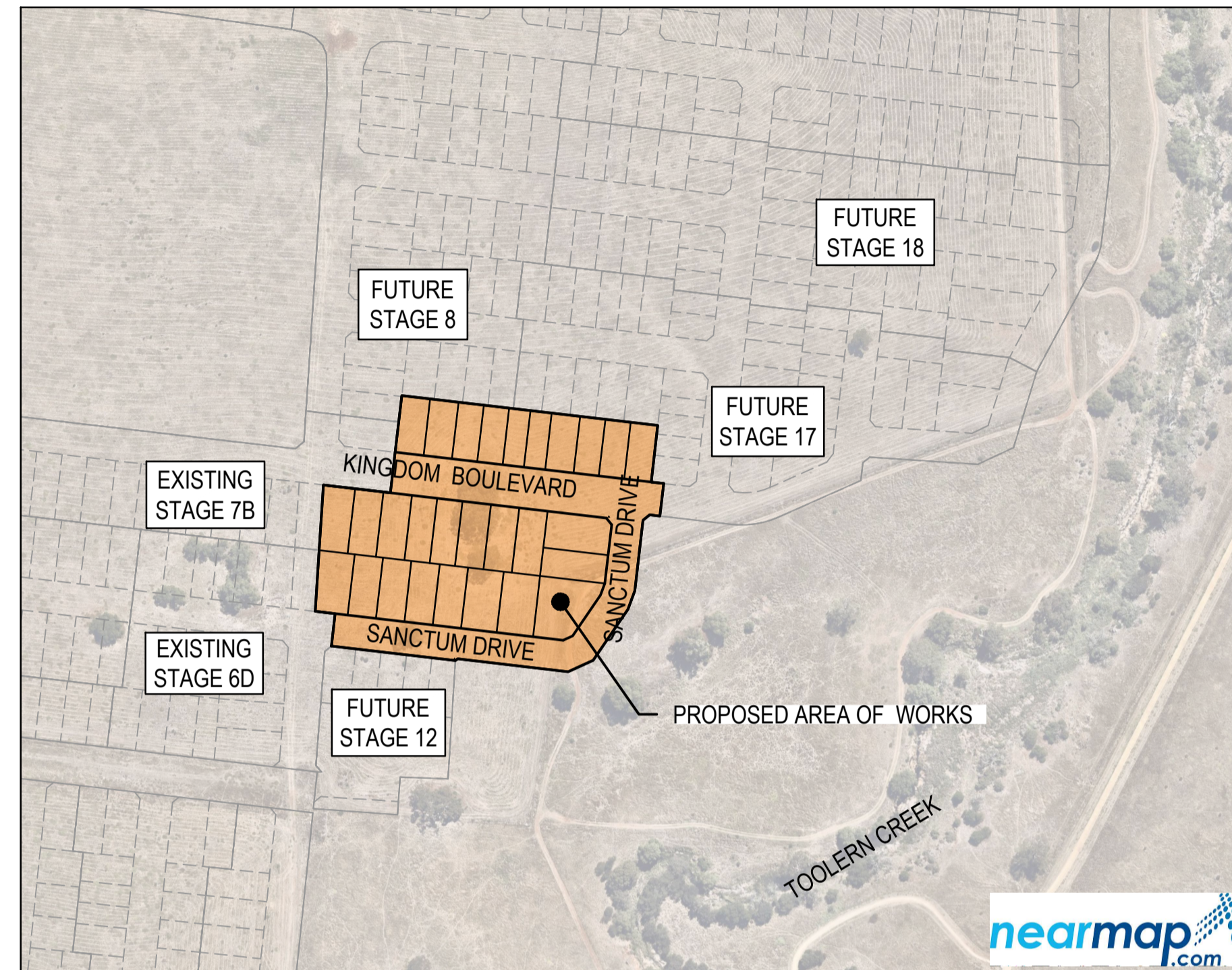


Seventh Bend Estate, Melton

Stage 16



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GENERAL NOTES (MELTON SHIRE 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 EDMC 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 EDMC 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 THAN 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 SL72 MESH, AS PER EDMC 401 ON 50mm COMPACTED DEPTH 20mm CLASS 3 FOR BASE.
- ALL RESIDENTIAL DRIVEWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH EDMC 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 (BRPM) 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 EDMC 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.E6.2250E-016-500
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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TBM SETOUT TABLE				
POINT	EAST	NORTHING	ELEVATION	DESCRIPTION
C89RVTKT	286.508.46	5,821,982.16	104.87	RIVET IN CONCRETE
C42SSPL	286.568.70	5,821,951.36	101.27	STEEL STAR PICKET

