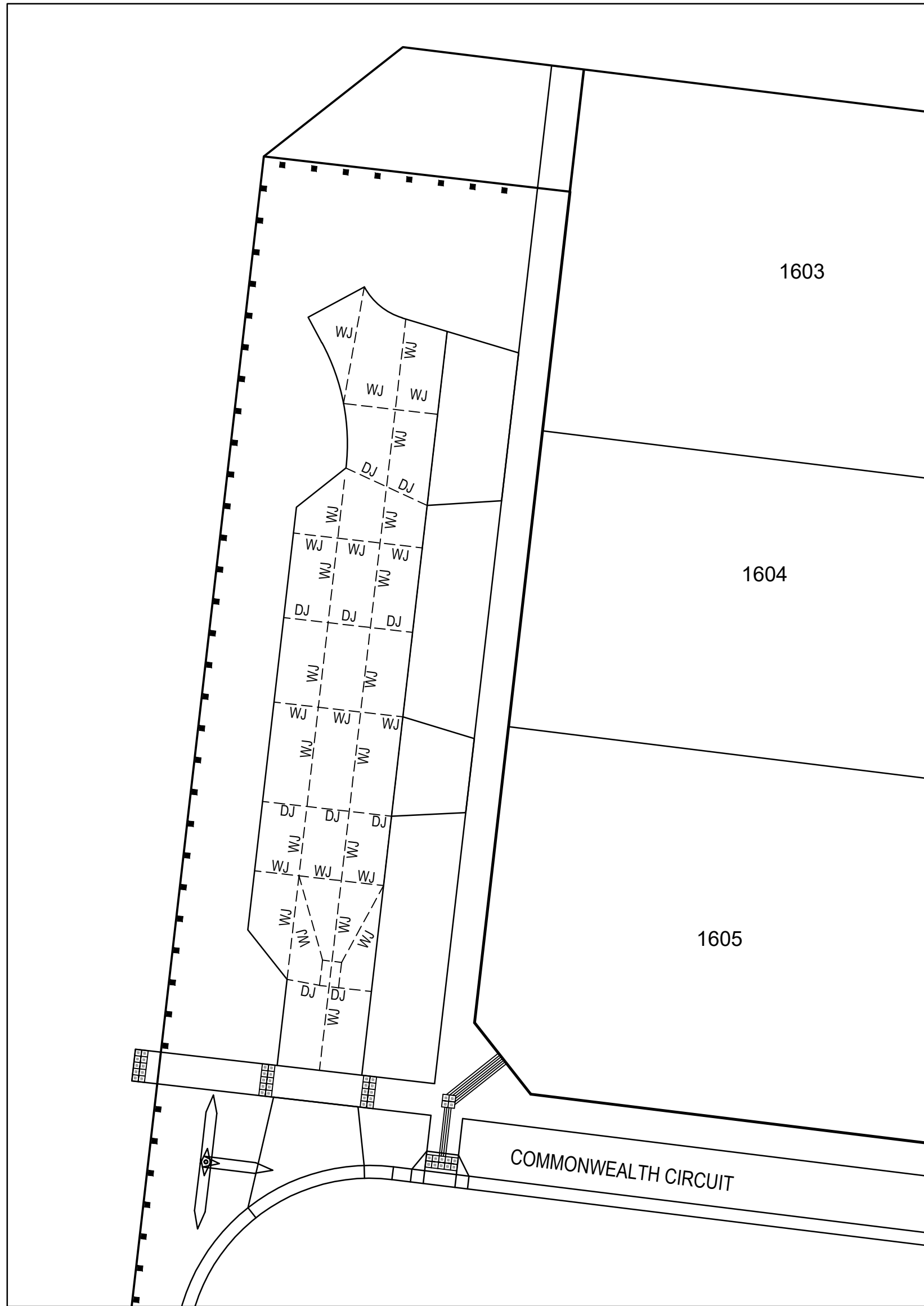
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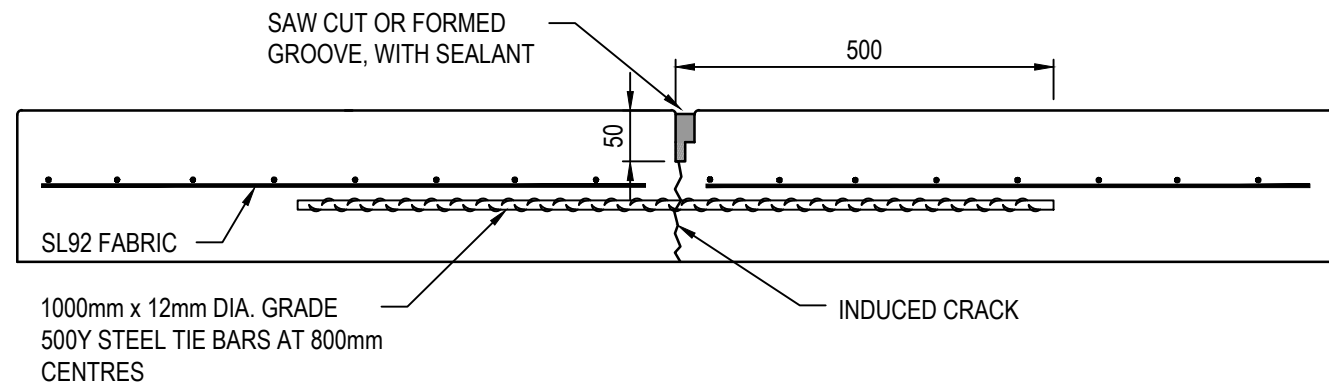
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SCALE AS SHOWN AT A1

