

Botania

Stage 8



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GENERAL NOTES (MELTON CITY COUNCIL)

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH A.S. 4000-1992 GENERAL CONDITIONS OF CONTRACT AND CURRENT MELTON SHIRE COUNCIL SPECIFICATIONS AND EDM ADDENDUM STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SUPERVISING ENGINEER OR THEIR 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 HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
 - ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
- THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 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.
- TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED FROM THE SITE PRIOR TO THE COMMENCEMENT OF WORKS. NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY EXISTING TREE UNTIL APPROVAL HAS BEEN GIVEN BY COUNCIL'S SUPERVISING OFFICER.
- 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.
- THE CONTRACTOR WHEN ENGAGED IN BLASTING OPERATION, 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 ENGINEER AND MUST OBTAIN ALL RELEVANT PERMITS.
- THE CONTRACTOR IS TO OBTAIN THE NECESSARY ROAD OPENING PERMIT PRIOR TO UNDERTAKING ANY WORKS WITHIN A PREVIOUSLY CONSTRUCTED ROADWAY.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
- THE CONTRACTOR SHALL CO-OPERATE WITH OTHER AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE.
- ANY EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE COUNCIL REPRESENTATIVE.
- TBMS TO BE MAINTAINED AND PROTECTED BY THE CONTRACTOR FOR THE DURATION OF THE WORKS.
- ALL CONCRETE TO BE USED IN THE CONTRACT WORKS SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 25MPa AT 28 DAYS.
- THE CONTRACTOR IS TO ENSURE THAT HIS CONSTRUCTION PROCEDURES AND STANDARDS CONTROL THE VOLUME AND LOCATION FOR COLLECTION OF SEDIMENT DISCHARGE ACCORDING TO CURRENT EPA - ENVIRONMENTAL GUIDELINES FOR MAJOR CONSTRUCTION SITES. THE CONTRACTOR IS TO CONSTRUCT SEDIMENT TRAPS AT THE ENDS OF ALL TEMPORARY CHANNELS AND CATCH DRAINS. THEY ARE TO BE MAINTAINED THROUGH THE DURATION OF WORKS AND MAINTENANCE TO BE TRANSFERRED TO THE PRINCIPAL UPON COMPLETION OF THE WORKS.
- ALL BATTERS TO BE 1 IN 6 UNLESS OTHERWISE INDICATED. FILLING IN PROPERTIES AND ROAD RESERVE IS TO BE CARRIED OUT USING APPROVED CLAY FILL. TOPSOIL AND ALL VEGETABLE MATTER TO BE STRIPPED FROM FILL SITE PRIOR TO FILLING. WHERE FILL IS IN EXCESS OF 300mm IN DEPTH, THE FILL IS TO BE LEVEL 1 IN ACCORDANCE WITH AS3798. EARTH FILL IS TO BE COMPACTED TO A RELATIVE COMPACTION COMPARED TO A STANDARD COMPACTION TEST AS SPECIFIED BY VIC ROADS OF:
 - 100% FOR ALL FILL MATERIAL AND MATERIAL UNDER FILL THAT IS LESS THAN 450mm FROM THE SURFACE.
 - 95% FOR ALL FILL GREATER THAN 450mm FROM THE SURFACE.
- ADDITIONAL AND OVEREXCAVATION SHALL BE BACKFILLED IN ACCORDANCE WITH THE PROVISIONS OF THE SPECIFICATION.
- THE NATURE STRIPS AND CUT OR FILLED AREAS ARE TO BE TOPSOILED WITH 100mm OF APPROVED MATERIAL.
- THE SUBGRADE BELOW ALL PAVEMENTS SHALL BE COMPACTED TO A DRY DENSITY NOT LESS THAN 97% OF THE MAX. FOUND IN STANDARD COMPACTION TEST IN AREAS OF CUT TO A DEPTH OF 150mm AND IN AREAS OF FILL TO A DEPTH OF 450mm.
- THE RELATIVE COMPACTION OF CRUSHED ROCK FOR PAVEMENTS SHALL BE COMPLETED AT THE OPTIMUM MOISTURE CONTENT TO A DRY DENSITY (BASED ON THE PERCENTAGE OF THE MAXIMUM DRY DENSITY OBTAINED IN THE MODIFIED COMPACTION TEST) AS BELOW:
 - FOR DEPTH 0-100mm BELOW TOP OF BASE, RELATIVE COMPACTION OF 100%.
 - FOR DEPTH 100-300mm BELOW TOP OF BASE, RELATIVE COMPACTION OF 98%.
 - FOR DEPTH OVER 300mm BELOW TOP OF BASE, RELATIVE COMPACTION OF 97%.
- 100mm NOMINAL DIAMETER SUBSOIL DRAIN SHALL BE PROVIDED BEHIND ALL KERB AND CHANNEL AS PER STANDARD DRAWING EDM 202.
- CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT. BOTH KERBS ARE TO BE MARKED WITH THE LETTERS G W AND T ABOVE CONDUIT LOCATIONS AS SPECIFIED. CONDUITS TO BE PLACED MINIMUM OF 5m FROM BOUNDARIES WHERE POSSIBLE AND TO THE SATISFACTION OF THE SUPERINTENDENT IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS. NBN CONDUITS WILL BE SUPPLIED BY NBN'S EXPENSE. IN TRENCHES EXCAVATED AND BACKFILLED BY THE CONTRACTOR, NBN SIZES VARIES - WHITE PVC NBN TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS. GAS AND WATER CONDUITS TO BE 50mm DIA. HEAVY DUTY PVC LAID AT A MINIMUM DEPTH OF 600mm BELOW ROAD FINISHED SURFACE LEVELS. FOR DUAL WATER SUPPLY CONDUIT SHALL BE 100mm DIA.
- ALL SERVICING TRENCHES UNDER ROADS, FOOTPATHS, DRIVEWAYS, PARKING BAYS ETC. ARE TO BE BACKFILLED WITH CLASS 2 FOR.
- ALL HOUSE DRAIN CONNECTIONS ARE TO BE LOCATED NO CLOSER THAT 6.00m FROM THE SIDE BOUNDARY OR FROM ANY EASEMENT ALONG THE SIDE BOUNDARY.
- ALL PROPERTY INLETS TO BE LOCATED 1.0m FROM THE LOW SIDE BOUNDARY UNLESS OTHERWISE SHOWN. THEY ARE TO BE LAID AT A MINIMUM DEPTH OF 400mm AS SPECIFIED IN THE STANDARD DRAWINGS.
- DRAINAGE PITS SHALL BE CAST MONOLITHICALLY. CEMENT RENDER SHALL ONLY BE USED TO REPAIR DEFECTS.
- ALL RESIDENTIAL FOOTPATHS TO BE MINIMUM 1.50m WIDE UNLESS OTHERWISE INDICATED. FOOTPATH TO BE 125mm DEPTH OF 25MPa CONCRETE CENTRALLY REINFORCED WITH S172 MESH, AS PER EDM 401 ON 50mm COMPACTED DEPTH 20mm CLASS 3 FOR BASE.
- ALL RESIDENTIAL DRIVEWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH EDM 501 TO 503. SINGLE DRIVEWAYS TO BE OFFSET 0.75m FROM SIDE BOUNDARY OR EASEMENT.
- ALL ALLOTMENTS AND RESERVES SHALL BE SMOOTHED, GRADED AND SHAPED TO AN EVEN SURFACE.
- APPROVAL FOR THE REMOVAL AND DISPOSAL OF ANY EXCAVATED MATERIAL OR TOPSOIL IS REQUIRED FROM COUNCIL.
- THE CONTRACTOR TO ERECT STREET NAME SIGNS & POLE AS DIRECTED BY THE SUPERINTENDENT.
- ALL LINEMARKING, SIGNING & TRAFFIC CONTROL DEVICES FOR THIS PROJECT TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742. ALL LINEMARKING TO BE LONG LIFE THERMOPLASTIC PAINT.
- CONFIRMATION OF THE ASPHALT WEARING COURSE IS TO BE DEFERRED UNTIL INSTRUCTED BY THE SUPERINTENDENT.
- ALL EXOTIC (NON-NATIVE) TREES AND SHRUBS, INCLUDING DEAD TREES, NOT SHOWN ON THE DRAWINGS BUT LOCATED WITHIN THE WORKS AREA TO BE REMOVED AND DISPOSED OFFSITE.
- ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVE SHALL BE SURFACED WITH A 100mm LAYER TOPSOIL AS SPECIFIED. ALL FILLING ON ALLOTMENTS TO BE COMPACTED TO 95% STANDARD COMPACTION IN 150mm LAYERS AND AS PER THE SPECIFICATION. WHERE THERE IS FILL IN EXCESS OF 300mm IN DEPTH, THE CONTRACTOR IS TO CARRY OUT SOIL TESTS TO THE REQUIREMENTS OF SECTION 8 AS SPECIFIED IN AS3798-1996 TO SHOW THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
- INSTALL BLUE RAISED REFLECTIVE PAVEMENT MARKER (BRPPM) ON ROAD CENTRELINE AND 'GROUND BALL' MARKER POST TO INDICATE LOCATION OF FIRE PLUG.
- 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 DRAINAGE PIT COVERS AND GRATES IN ACCORDANCE WITH EDM 601 TO 608.
- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CL3 CR TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 97% OF THE MAXIMUM FOUND IN THE STANDARD COMPACTION:
 - BENEATH THE ROAD PAVEMENT OR DRIVEWAY CROSSOVER TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER.
 - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45° ANGLE OF REPOSE FROM THE NEAR LOWER EDGE.

GAS - STANDARD NOTES

- GAS MAINS, FITTINGS AND MARKER TAPE ARE TO BE SUPPLIED BY THE GAS AUTHORITY.
- EXCAVATION, SUPPLY AND PLACEMENT OF REQUIRED BACKFILL TO BE BY OTHERS.
- TWO WEEKS OF NOTIFICATION OF COMMENCEMENT OF EXCAVATION WORKS SHALL BE GIVEN TO THE GAS AUTHORITY.

WARNING

SAFETY MEASURES REQUIRED

Please note there are risks attached to the construction of this project, and any ongoing maintenance of structures. Consider the safety of all. For potential risks, consequences and controls refer to Safety In Design Risk Register SID P4.E6. 3070E-007-500
ASSESS THE RISK - STAY SAFE

WARNING

BEWARE OF UNDERGROUND SERVICES

The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works
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AS CONSTRUCTED PLANS

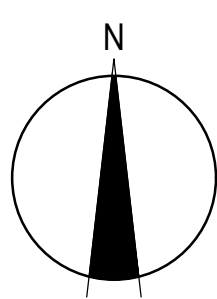
The purpose of these as-constructed plans is to update the design drawings to show significant changes which occurred during construction. Note that the levels shown on these plans are design levels, and have not been verified by survey. All information shown on these plans should be verified on site.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



ISSUED FOR CONSTRUCTION

PLAN OF SUB. NO.
PS847502B
PERMIT REF. NO.
PA2018/6004/1

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SCALE AS SHOWN AT A1

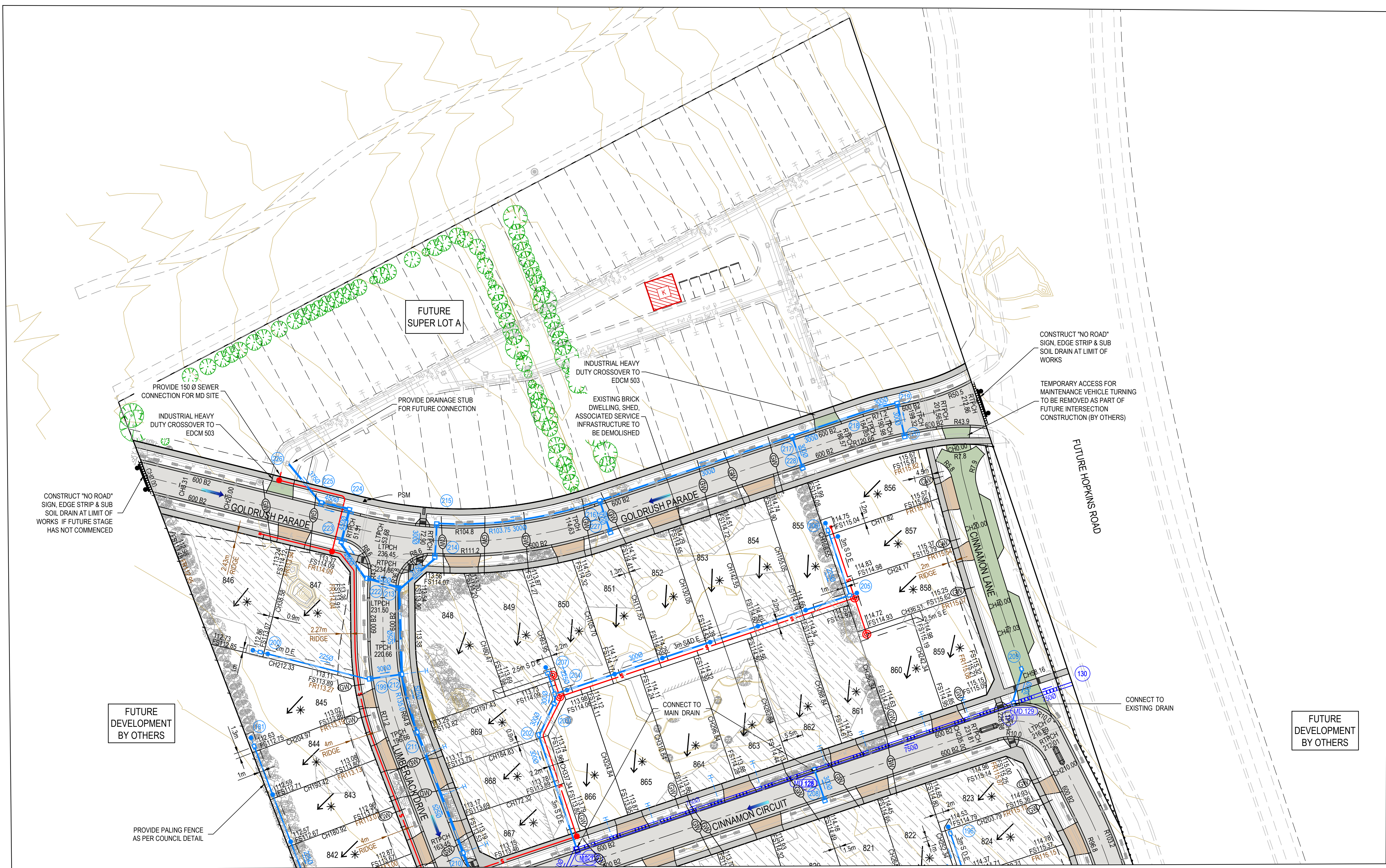


GROWLAND

Botania - Stage 8
Melton City Council
Road and Drainage
Cover Plan & General Notes

MELWAYS REF
355 G5
PROJECT / DRAWING No.
3070E-008-101

SHEET No.
01 of 27
REVISION
1



LEGEND - LAYOUT PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	ELECTRICITY (U.GROUND)
	ELECTRICITY (O.HEAD)
	GAS
	TELSTRA
	OPTIC FIBRE
	WATER
	RECYCLE WATER
	AG. DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING HOUSE DRAIN
	EXISTING ELECTRICITY (UNDER GROUND)
	EXISTING ELECTRICITY OVERHEAD
	EXISTING GAS
	EXISTING TELSTRA
	EXISTING OPTIC FIBRE
	EXISTING WATER
	EXISTING RECYCLED WATER
	EXISTING AG. DRAIN
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE ELECTRICITY (UNDER GROUND)
	FUTURE ELECTRICITY OVERHEAD
	FUTURE GAS
	FUTURE TELSTRA
	FUTURE OPTIC FIBRE
	FUTURE WATER
	FUTURE RECYCLED WATER
	FUTURE AG. DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	ZERO LOT LINES
	141.34 EXISTING SURFACE LEVEL
	FS140.35 FINISHED BUILDING LINE LEVEL
	FR157.40 FINISHED RIDGE LINE LEVEL
	CH270.00 CHAINAGE
	TW159.60 TOP OF RETAINING WALL LEVEL
	BW159.00 BOTTOM OF RETAINING WALL LEVEL
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	STRUCTURAL FILL > 200mm DEEP
	EXISTING STRUCTURAL FILL > 200mm DEEP
	CUT > 200mm DEEP
	DIRECTION OF FALL
	OVERLAND FLOW
	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	EXISTING TREE TO BE RETAINED
	EXISTING TREE TO BE REMOVED
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING

REFER SHEET 3070E-008-112 FOR CONTINUATION

ROAD NAME	ROAD CLASSIFICATION	RESERVE WIDTH (m)	ROAD WIDTH (m)			KERB TYPE		VERGE WIDTH (m)	
			LIP TO LIP	INV TO INV	BACK TO BACK	NTH/WEST	STHEAST	NTH/WEST	STHEAST
LUMBERJACK DRIVE, GOLDRUSH PARADE, CINNAMON CIRCUIT (LOTS 817-822; 828-833)	AS	16.00	6.40	7.30	7.60	600 B2	600 B2	4.20	4.20
CINNAMON CIRCUIT (LOTS 826-827)	AS	14.50	6.40	7.30	7.60	600 B2	600 B2	5.85	1.85
CINNAMON CIRCUIT (LOTS 859-860)	AS	14.50	6.40	7.30	7.60	600 B2	600 B2	4.20	4.20
CINNAMON CIRCUIT (LOTS 823-825)	AS	14.50	6.40	7.30	7.60	600 B2	600 B2	5.05	1.85
CINNAMON LANE (LOTS 856-859)	AS	14.50	5.85	-	-	-	-	5.55	2.95

ROAD NAME	SERVICES OFFSET TABLE			
	GAS	WATER	ELECTRICITY	OPTIC FIBRE
LUMBERJACK DRIVE	2.00 W	2.50 W	2.60 E	1.90 E
GOLDRUSH PARADE, CINNAMON CIRCUIT (LOTS 817-822; 828-833)	2.00 N	2.50 N	2.60 S	1.90 S
CINNAMON CIRCUIT (LOTS 826-827)	2.00 W	2.50 W	4.00 W	3.50 W
GOLDRUSH PARADE (LOT 856)	2.00 W	2.50 W	2.60 E	1.90 E
CINNAMON CIRCUIT (LOTS 859-860)	2.00 N	2.50 N	2.60 S	1.90 S
CINNAMON CIRCUIT (LOTS 823-825)	2.00 W	2.50 W	4.00 W	3.50 W
CINNAMON LANE (LOTS 856-859)	2.00 W	2.50 W	4.50 W	4.00 W

WARNING
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DIAL 1100 BEFORE YOU DIG
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AS CONSTRUCTED PLANS

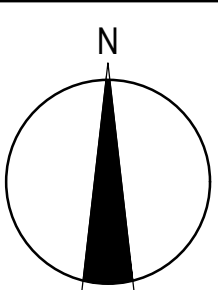
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SCALE AS SHOWN AT A1



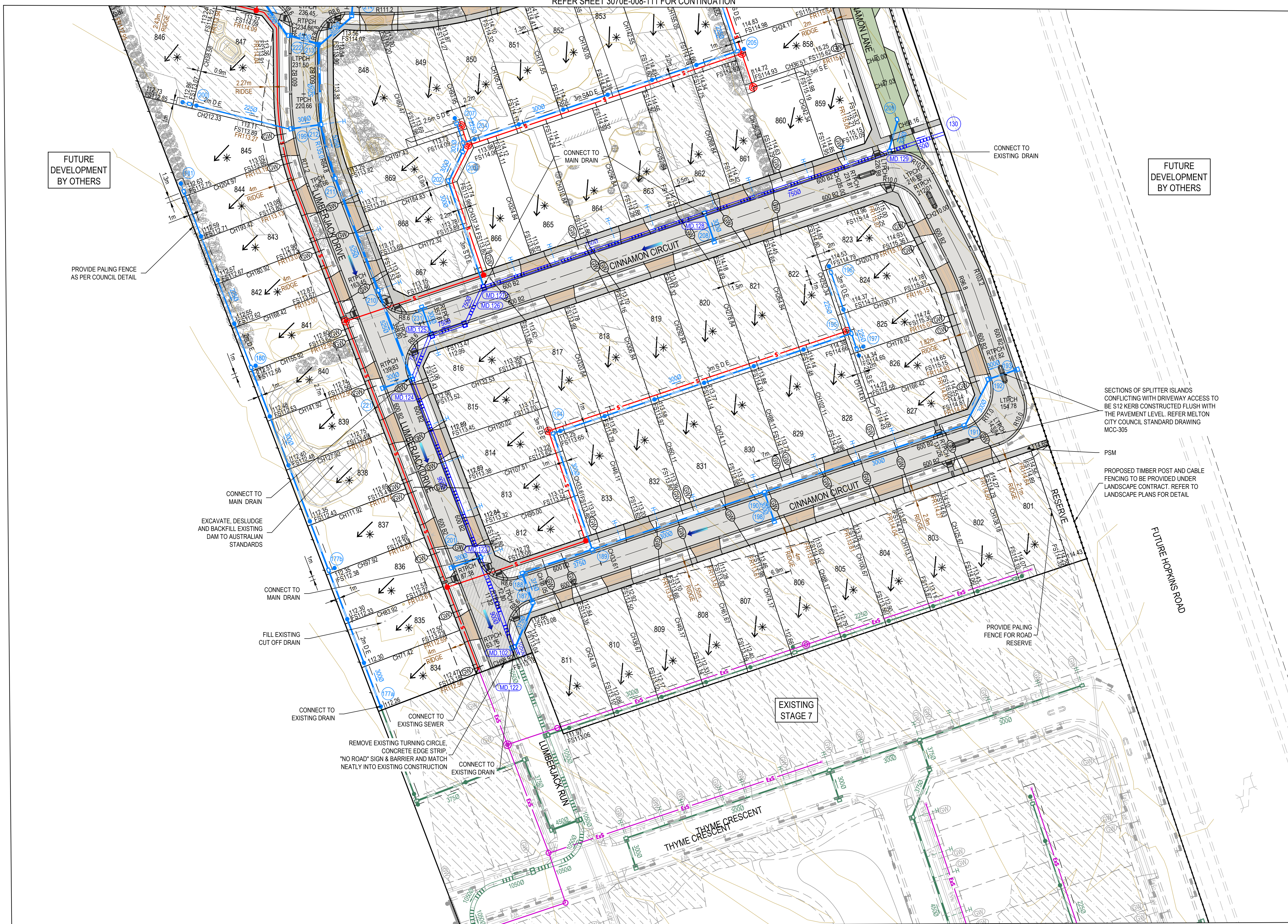
SMEC
Member of the Surlana Jurong Group
ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

GROWLAND

Botania - Stage 8
Melton City Council
Road and Drainage
Layout Plan - 1

MELWAYS REF 355 G5	PROJECT / DRAWING No. 3070E-008-111	SHEET No. 02 of 27	REVISION 3
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REFER SHEET 3070E-008-111 FOR CONTINUATION



LEGEND - LAYOUT PLAN

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	STORMWATER DRAIN, PIT & PROPERTY INLET
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	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN 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 SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE ELECTRICITY (UNDER GROUND)
	FUTURE ELECTRICITY OVERHEAD
	FUTURE GAS
	FUTURE TELSTRA
	FUTURE OPTIC FIBRE
	FUTURE WATER
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AS CONSTRUCTED PLANS

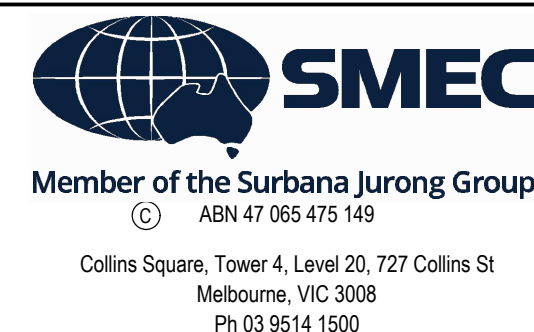
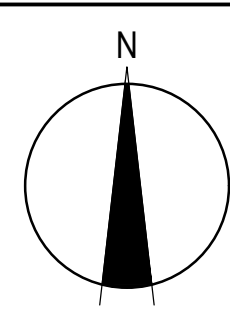
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PLAN OF SUB. NO.
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 PA2018/6004/1

0 5 10 20
 Scale 1:500
 SCALE AS SHOWN AT A1



Botania - Stage 8
 Melton City Council
 Road and Drainage
 Layout Plan - 2

MELWAYS REF: 355 G5 PROJECT / DRAWING NO: 3070E-008-112 SHEET NO: 03 of 27 REVISION: 3



AS CONSTRUCTED PLANS

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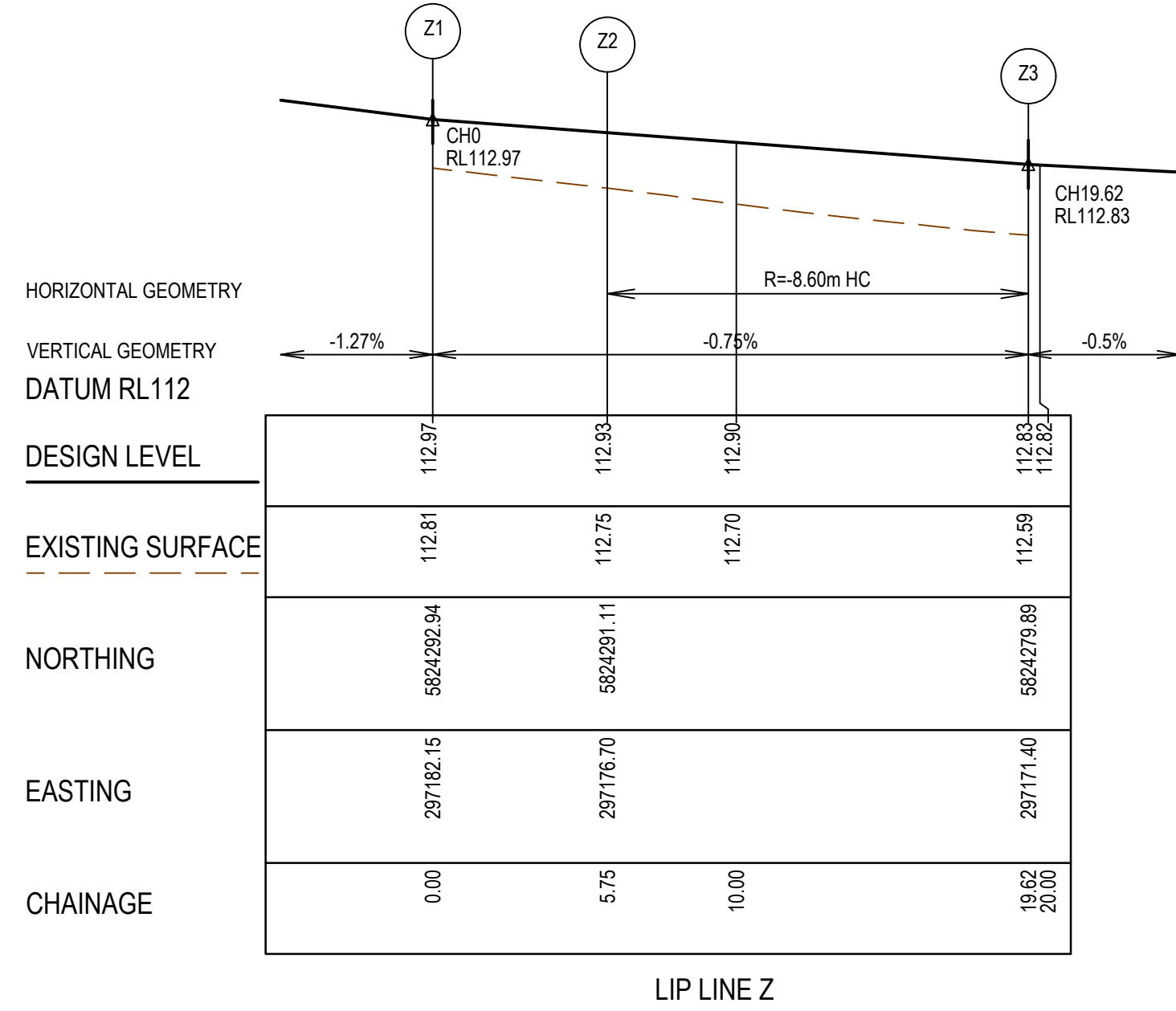
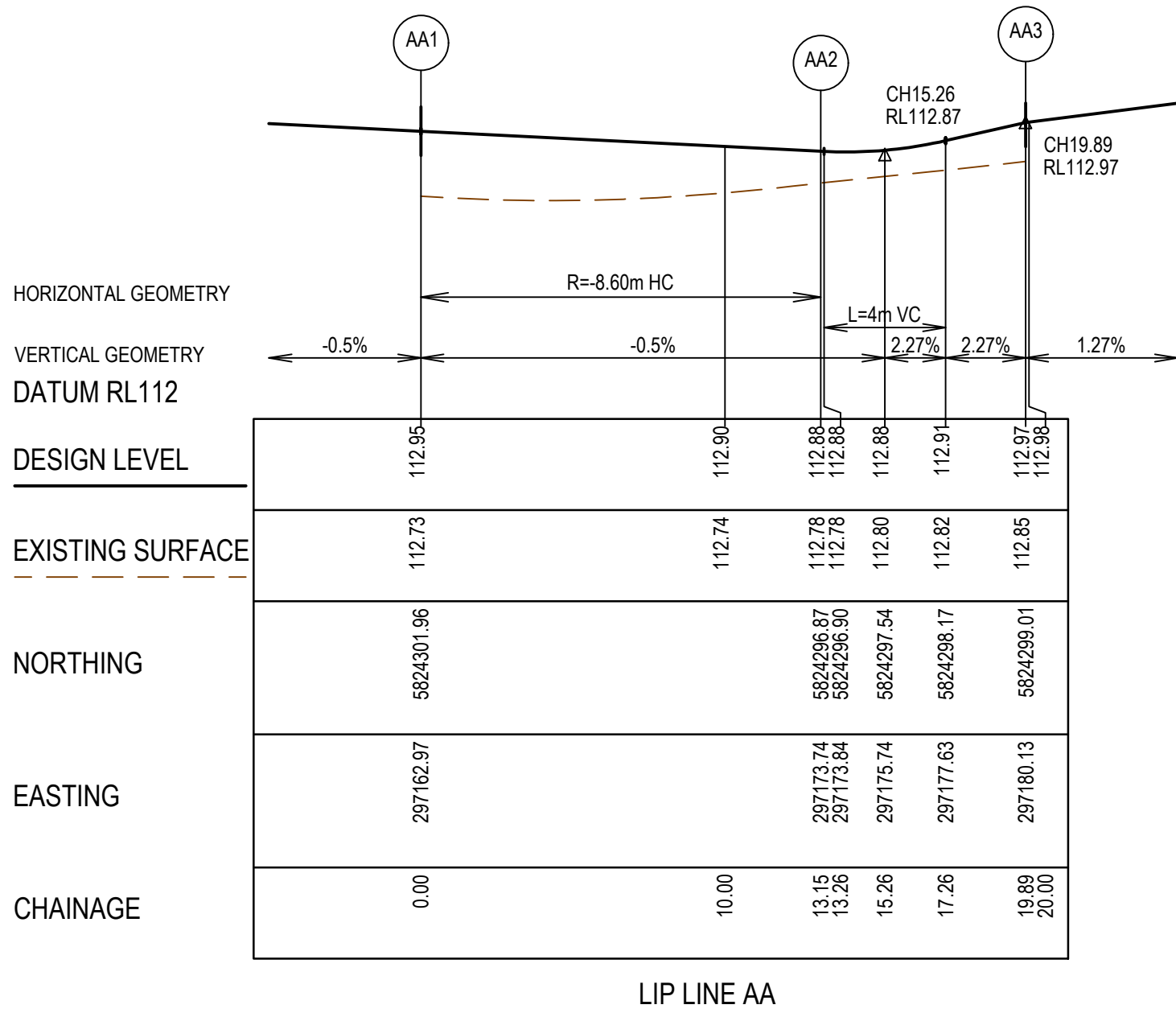
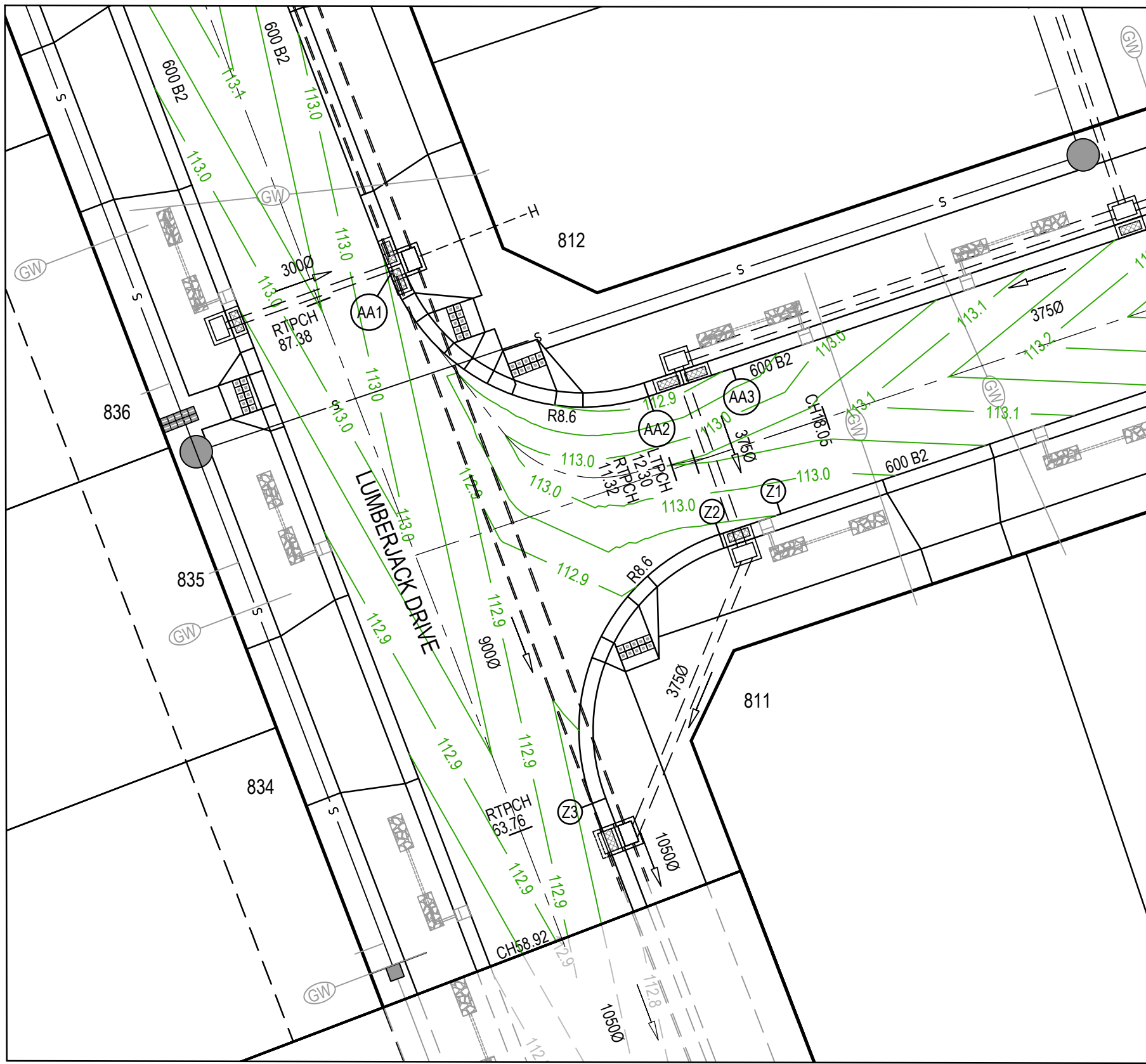
0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

Member of the Surbana Jurong Group
ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
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Botania - Stage 8
Melton City Council
Road and Drainage
Signage & Linemarking Plan