AS CONSTRUCTED PLANS

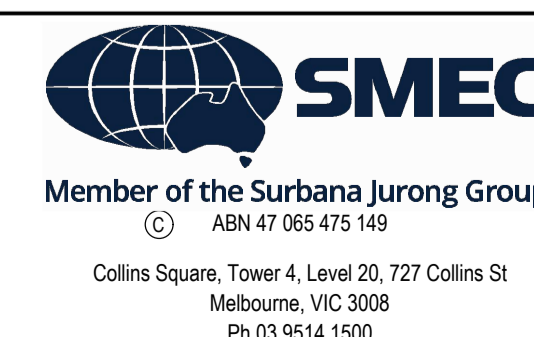
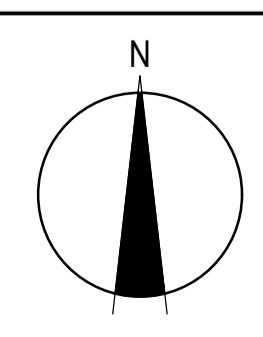
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PS841628K
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PA2018/6160

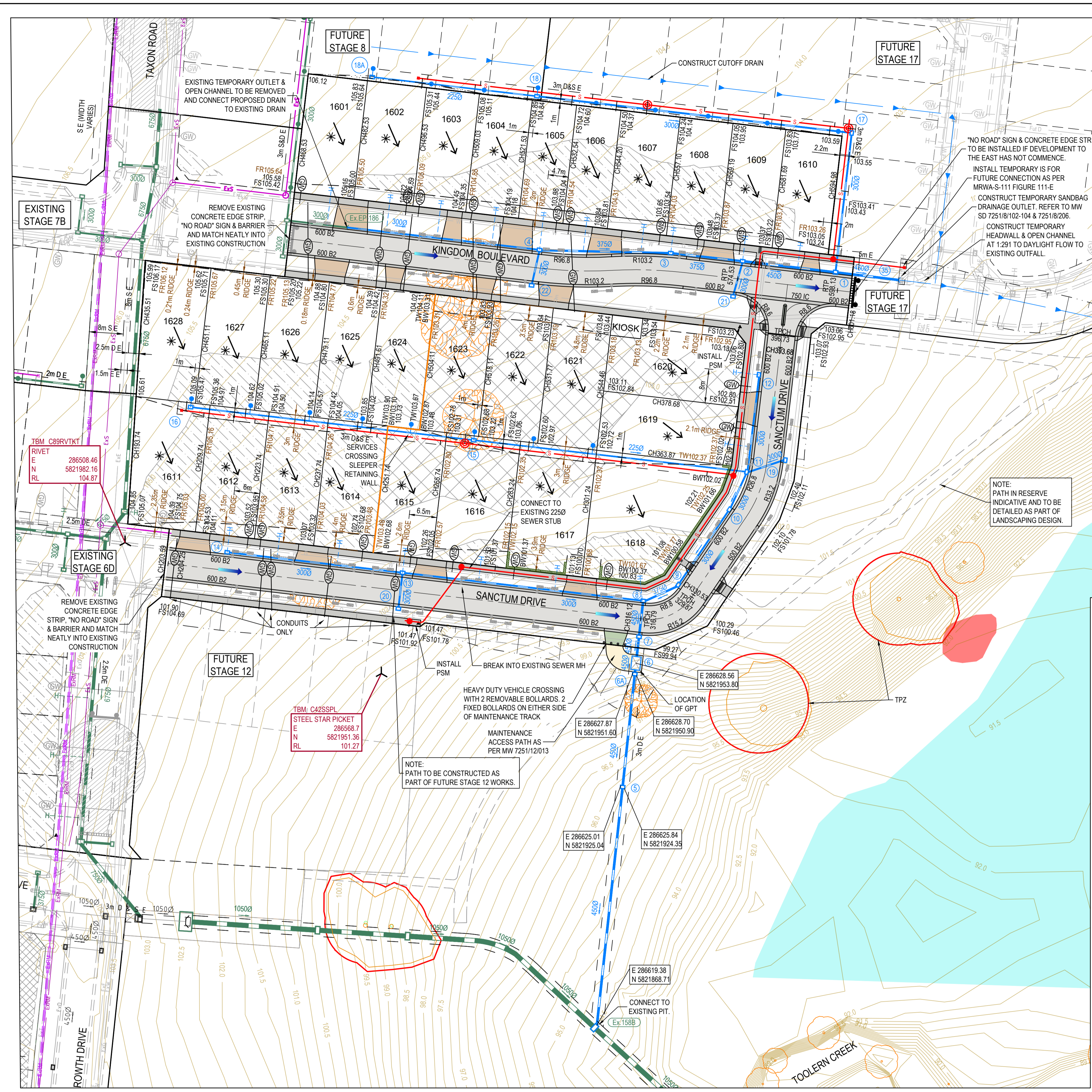
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SEVENTH BEND