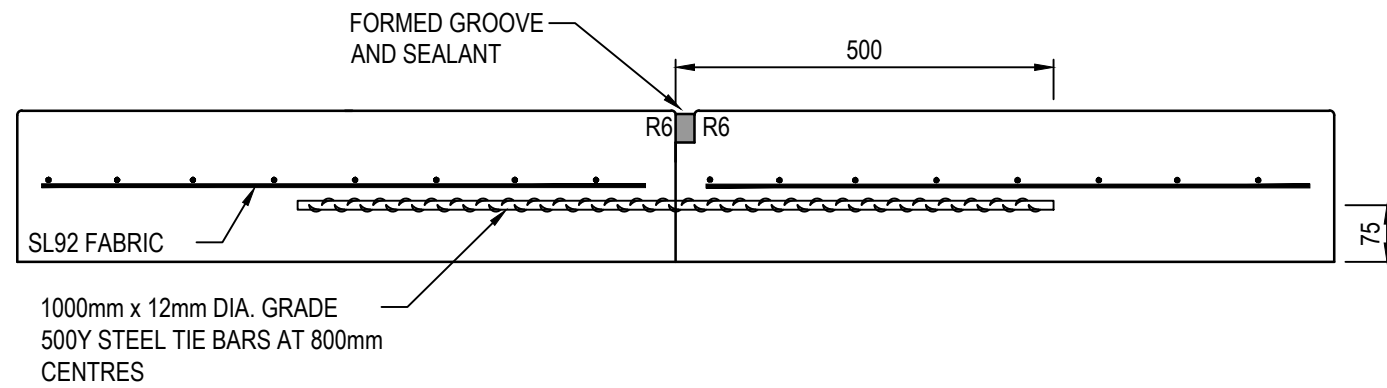
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TRANSVERSE CONTRACTION JOINT - DOWELLED
BUTT JOINT AT CONSTRUCTION JOINT (DJ)

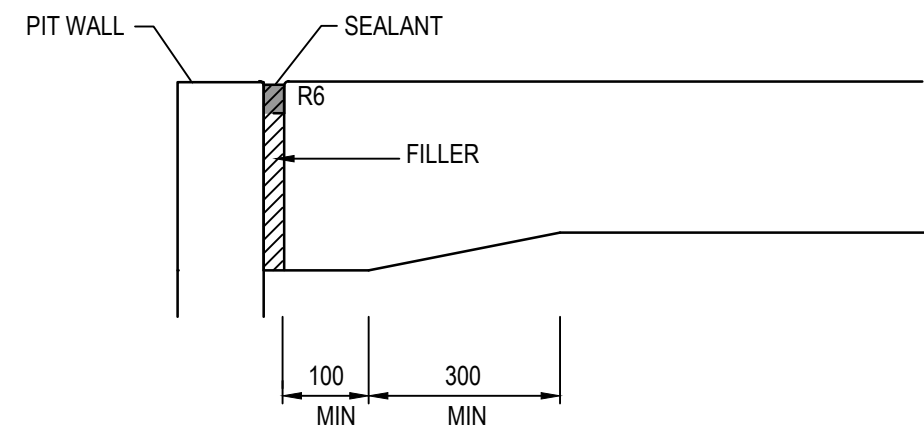


LONGITUDINAL WARPING JOINT - WEAKENED
PLANE JOINT (WJ)