MELWAYS REF 355 G5	PROJECT / DRAWING No. 3070E-008-171	SHEET No. 04 of 27	REVISION 1
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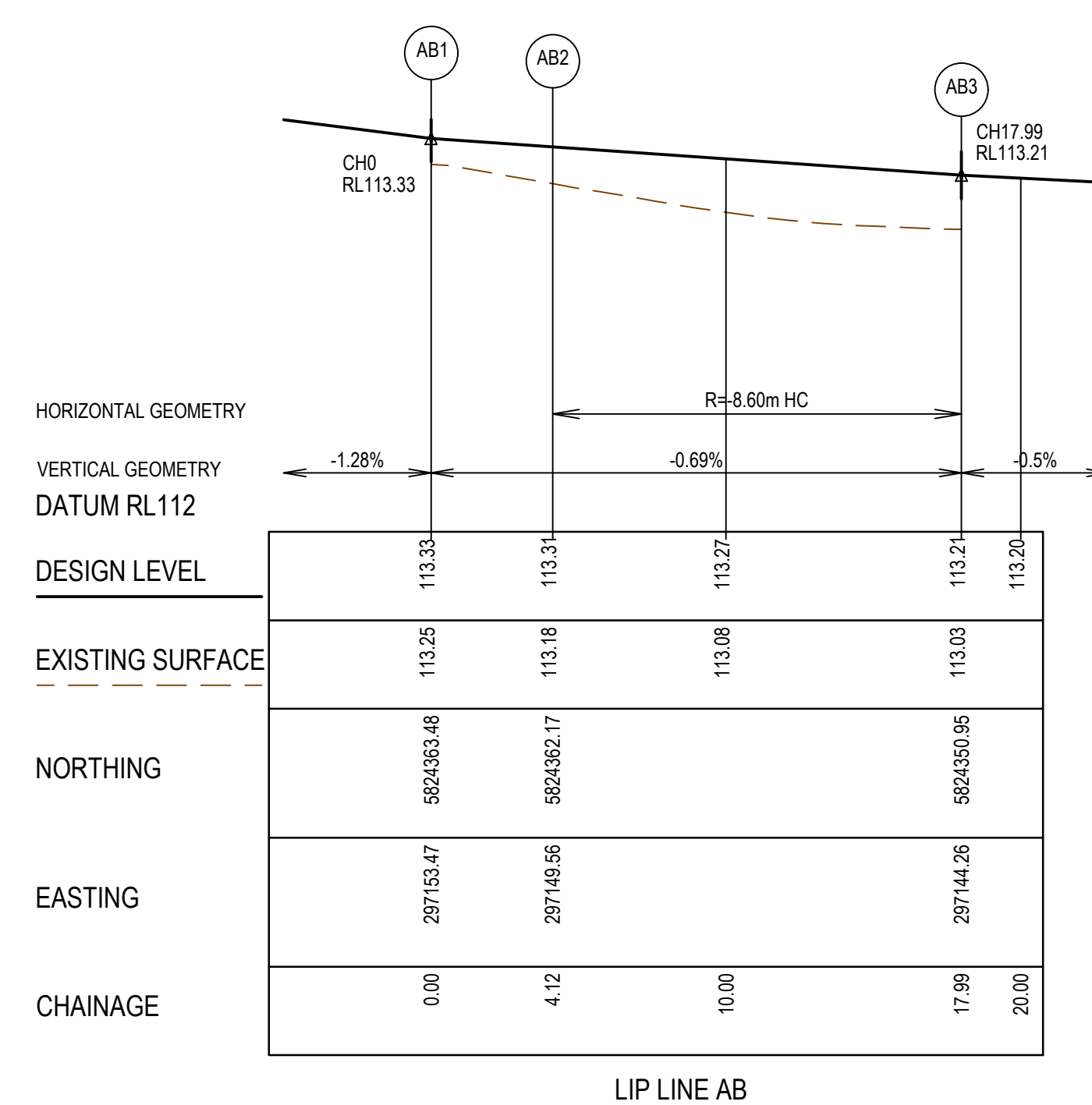
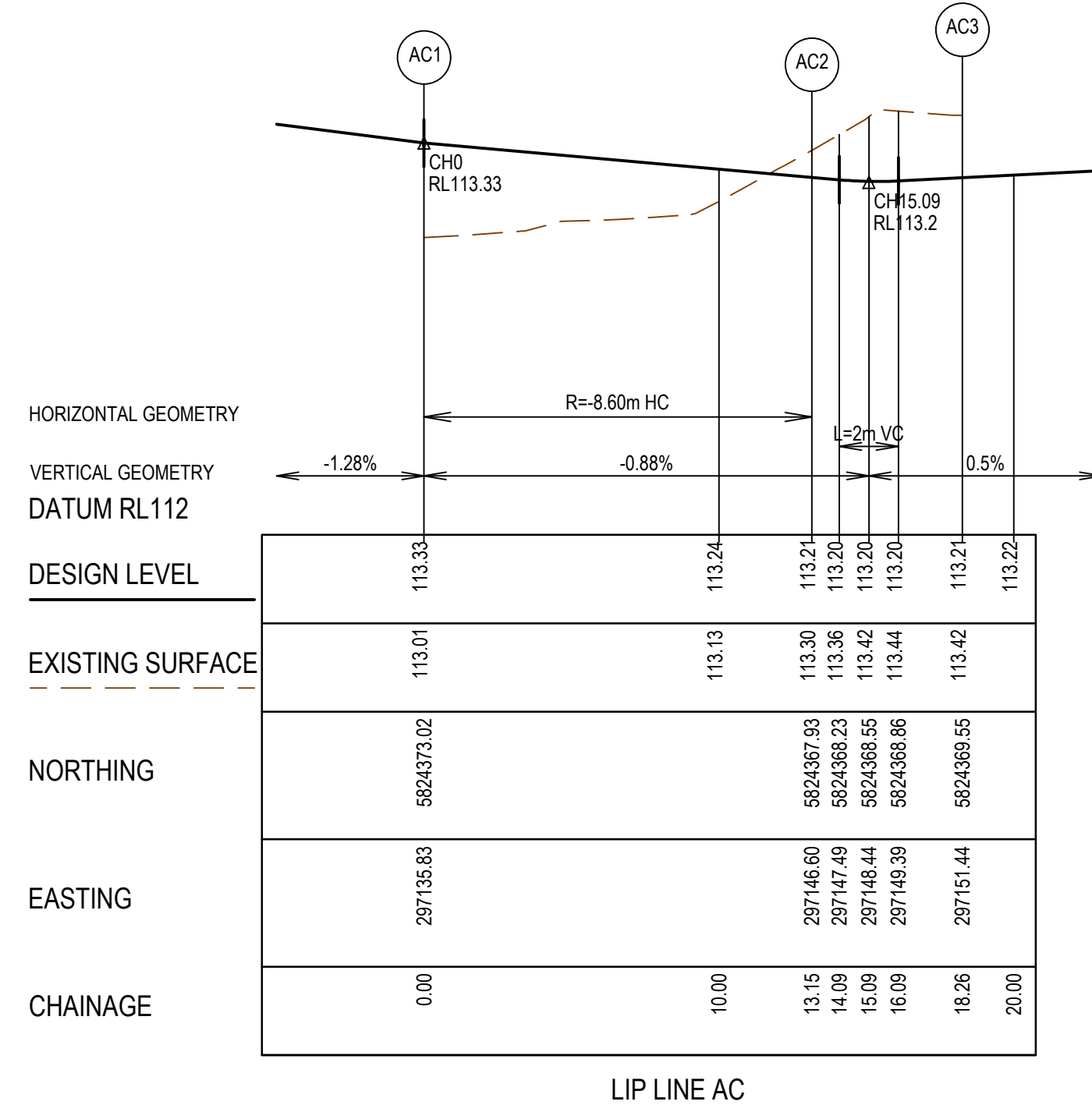
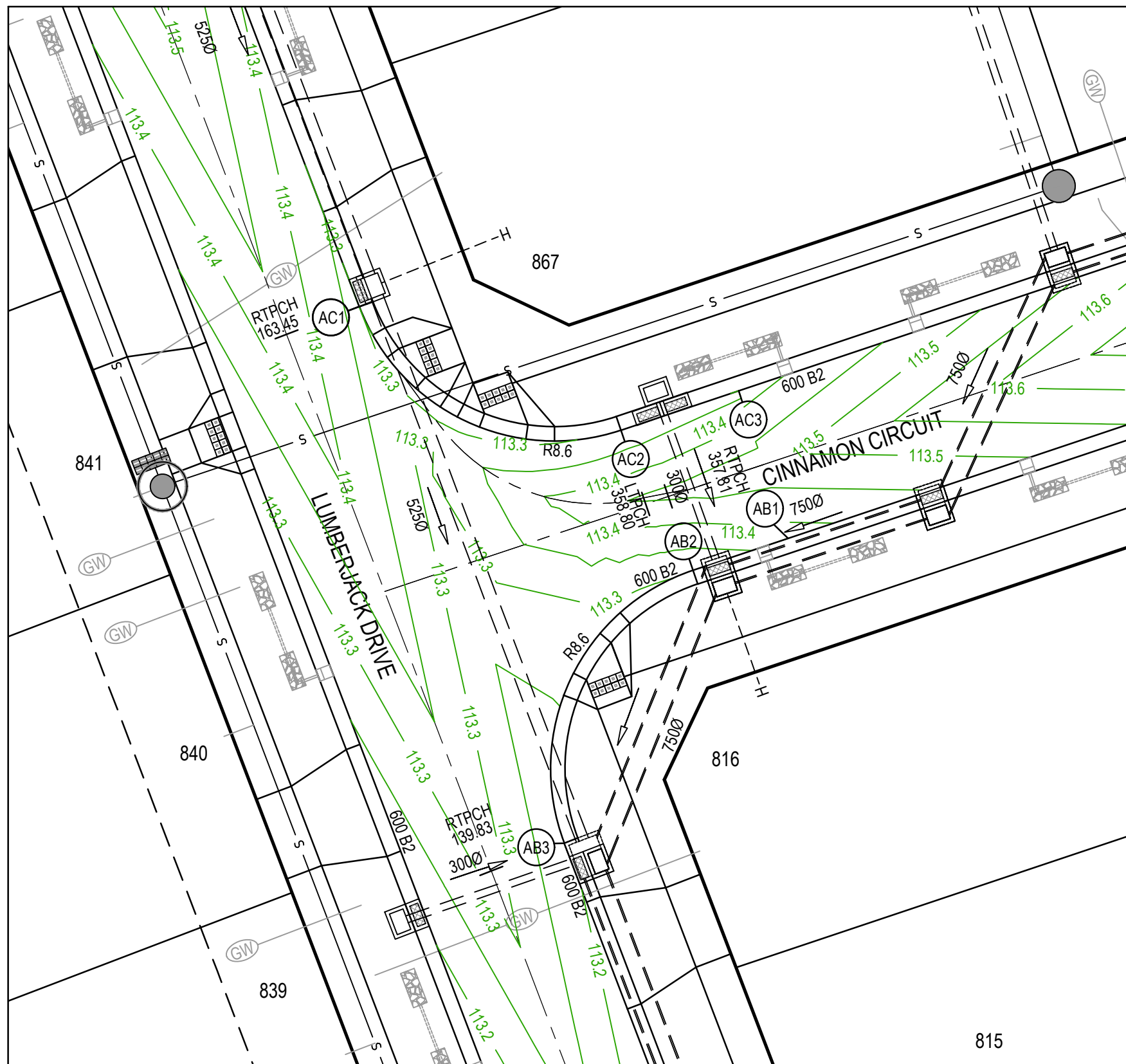
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LEGEND - INTERSECTION DETAIL PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	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
- 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.

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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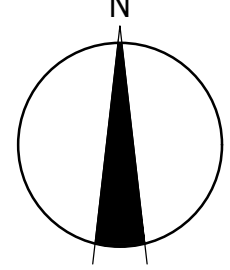
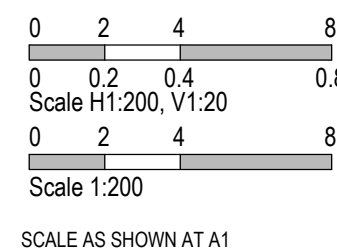
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PLAN OF SUB. NO.
PS847502B

PERMIT REF. NO.
PA2018/6004/1

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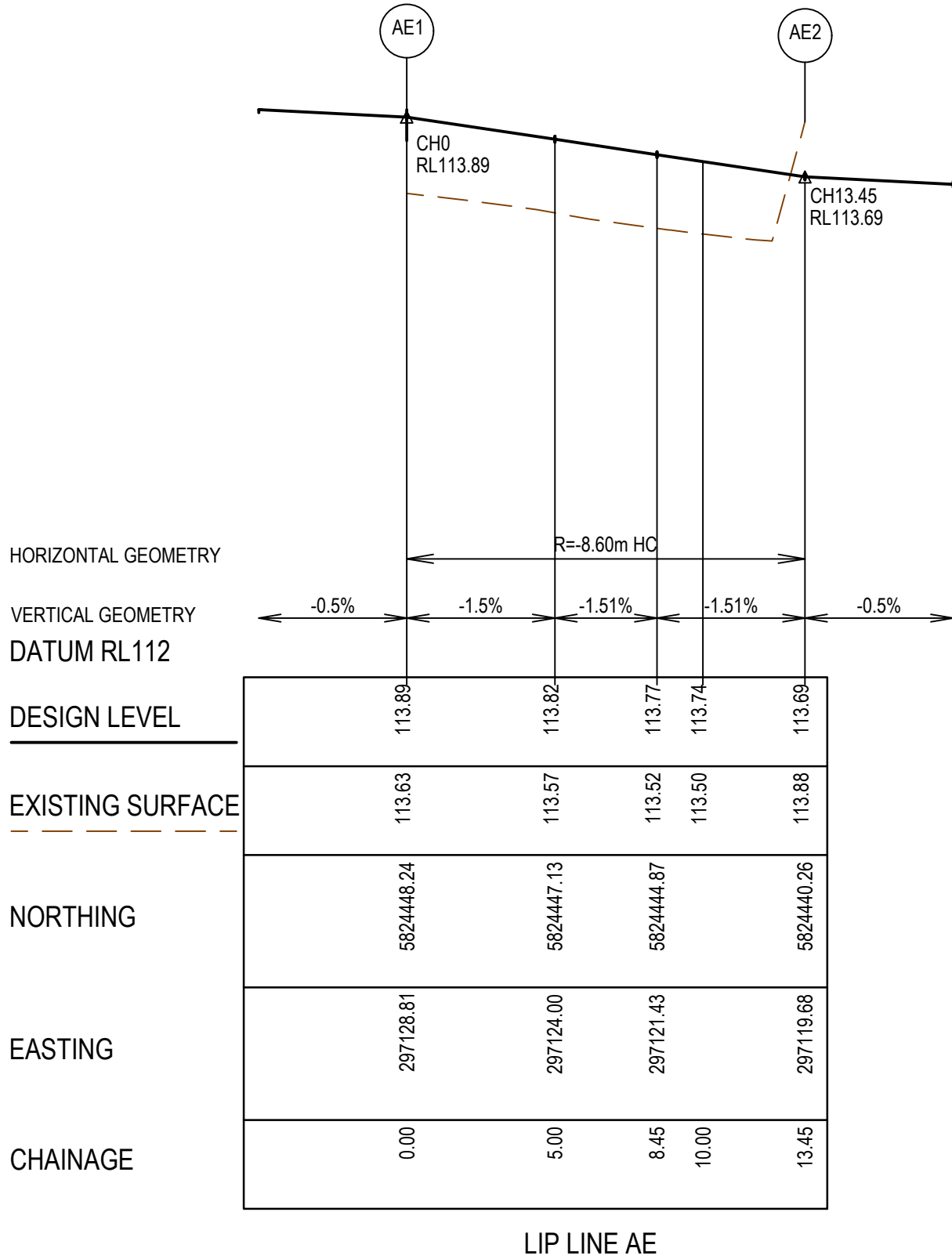
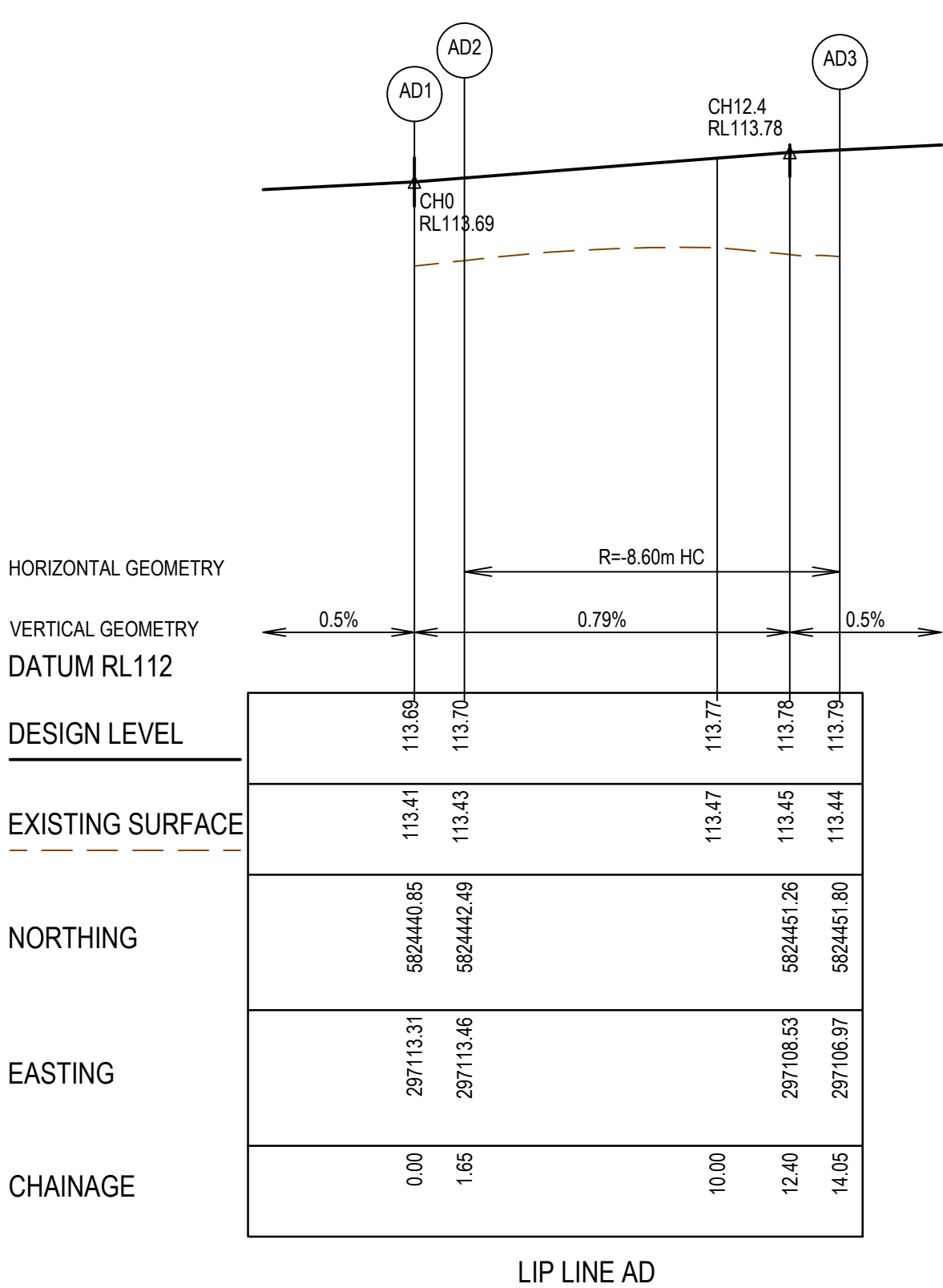
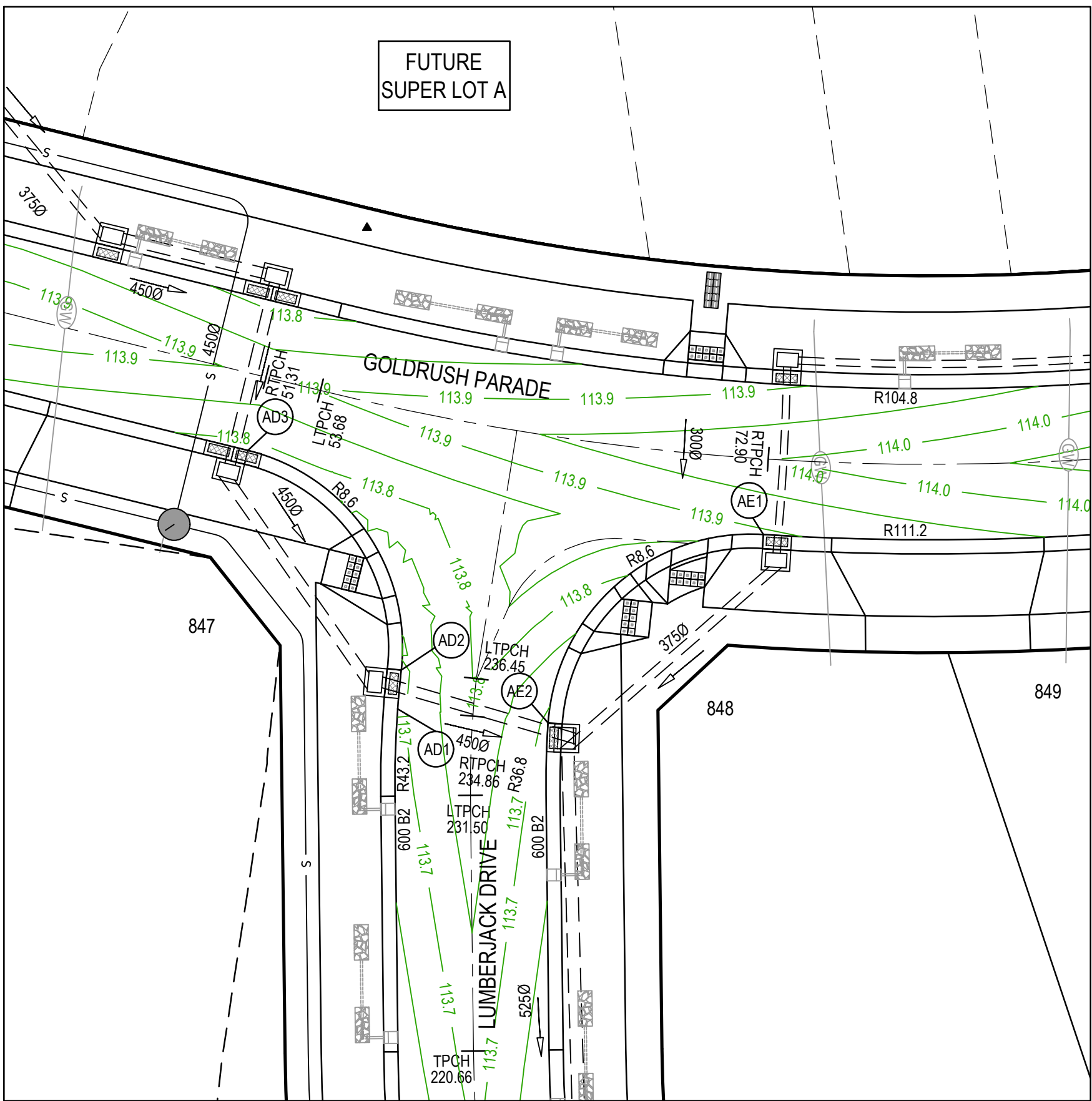
ABN 47 065 475 149

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

GROWLAND

Botania - Stage 8
Melton City Council
Road and Drainage
Intersection Detail Plan

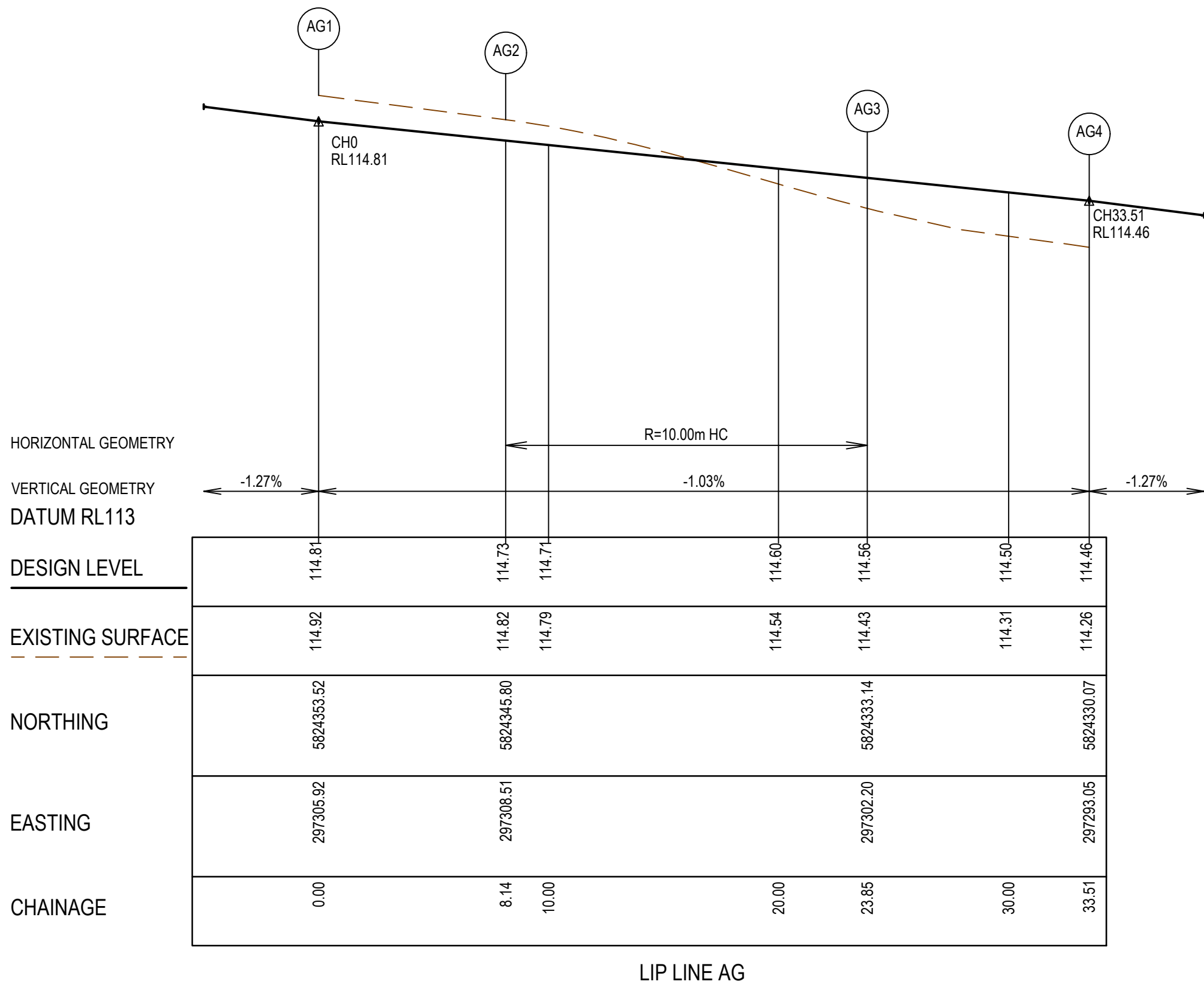
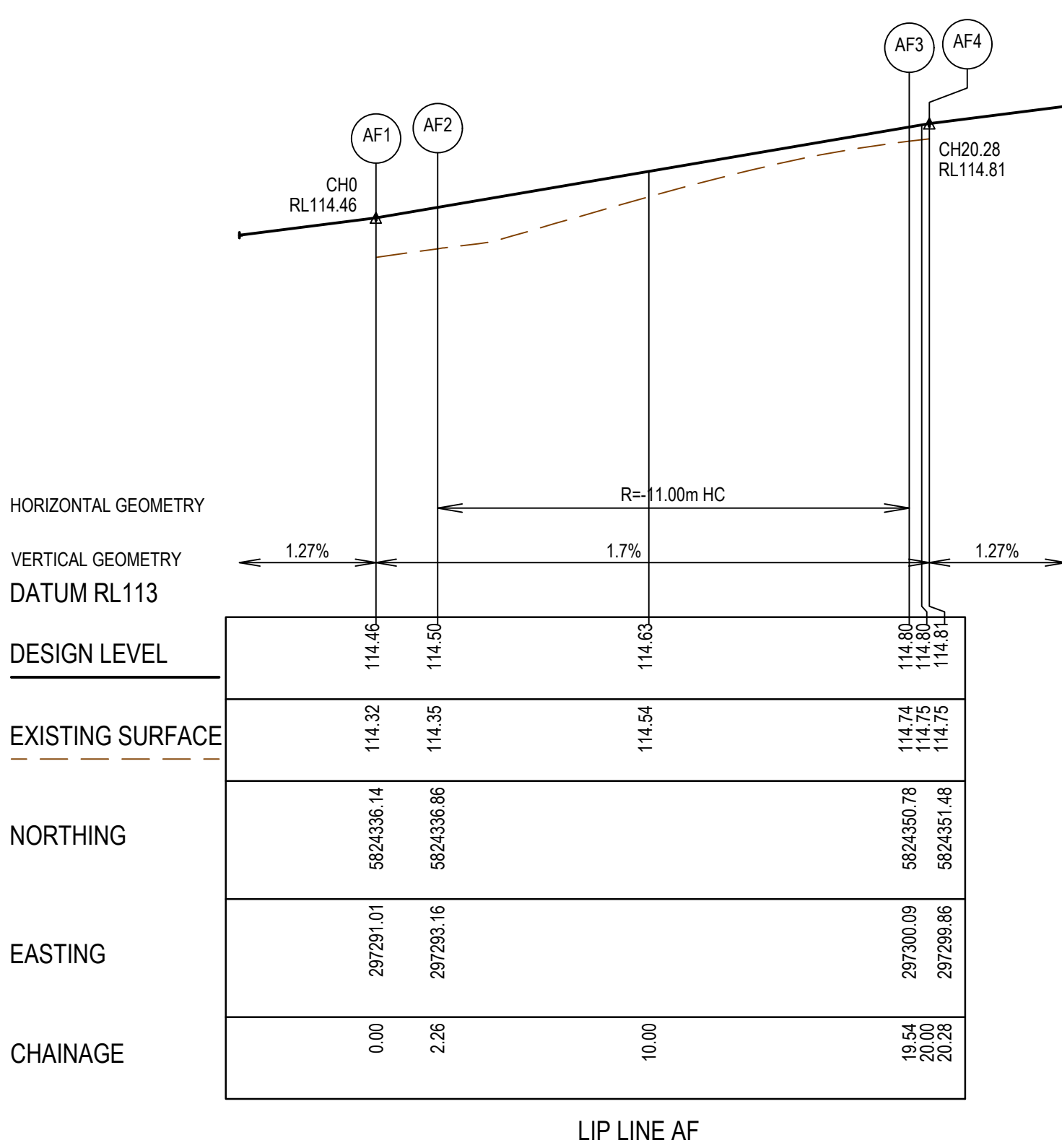
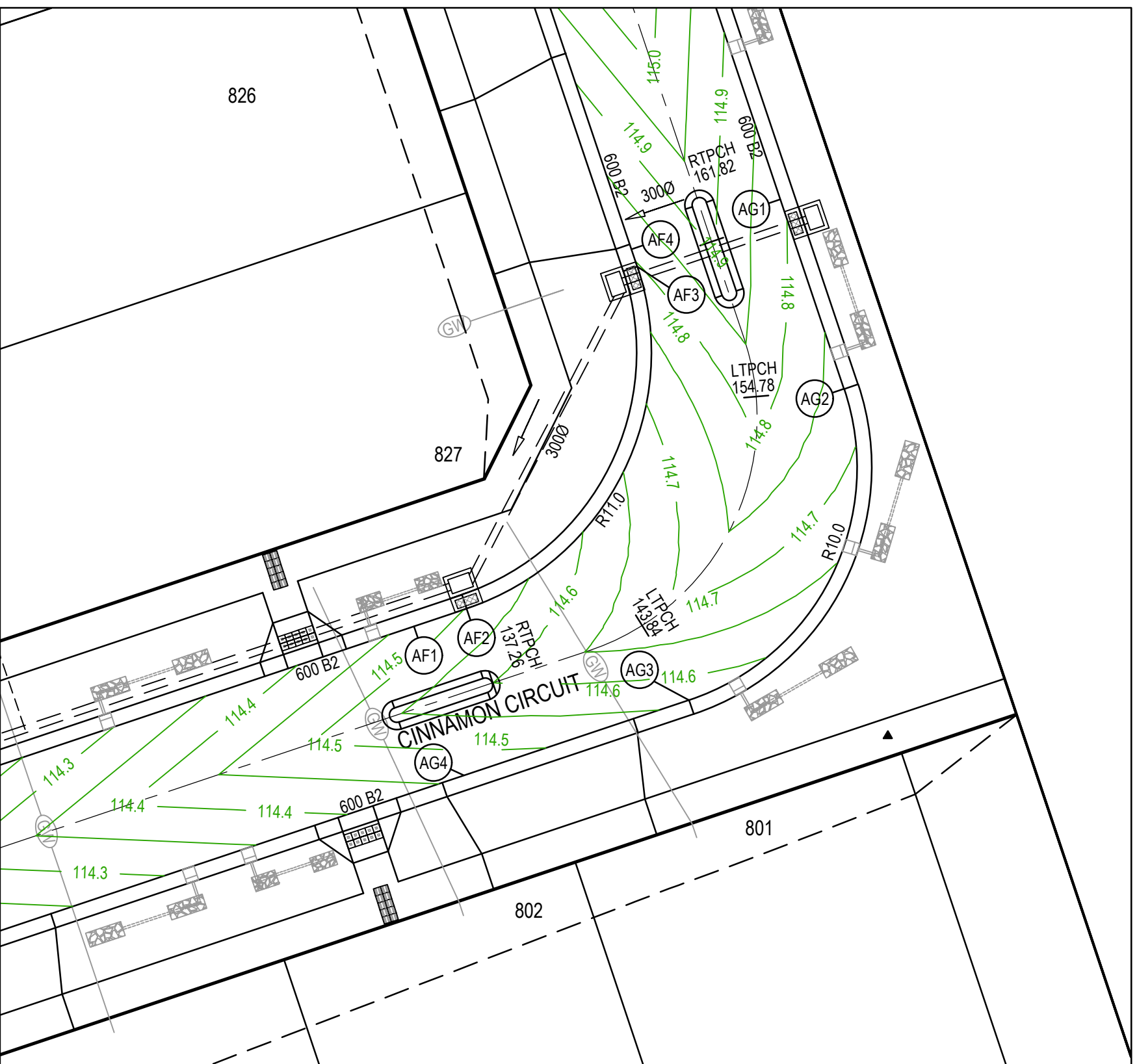
MELWAYS REF 355 G5	PROJECT / DRAWING No. 3070E-008-181	SHEET No. 05 of 27	REVISION 1
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LEGEND - INTERSECTION DETAIL PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	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



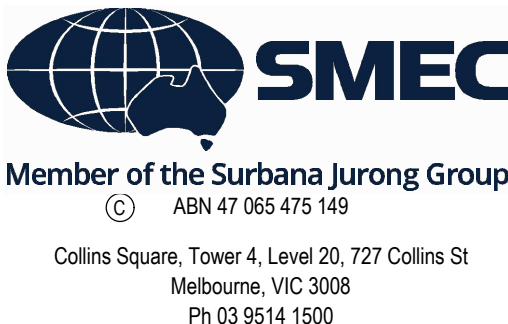
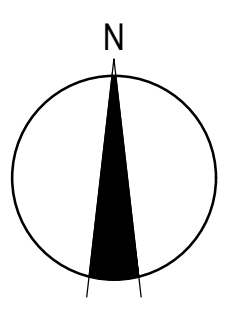
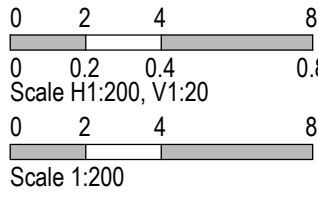
AS CONSTRUCTED PLANS