Seventh Bend - Stage 16
Melton City Council
Road and Drainage
Cover Plan & General Notes

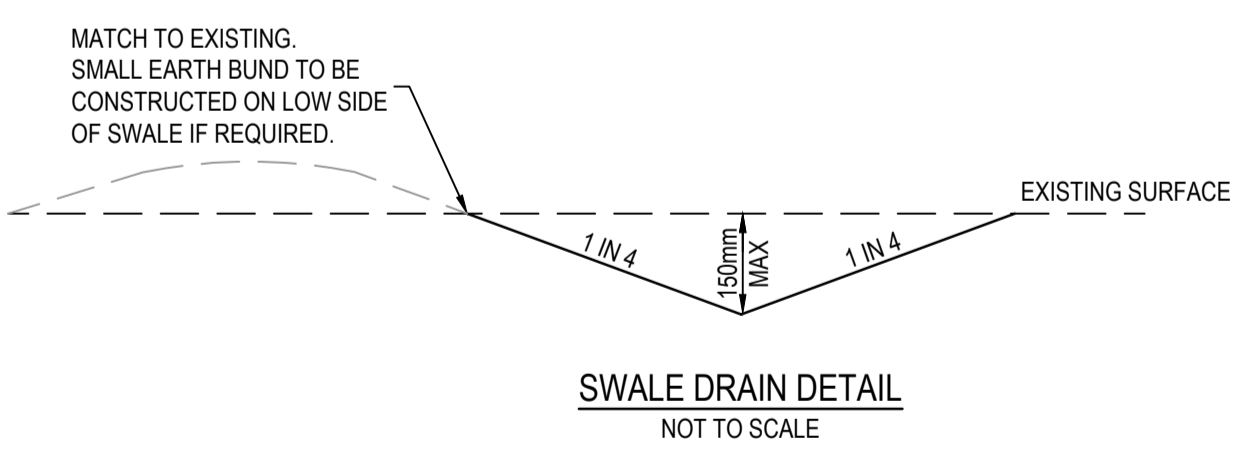
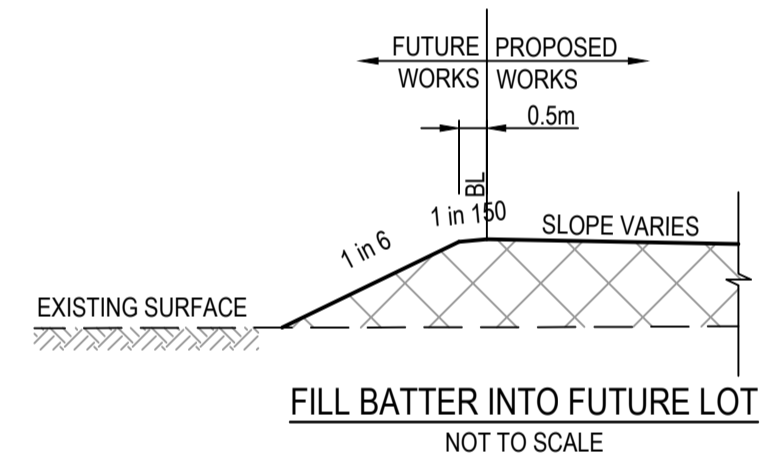
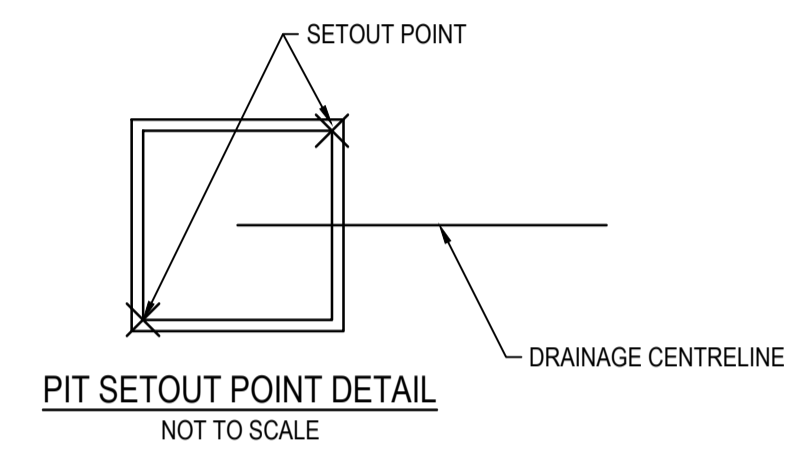
MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-016-101	SHEET No. 01 of 19	REVISION 0
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ROAD NAME	ROAD CLASSIFICATION	RESERVE WIDTH (m)	ROAD WIDTH (m)			KERB TYPE		VERGE WIDTH (m)	
			LIP TO LIP	INV TO INV	BACK TO BACK	NTHWEST	STHEAST	NTHWEST	STHEAST
KINGDOM BOULEVARD (LOTS 1601-1605 & 1622-1628)	AS1	20.00	6.40	7.30	7.60	600 B2	600 B2	7.25	5.15
KINGDOM BOULEVARD (LOT 1609-1610)	AS1	20.00	6.40	7.30	7.60	600 B2	600 B2	4.35	8.05
SANCTUM DRIVE (LOTS 1611-1615)	AS1	16.00	6.40	7.30	7.60	600 B2	600 B2	4.35	4.05
SANCTUM DRIVE (LOTS 1616-1620)	AS1	15.00	6.40	7.30	7.60	600 B2	600 B2	4.35	3.05