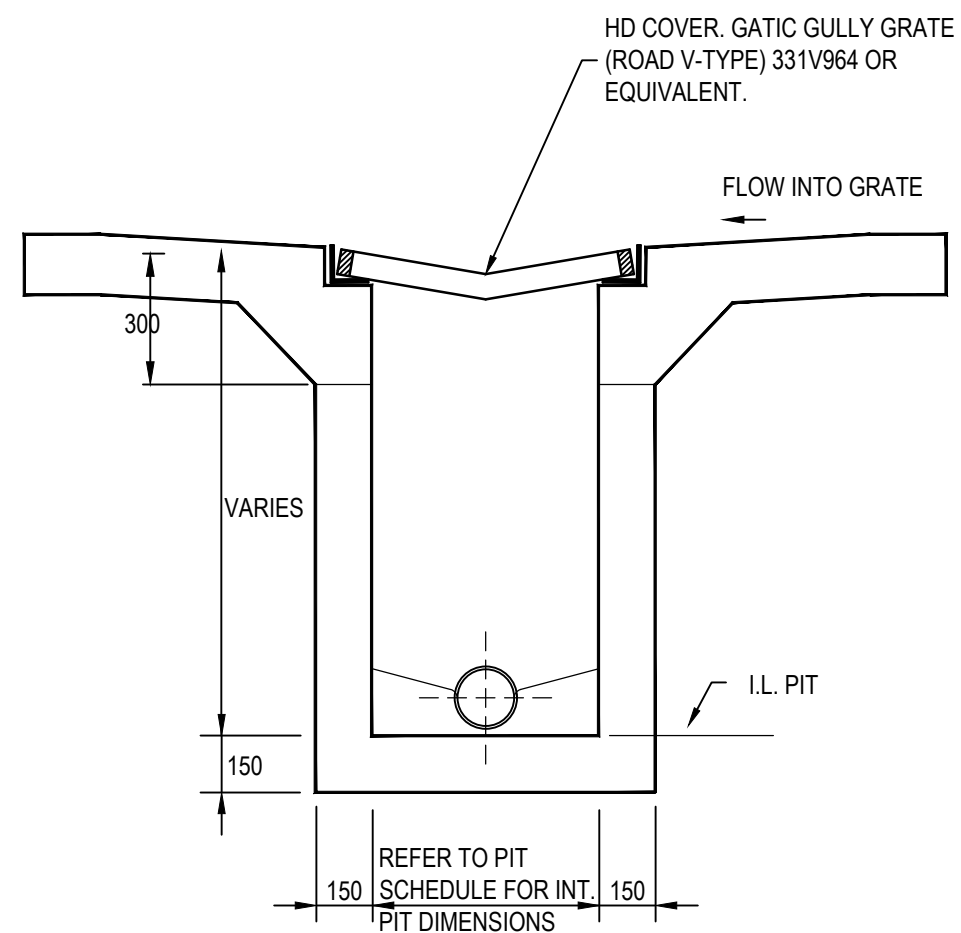


LONGITUDINAL WARPING JOINT -
CONSTRUCTION JOINT (WCJ)

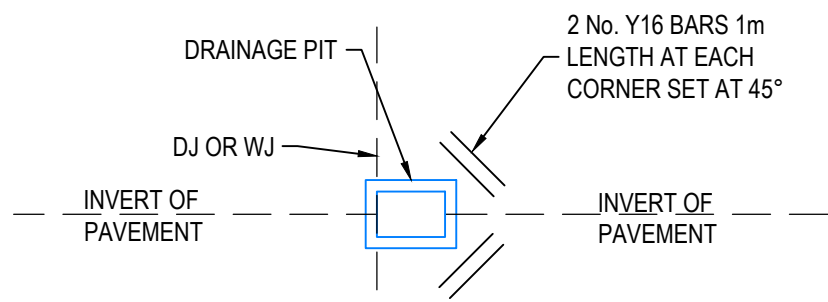
CONCRETE JOINTING DETAILS
NOT TO SCALE



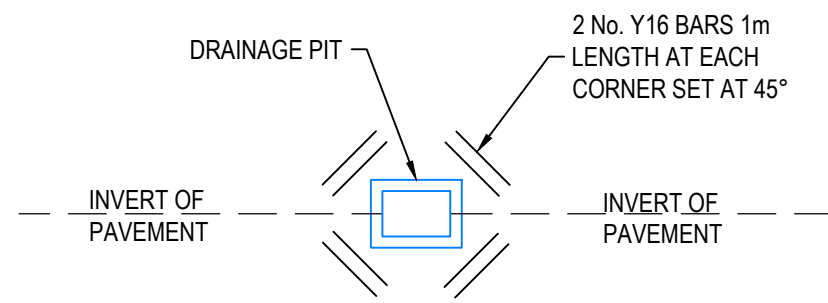
ISOLATION JOINT (IJ)