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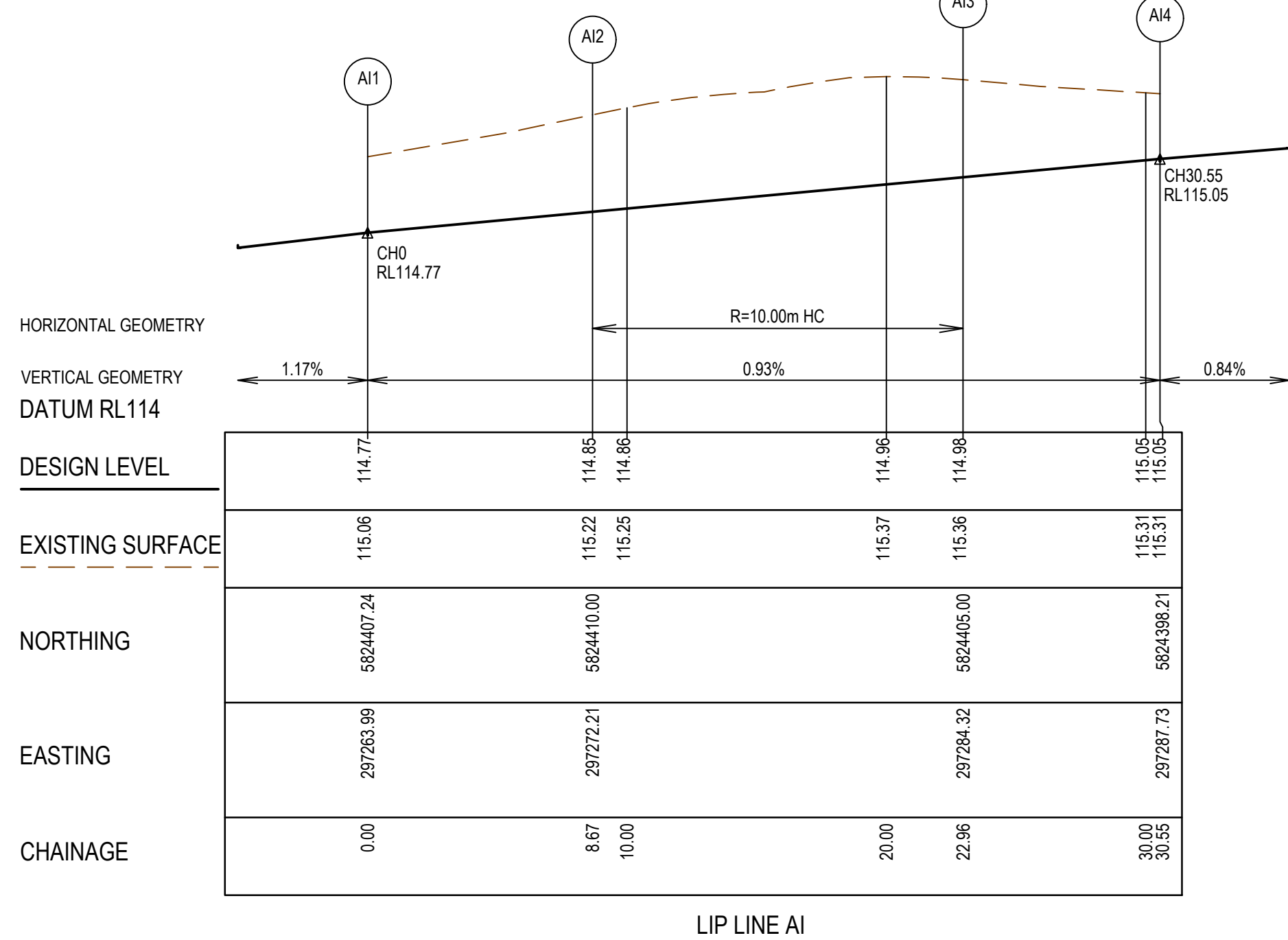
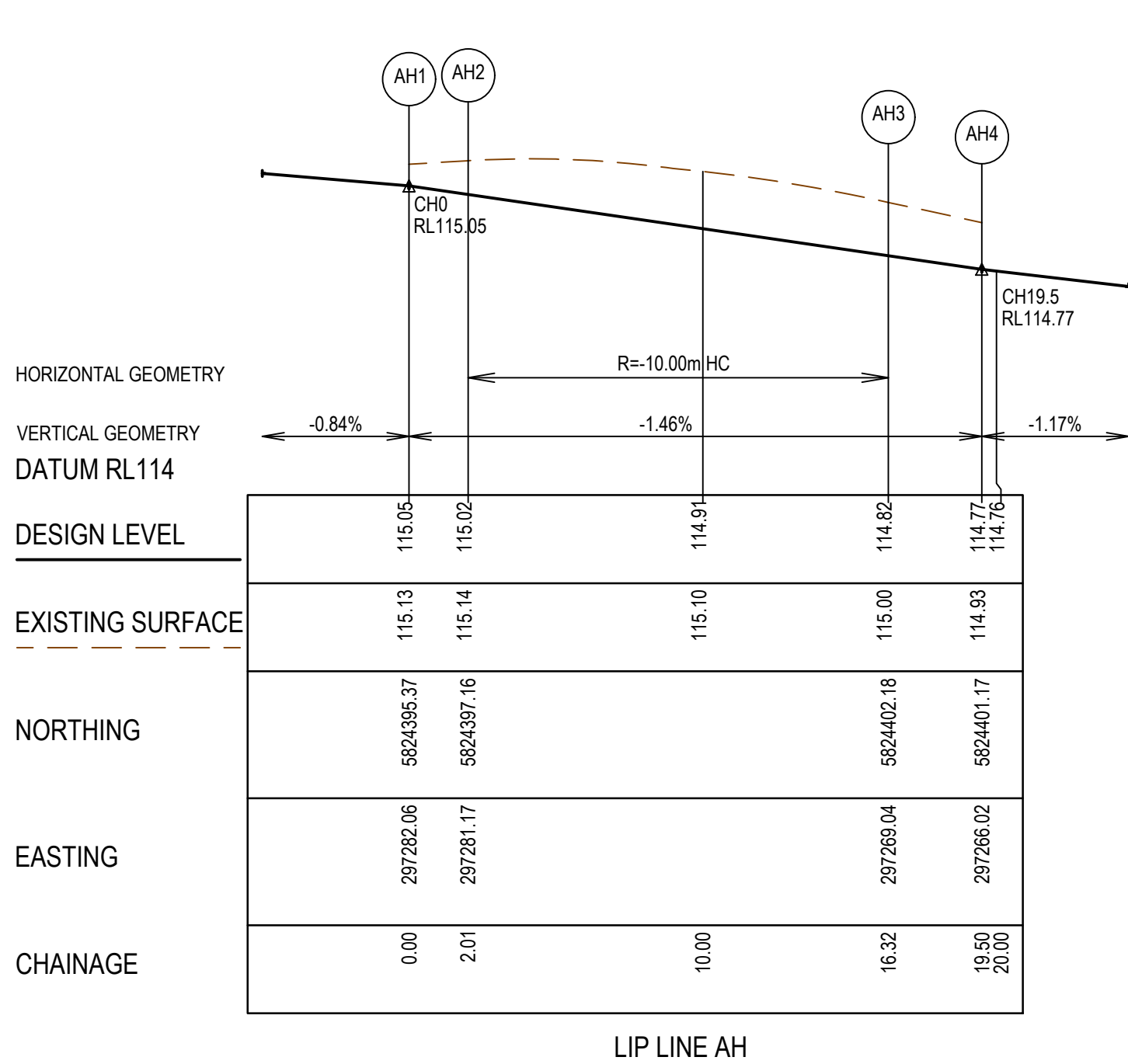
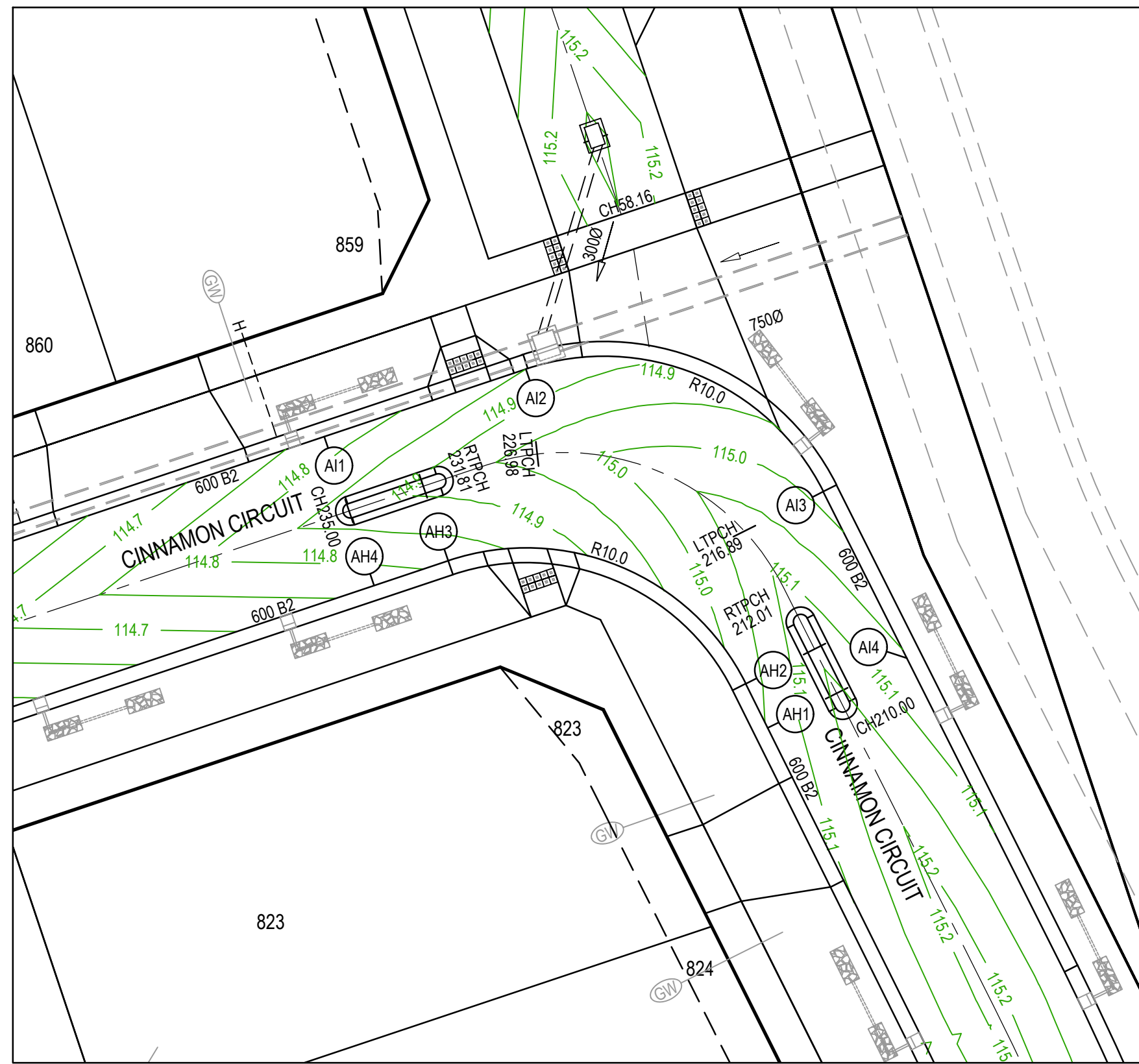
ISSUED FOR CONSTRUCTION

PLAN OF SUB. NO.
PS847502B
PERMIT REF. NO.
PA2018/6004/1

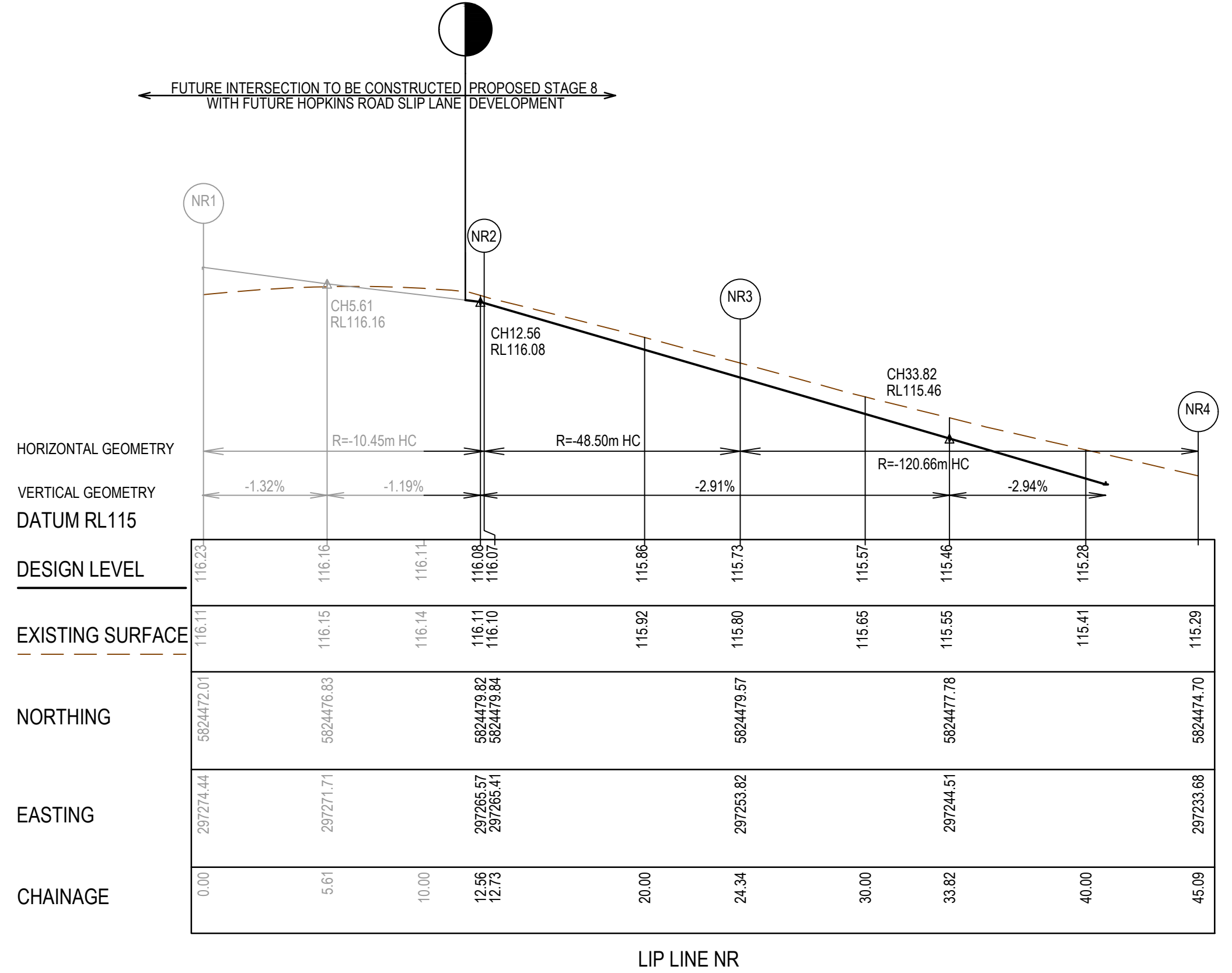
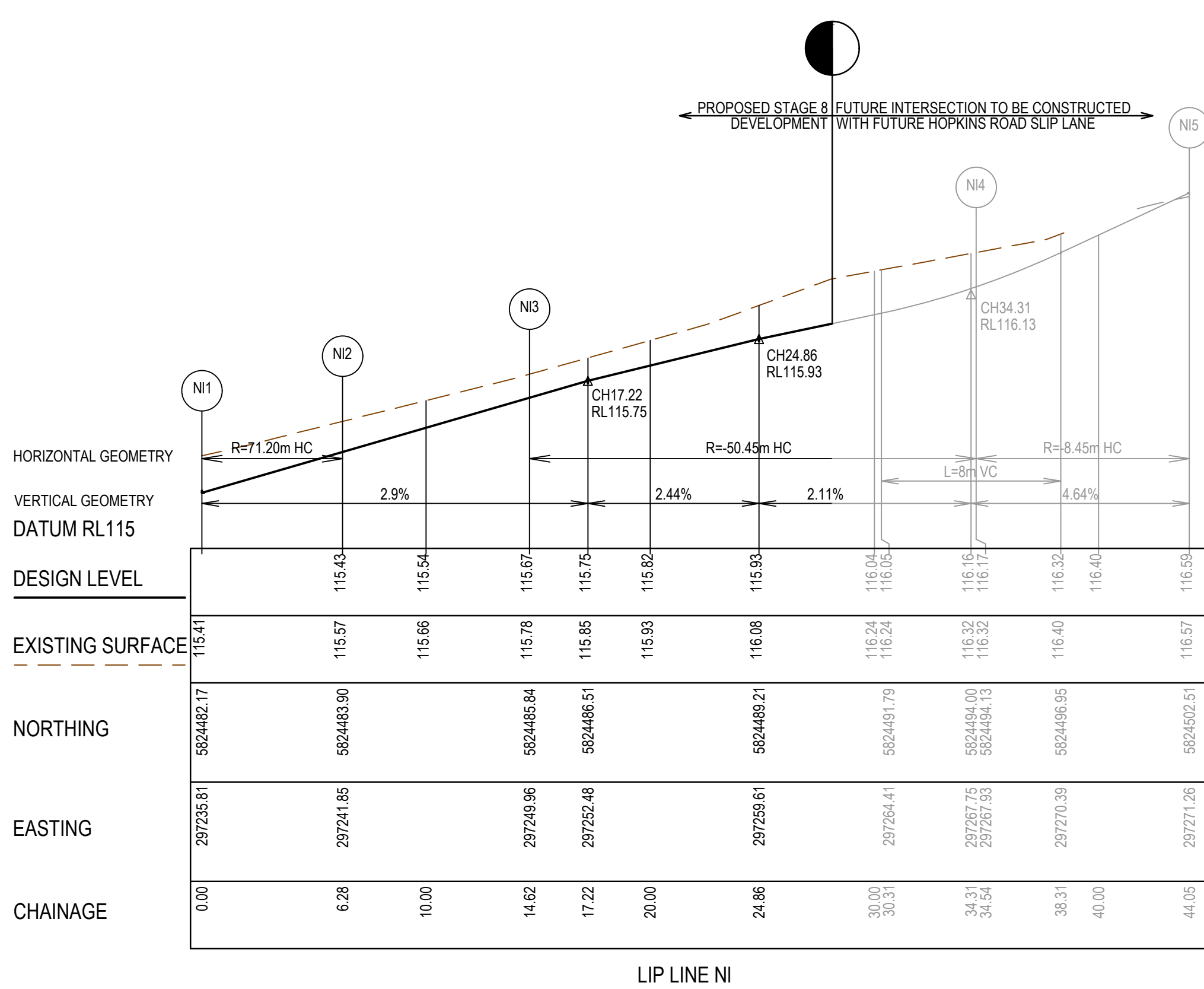
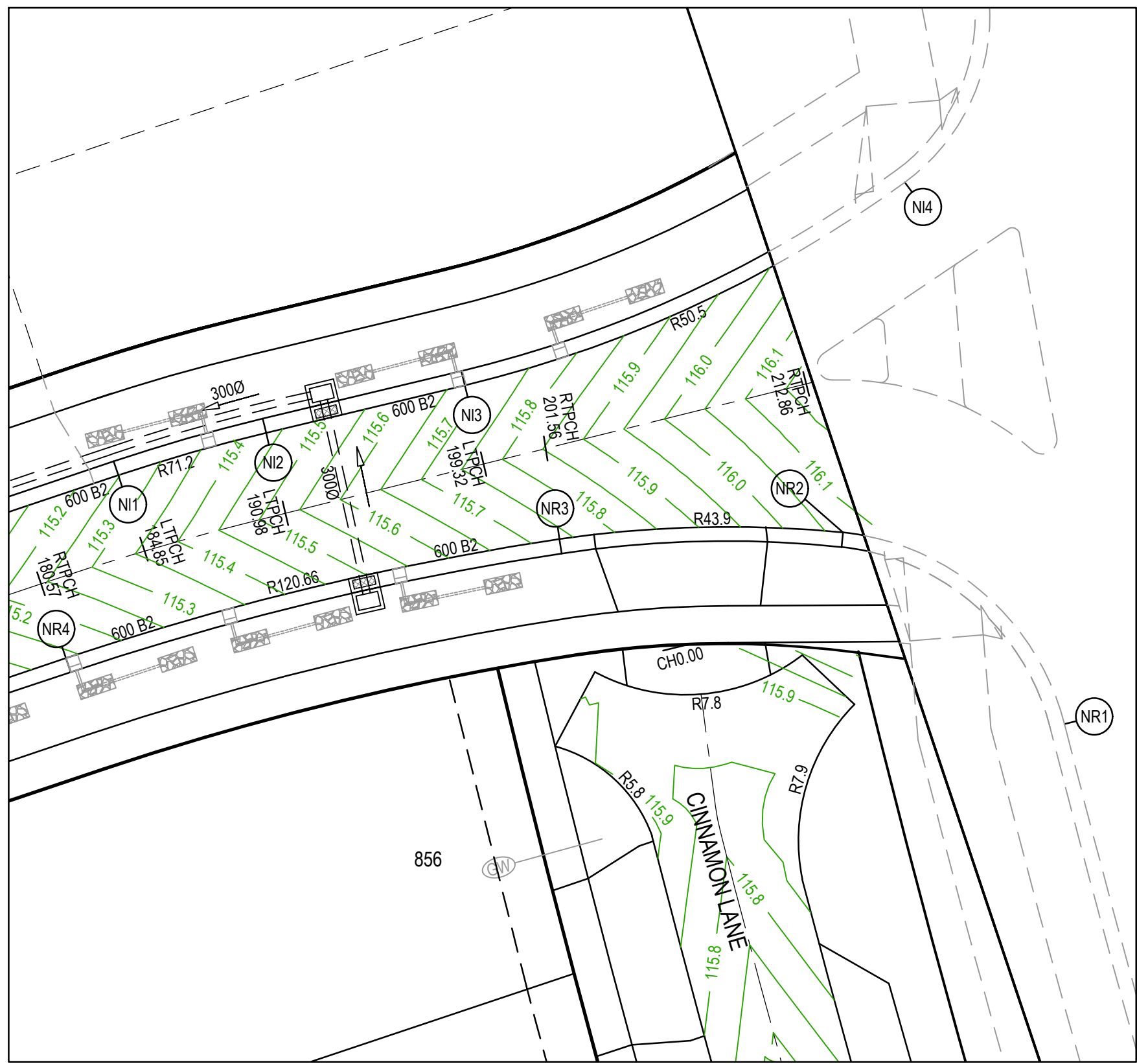


Botania - Stage 8
Melton City Council
Road and Drainage
Intersection Detail Plan

MELWAYS REF: 355 G5
PROJECT / DRAWING No: 3070E-008-182
SHEET No: 06 of 27
REVISION: 1



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



AS CONSTRUCTED PLANS

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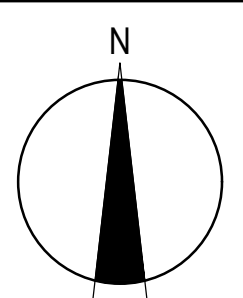
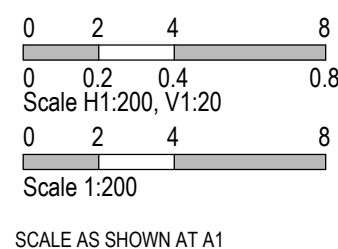
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PERMIT REF. NO.
PA2018/6004/1

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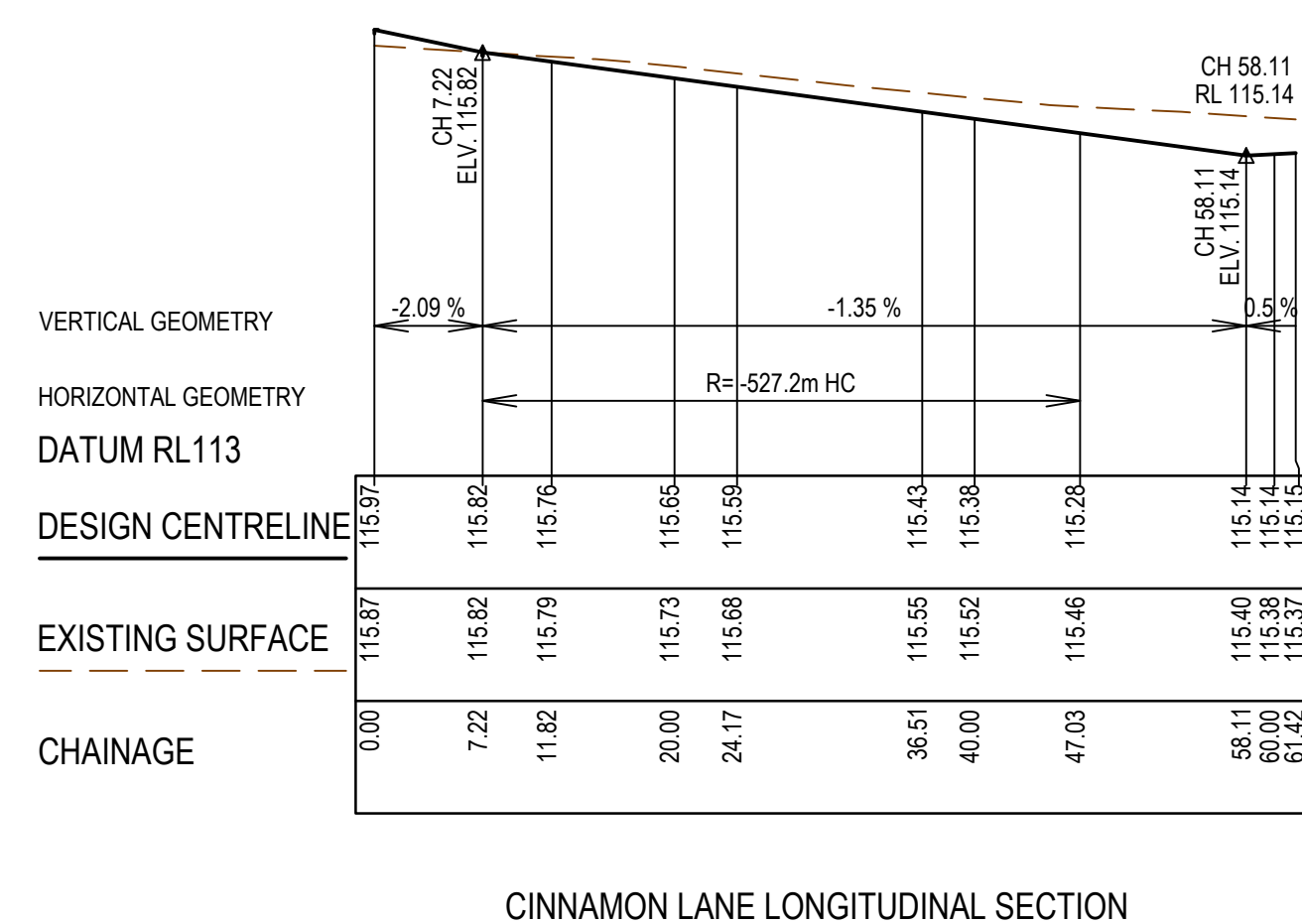
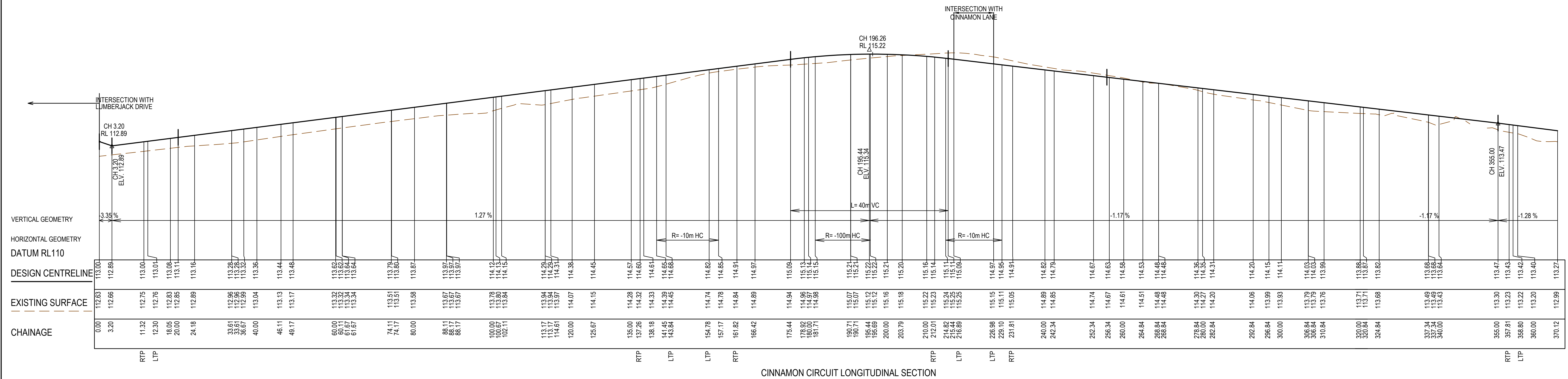
Botania - Stage 8
Melton City Council
Road and Drainage
Intersection Detail Plan

MELWAYS REF
355 G5

PROJECT / DRAWING No.
3070E-008-183

SHEET No.
07 of 27

REVISION
1



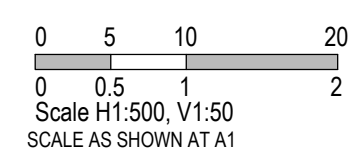
AS CONSTRUCTED PLANS

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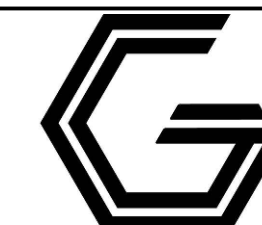


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	PS847502B
ISO 14001 ®	PERMIT REF. NO.
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Ph 03 9514 1500



GROWLAND

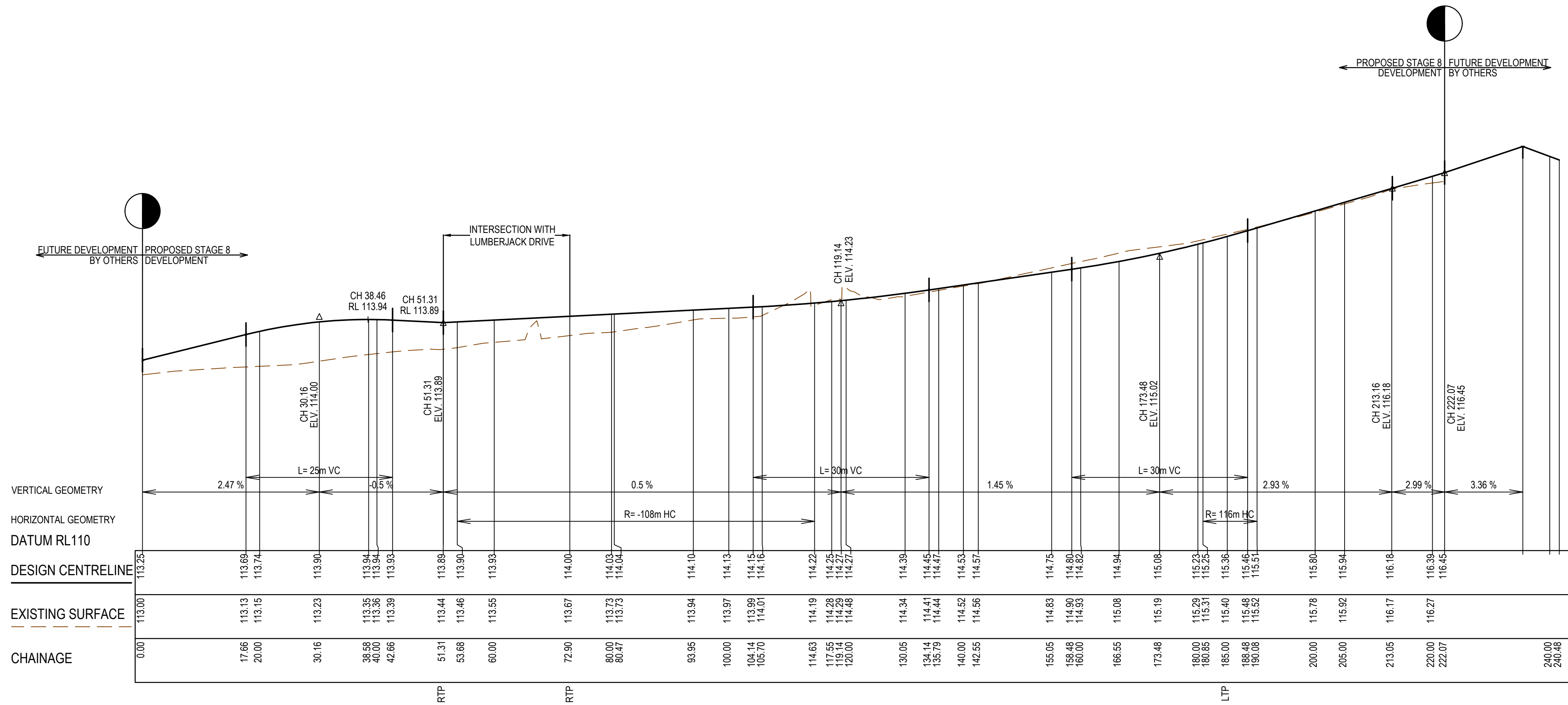
Botania - Stage 8
Melton City Council
Road and Drainage
Longitudinal Sections - 1

MELWAYS REF
355 G5

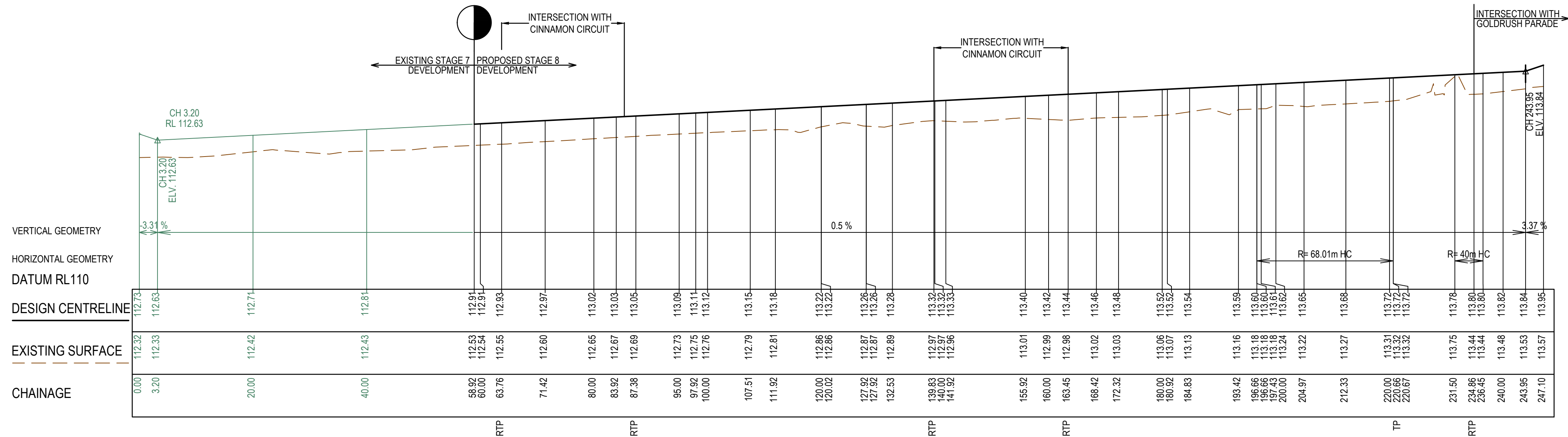
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SHEET No.
08 of 27

REVISION
1



GOLDRUSH PARADE LONGITUDINAL SECTION



LUMBERJACK DRIVE LONGITUDINAL SECTION

AS CONSTRUCTED PLANS

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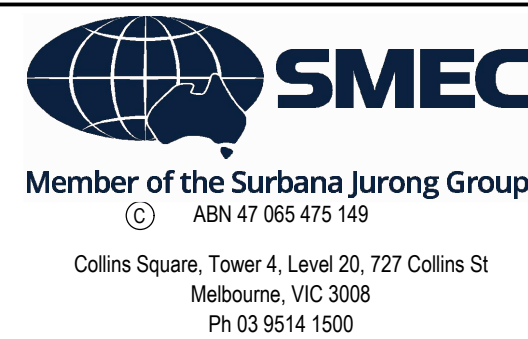
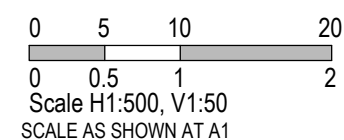


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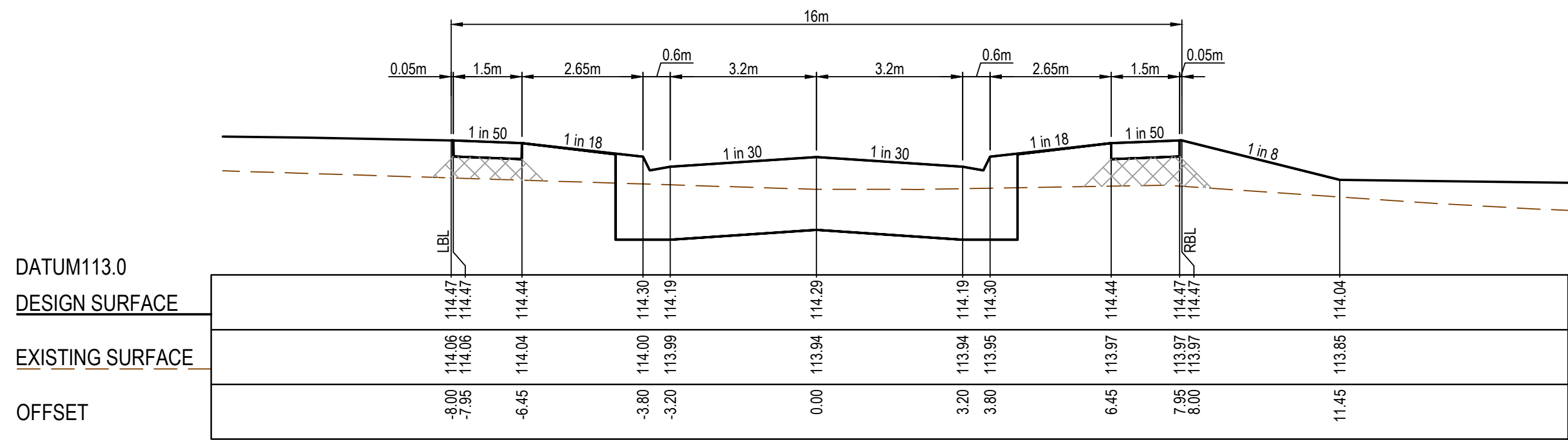
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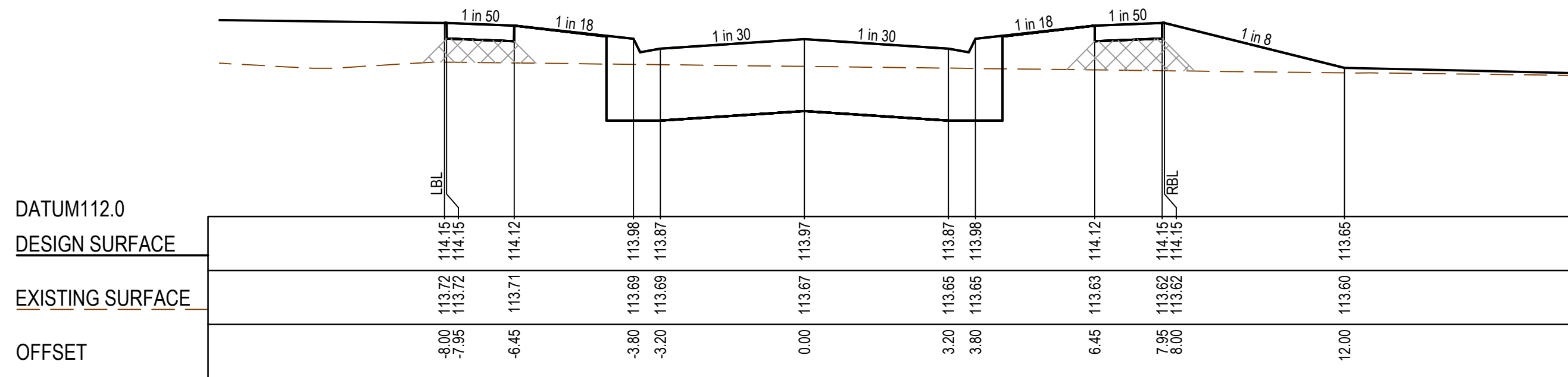
Botania - Stage 8
Melton City Council
Road and Drainage
Longitudinal Sections - 2