ROAD NAME	SERVICES OFFSET TABLE			
	GAS OFFSET (m)	WATER OFFSET (m)	ELECTRICITY OFFSET (m)	OPTIC FIBRE OFFSET (m)
KINGDOM BOULEVARD (LOTS 1601-1608 & 1622-1628)	1.9 N	2.4 N	2.6 S	1.85 S
KINGDOM BOULEVARD (LOT 1609-1610)	1.9 N	2.4 N	1.9 S	1.0 S
SANCTUM DRIVE (LOTS 1611-1615)	1.9 N	2.4 N	2.45 S	1.85 S
SANCTUM DRIVE (LOTS 1616-1620)	1.9 NW	2.4 NW	1.45 S/E	0.7 S/E

- 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
 - EXISTING SURFACE LEVEL
 - FINISHED BUILDING LINE LEVEL
 - FINISHED RIDGE LINE LEVEL
 - CHAINAGE
 - TOP OF RETAINING WALL LEVEL
 - BOTTOM OF RETAINING WALL LEVEL
 - ROCK RETAINING WALL
 - SLEEPER 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
 - EXISTING CONTOURS
 - EXISTING CULTURE HERITAGE
 - EXISTING STOCKPILE
 - EXISTING TREE TO BE RETAINED
 - PROPOSED PASSIVE STREET TREE IRRIGATION