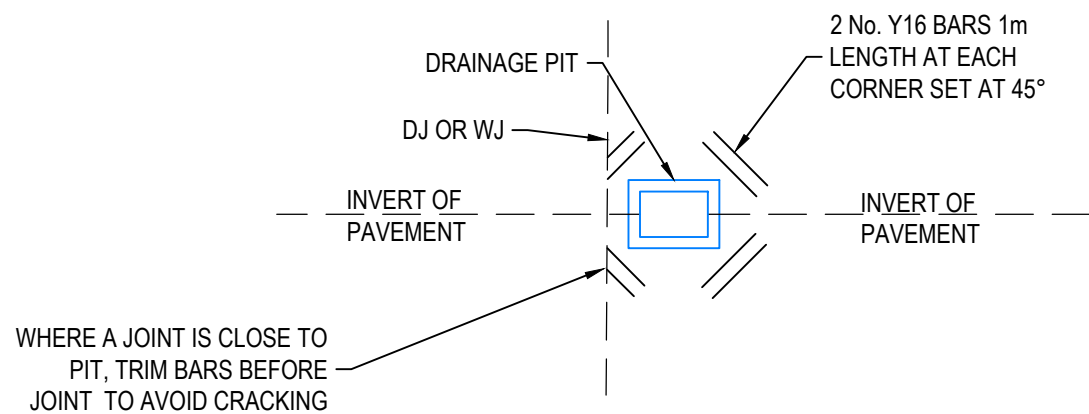
GRATED INLET PIT DETAILS
(IN CONCRETE PAVEMENT)
NOT TO SCALE



PIT REINFORCEMENT DETAIL
(PAVEMENT JOINT LOCATED AT ONE SIDE OF PIT)
NOT TO SCALE



PIT REINFORCEMENT DETAIL
(NO PAVEMENT JOINT AT EITHER SIDE OF PIT)
NOT TO SCALE



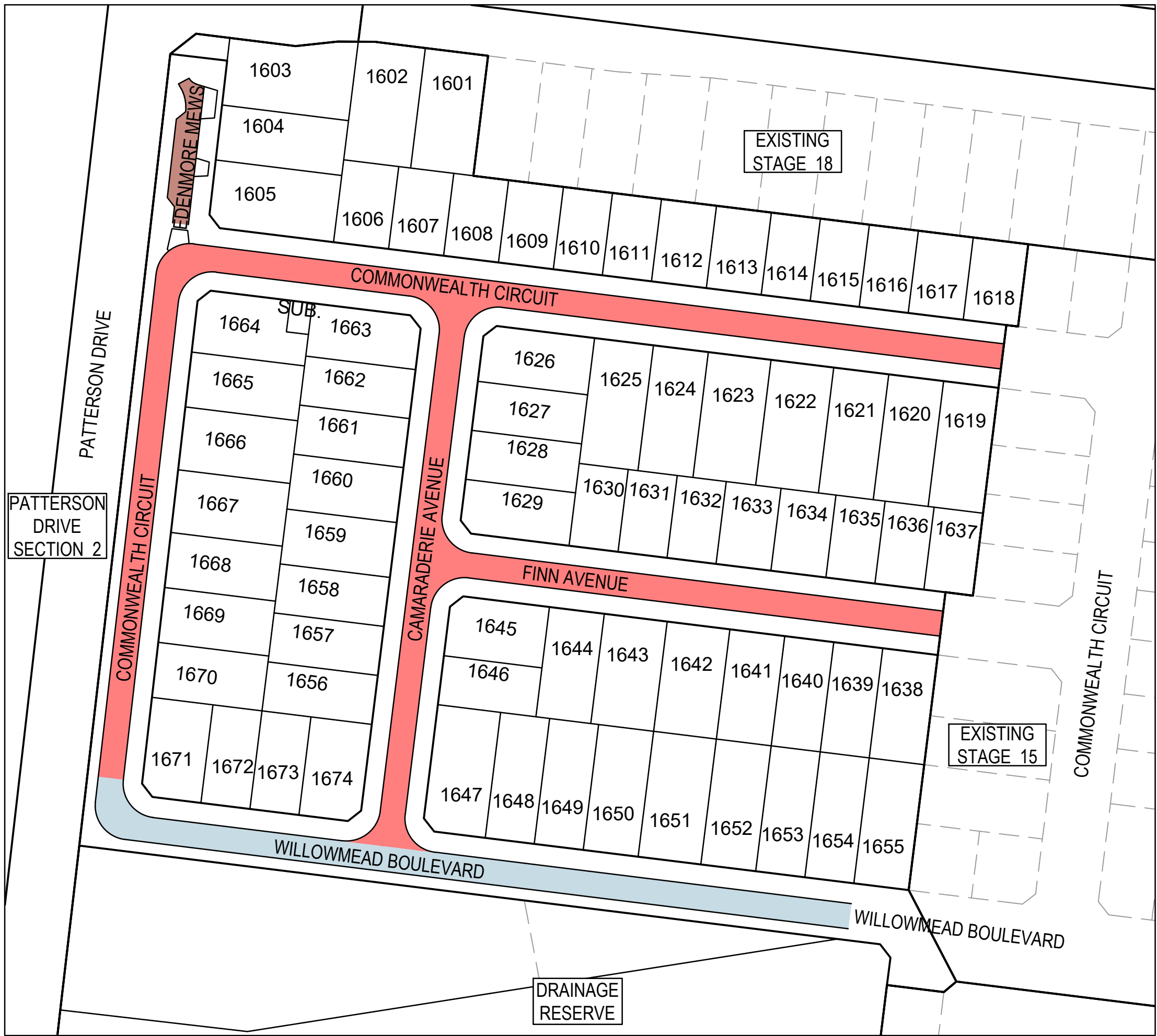
PIT REINFORCEMENT DETAIL
(PAVEMENT JOINT CLOSE TO PIT)
NOT TO SCALE

- JOINT DETAIL NOTES:
1. SAW JOINTS ARE TO BE PLACED AT A MAXIMUM 5m SPACING AT INTERSECTIONS AND CONSTRUCTED 18-24 HOURS AFTER POURING.
 2. TRANSVERSE/CONTRACTION JOINTS ARE TO BE PLACED AT A MAXIMUM SPACING OF 12m.
 3. ISOLATION JOINTS ARE TO BE PLACED AROUND PITS.
 4. ALL JOINTS SHALL BE LOCATED AND SPACED IN ACCORDANCE WITH "CEMENT AND CONCRETE ASSOCIATION OF AUSTRALIA - CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS 1997".

NOTE:
CONCRETE SHALL BE CURED IN ACCORDANCE WITH AS3600 AND NOT TO BE TRAFFICKED UNTIL AT LEAST SEVEN DAYS AFTER POURING.