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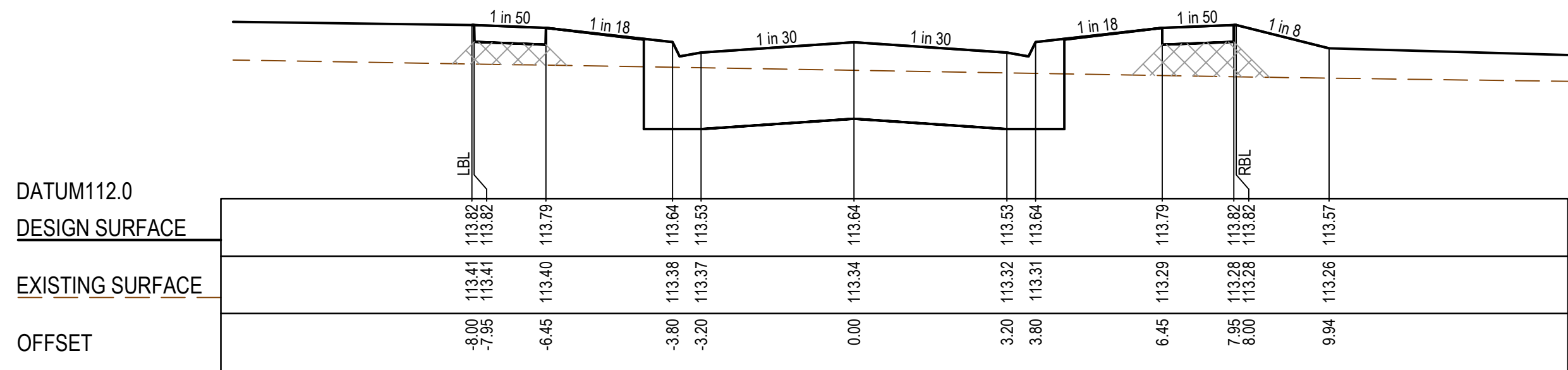
STRUCTURAL FILL REQUIRED UNDER
PAVEMENT AND FOOTPATHS WHERE
CONSTRUCTED ABOVE EXISTING SURFACE



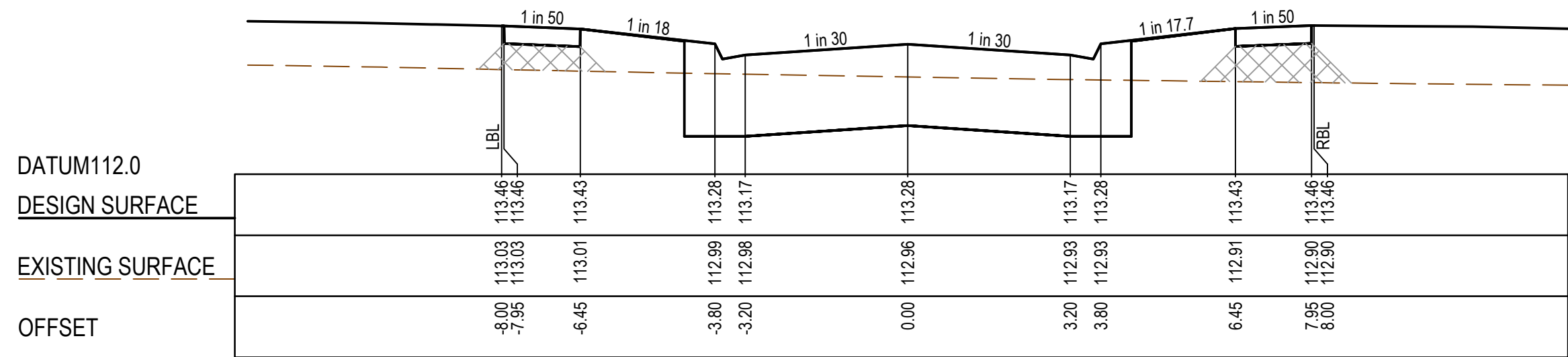
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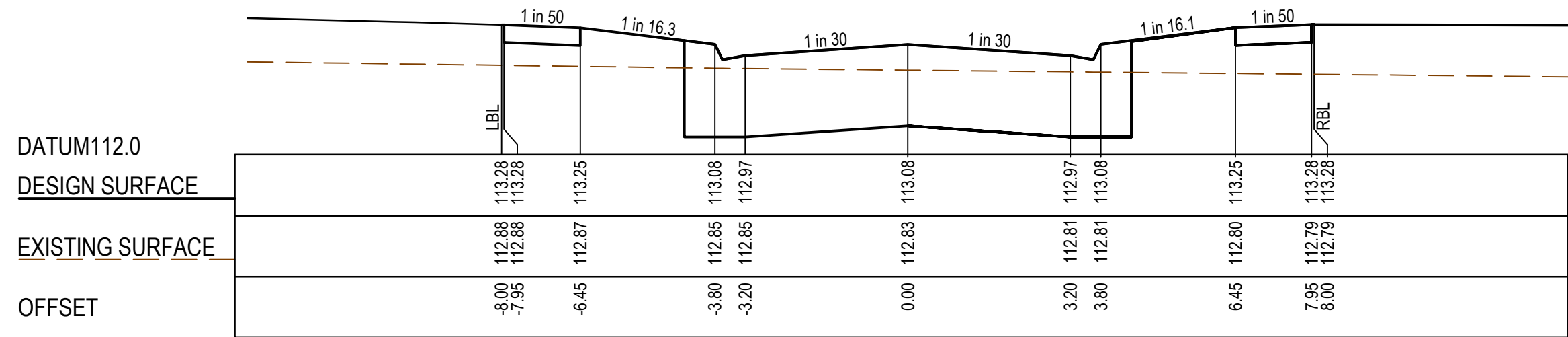
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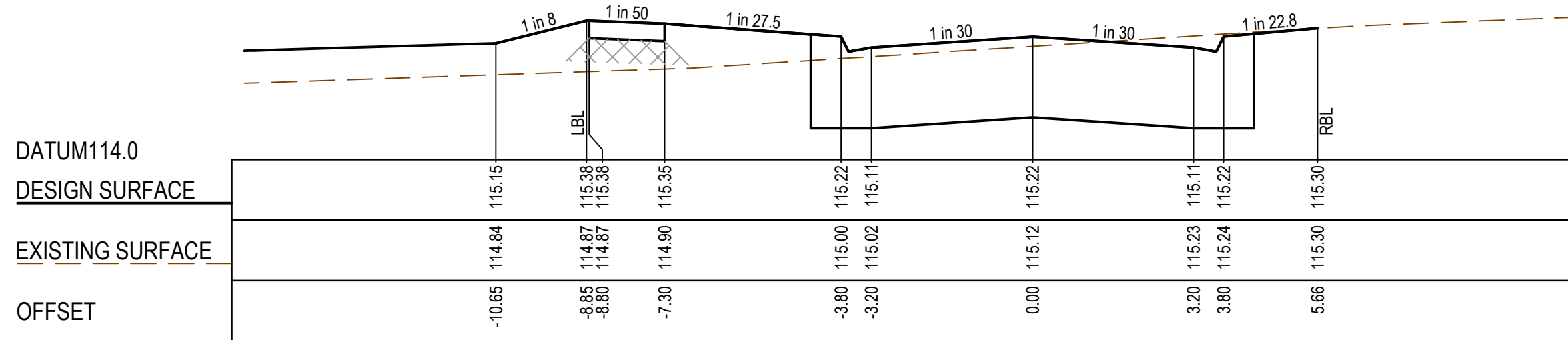
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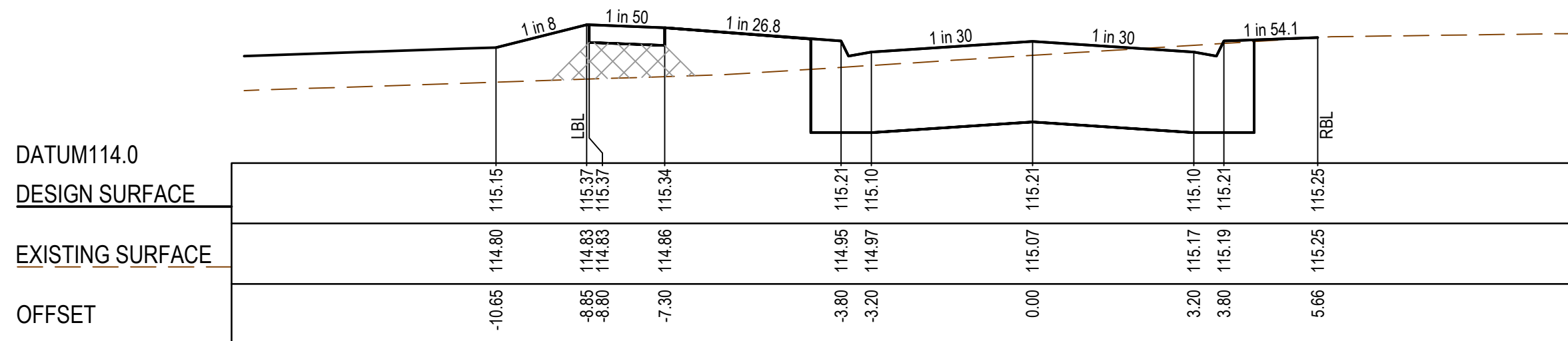
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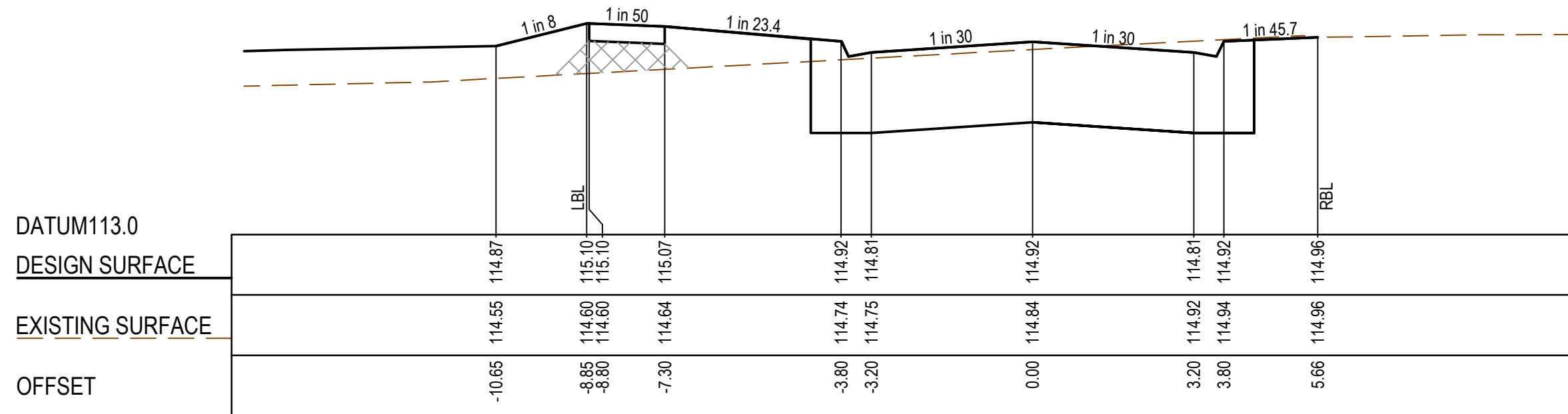
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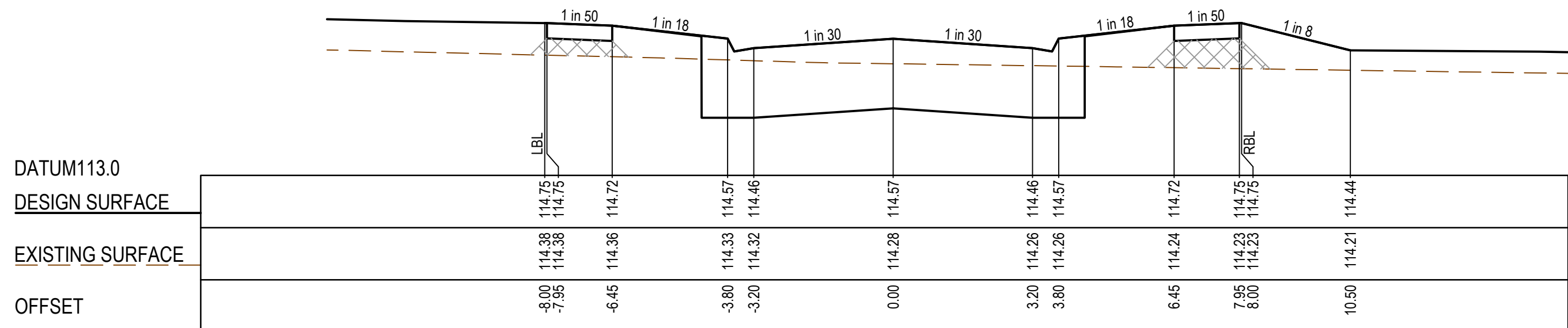
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CH 190.71



CH 162.10



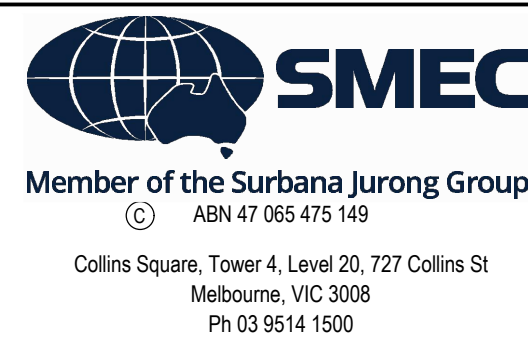
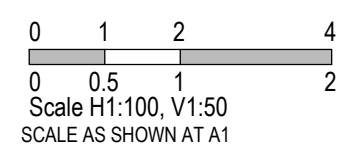
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AS CONSTRUCTED PLANS

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ISSUED FOR CONSTRUCTION



Botania - Stage 8
Melton City Council
Road and Drainage
Cross Sections: Cinnamon Circuit
Ch 18.05 - Ch 196.26

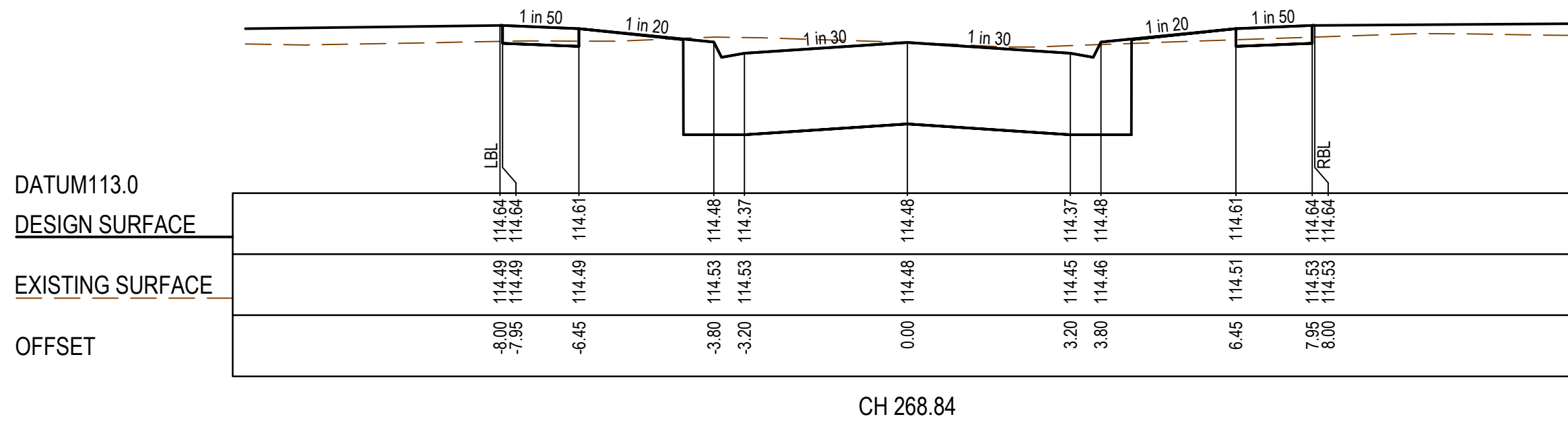
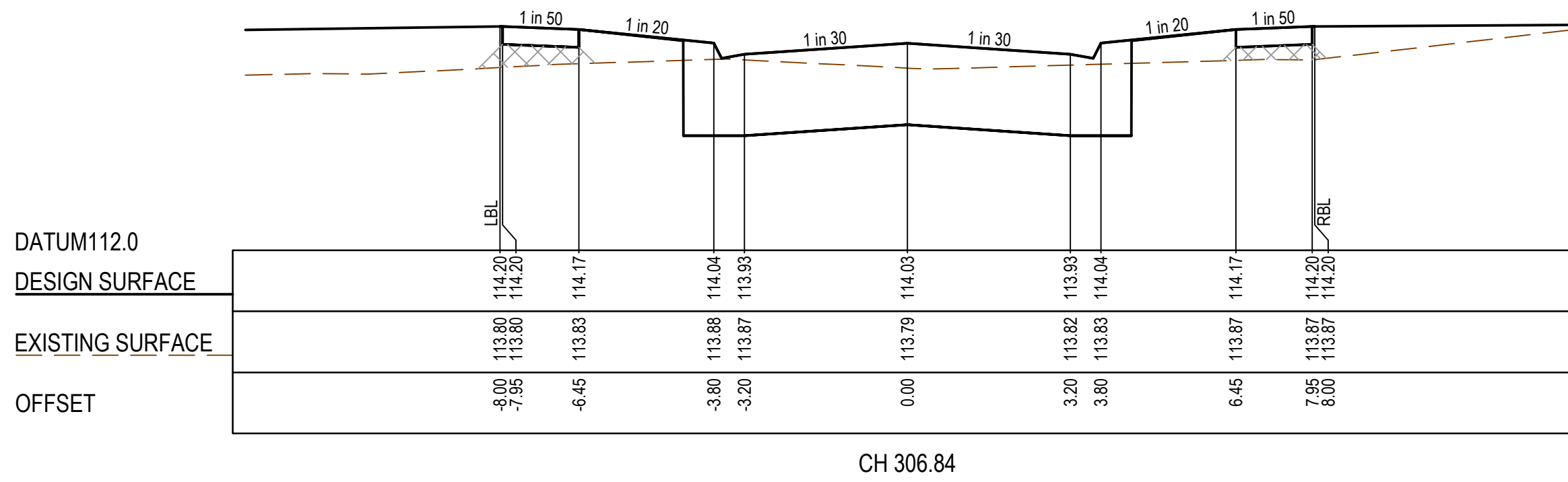
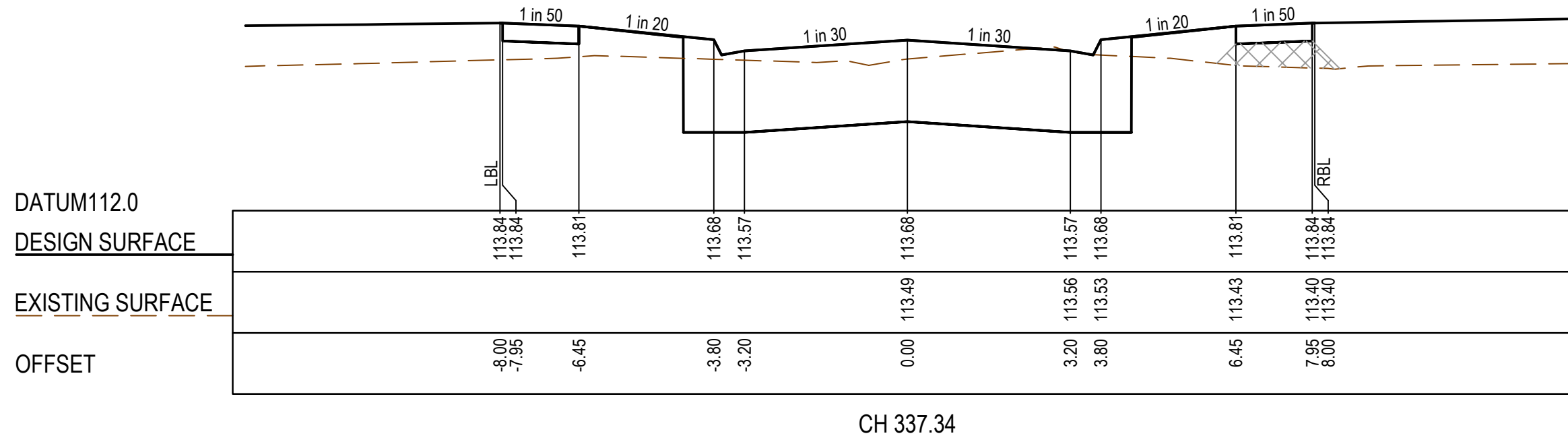
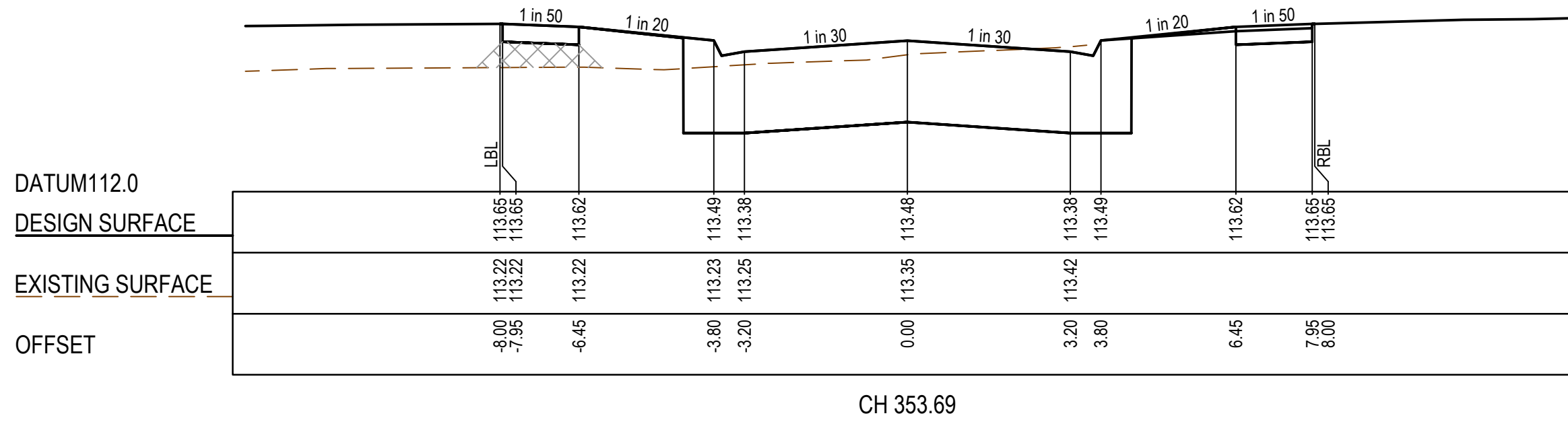
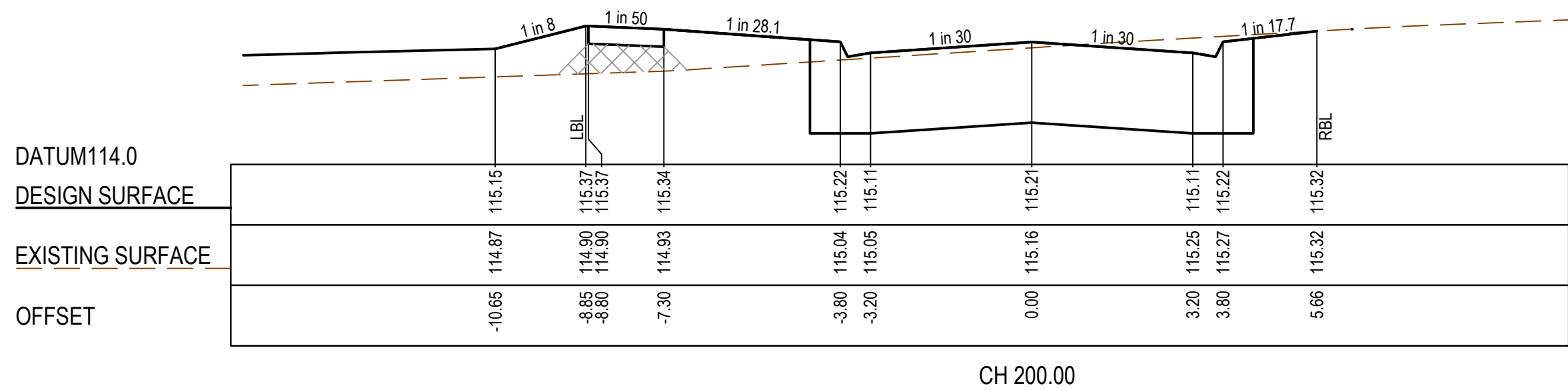
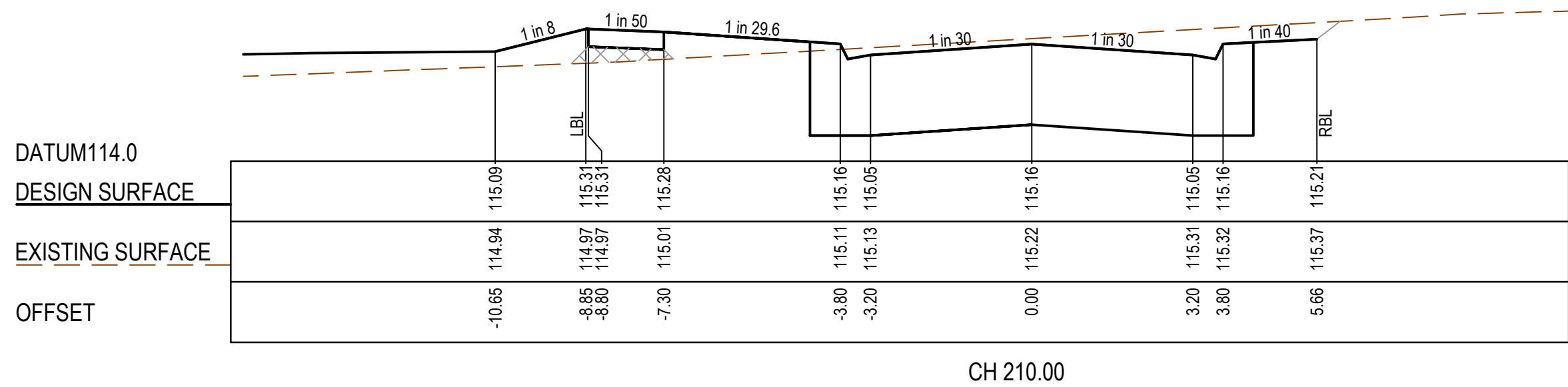
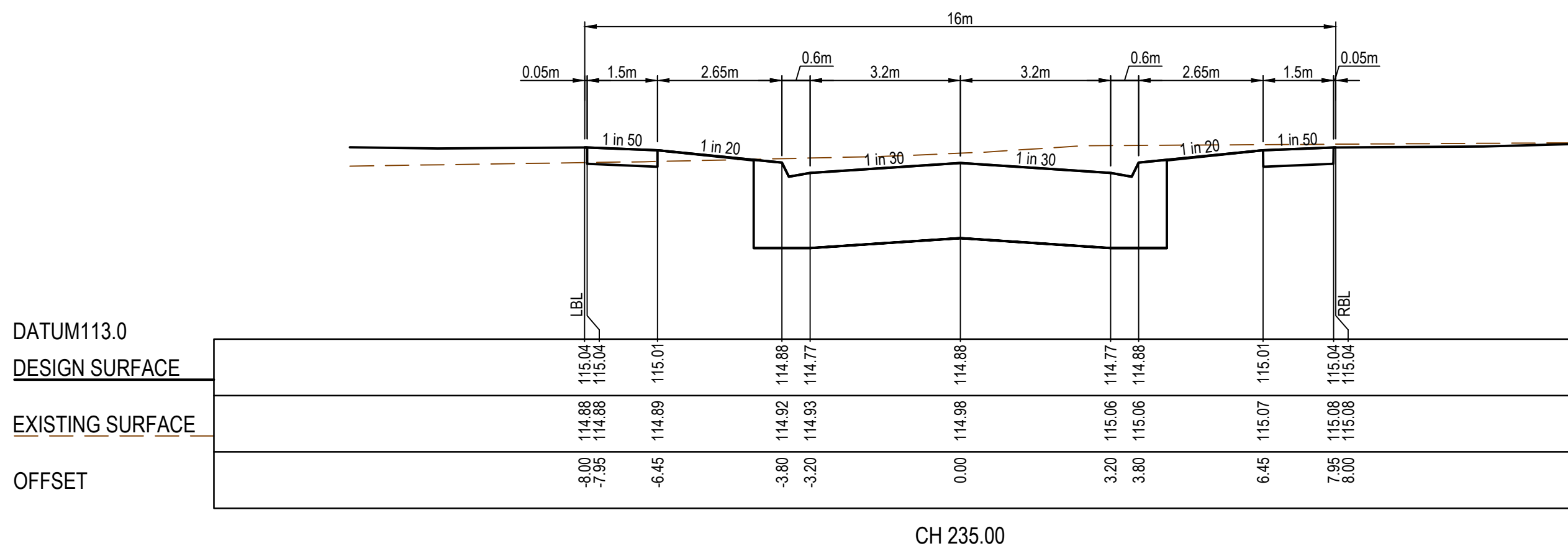
MELWAYS REF
355 G5

PROJECT / DRAWING No.
3070E-008-251

SHEET No.
10 of 27

REVISION
1

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



AS CONSTRUCTED PLANS

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PLAN OF SUB. NO.
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PERMIT REF. NO.
PA2018/6004/1

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SCALE AS SHOWN AT A1

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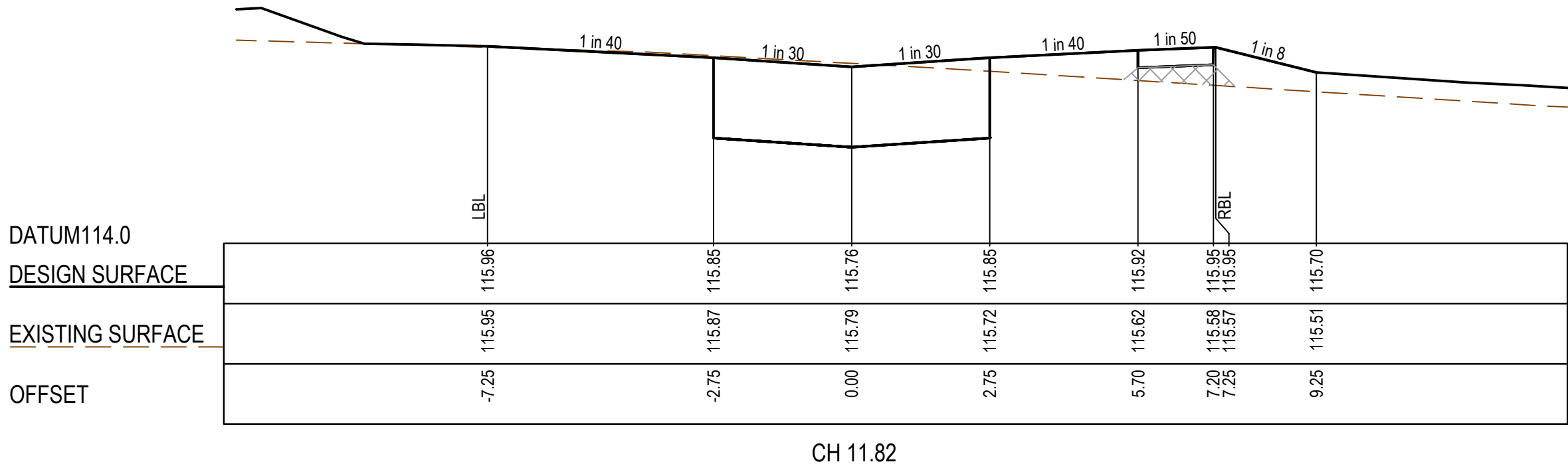
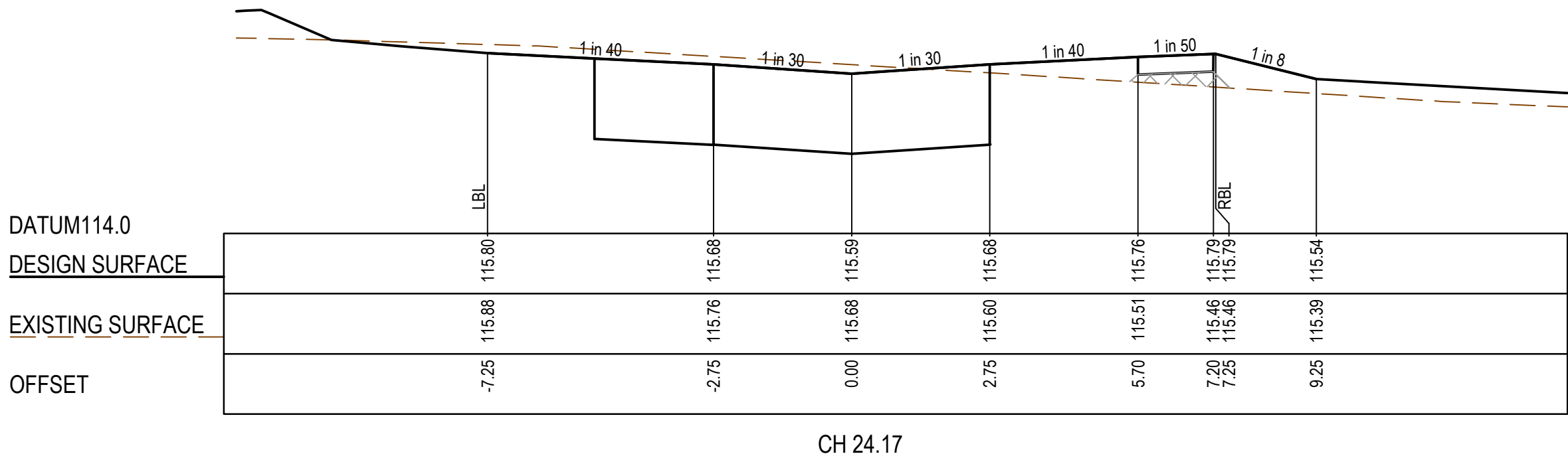
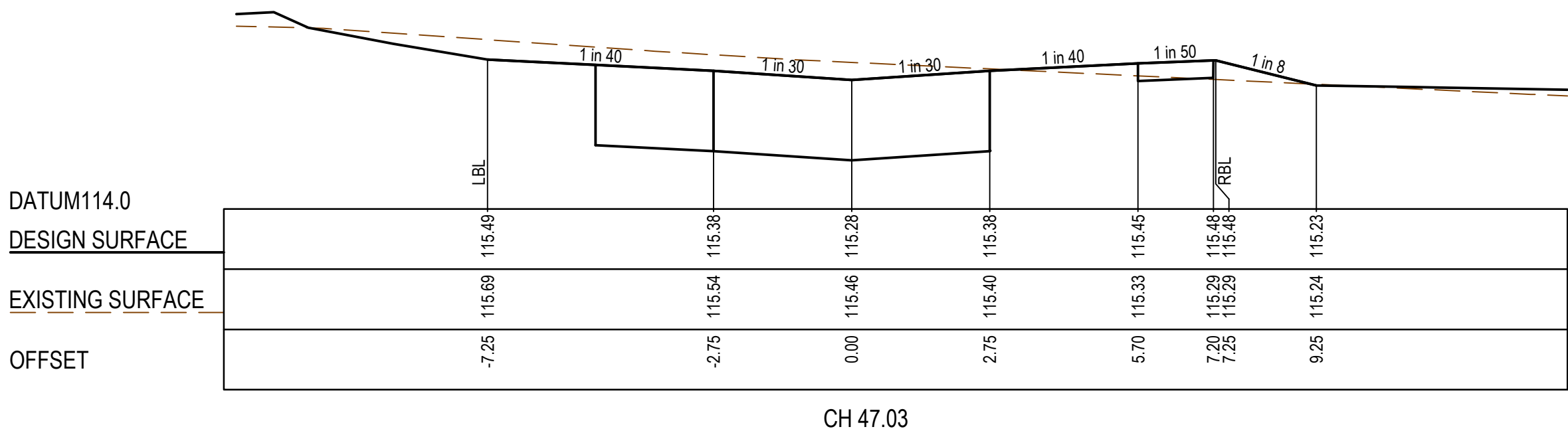
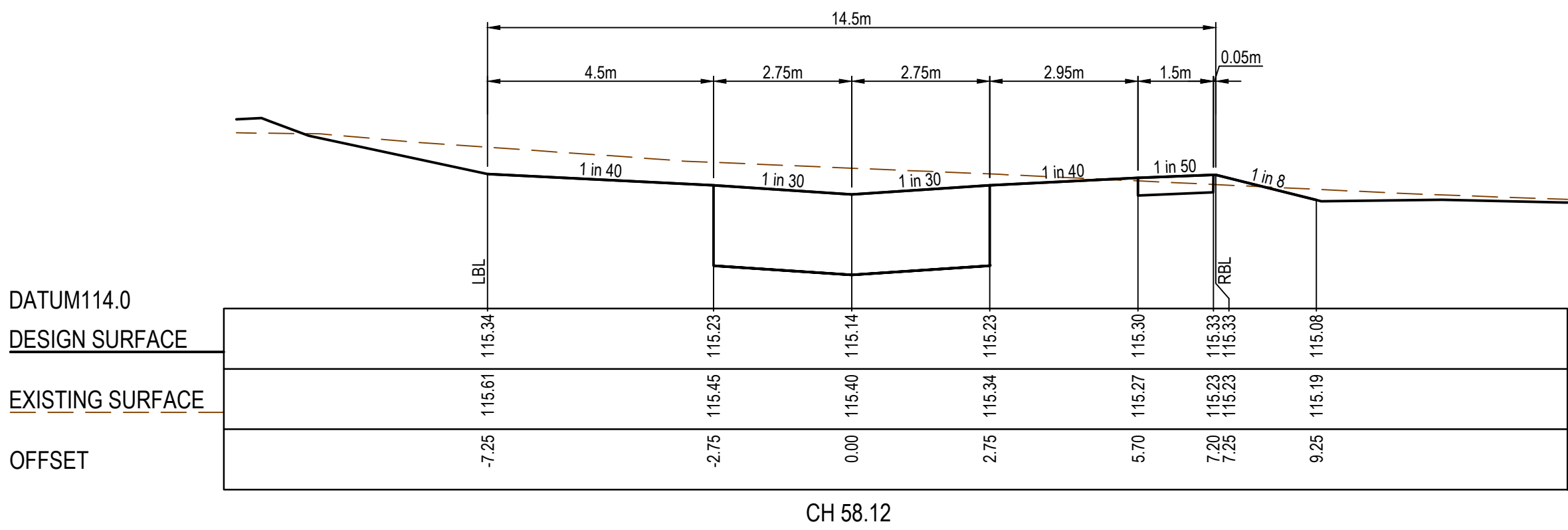
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