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AS CONSTRUCTED PLANS
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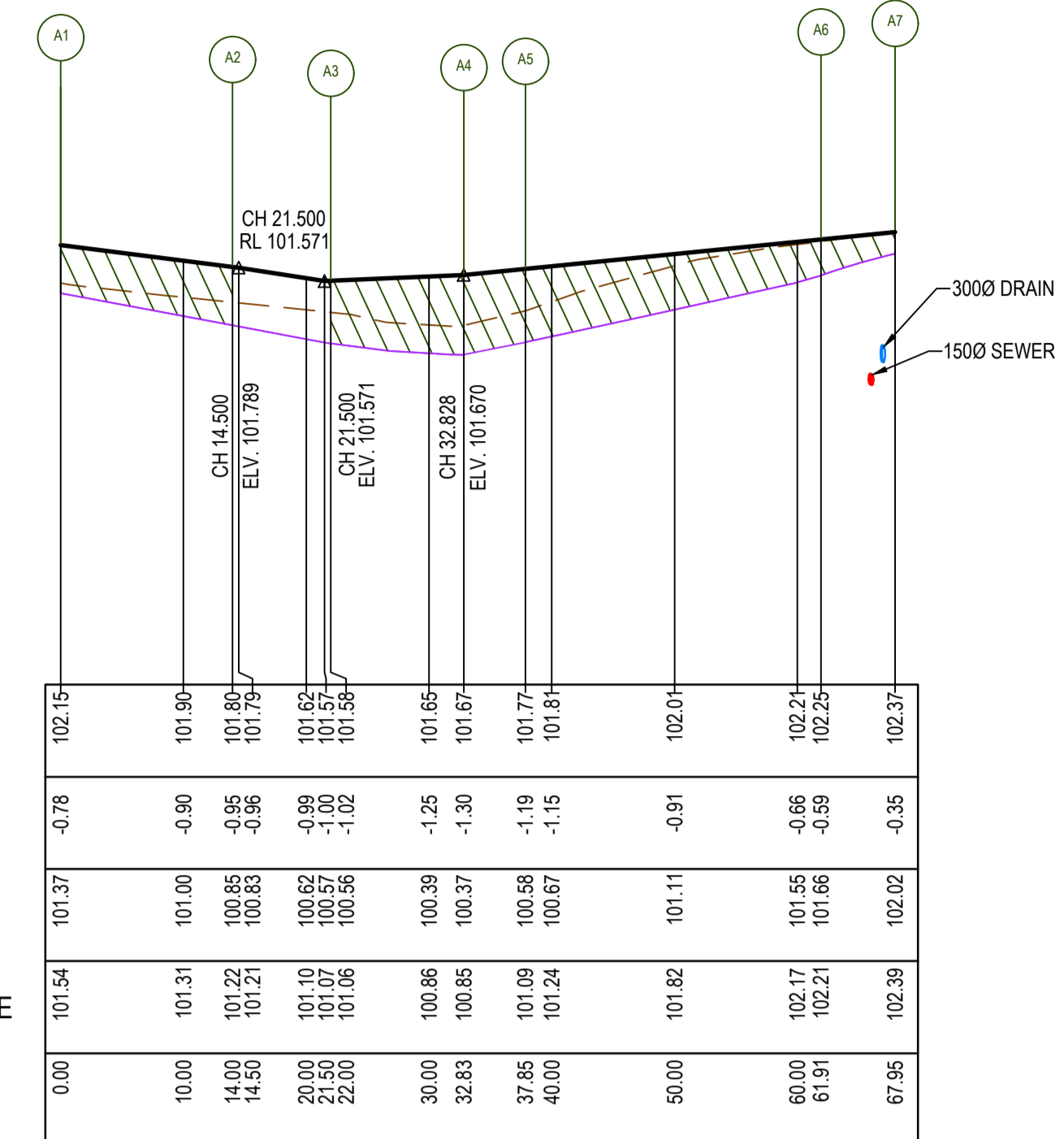
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SCALE AS SHOWN AT 1

Member of the **SMEC** Surbana Jurong Group
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