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

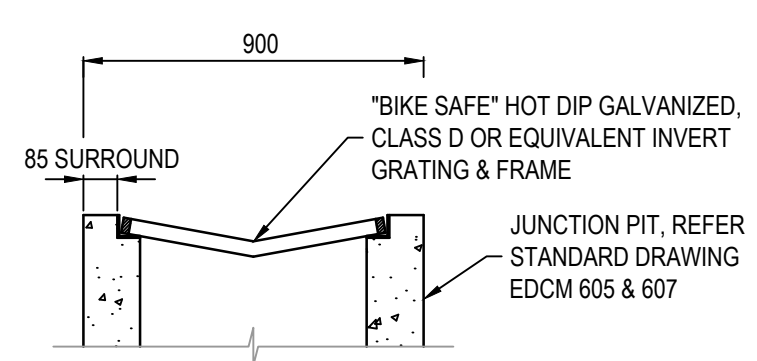
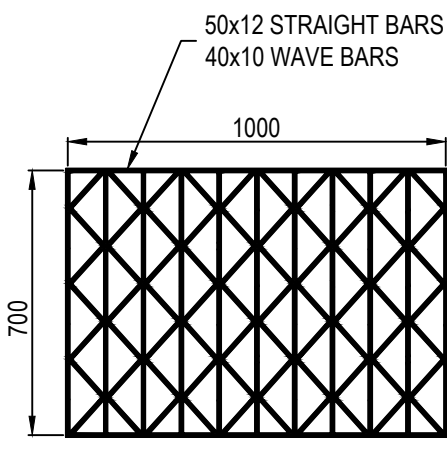
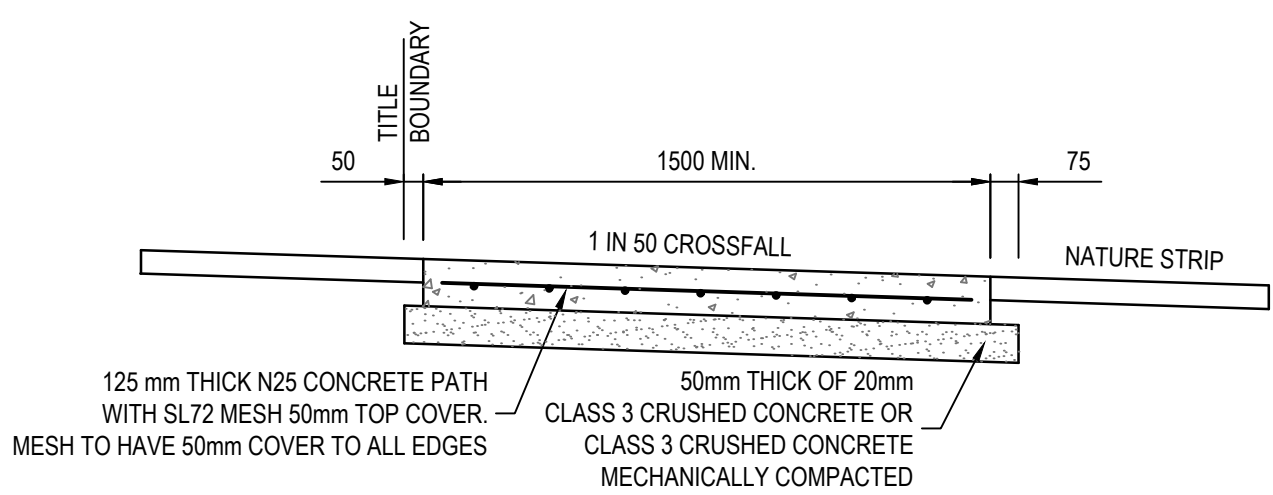
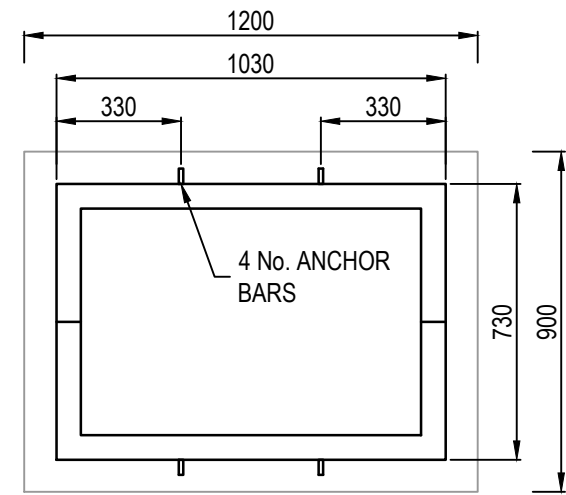
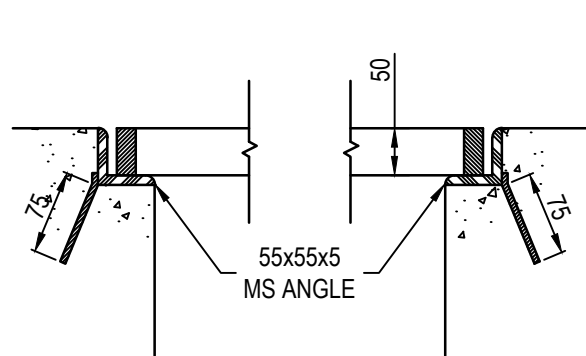
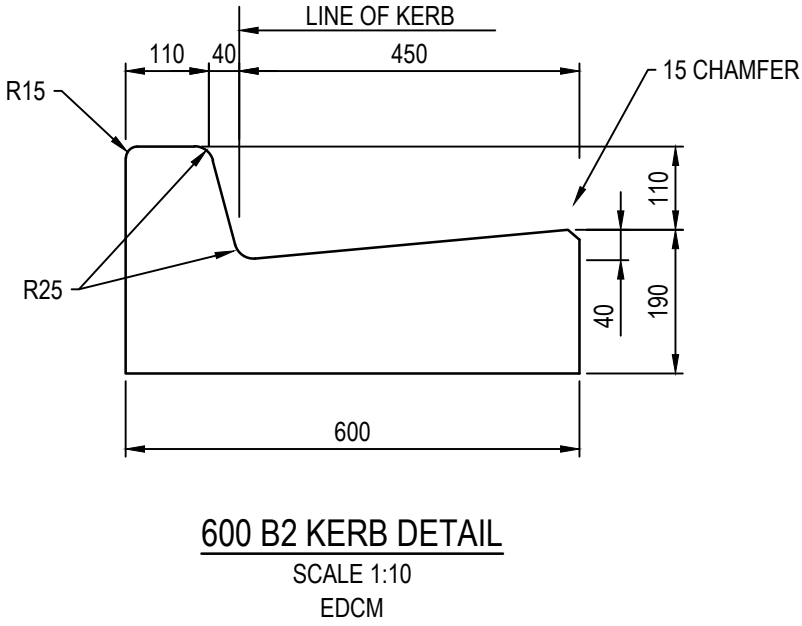
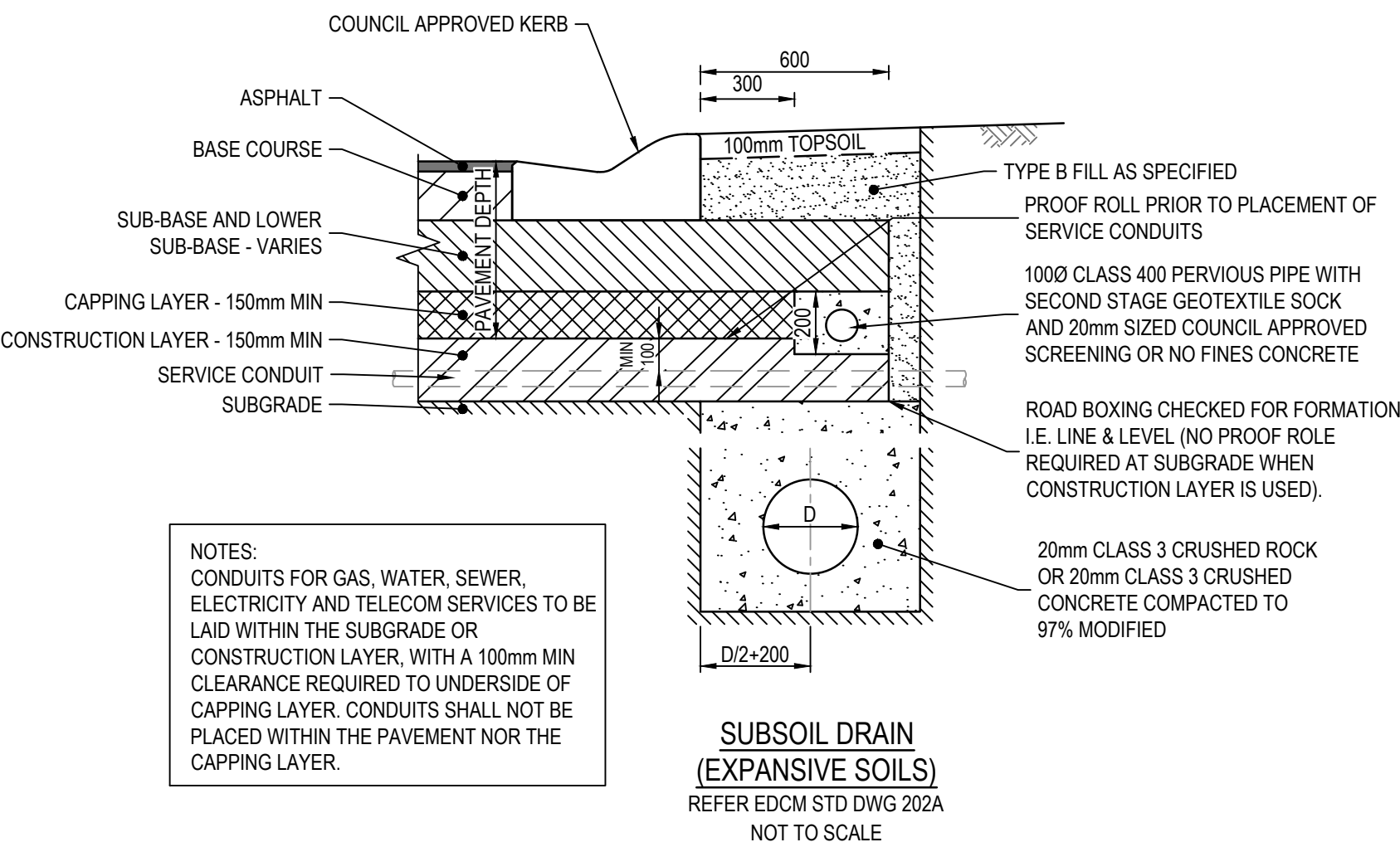
REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	Global-Mark.com.au®	Global-Mark.com.au®	Global-Mark.com.au®	PLAN OF SUB. NO.	PERMIT REF. NO.	SCALE	MEMBERSHIP	PROJECT / DRAWING NO.	SHEET No.	REVISION
A	17.09.24	ISSUED TO COUNCIL FOR APPROVAL	C.PIERRE	C.PIERRE	T.MOTET	A.BURROWS	Global-Mark.com.au®	Global-Mark.com.au®	Global-Mark.com.au®	PS921784A	717158	Scale 1:200	Member of the Surbana Jurong Group	367 G11 1700E-016-401	29 of 31	A