GROWLAND

Botania - Stage 8
Melton City Council
Road and Drainage
Cross Sections: Cinnamon Circuit
Ch 200.00 - Ch 353.69

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
355 G5	3070E-008-252	11 of 27	1

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



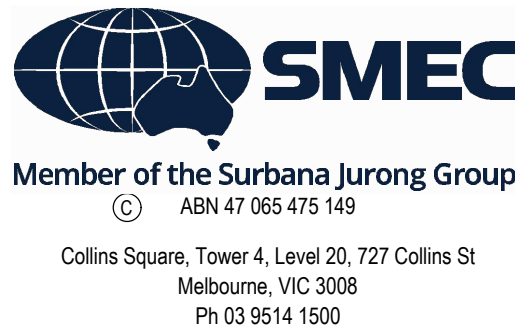
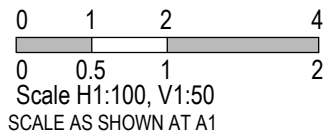
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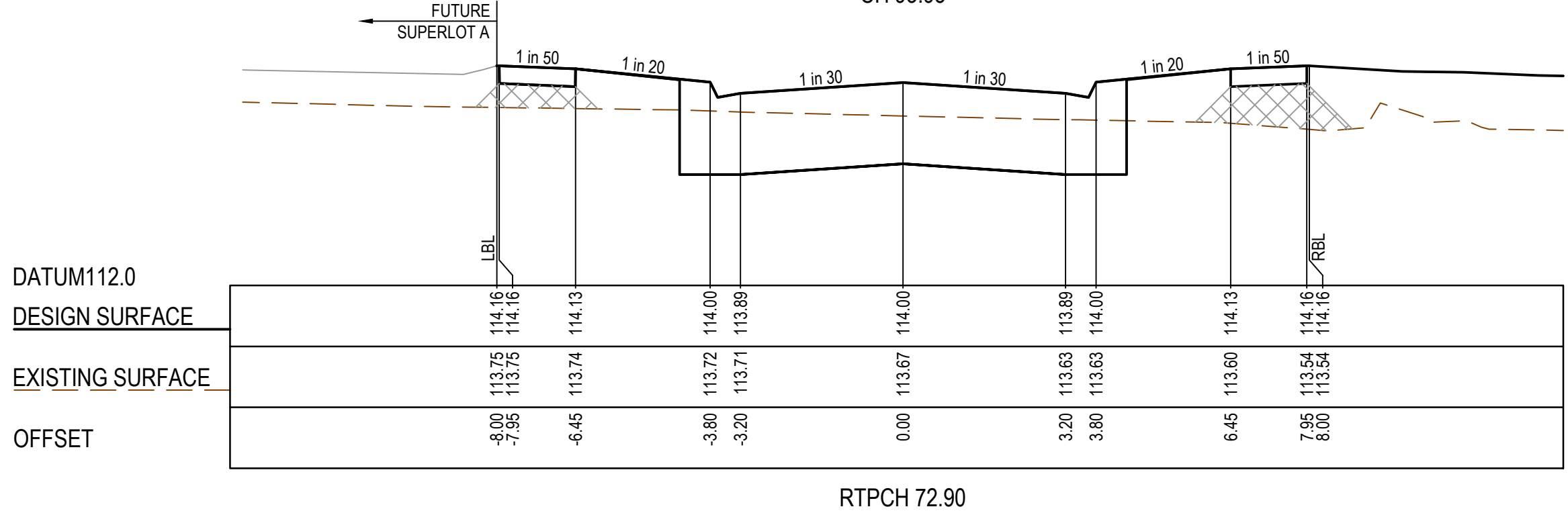
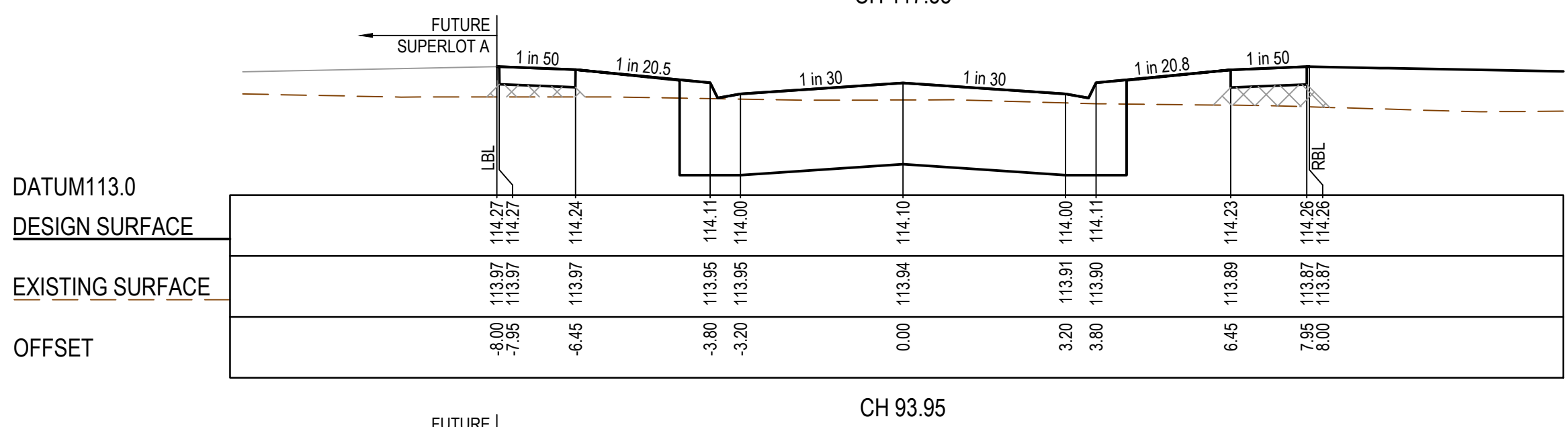
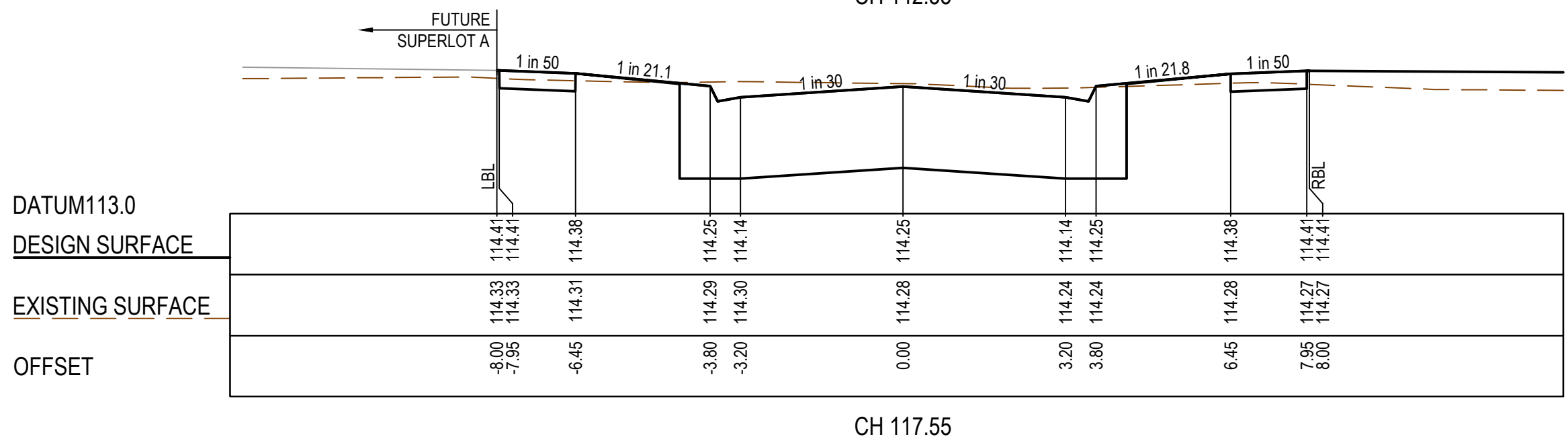
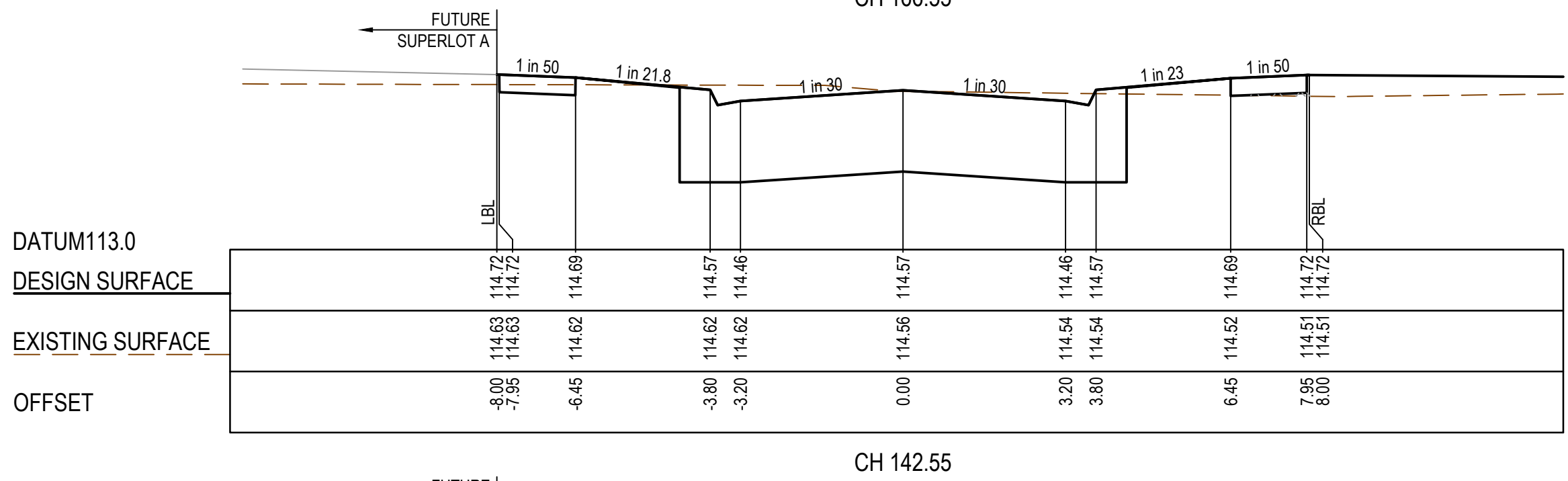
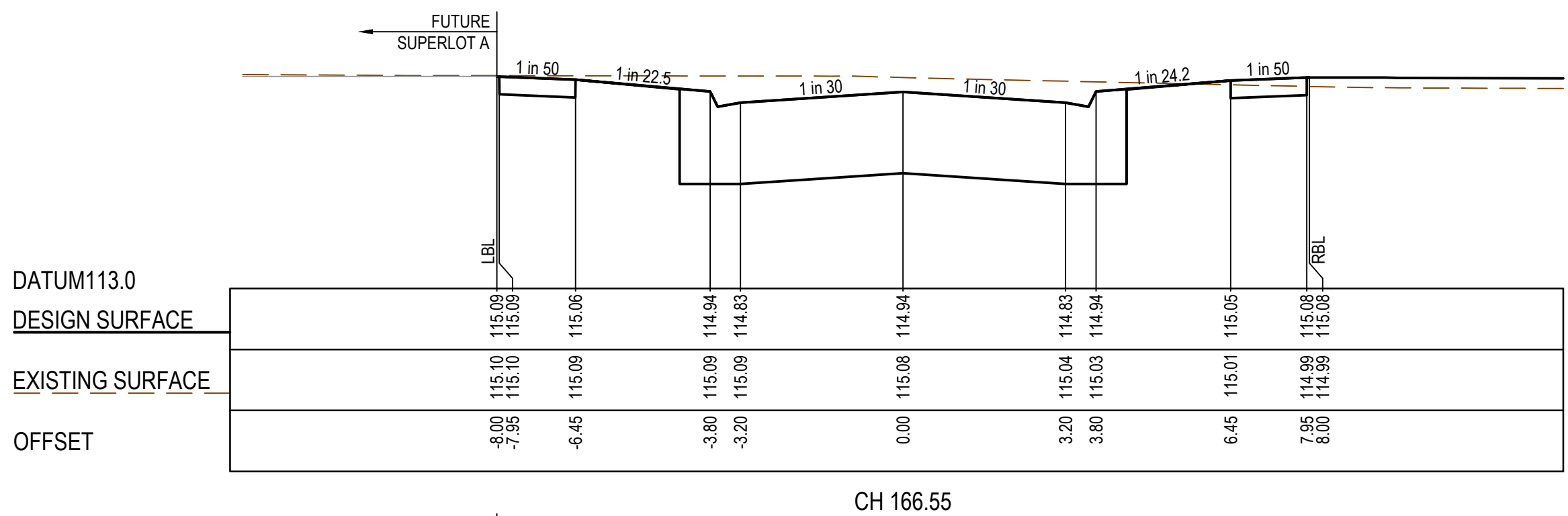
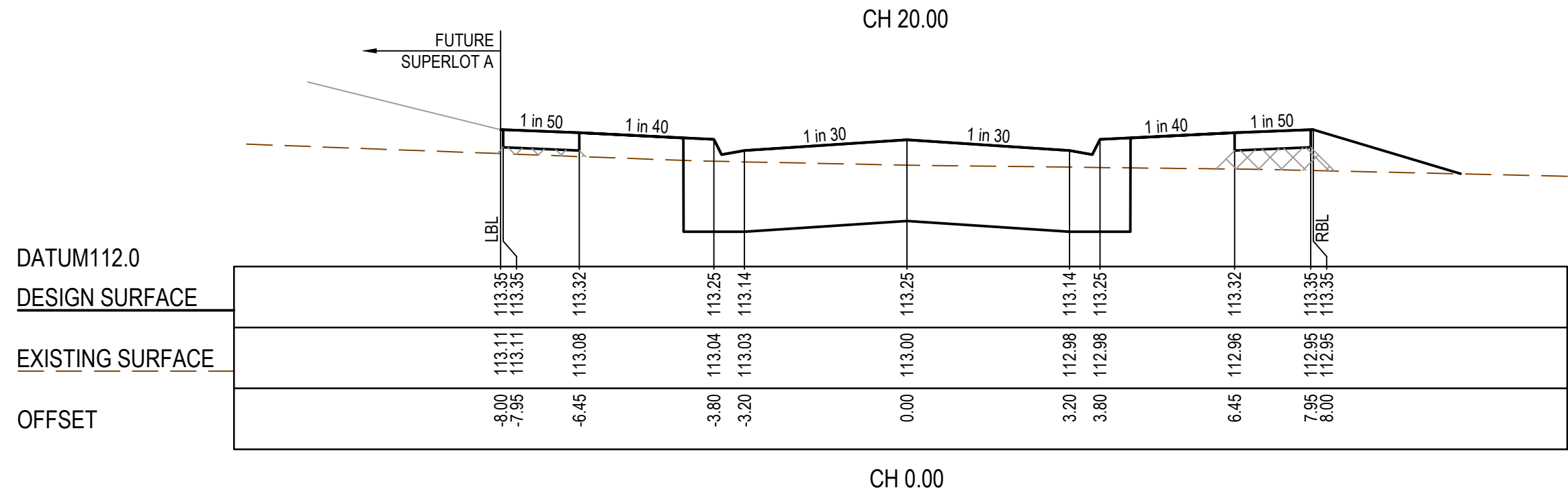
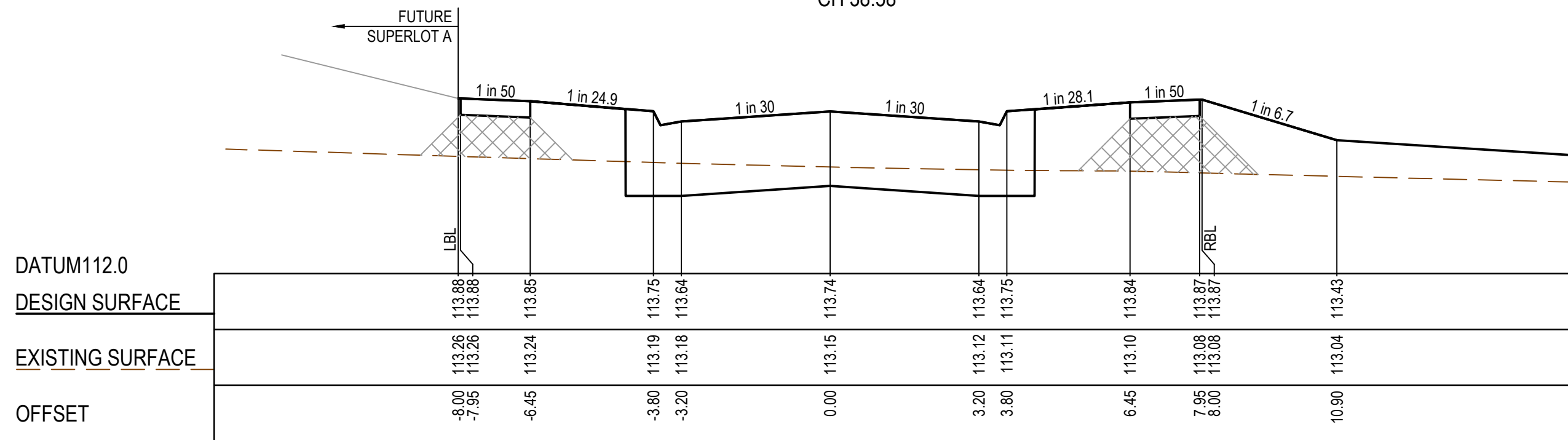
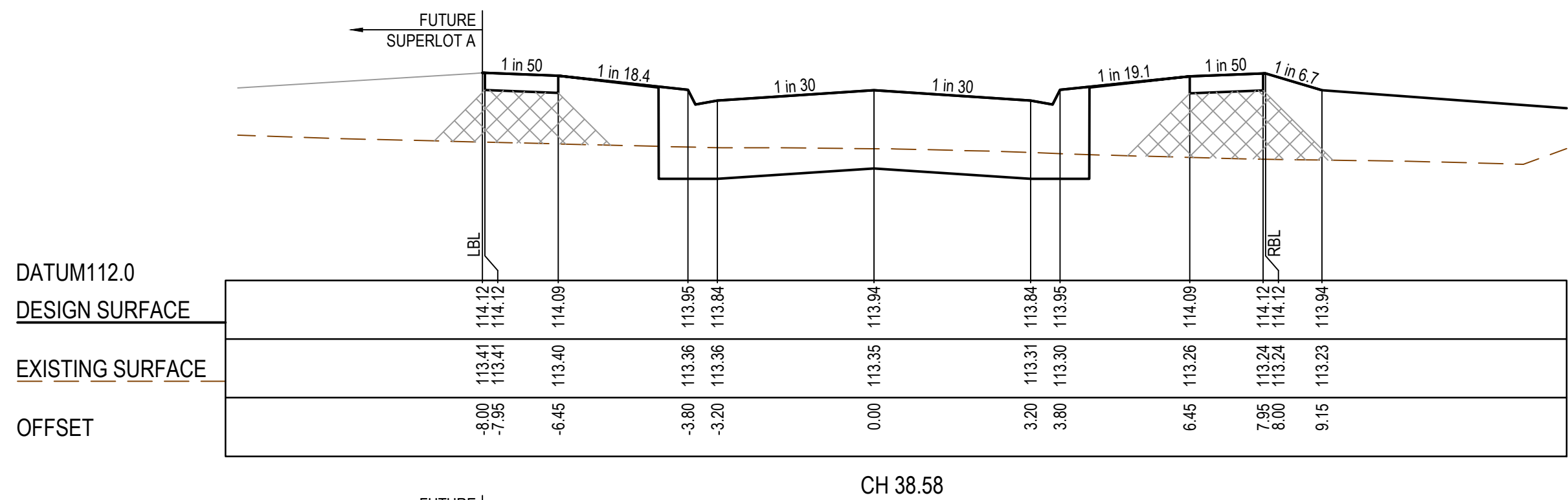
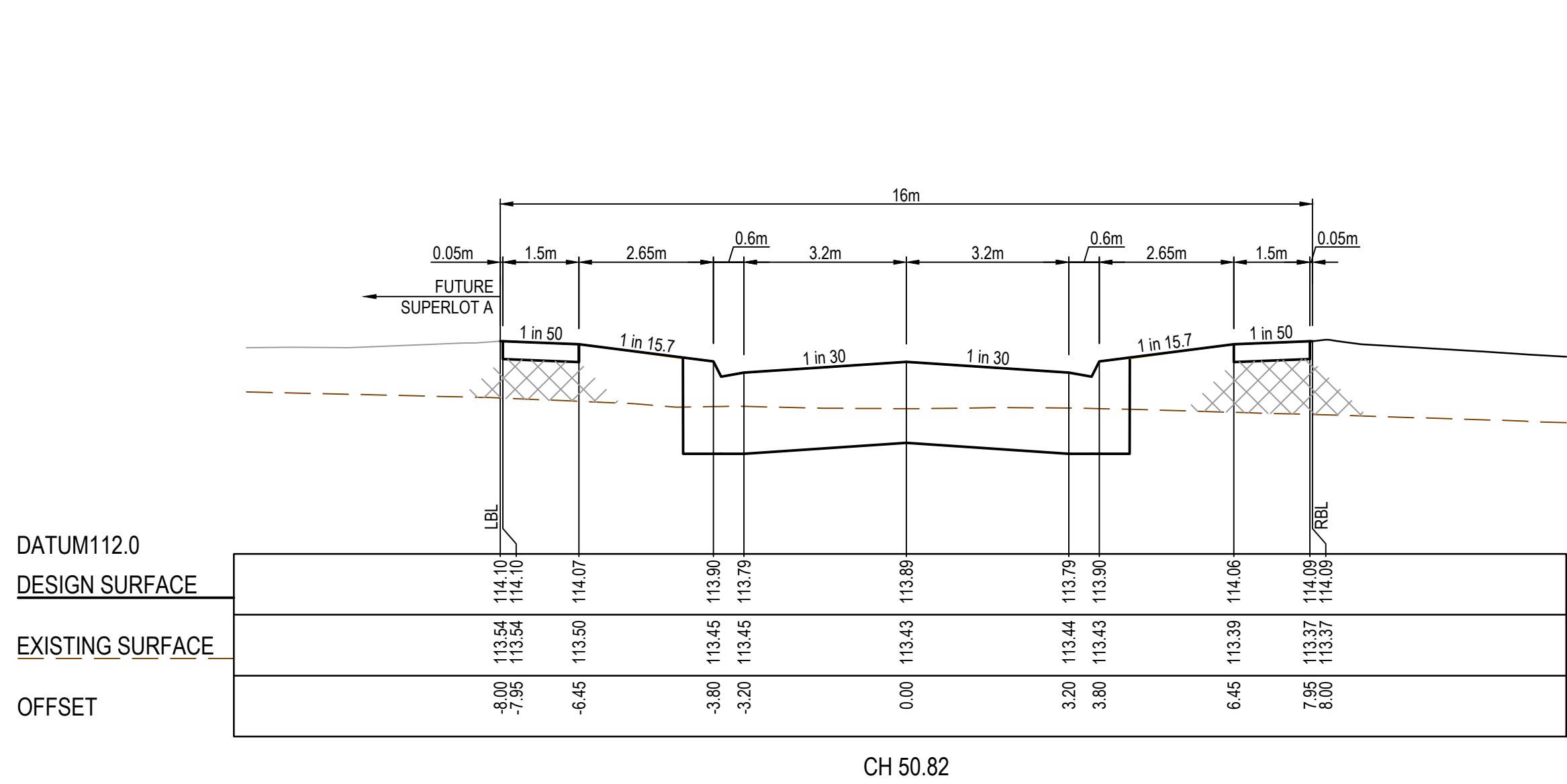
PLAN OF SUB. NO.
PS847502B
PERMIT REF. NO.
PA2018/6004/1



Botania - Stage 8
Melton City Council
Road and Drainage
Cross Sections: Cinnamon Lane
Ch 11.82 - Ch 58.12

MELWAYS REF 355 G5	PROJECT / DRAWING No. 3070E-008-253	SHEET No. 12 of 27	REVISION 1
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STRUCTURAL FILL REQUIRED UNDER
PAVEMENT AND FOOTPATHS WHERE
CONSTRUCTED ABOVE EXISTING SURFACE



AS CONSTRUCTED PLANS

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ISSUED FOR CONSTRUCTION

PLAN OF SUB. NO.
PS847502B
PERMIT REF. NO.
PA2018/6004/1

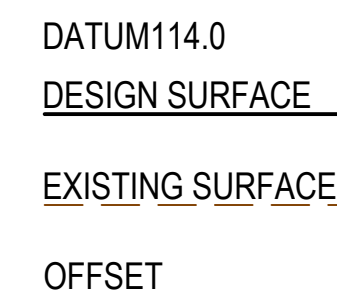
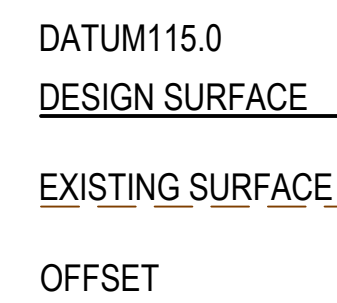
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SCALE AS SHOWN AT 1



Botania - Stage 8
Melton City Council
Road and Drainage
Cross Sections: Goldrush Parade
Ch 0 - Ch 166.55

MELWAYS REF
355 G5
PROJECT / DRAWING No.
3070E-008-254

SHEET No.
13 of 27
REVISION
1

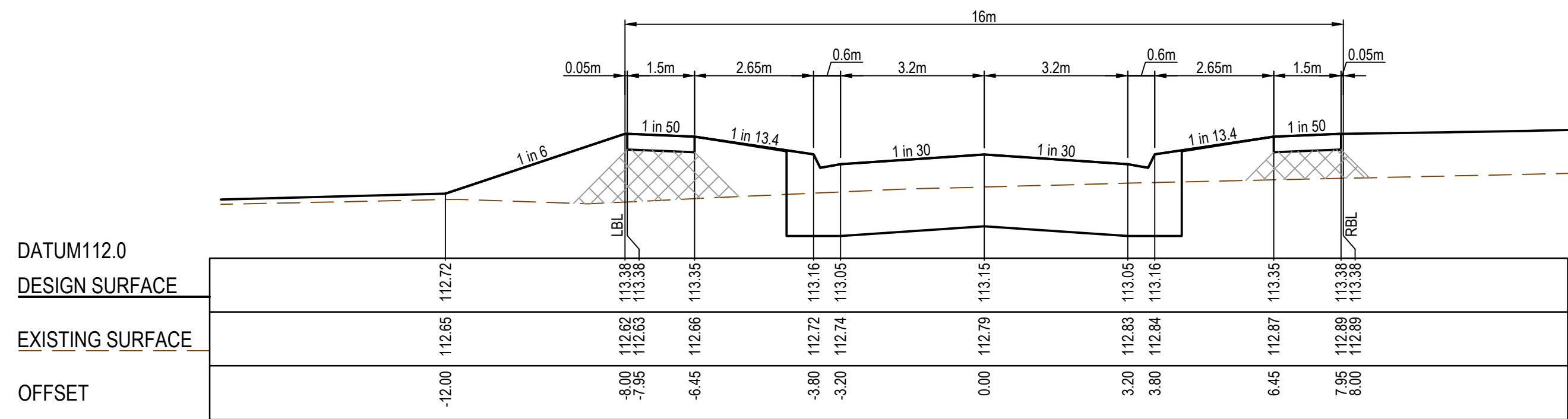


PLAN OF SUB. NO.	PS847502B
PERMIT REF. NO.	PA2018/6004/1

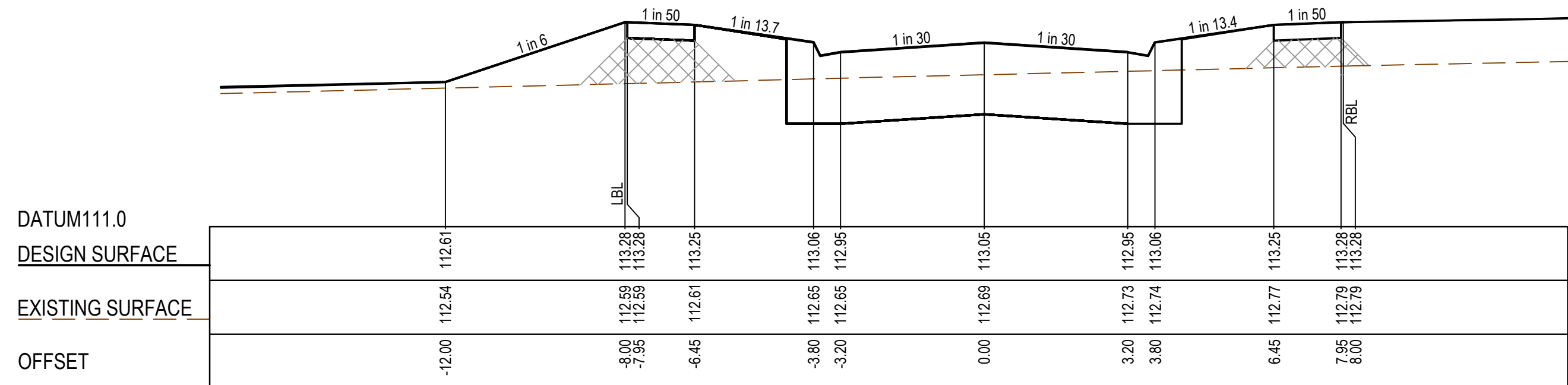


MELWAYS REF 355 G5	PROJECT / DRAWING No. 3070E-008-255	SHEET No. 14 of 27	REVISION 1
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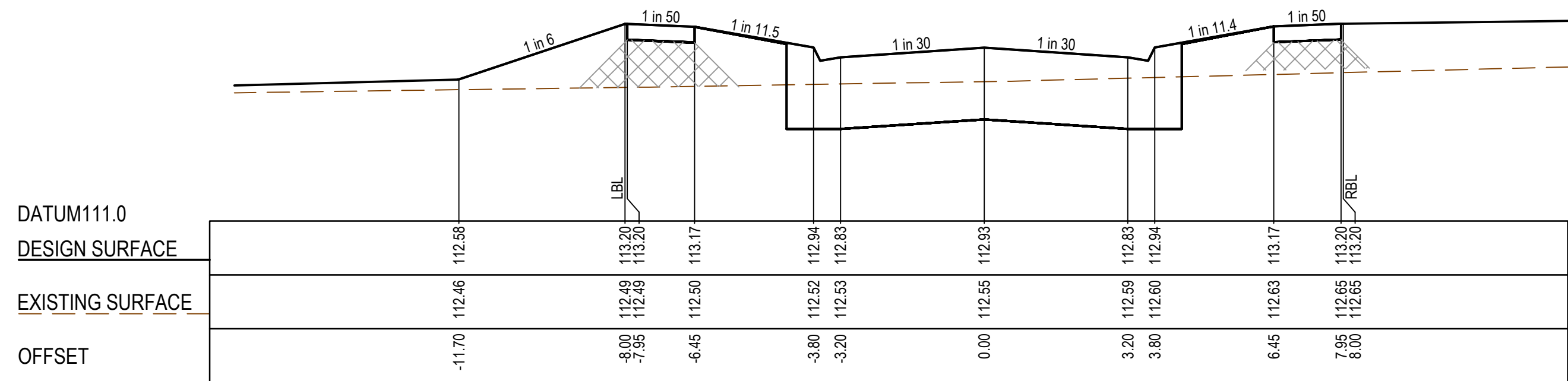
STRUCTURAL FILL REQUIRED UNDER
PAVEMENT AND FOOTPATHS WHERE
CONSTRUCTED ABOVE EXISTING SURFACE



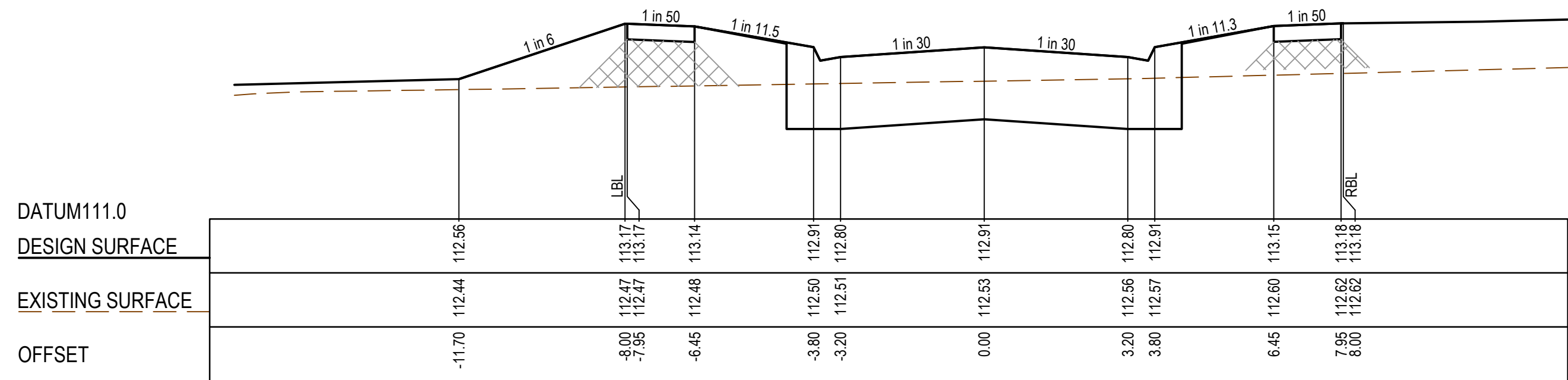
CH 107.51



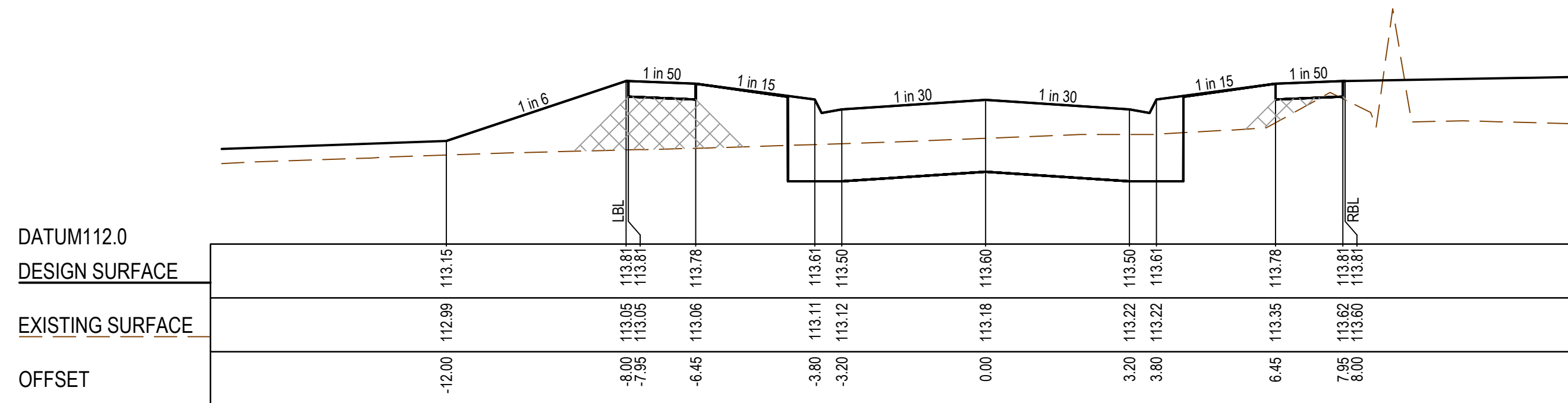
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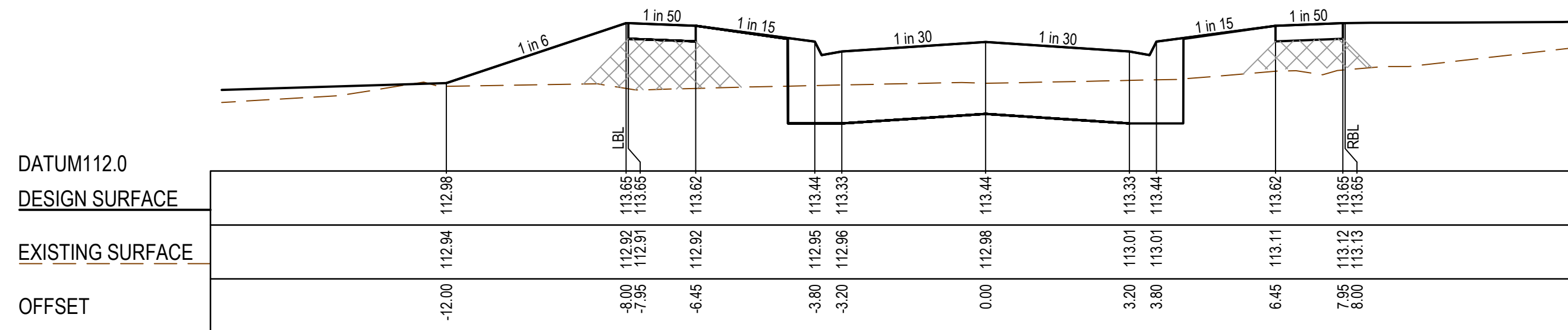
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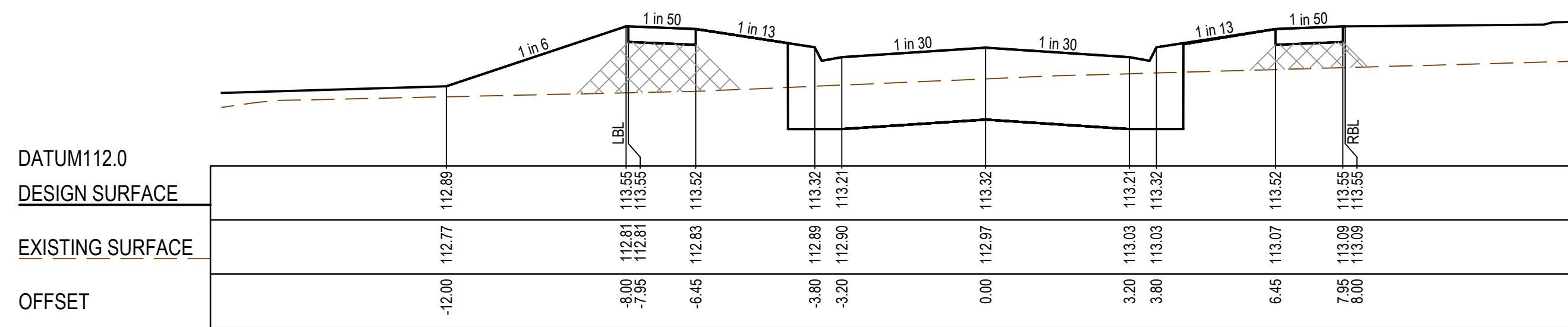
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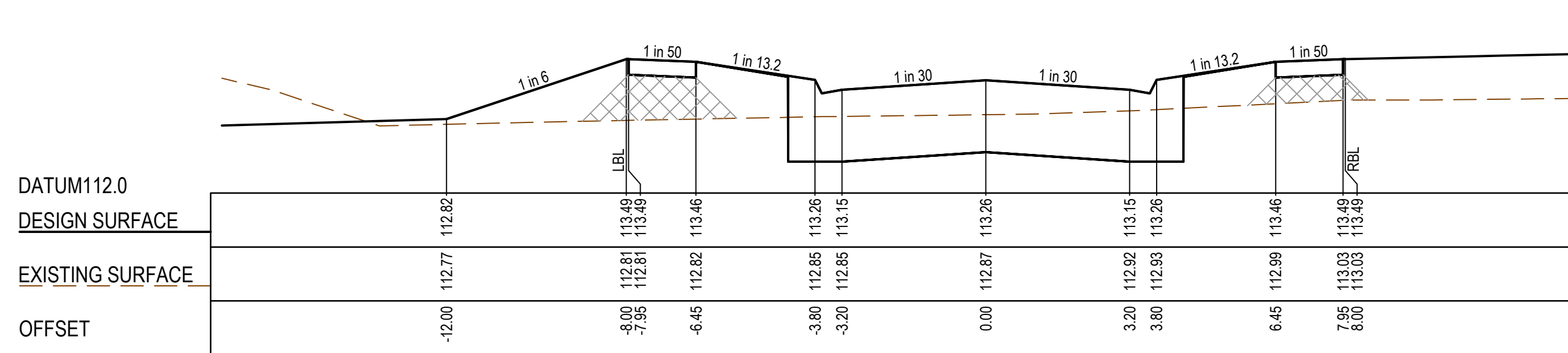
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RTPCH 163.45



RTPCH 139.83



CH 127.92

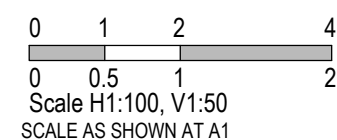
AS CONSTRUCTED PLANS

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PLAN OF SUB. NO.
PS847502B
PERMIT REF. NO.
PA2018/6004/1

ISSUED FOR CONSTRUCTION



Botania - Stage 8
Melton City Council
Road and Drainage
Cross Sections: Lumberjack Drive
Ch 58.92 - Ch 196.66

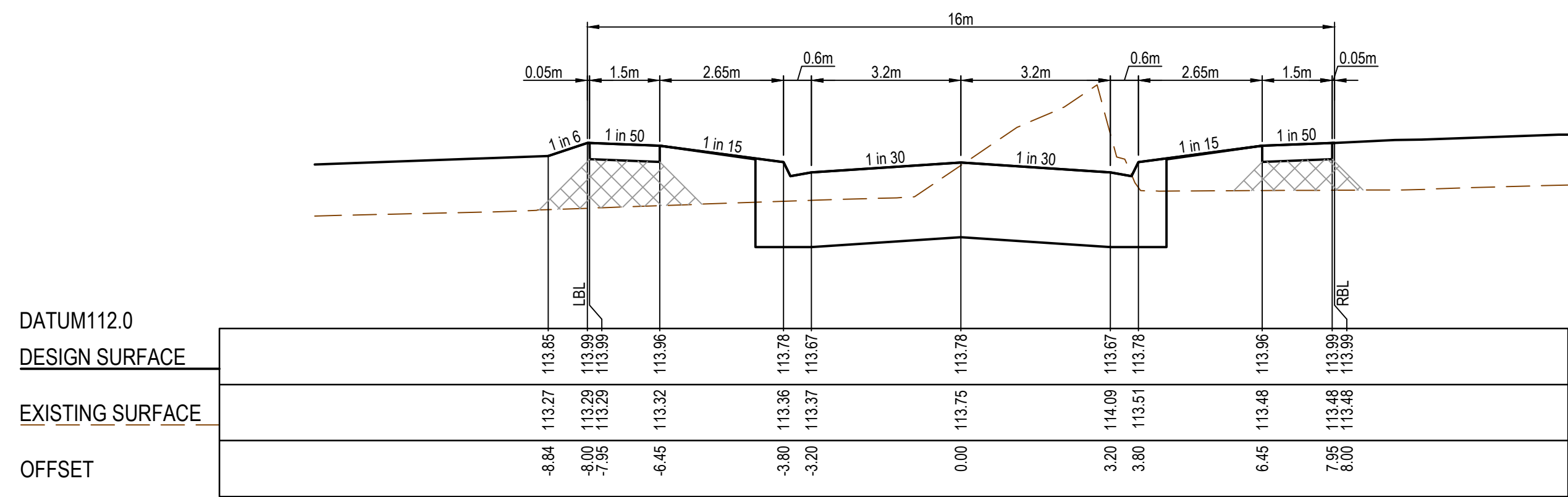
MELWAYS REF
355 G5

PROJECT / DRAWING No.
3070E-008-256

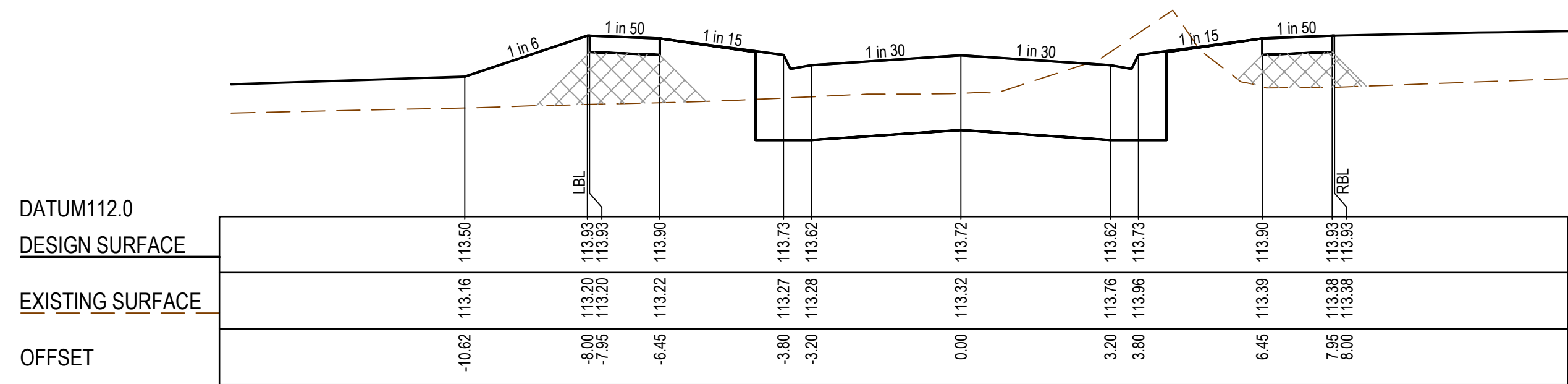
SHEET No.
15 of 27

REVISION
1

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



LTPCH 231.50



TPCH 220.66

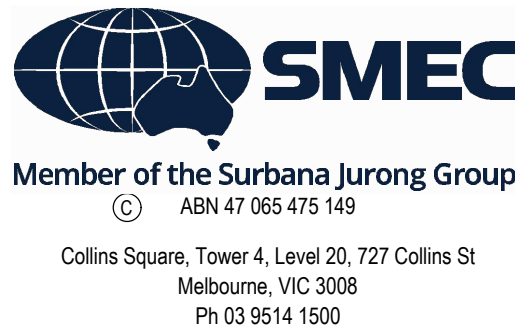
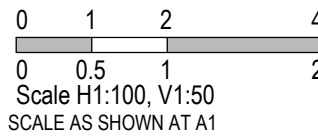
AS CONSTRUCTED PLANS

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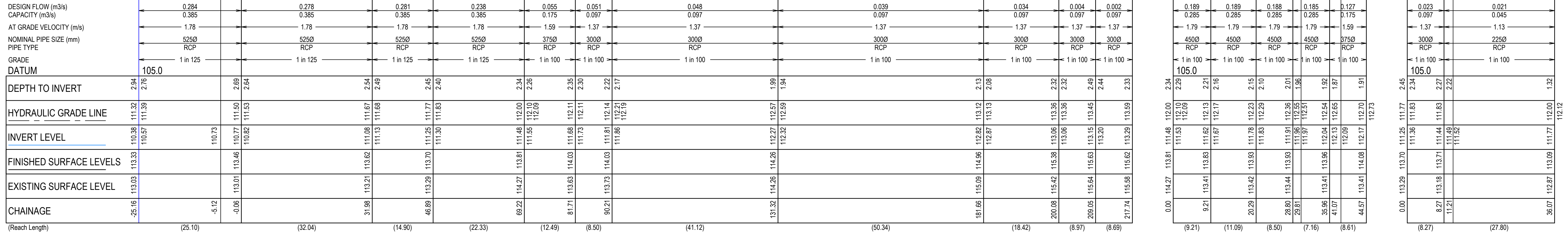
PLAN OF SUB. NO.
PS847502B
PERMIT REF. NO.
PA2018/6004/1

ISSUED FOR CONSTRUCTION



Botania - Stage 8
Melton City Council
Road and Drainage
Cross Sections: Lumberjack Drive
Ch 220.66 - Ch 231.50

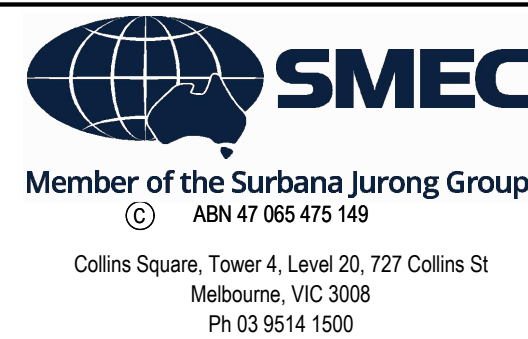
MELWAYS REF 355 G5	PROJECT / DRAWING No 3070E-008-257	SHEET No 16 of 27	REVISION 1
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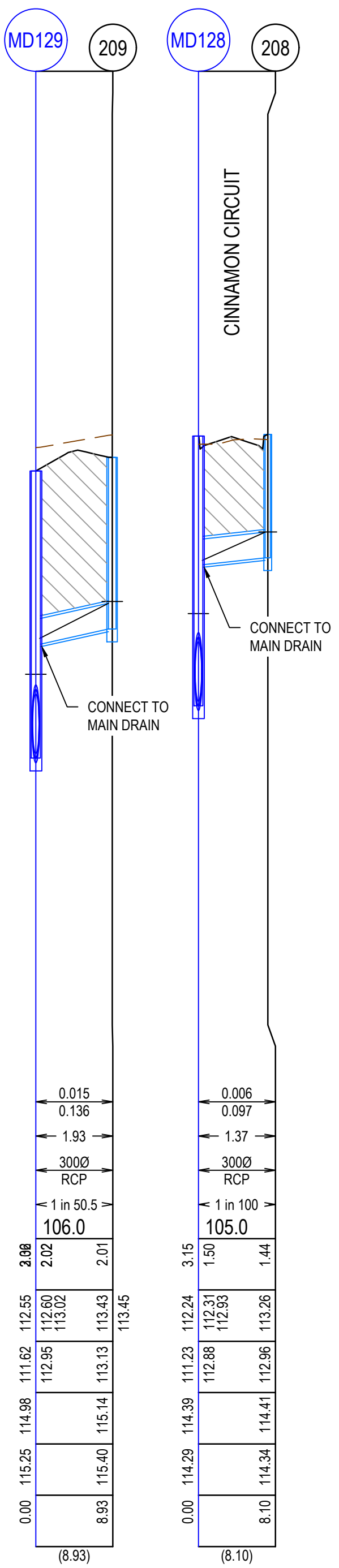
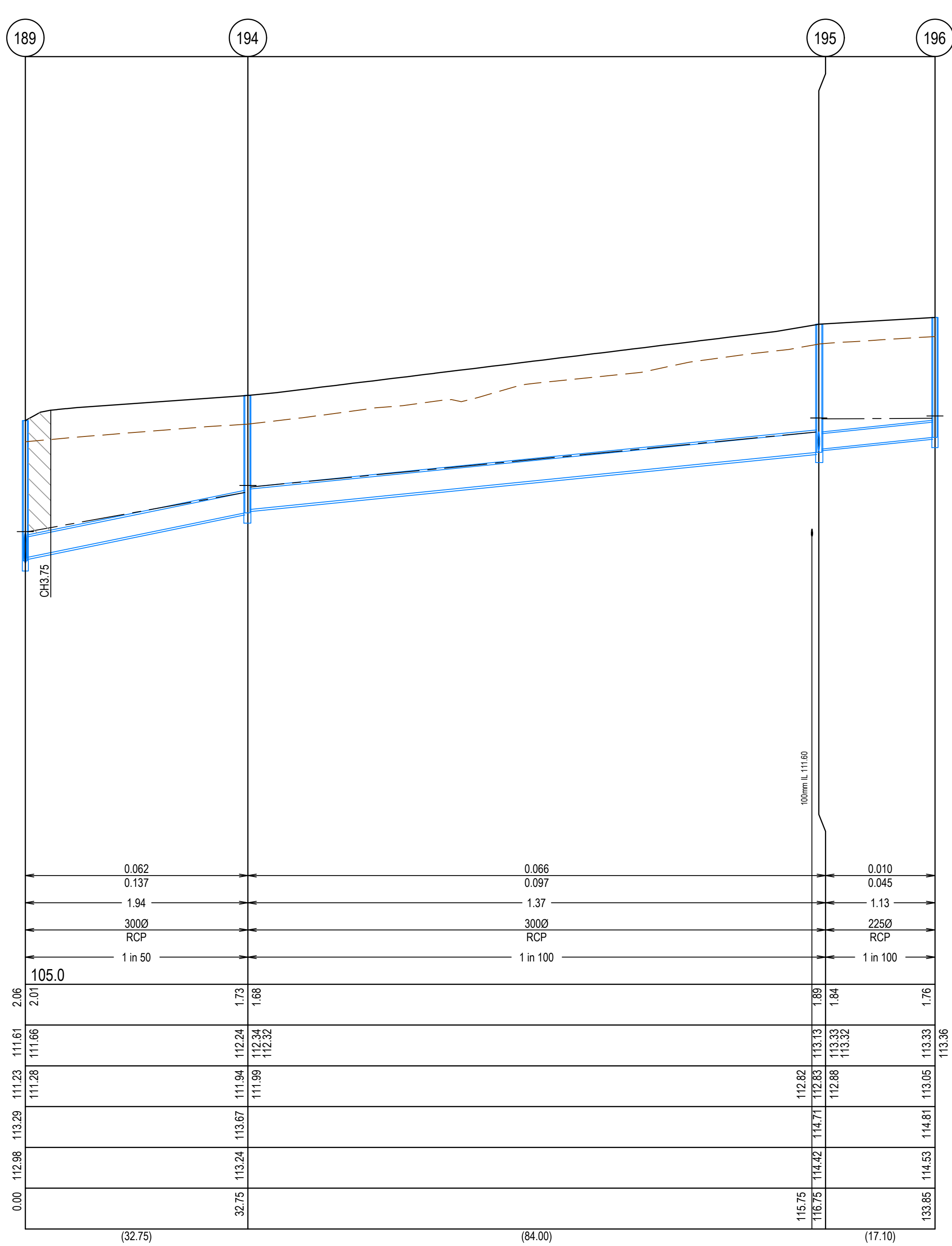
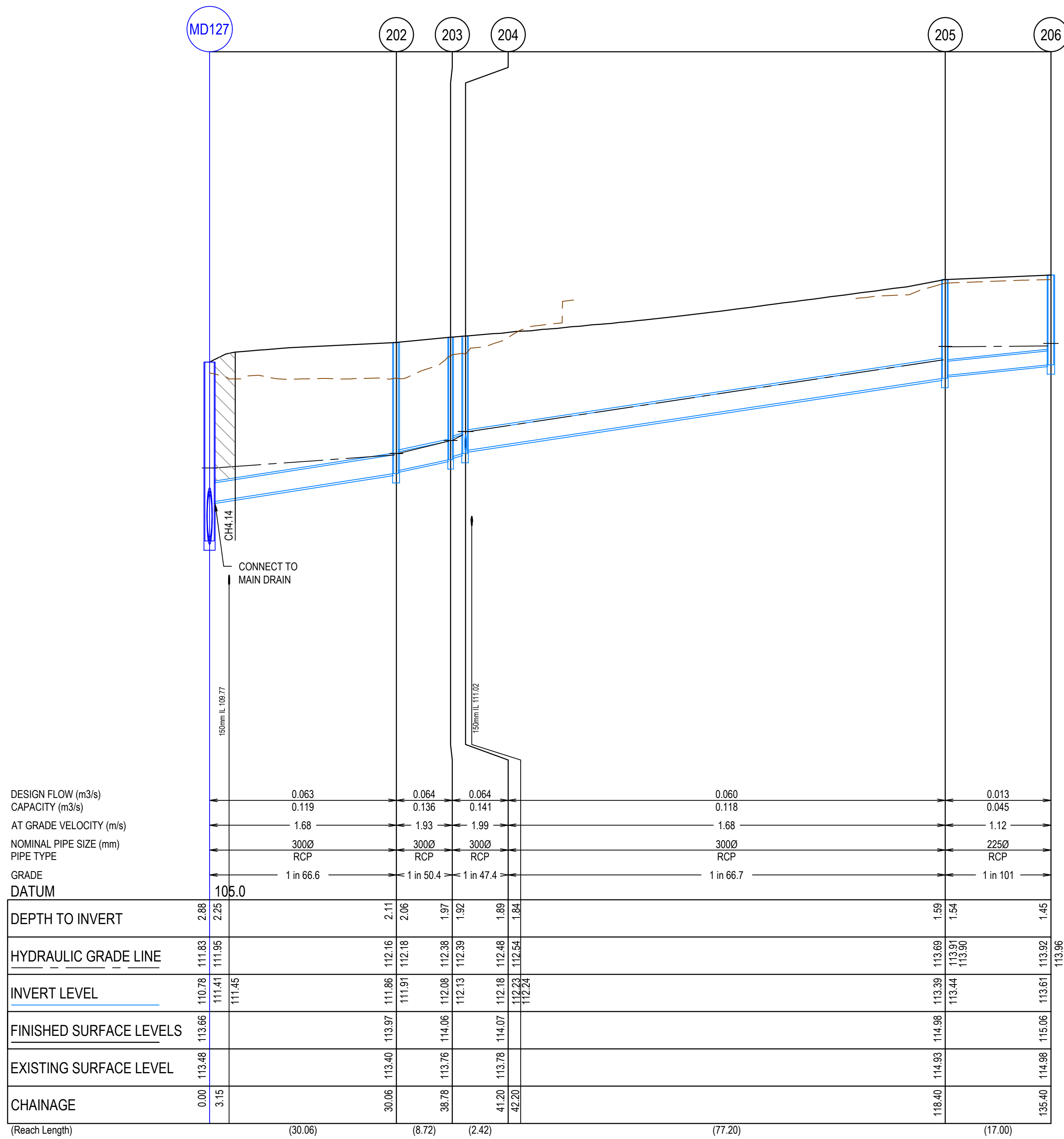


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Scale H1:500, V1:50
SCALE AS SHOWN AT A1



MELWAYS REF 355 G5	PROJECT / DRAWING No. 3070E-008-301	SHEET No. 17 of 27	REVISION 1
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CRUSHED ROCK BACKFILL
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE
WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS
SPECIFIED OTHERWISE



AS CONSTRUCTED PLANS

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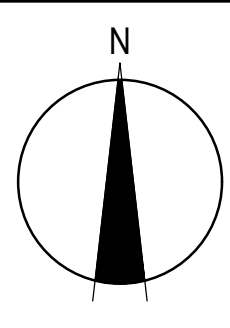
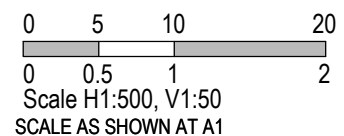
OH&S Management AS/NZS 1899
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PLAN OF SUB. NO.
PS847502B

PERMIT REF. NO.
PA2018/6004/1

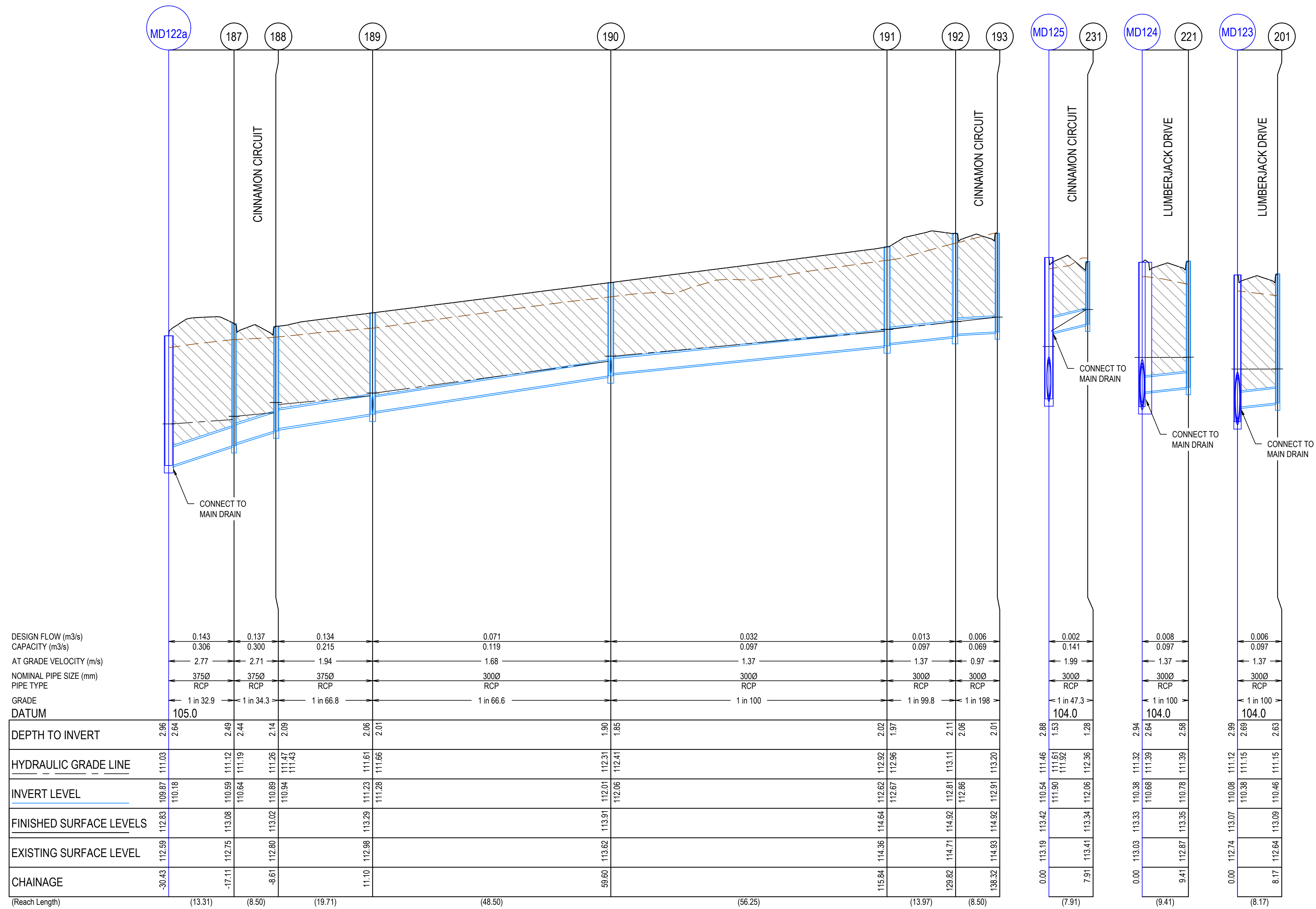
ISSUED FOR CONSTRUCTION



Botania - Stage 8
Melton City Council
Road and Drainage
Drainage Longitudinal Sections - 2

MELWAYS REF 355 G5	PROJECT / DRAWING No. 3070E-008-302	SHEET No. 18 of 27	REVISION 1
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CRUSHED ROCK BACKFILL
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE
WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS
SPECIFIED OTHERWISE



AS CONSTRUCTED PLANS

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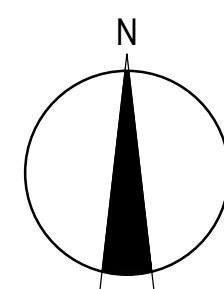
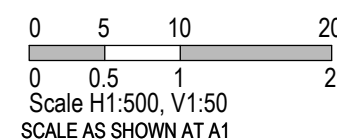
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PLAN OF SUB. NO.
PS847502B

PERMIT REF. NO.
PA2018/6004/1

ISSUED FOR CONSTRUCTION



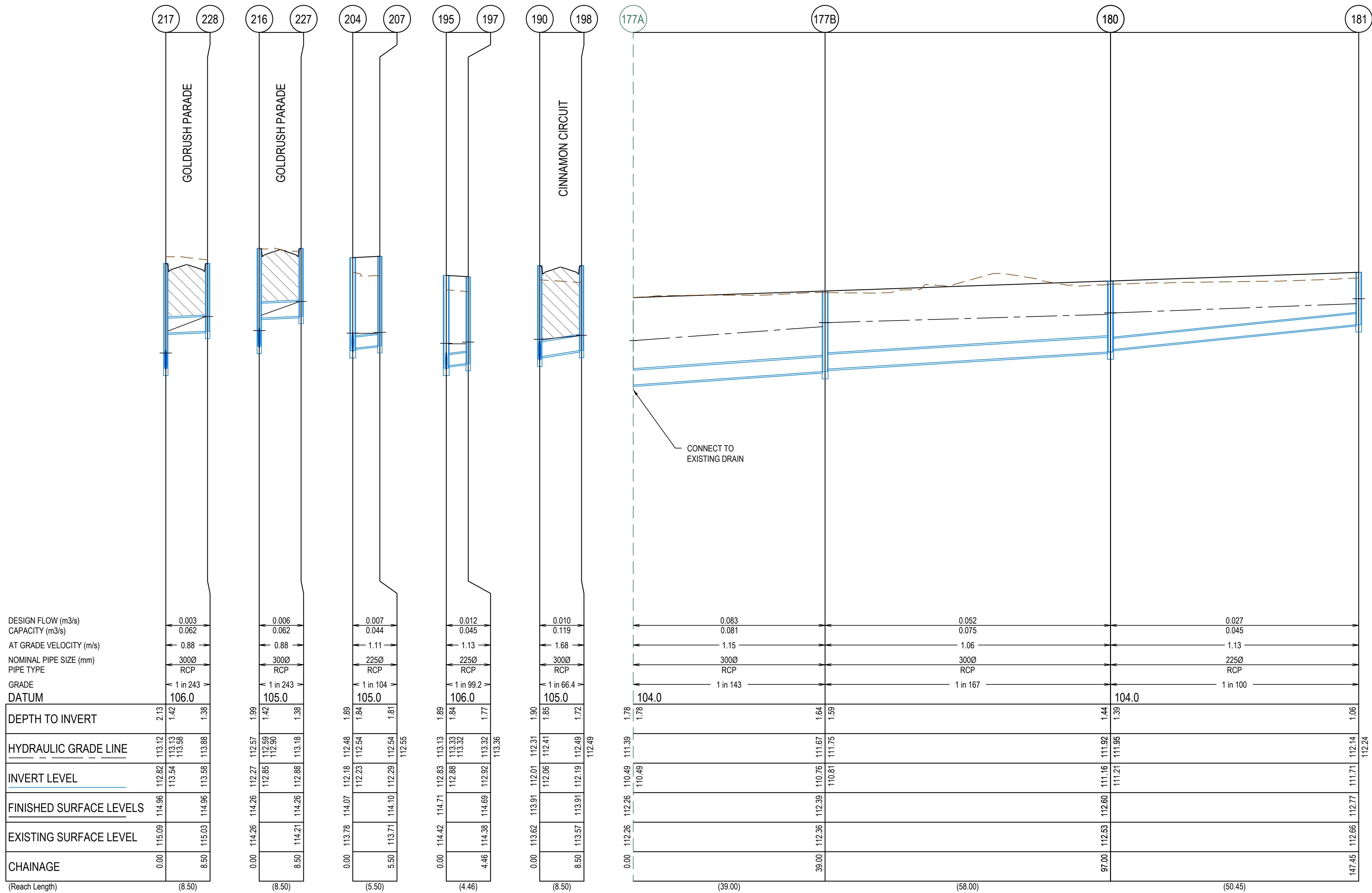
SMEC
Member of the Surlana Jurong Group
ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

GROWLAND

Botania - Stage 8
Melton City Council
Road and Drainage
Drainage Longitudinal Sections - 3

MELWAYS REF 355 G5	PROJECT / DRAWING No. 3070E-008-303	SHEET No. 19 of 27	REVISION 1
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CRUSHED ROCK BACKFILL
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS SPECIFIED OTHERWISE



AS CONSTRUCTED PLANS

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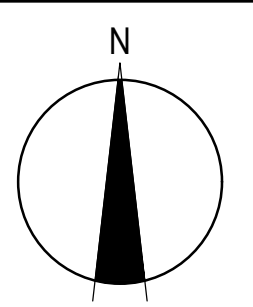
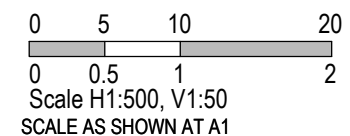
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Member of the Surlana Jurong Group
ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

GROWLAND

Botania - Stage 8
Melton City Council
Road and Drainage
Drainage Longitudinal Sections - 4

MELWAYS REF 355 G5	PROJECT / DRAWING No. 3070E-008-304	SHEET No. 20 of 27	REVISION 1
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PIT SCHEDULE											
PIT NUMBER	TYPE	INTERNAL WIDTH (mm)	LENGTH (mm)	INLET DIAMETER (mm)	INV R.L. (m)	OUTLET DIAMETER (mm)	INV R.L. (m)	F.S.L.	DEPTH	STANDARD DRAWING	REMARKS
Ex. 122a	GRATED ENTRY PIT	1500	900	900	109.949	1050	109.874	112.829	2.955	EDCM 601 & 607	CONNECT TO EXISTING MAIN DRAIN PIT
				375	110.184						
Ex. 123	GRATED ENTRY PIT	1200	900	900	110.127	900	110.077	113.068	2.991	EDCM 601 & 607	CONNECT TO EXISTING MAIN DRAIN PIT
				300	110.377						
Ex. 124	GRATED ENTRY PIT	1200	1500	750	110.458	900	110.383	113.327	2.944	EDCM 601 & 607	CONNECT TO EXISTING MAIN DRAIN PIT
				525	110.571						
				300	110.683						
Ex. 125	GRATED ENTRY PIT	1500	900	750	110.593	750	110.543	113.423	2.88	EDCM 601 & 607	CONNECT TO EXISTING MAIN DRAIN PIT
				300	111.897						
Ex. 127	GRATED ENTRY PIT	1500	900	750	110.827	750	110.777	113.655	2.878	EDCM 601 & 607	CONNECT TO EXISTING MAIN DRAIN PIT
				300	111.409						
Ex. 128	GRATED ENTRY PIT	1050	900	750	111.282	750	111.232	114.385	3.154	EDCM 601 & 607	CONNECT TO EXISTING MAIN DRAIN PIT
				300	112.881						
Ex. 129	GRATED ENTRY PIT	1050	900	750	111.67	750	111.62	114.976	3.356	EDCM 601 & 607	CONNECT TO EXISTING MAIN DRAIN PIT
				300	112.952						
177a	TURNING POINT			300	110.486	300	110.486	112.262	1.776		CONNECT TO EXISTING END PIPE
177b	JUNCTION PIT	600	900	300	110.809	300	110.759	112.395	1.636	EDCM 605	
180	JUNCTION PIT	600	900	225	111.207	300	111.157	112.598	1.441	EDCM 605	
181	JUNCTION PIT	600	900			225	111.711	112.774	1.063	EDCM 605	
187	GRATED ENTRY PIT	900	600	375	110.639	375	110.589	113.076	2.487	EDCM 601	
188	DOUBLE GRATED ENTRY PIT	600	900	375	110.937	375	110.887	113.022	2.135	EDCM 602	
189	GRATED ENTRY PIT	600	900	300	111.282	375	111.232	113.295	2.063	EDCM 601	
				300	111.282						
190	GRATED ENTRY PIT	600	900	300	112.06	300	112.01	113.912	1.902	EDCM 601	
				300	112.06						
191	GRATED ENTRY PIT	600	900	300	112.672	300	112.622	114.639	2.017	EDCM 601	
192	GRATED ENTRY PIT	900	600	300	112.862	300	112.812	114.917	2.105	EDCM 601	
193	GRATED ENTRY PIT	900	600			300	112.905	114.917	2.012	EDCM 601	
194	JUNCTION PIT	600	900	300	111.987	300	111.937	113.665	1.728	EDCM 605	
195	JUNCTION PIT	600	900	225	112.877	300	112.827	114.713	1.886	EDCM 605	
				225	112.877						
196	JUNCTION PIT	600	900			225	113.048	114.812	1.764	EDCM 605	
197	JUNCTION PIT	600	900			225	112.922	114.687	1.765	EDCM 605	
198	GRATED ENTRY PIT	900	600			300	112.188	113.912	1.724	EDCM 601	
199	GRATED ENTRY PIT	600	900	225	111.492	300	111.442	113.714	2.272	EDCM 601	
200	JUNCTION PIT	900	600			225	111.77	113.093	1.323	EDCM 605	
201	GRATED ENTRY PIT	900	600			300	110.458	113.088	2.63	EDCM 601	
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203	JUNCTION PIT	900	600	300	112.133	300	112.083	114.056	1.973	EDCM 605	
204	JUNCTION PIT	600	900	300	112.234	300	112.184	114.074	1.89	EDCM 605	
				225	112.234						
205	JUNCTION PIT	900	600	225	113.442	300	113.392	114.984	1.592	EDCM 605	
206	JUNCTION PIT	600	900			225	113.61	115.057	1.447	EDCM 605	
207	JUNCTION PIT	600	900			225	112.287	114.101	1.814	EDCM 601	
208	GRATED ENTRY PIT	900	600			300	112.962	114.405	1.443	EDCM 601	
209	GRATED PIT	600	900			300	113.129	115.136	2.007	EDCM 601 & 607	HAUNCH PIT UNDER KERB AS PER EDCM 607. LID & GRATE TO BE CENTRED IN THE ROAD INVERT. REFER TYPICAL DETAIL.
210	DOUBLE GRATED ENTRY PIT	750	900	525	110.821	525	110.771	113.458	2.686	EDCM 602 & 607	HAUNCHED UNDER KERB AS PER EDCM 607
211	GRATED ENTRY PIT	750	900	525	111.128	525	111.078	113.619	2.542	EDCM 601 & 607	HAUNCHED UNDER KERB AS PER EDCM 607
212	GRATED ENTRY PIT	750	900	300	111.359	525	111.247	113.699	2.452	EDCM 601 & 607	HAUNCHED UNDER KERB AS PER EDCM 607
				525	111.297						
213	GRATED ENTRY PIT	750	900	375	111.551	525	111.476	113.811	2.335	EDCM 601 & 607	HAUNCHED UNDER KERB AS PER EDCM 607
				450	111.526						
214	GRATED ENTRY PIT	900	600	300	111.725	375	111.675	114.028	2.352	EDCM 601	
215	GRATED ENTRY PIT	600	900	300	111.86	300	111.81	114.027	2.217	EDCM 601	
216	GRATED ENTRY PIT	600	900	300	112.322	300	112.272	114.263	1.992	EDCM 601	
				300	112.846						
217	GRATED ENTRY PIT	600	900	300	112.875	300	112.825	114.958	2.133	EDCM 601	
				300	113.542						
218	TURNING POINT			300	113.059	300	113.059	115.382	2.322		
219	GRATED ENTRY PIT	900	600	300	113.199	300	113.149	115.635	2.486	EDCM 601	
220	GRATED ENTRY PIT	900	600			300	113.286	115.616	2.33	EDCM 601	
221	GRATED ENTRY PIT	900	600			300	110.777	113.352	2.575	EDCM 601	
222	GRATED ENTRY PIT	600	900	450	111.668	450	111.618	113.828	2.21	EDCM 601	
223	DOUBLE GRATED ENTRY PIT	600	900	450	111.828	450	111.778	113.926	2.147	EDCM 602	
224	DOUBLE GRATED ENTRY PIT	600	900	450	111.964	450	111.914	113.926	2.012	EDCM 602	
225	GRATED ENTRY PIT	600	900	375	112.085	450	112.035	113.959	1.924	EDCM 601	
226	ENDPIPE					375	112.171	114.084	1.913		END PIPE FOR FUTURE CONNECTION
227	GRATED ENTRY PIT	900	600			300	112.881	114.263	1.382	EDCM 601	
228	GRATED ENTRY PIT	900	600			300	113.577	114.957	1.38	EDCM 601	
231	GRATED ENTRY PIT	900	600			300	112.064	113.341	1.277	EDCM 602 & 607	