WILLOWMEAD BLVD			
810mm DEPTH PAVEMENT COMPOSITION		LAYER THICKNESS (mm)	MATERIAL
PAVEMENT LAYER			
ASPHALT	WEARING COURSE	30	SIZE 10mm TYPE N (CLASS 320 BINDER) ASPHALT
	BASE COURSE	30	SIZE 10mm TYPE N (CLASS 320 BINDER) ASPHALT
	BITUMINOUS PRIME	-	SAMI 10 S18RF
BASE COURSE	BASE	130	20mm CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% OF MDD (MODIFIED PROCTOR) AS1289.5.2.1
SUBBASE COURSE	UPPER SUBBASE	120	CLASS 3 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% OF MDD (MODIFIED PROCTOR) AS1289.5.2.1
SUBBASE COURSE	LOWER SUBBASE	200	CLASS 4 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% OF MDD (MODIFIED PROCTOR) AS1289.5.2.1
CAPPING	CAPPING LAYER	150	IMPORTED TYPE A FILL WITH CBR ≥8%, SWELL ≤ 1.5% AND PERMEABILITY ≤ 5 X 10-9M/SEC COMPACTED TO 98% OF MDD (STANDARD PROCTOR)
CONSTRUCTION LAYER		150	IMPORTED TYPE A FILL WITH CBR ≥8%, SWELL ≤ 1.5% AND PERMEABILITY ≤ 5 X 10-9M/SEC COMPACTED TO 98% OF MDD (STANDARD PROCTOR)
SUBGRADE		-	CBR VARIES BETWEEN 1.0% AND 3.0%. SUBGRADE DESIGN CBR = 2% EXPANSIVE