AS CONSTRUCTED PLANS

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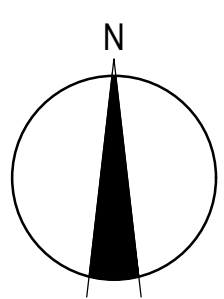
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PLAN OF SUB. NO.
PS847502B

PERMIT REF. NO.
PA2018/6004/1

ISSUED FOR CONSTRUCTION

SCALE AS SHOWN AT A1





SMEC

Member of the Surbana Jurong Group

© ABN 47 065 475 149

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



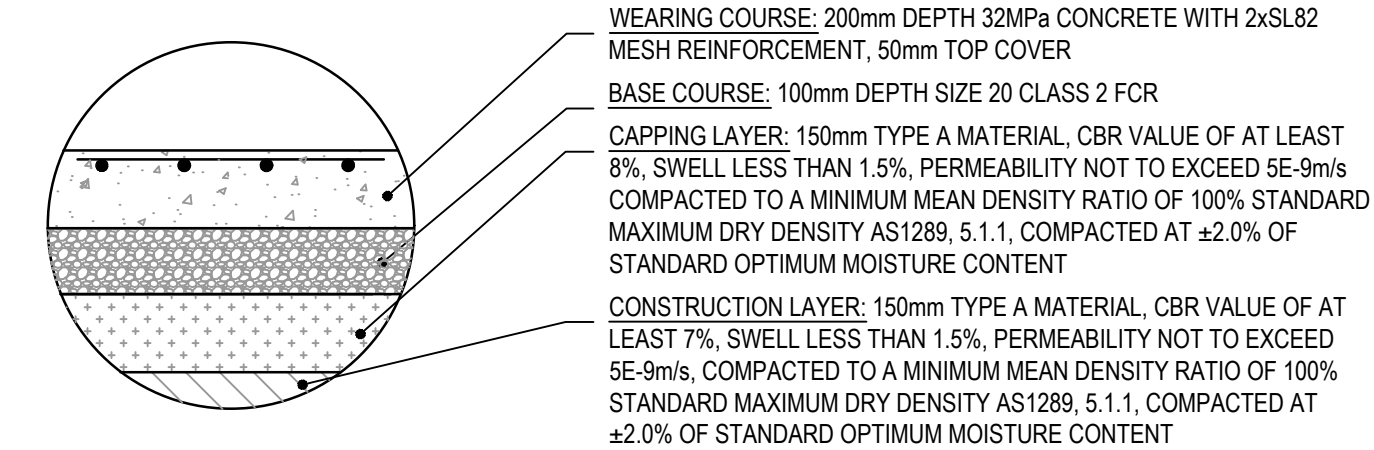
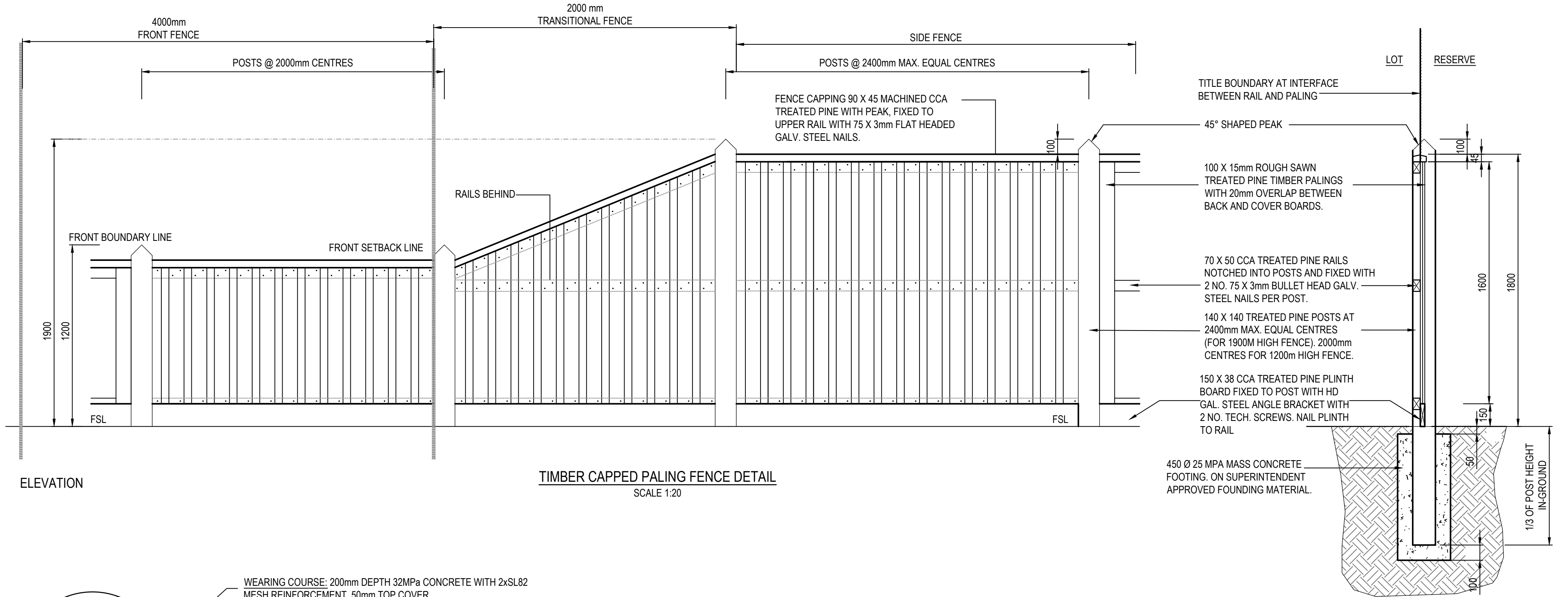
Botania - Stage 8
Melton City Council
Road and Drainage
Pit Schedule

MELWAYS REF
355 G5

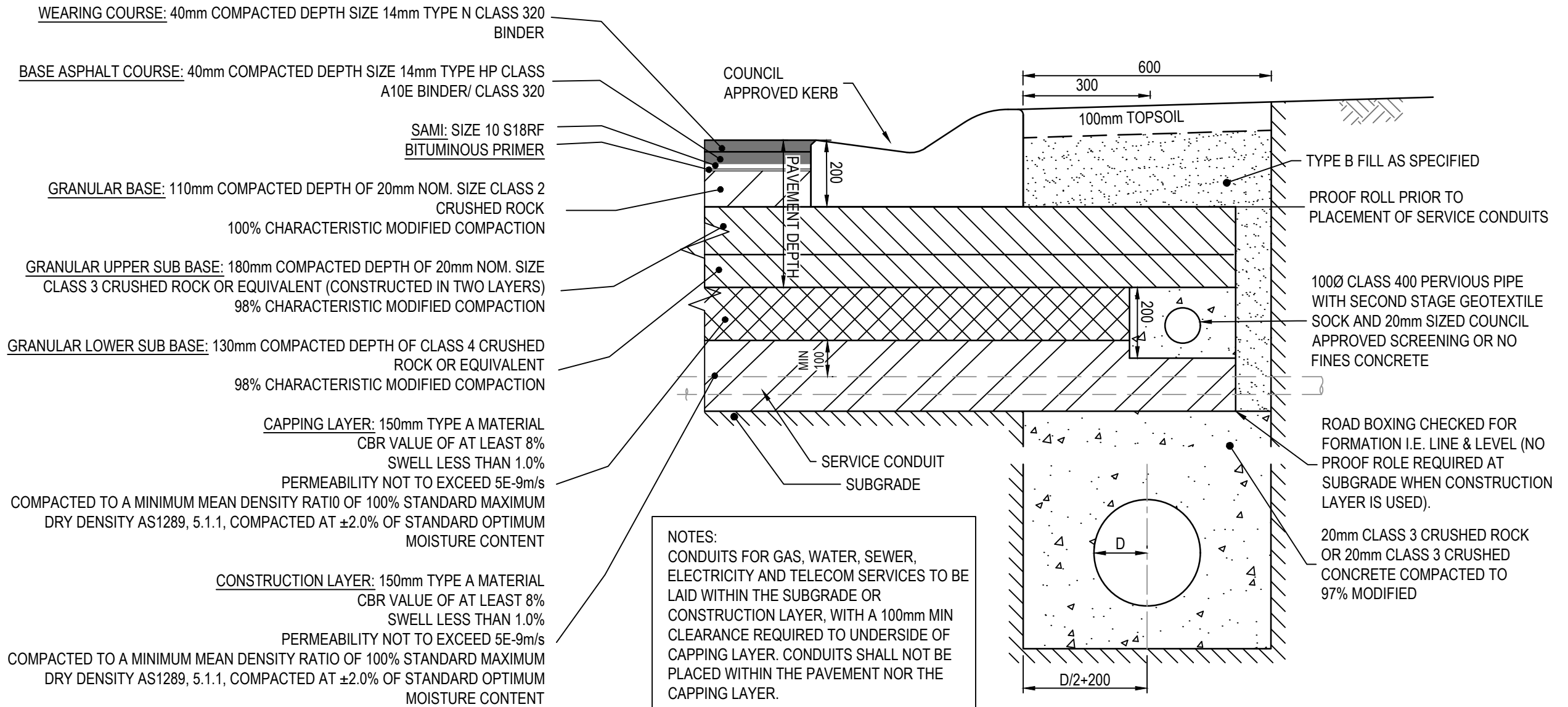
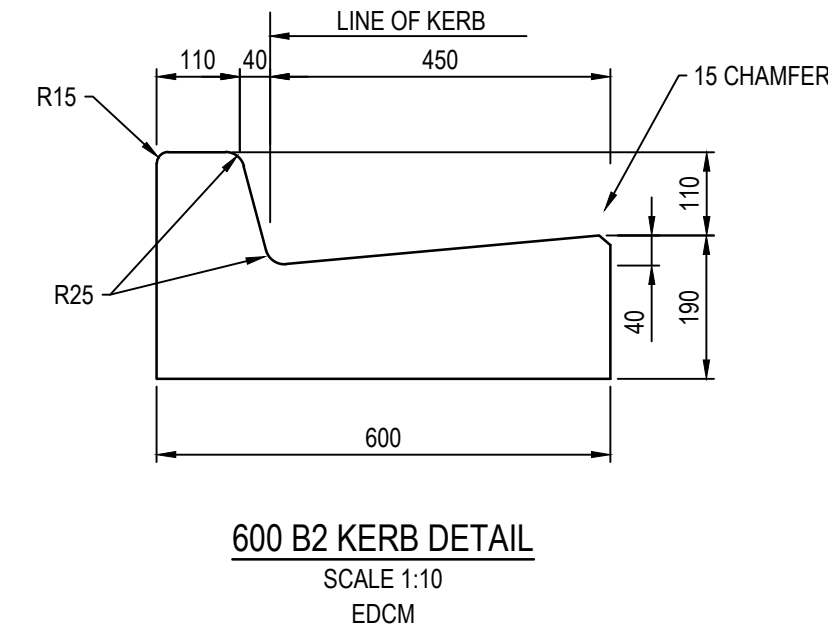
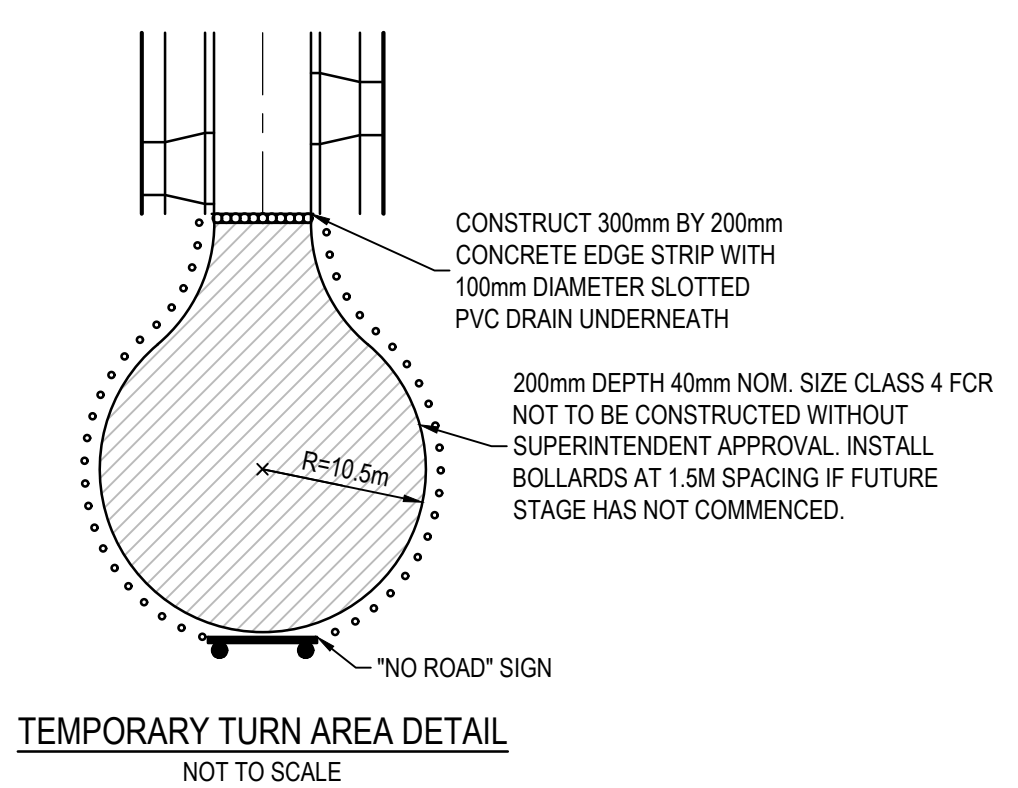
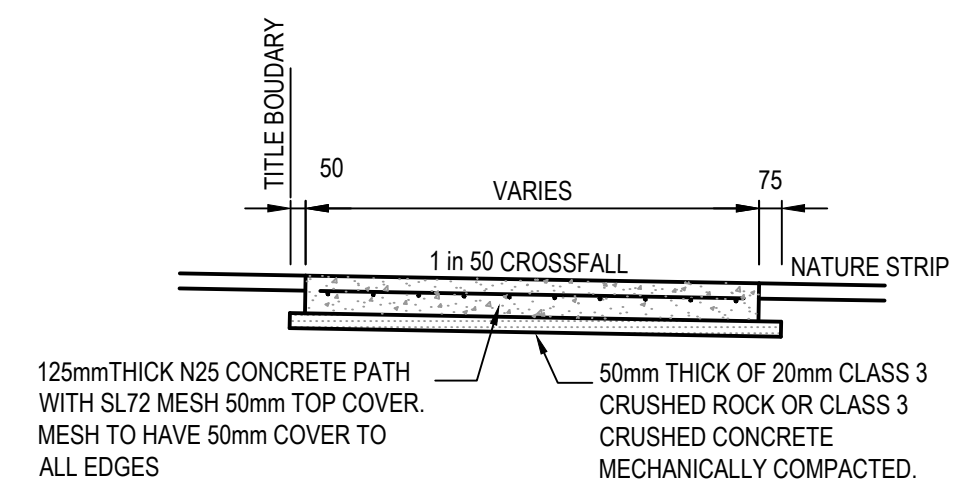
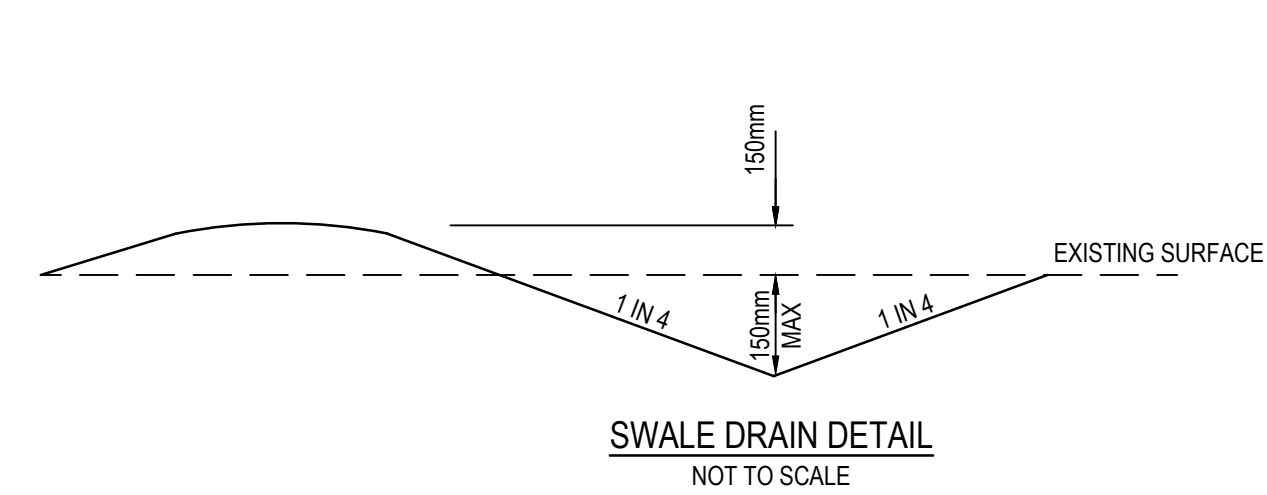
PROJECT / DRAWING No.
3070E-008-351

SHEET No.
21 of 27

REVISION
1



CINNAMON LANE
PAVEMENT COMPOSITION
300mm PAVEMENT
(EXCLUDING CONSTRUCTION LAYER)



NOTE
ALL PAVEMENT DESIGNS HAVE BEEN PROVIDED BY CMW GEOSCIENCES. DOCUMENTS REF. MEL2018-0151AB Rev3, DATED 27 FEBRUARY 2019 & MEL2020-0146AB Rev2, DATED 23 SEPTEMBER 2020. SMEC IS NOT RESPONSIBLE FOR GEOTECHNICAL OR PAVEMENT RELATED DESIGNS AND IS NOT RESPONSIBLE FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THESE DESIGNS. THE PAVEMENT COMPOSITIONS SHOWN ON THIS DRAWING HAVE BEEN REPRODUCED FROM THE PAVEMENT REPORT FOR THIS DEVELOPMENT STAGE. THIS DOCUMENT SHOULD BE REVIEWED BY THE CONTRACTOR TO ENSURE DESIGN HAS BEEN INTERPRETED CORRECTLY. A COPY OF THIS DOCUMENT WILL BE MADE AVAILABLE ON REQUEST. ANY DIFFERENCES FROM THIS REQUIREMENTS SHOWN ARE TO BE NOTIFIED TO THE SUPERINTENDENT BEFORE PROCEEDING.

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

AS CONSTRUCTED PLANS

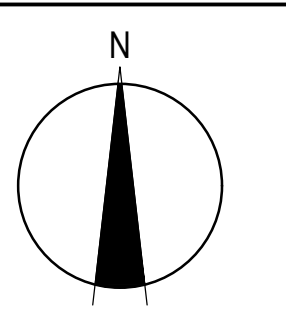
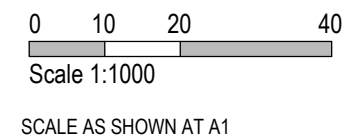
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PLAN OF SUB. NO.
PS847502B

PERMIT REF. NO.
PA2018/6004/1

ISSUED FOR CONSTRUCTION





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

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



GROWLAND

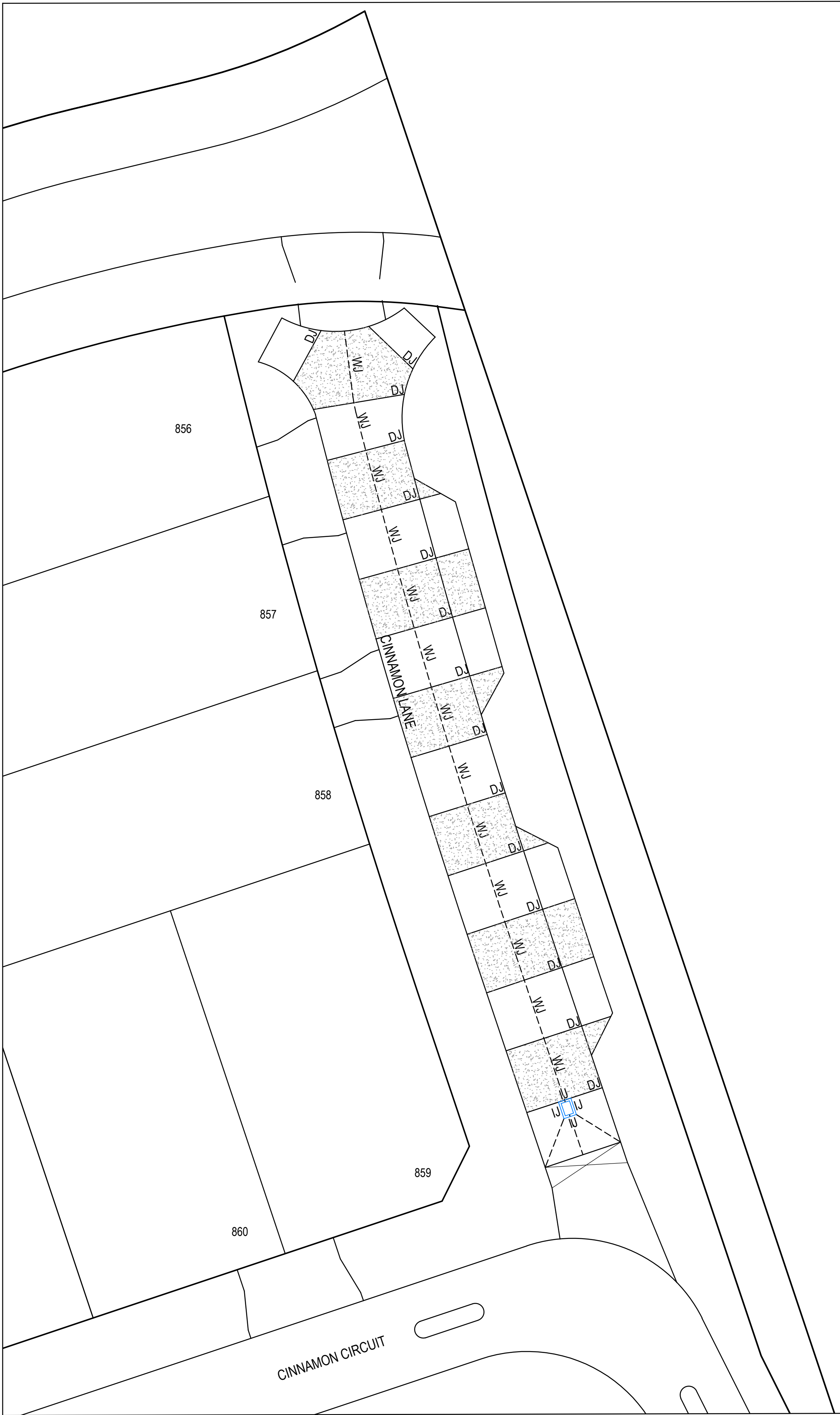
Botania - Stage 8
Melton City Council
Road and Drainage
Pavement Details

MELWAYS REF
355 G5

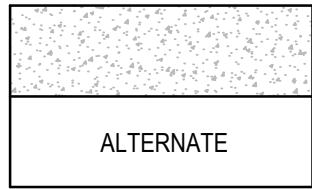
PROJECT / DRAWING No
3070E-008-411

SHEET No
22 of 27

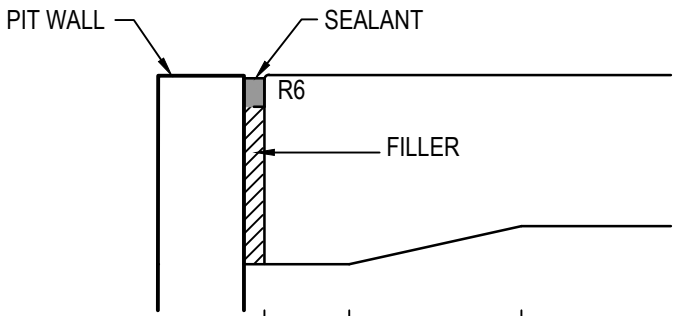
REVISION
1



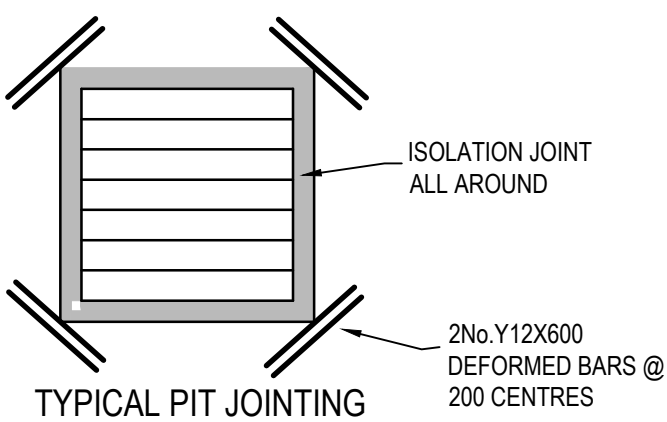
- JOINT DETAIL NOTES:**
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 2. TRANSVERSE/CONTRACTION JOINTS ARE TO BE PLACED AT A MAXIMUM SPACING OF 12m.
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 4. ALL JOINTS SHALL BE LOCATED AND SPACED IN ACCORDANCE WITH "CEMENT AND CONCRETE ASSOCIATION OF AUSTRALIA - CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS 1997".



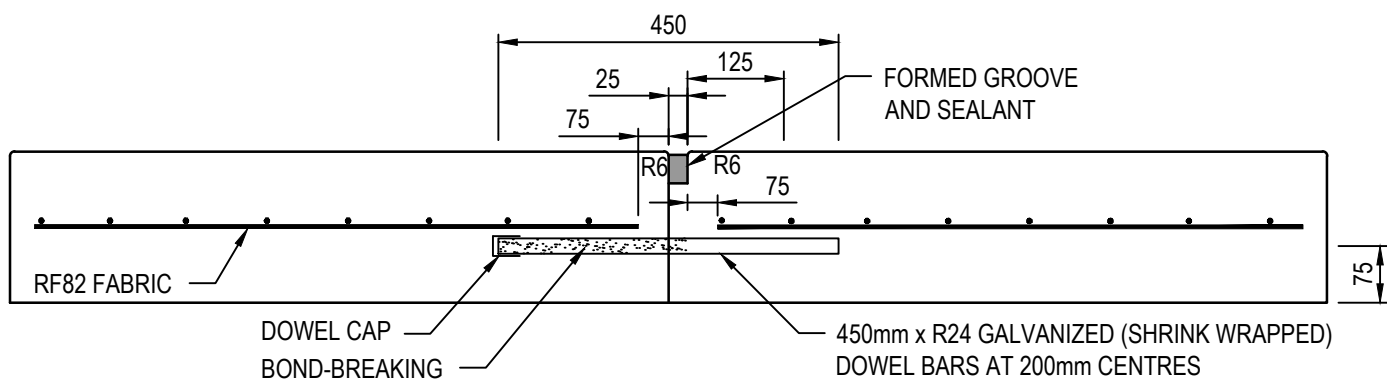
CONCRETE PLACEMENT SEQUENCE



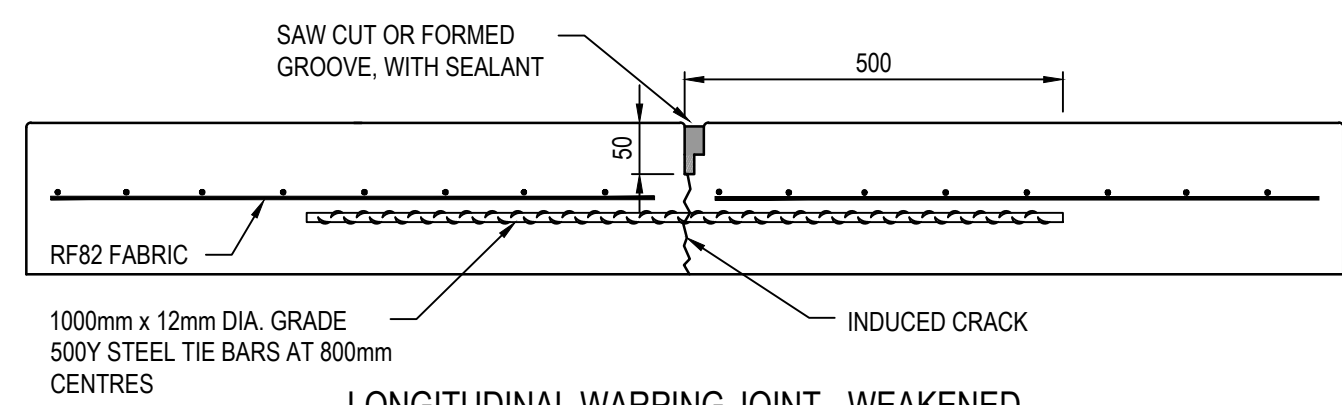
ISOLATION JOINT (IJ)



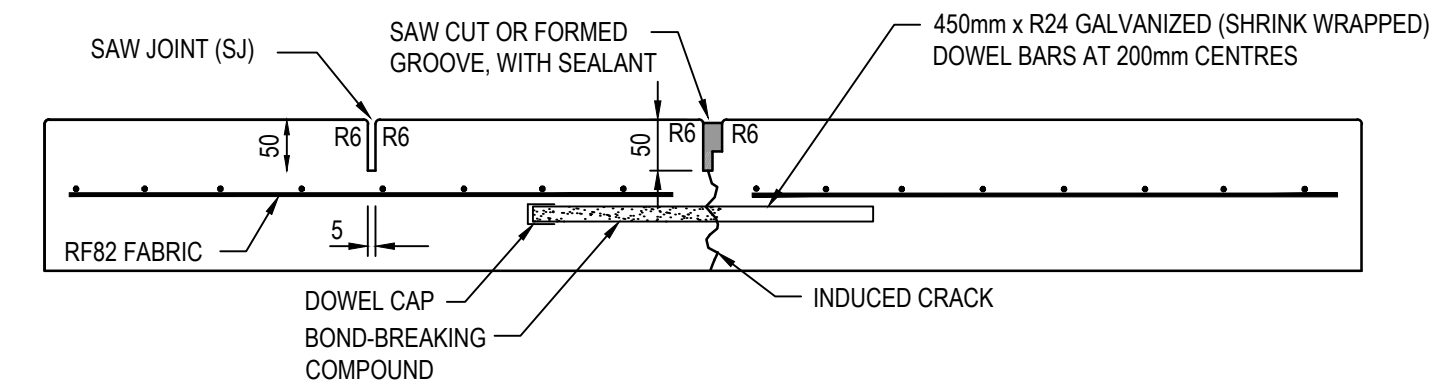
TYPICAL PIT JOINTING



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



LONGITUDINAL WARPING JOINT - WEAKENED PLANE JOINT (WJ)



TRANSVERSE CONTRACTION JOINT SAW JOINT (SJ) AND TRANSVERSE CONTRACTION JOINT (CJ)

CONCRETE JOINTING DETAILS

NOT TO SCALE

CONCRETE NOTES:

1. GENERAL
 - 1.1. ENGINEERING DRAWINGS MUST NOT BE SCALED
 - 1.2. CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORKS
 - 1.3. ANY DISCREPANCIES MUST BE REFERRED TO THE ENGINEER IMMEDIATELY TO ENSURE CORRECT RECTIFICATION BEFORE PROCEEDING WITH THE WORK.
 - 1.4. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH APPROPRIATE SAA CODES , VICTORIAN BUILDING REGULATIONS, AND BUILDING CODE OF AUSTRALIA
 - 1.5. ALL REFERENCES TO SAA CODES, VBR'S AND BCA SHALL INCLUDE ALL AMENDMENTS
 - 1.6. SUBSTITUTION SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER
2. CONCRETE
 - 2.1. ALL CONCRETE SHALL BE IN ACCORDANCE WITH AS3600. CONCRETE COMPRESSION STRENGTH SHALL BE: 32MPA AT 28 DAYS FOR PAVEMENT OR AS NOTED ON DRAWINGS
 - 2.2. WHEELBARROW RUNS IF USED MUST BE SUPPORTED DIRECTLY FROM THE FORMWORK AND NOT FROM THE REINFORCEMENT
 - 2.3. MECHANICALLY VIBRATE CONCRETE DURING THE CONCRETE POUR
 - 2.4. CONCRETE SURFACES MUST BE ADEQUATELY CURED. CONCRETE SHALL BE CURED IN ACCORDANCE WITH AS3600 AND NOT TO BE TRAFFICKED UNTIL AT LEAST SEVEN DAYS AFTER POURING.
 - 2.5. CONCRETE SIZES AS DRAWN ARE MINIMUM AND DO NOT INCLUDE APPLIED FINISHES
 - 2.6. UNSPECIFIED CONSTRUCTION JOINTS MUST NOT BE MADE WITHOUT THE ENGINEERS PRIOR WRITTEN APPROVAL
3. REINFORCEMENT
 - 3.1. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION. CLEAR COVER NOTED ON DRAWING(S) IS IN ACCORDANCE WITH AS3600 AND SHOULD NOT BE VARIED
 - 3.2. LAPS IN REINFORCEMENT SHOULD COMPLY WITH AS3600
 - 3.3. FIELD WELDING OF REINFORCEMENT IS ONLY PERMITTED WITH THE ENGINEER'S WRITTEN APPROVAL.
 - 3.4. ALL REINFORCEMENT IS TO BE ACCURATELY PLACED, TIED AND SUPPORTED IN POSITION BY BAR CHAIRS AT 750MM CENTRES WHERE APPROPRIATE AND ADEQUATELY IN OTHER MEMBERS
4. FORMWORK
 - 4.1. ALL FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS1509
 - 4.2. RETAIN ALL FORMWORK IN POSITION FOR AT LEAST SEVEN DAYS

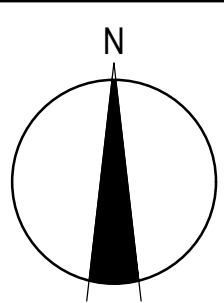
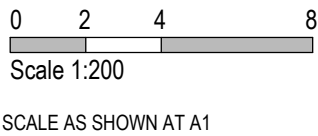
AS CONSTRUCTED PLANS

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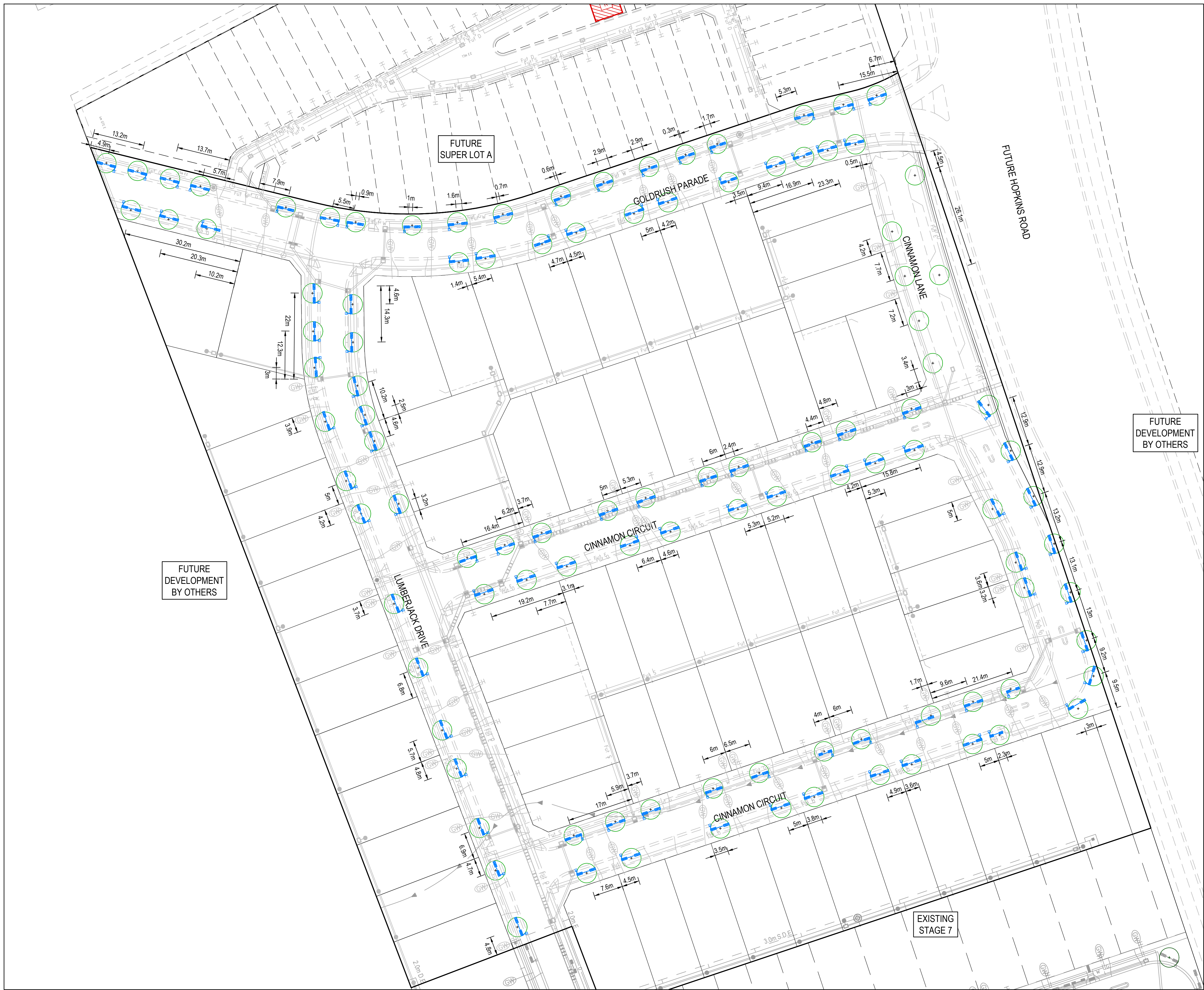
ISSUED FOR CONSTRUCTION

PLAN OF SUB. NO.
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PERMIT REF. NO.
PA2018/6004/1

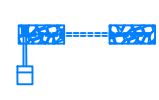


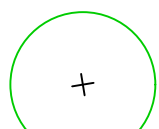
Botania - Stage 8
Melton City Council
Road and Drainage
Pavement Details

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
355 G5	3070E-008-412	23 of 27	1



LEGEND

 KERB INLET DIVERSION PASSIVE STREET TREE IRRIGATION (750mm REDUCED TREE OFFSET) - REFER TO SHEET 413 FOR DETAILS

 TREE LOCATION - REFER TO LANDSCAPING PLANS FOR DETAIL

NOTE:
TRENCH OFFSET TO BACK OF KERB REDUCED TO 0.75m FOR KERB INLET TYPES DUE TO RESTRICTED SITE. (AS APPROVED BY COUNCIL).
PASSIVE IRRIGATION TO BE INSTALLED BY LANDSCAPE CONTRACTOR.
PRINCIPAL CONTRACTOR TO INSTALL KERB INLET COMPONENT ONLY.

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DIAL 1100 BEFORE YOU DIG
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AS CONSTRUCTED PLANS

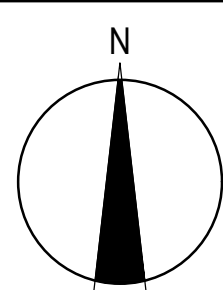
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PLAN OF SUB. NO.
PS847502B
PERMIT REF. NO.
PA2018/6004/1

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1



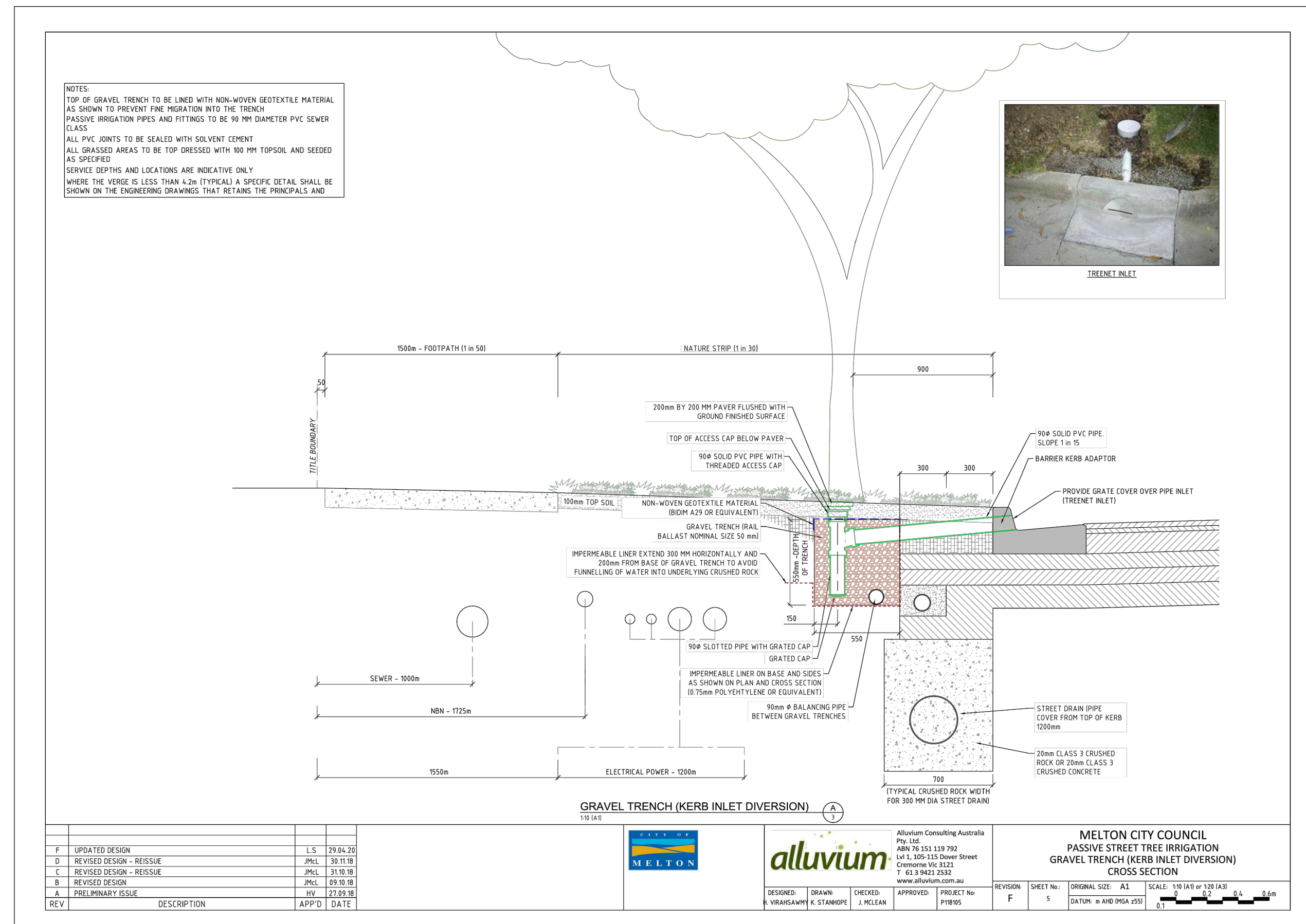
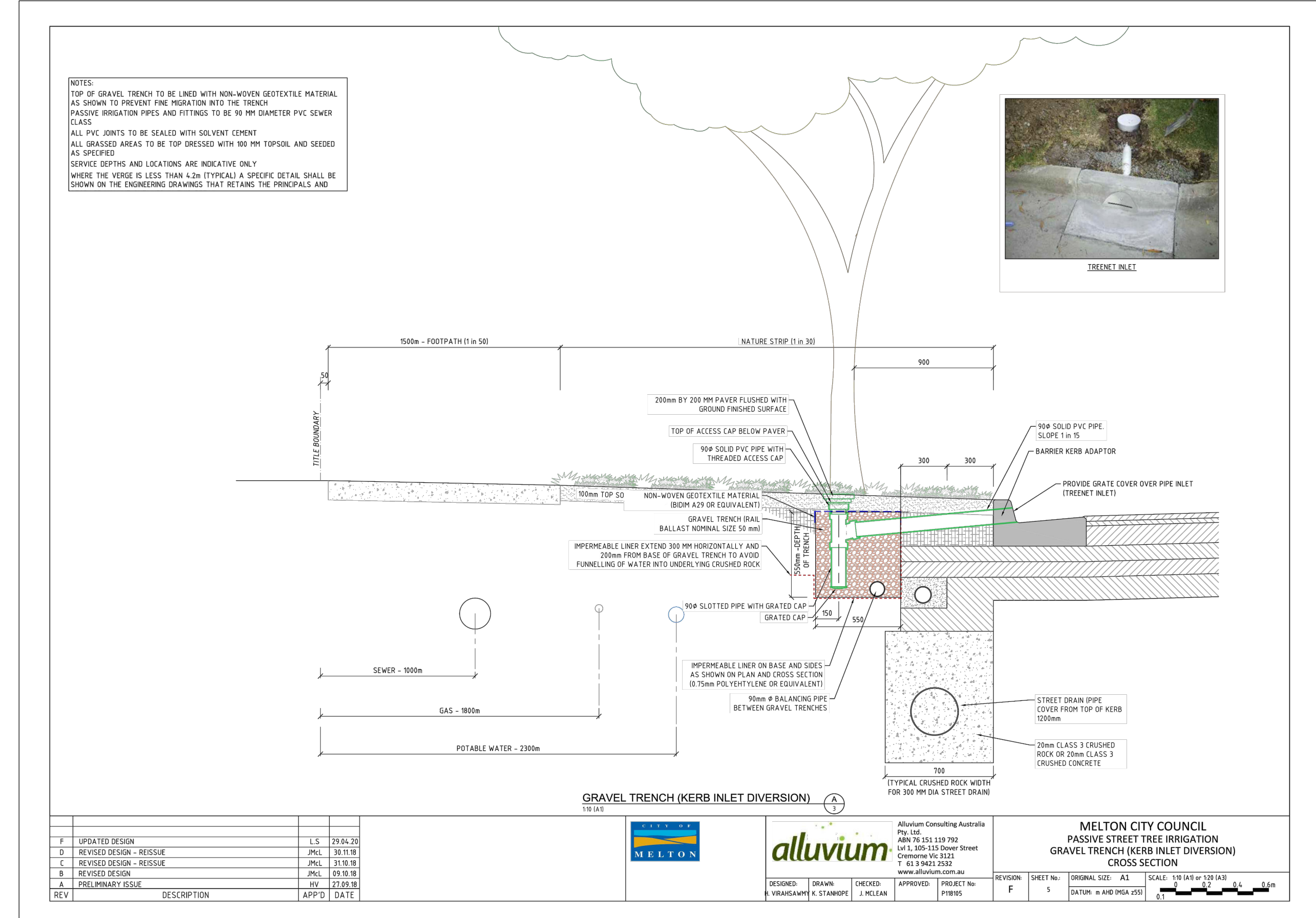
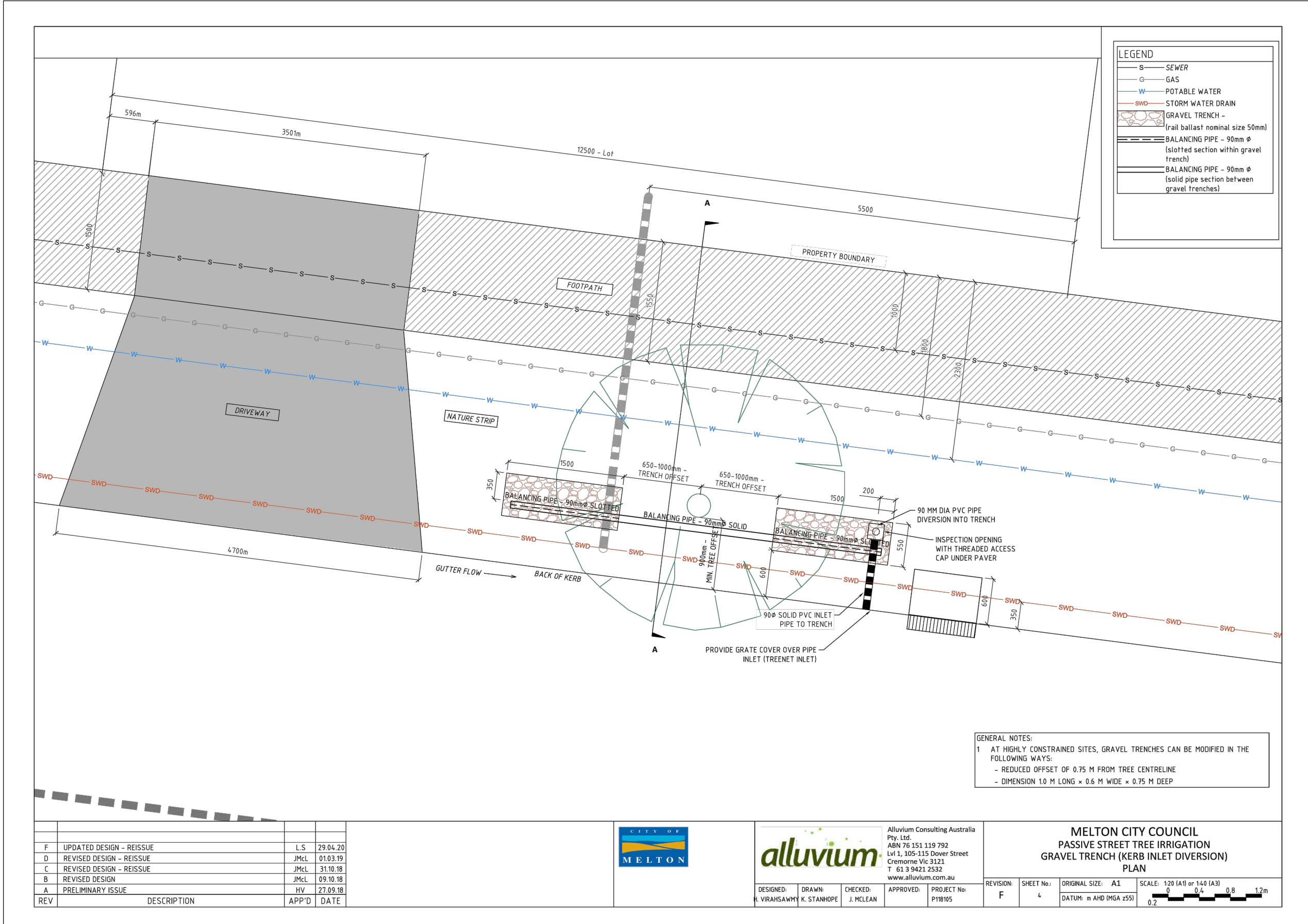
SMEC
Member of the Surbana Jurong Group
ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

GROWLAND

Botania - Stage 8
Melton City Council
Road and Drainage
Passive Irrigation System Plan

MELWAYS REF: 355 G5
PROJECT / DRAWING No: 3070E-008-413

SHEET No: 24 of 27
REVISION: 3



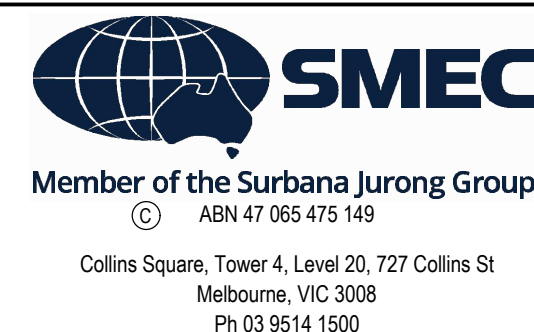
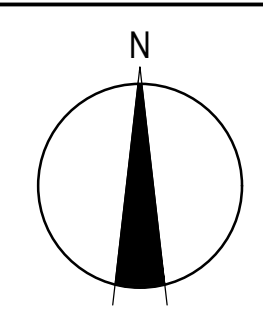
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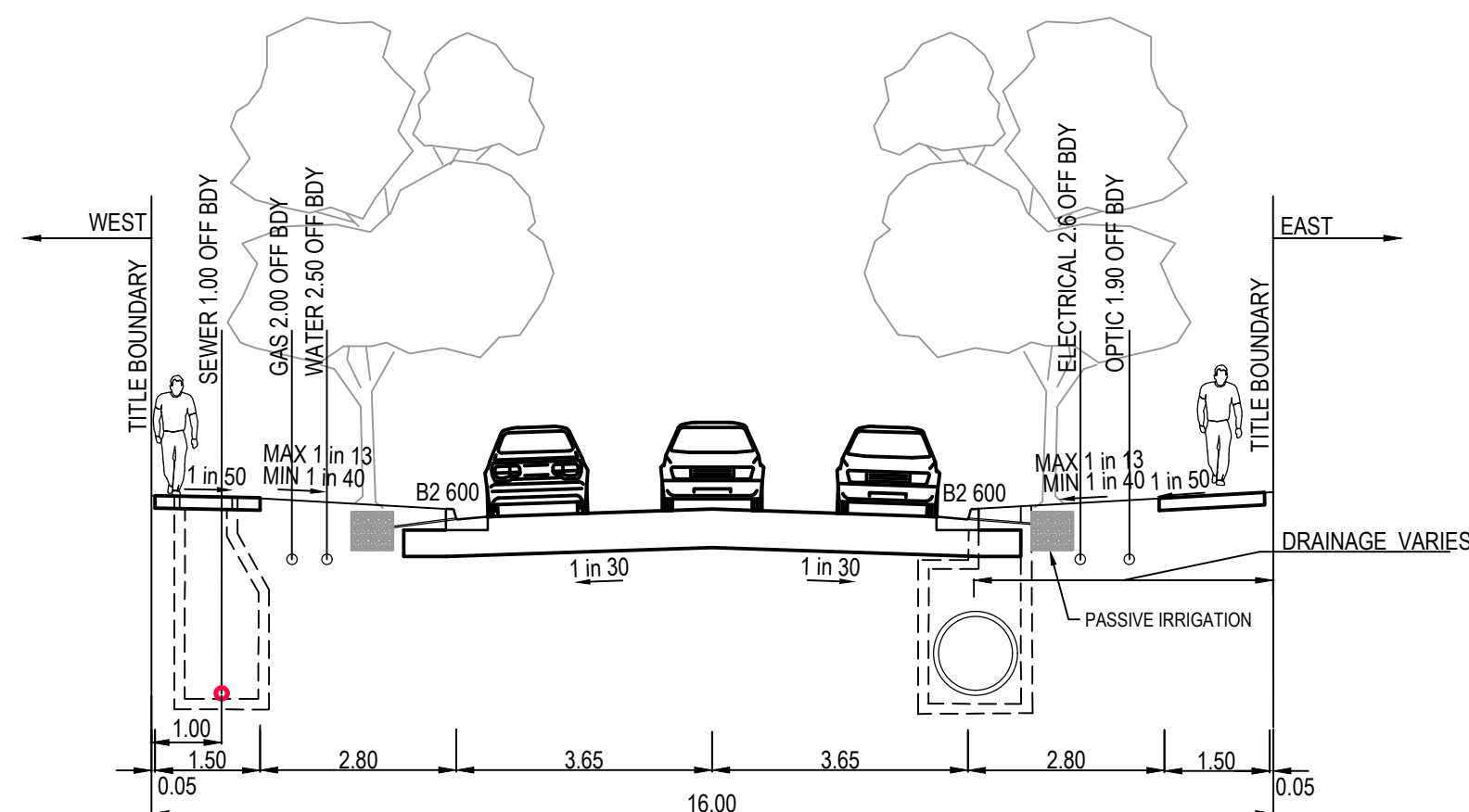
ISSUED FOR CONSTRUCTION

SCALE AS SHOWN AT A1



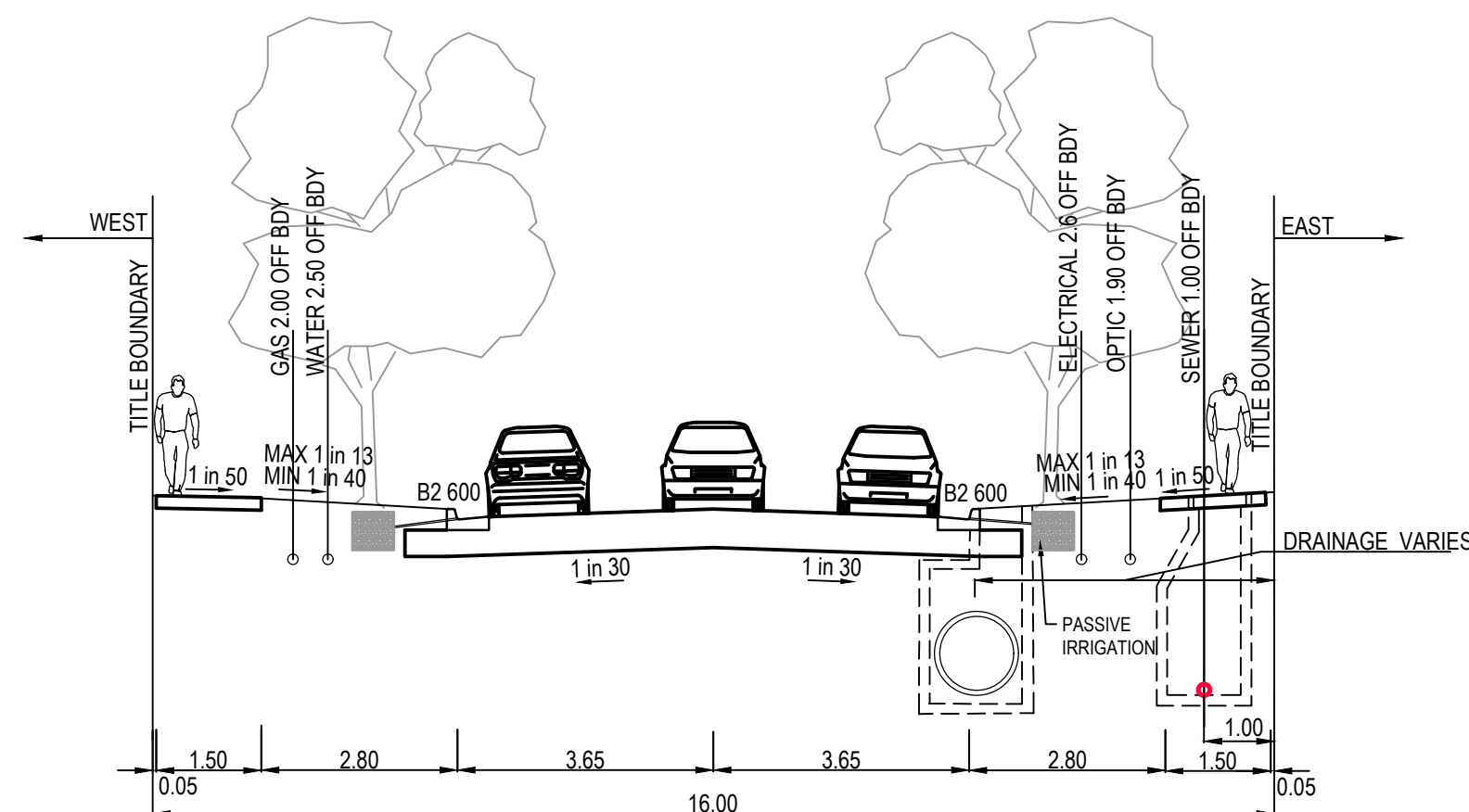
Botania - Stage 8
Melton City Council
Road and Drainage
Passive Irrigation Detail

MELWAYS REF 355 G5	PROJECT / DRAWING No. 3070E-008-414	SHEET No. 25 of 27	REVISION 1
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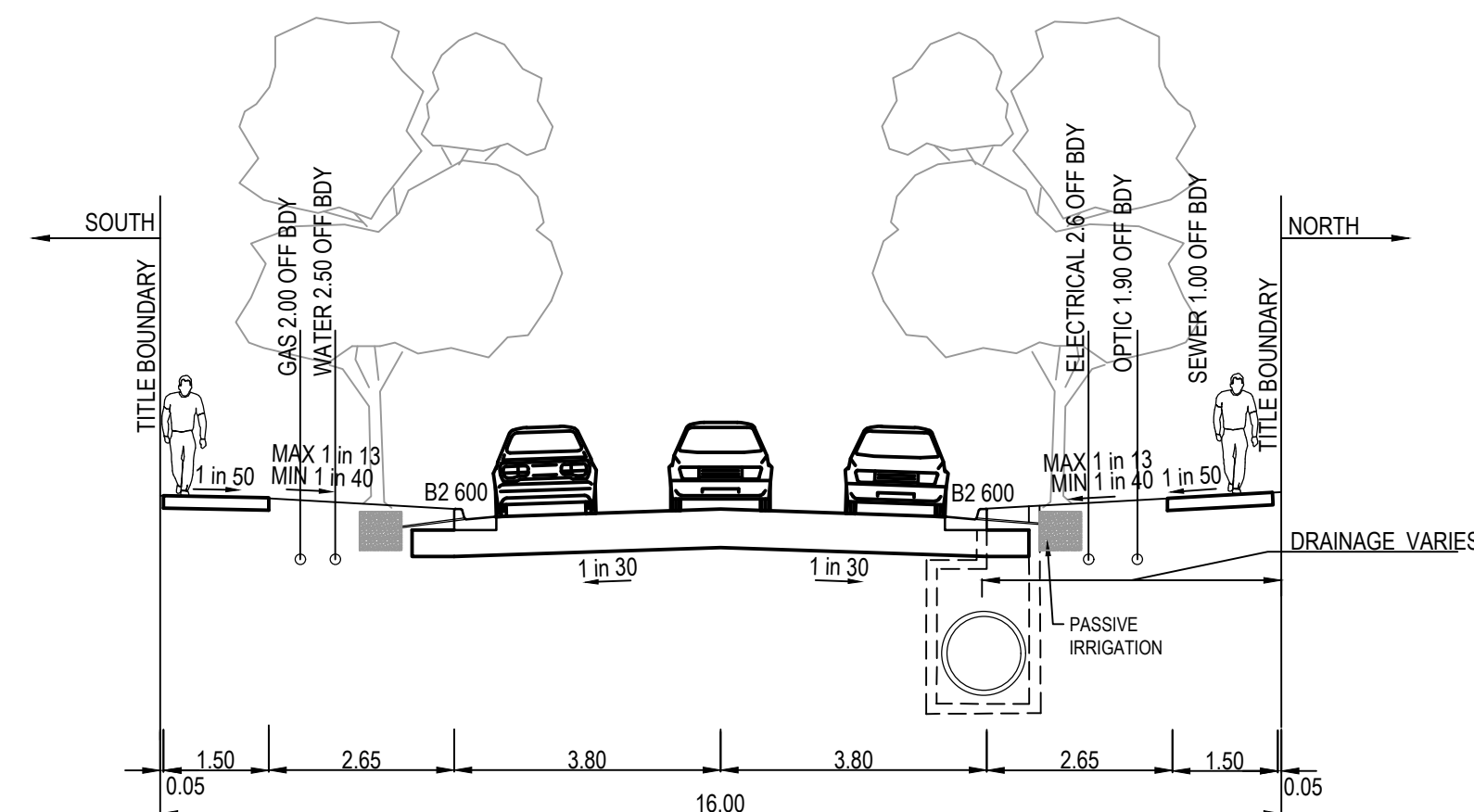
TYPICAL 16m ROAD RESERVE CROSS-SECTION
ACCESS STREET
TYPICAL SECTION - LUMBERJACK DRIVE

NOTE: SEWER SHOULD BE LOCATED ON ONE SIDE ONLY.
REFER TO DETAIL PLANS FOR ACTUAL LOCATION



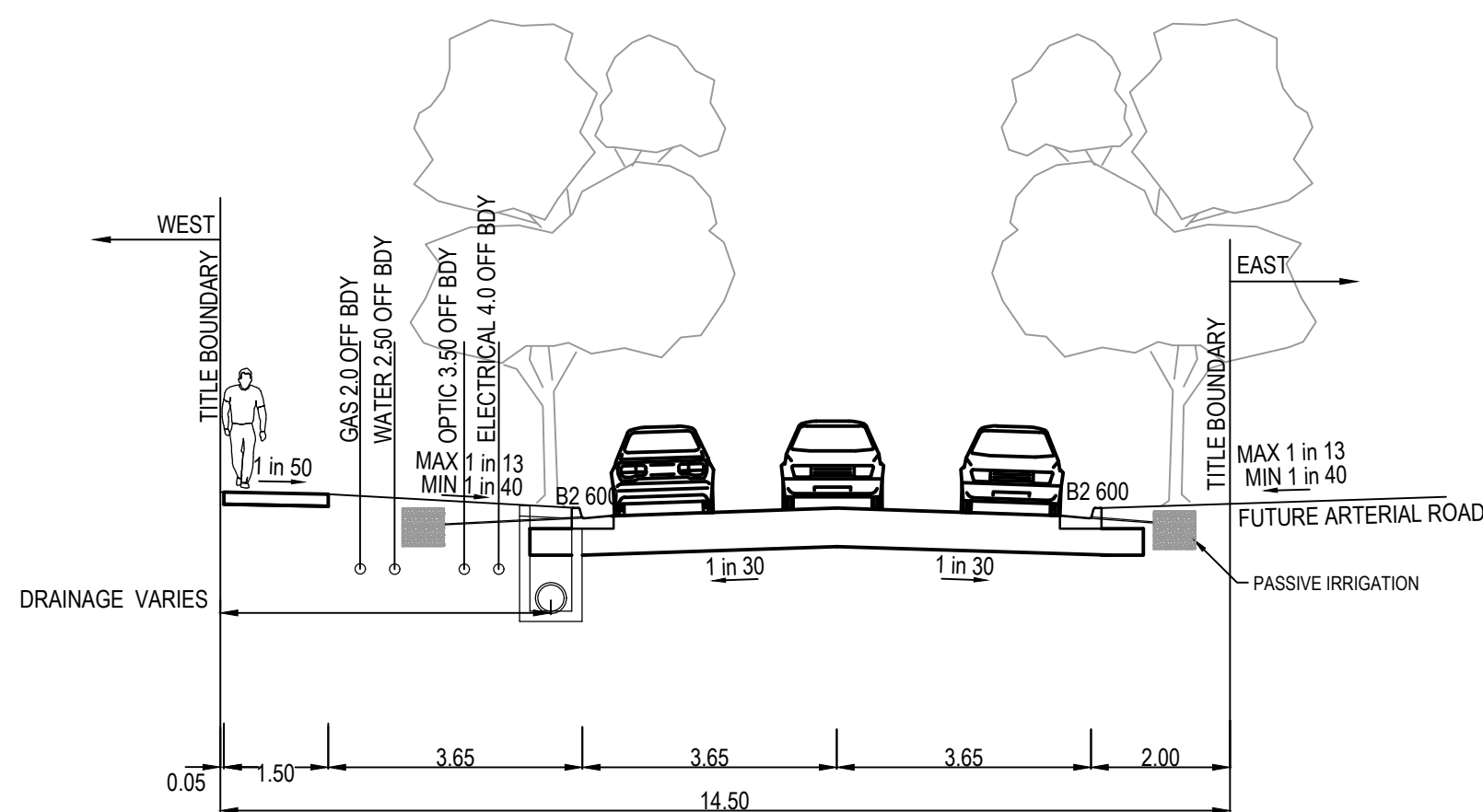
TYPICAL 16m ROAD RESERVE CROSS-SECTION
ACCESS STREET
TYPICAL SECTION - GOLDRUSH PARADE,
CINNAMON CIRCUIT (LOTS 817-822; 828-833; 859-860)

NOTE: SEWER SHOULD BE LOCATED ON ONE SIDE ONLY.
REFER TO DETAIL PLANS FOR ACTUAL LOCATION



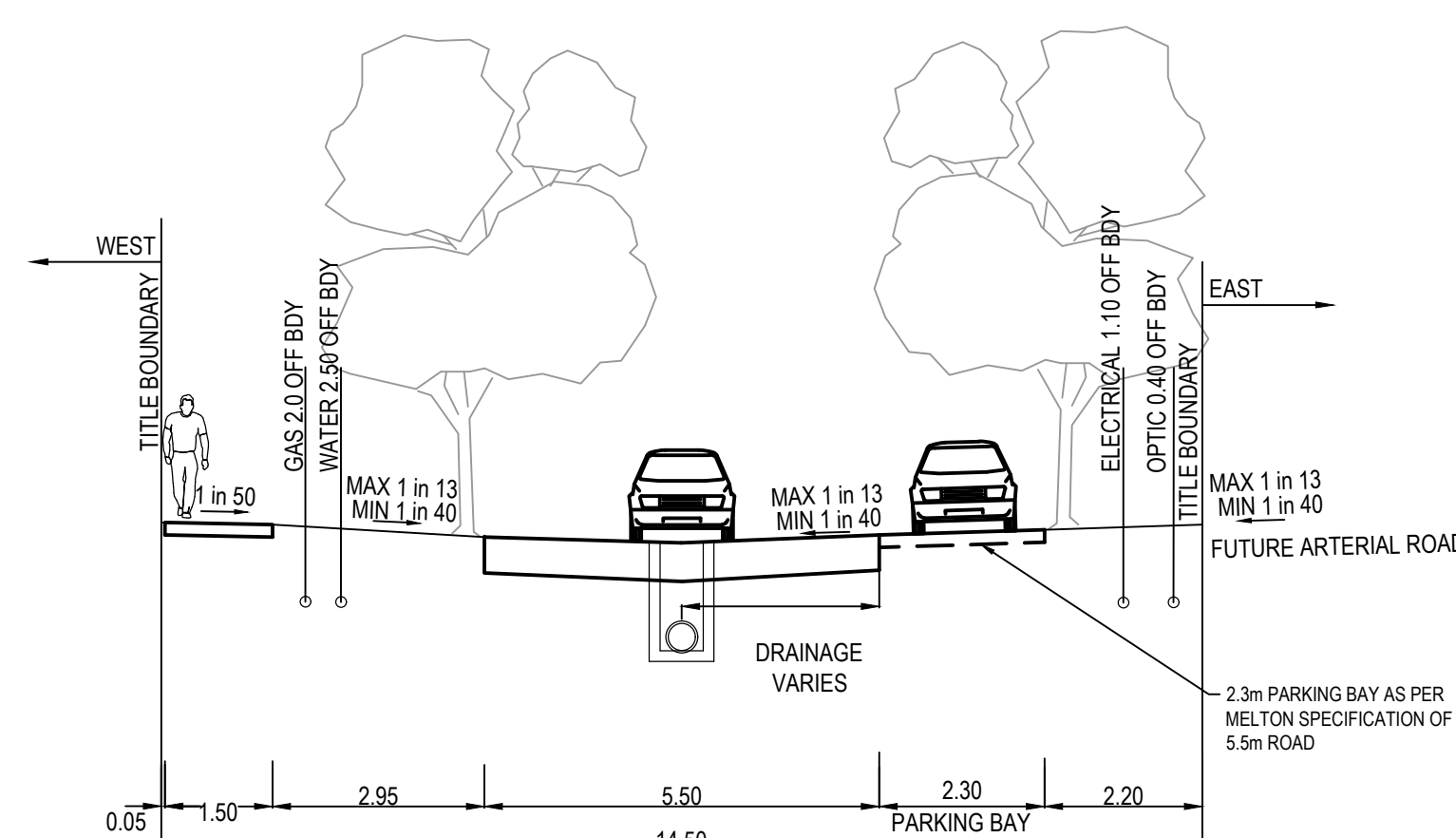
TYPICAL 16m ROAD RESERVE CROSS-SECTION
ACCESS STREET
TYPICAL SECTION - GOLDRUSH PARADE (LOTS 856)

NOTE: SEWER SHOULD BE LOCATED ON ONE SIDE ONLY.
REFER TO DETAIL PLANS FOR ACTUAL LOCATION



TYPICAL 14.5m ROAD RESERVE CROSS-SECTION
ACCESS STREET
TYPICAL SECTION- CINNAMON CIRCUIT LOTS 823-827

NOTE: SEWER SHOULD BE LOCATED ON ONE SIDE ONLY.
REFER TO DETAIL PLANS FOR ACTUAL LOCATION



TYPICAL 14.5m ROAD RESERVE CROSS-SECTION
ACCESS LANE
TYPICAL SECTION- CINNAMON LANE LOTS 856-858

NOTE: SEWER SHOULD BE LOCATED ON ONE SIDE ONLY.
REFER TO DETAIL PLANS FOR ACTUAL LOCATION

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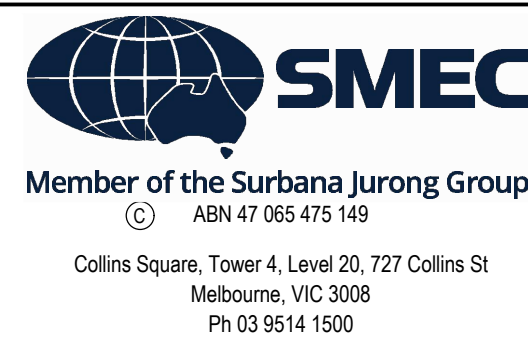
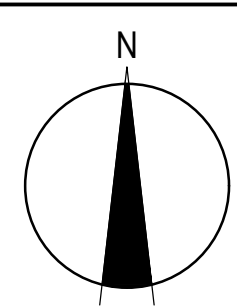
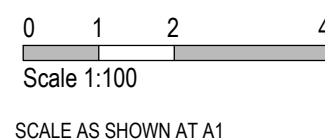
Oil Management AS/NZS 8081
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PLAN OF SUB. NO.
PS847502B

PERMIT REF. NO.
PA2018/6004/1

ISSUED FOR CONSTRUCTION



Botania - Stage 8
Melton City Council
Road and Drainage
General Details

MELWAYS REF 355 G5	PROJECT / DRAWING No. 3070E-008-421	SHEET No. 26 of 27	REVISION 1
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PHASE	DISCIPLINE CODE		POTENTIAL RISK (Construction, Operations, Maintenance)		RISK OWNER	POTENTIAL CONSEQUENCES	POTENTIAL ELIMINATION MEASURE, DESIGN INITIATIVE or CONTROL (Identify any Standard or Code of practice used)	HOW ISSUE ADDRESSED IN DESIGN AND/OR CONSTRUCTION OF THE WORKS	IS THE RISK ELIMINATED? YES / NO	RESIDUAL RISK LIKELIHOOD (0-5)	RESIDUAL RISK CONSEQUENCE (0-5)	RESIDUAL RISK RATING	RESIDUAL RISK OWNER
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 practice.	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

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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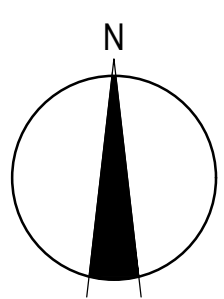
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PLAN OF SUB. NO.
PS847502B

PERMIT REF. NO.
PA2018/6004/1

ISSUED FOR CONSTRUCTION

SCALE AS SHOWN AT A1





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Botania - Stage 8
Melton City Council
Road and Drainage
Safety In Design

MELWAYS REF 355 G5	PROJECT / DRAWING No. 3070E-008-500	SHEET No. 27 of 27	REVISION 1
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