FINN AVENUE, CAMARADERIE AVENUE & COMMONWEALTH CIRCUIT			
780mm DEPTH PAVEMENT COMPOSITION		LAYER THICKNESS (mm)	MATERIAL
PAVEMENT LAYER			
ASPHALT	WEARING COURSE	30	SIZE 10mm TYPE L (CLASS 320 BINDER) ASPHALT
	BASE COURSE	30	SIZE 10mm TYPE N (CLASS 320 BINDER) ASPHALT
	BITUMINOUS PRIME	-	SAMI 10 S18RF
BASE COURSE	BASE	130	20mm CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% OF MDD (MODIFIED PROCTOR) AS1289.5.2.1
SUBBASE COURSE	UPPER SUBBASE	120	CLASS 3 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% OF MDD (MODIFIED PROCTOR) AS1289.5.2.1
SUBBASE COURSE	LOWER SUBBASE	170	CLASS 4 CRUSHED ROCK (OR HIGHER QUALITY MATERIAL) COMPACTED TO A MINIMUM DENSITY OF 98% OF MDD (MODIFIED PROCTOR) AS1289.5.2.1
CAPPING	CAPPING LAYER	150	IMPORTED TYPE A FILL WITH CBR ≥8%, SWELL ≤ 1.5% AND PERMEABILITY ≤ 5 X 10-9M/SEC COMPACTED TO 98% OF MDD (STANDARD PROCTOR)
CONSTRUCTION LAYER		150	IMPORTED TYPE A FILL WITH CBR ≥8%, SWELL ≤ 1.5% AND PERMEABILITY ≤ 5 X 10-9M/SEC COMPACTED TO 98% OF MDD (STANDARD PROCTOR)
SUBGRADE		-	CBR VARIES BETWEEN 1.0% AND 3.0%. SUBGRADE DESIGN CBR = 2% EXPANSIVE

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








- NOTES
- REFER TO EDM STANDARD DRAWINGS 605, 606 & 607 FOR PIT DETAILS.
 - GRATE FRAME TO BE "BIKE SAFE" TO AS3996-1992

GRATED JUNCTION PIT DETAIL
NOT TO SCALE

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REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	Global Management - ISO 9001	Global Management - AS/NZS 4801	Global Management - ISO 14001	PLAN OF SUB. NO.	PERMIT REF. NO.	Scale	Scale AS SHOWN AT	North Arrow	SMC	Member of the Surbana Jurong Group	Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC, 3008, Australia 03 9514 1500	mirvac	Olivine Estate - Stage 16 Whittlesea City Council Road and Drainage Pavement Details	MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
A	17.09.24	ISSUED TO COUNCIL FOR APPROVAL	C.PIERRE	C.PIERRE	T.MOTET	A.BURROWS				PS921784A		0 10 20 40	Scale 1:1000							367 G11	1700E-016-411	30 of 31	B
B	03.12.24	32MPA CONCRETE SPECIFIED AS PER COUNCIL COMMENTS	C.PIERRE	C.PIERRE	T.MOTET	A.BURROWS				717158													
SUBJECT TO APPROVAL																							

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

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	<div>Quality Management ISO 9001  Global-Mark.com.au®</div> <div>Risk Management AS/NZS 4360  Global-Mark.com.au®</div> <div>Environmental Management ISO 14001  Global-Mark.com.au®</div>			PLAN OF SUB. NO. PS921784A	PERMIT REF. NO. 717158	<div> SMEC</div> <div>Member of the Surbana Jurong Group ABN 47 065 475 149 Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC, 3008, Australia 03 9514 1500</div>		<div></div>		Olivine Estate - Stage 16 Whittlesea City Council Road and Drainage Safety In Design			
A	17.09.24	ISSUED TO COUNCIL FOR APPROVAL	C.PIERRE	C.PIERRE	T.MOTET	A.BURROWS	<div>SUBJECT TO APPROVAL</div>			SCALE AS SHOWN AT A1		MELWAYS REF 367 G11		PROJECT / DRAWING No. 1700E-016-500		SHEET No. 31 of 31		REVISION A	