SEVENTH BEND

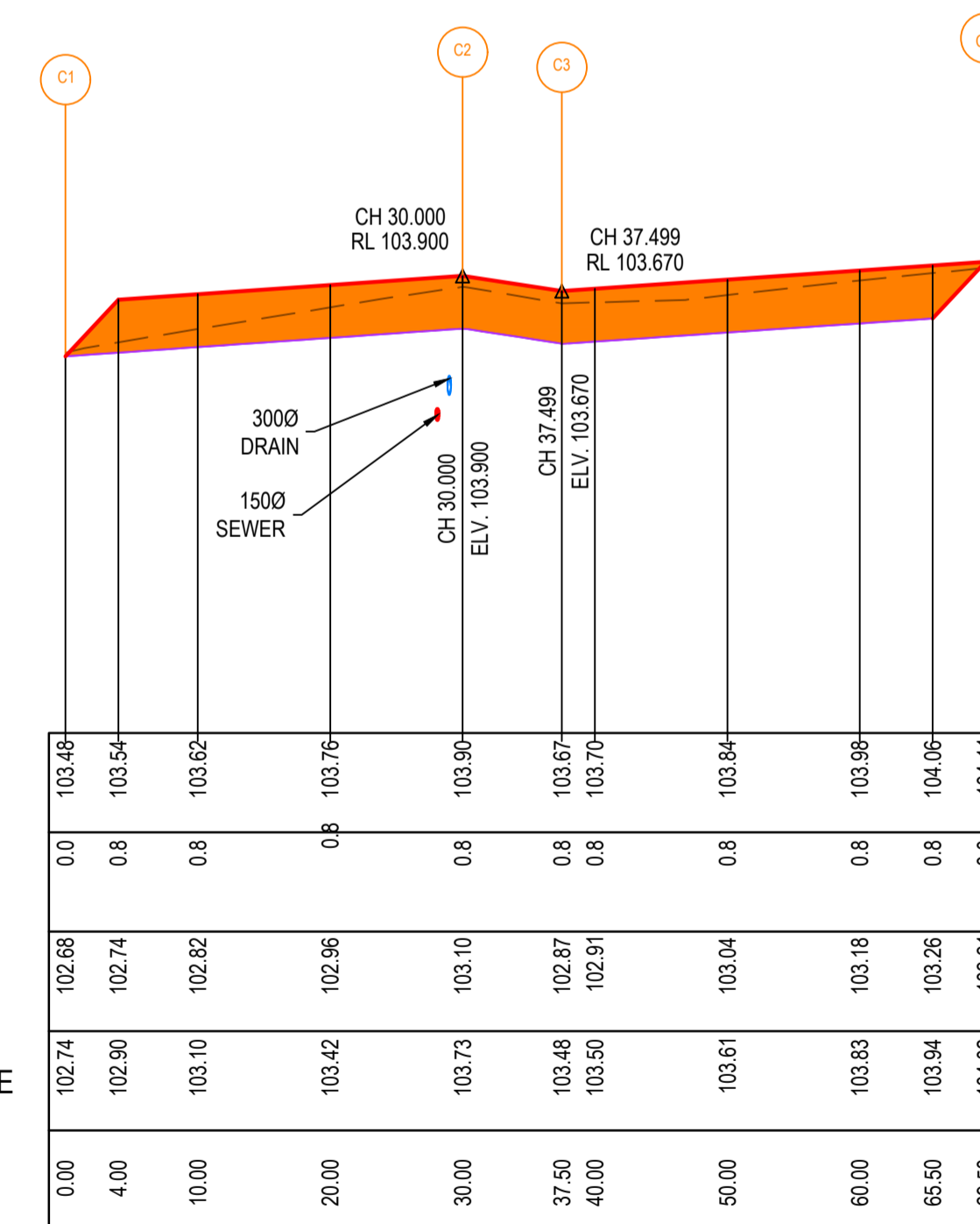
Seventh Bend - Stage 16
Melton City Council
Road and Drainage
Layout Plan

MELWAYS REF 342 K7
PROJECT / DRAWING No. 2250E-016-111
SHEET No. 02 of 19
REVISION 0



RETAINING WALL A - LONGITUDINAL SECTION

HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1



RETAINING WALL C - LONGITUDINAL SECTION

HORIZONTAL SCALE 1:500 @ A1
VERTICAL SCALE 1:100 @ A1

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
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- FUTURE RECYCLED WATER
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- EXISTING CULTURE HERITAGE
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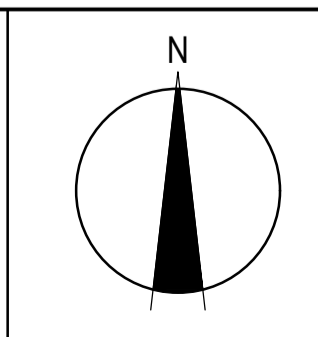
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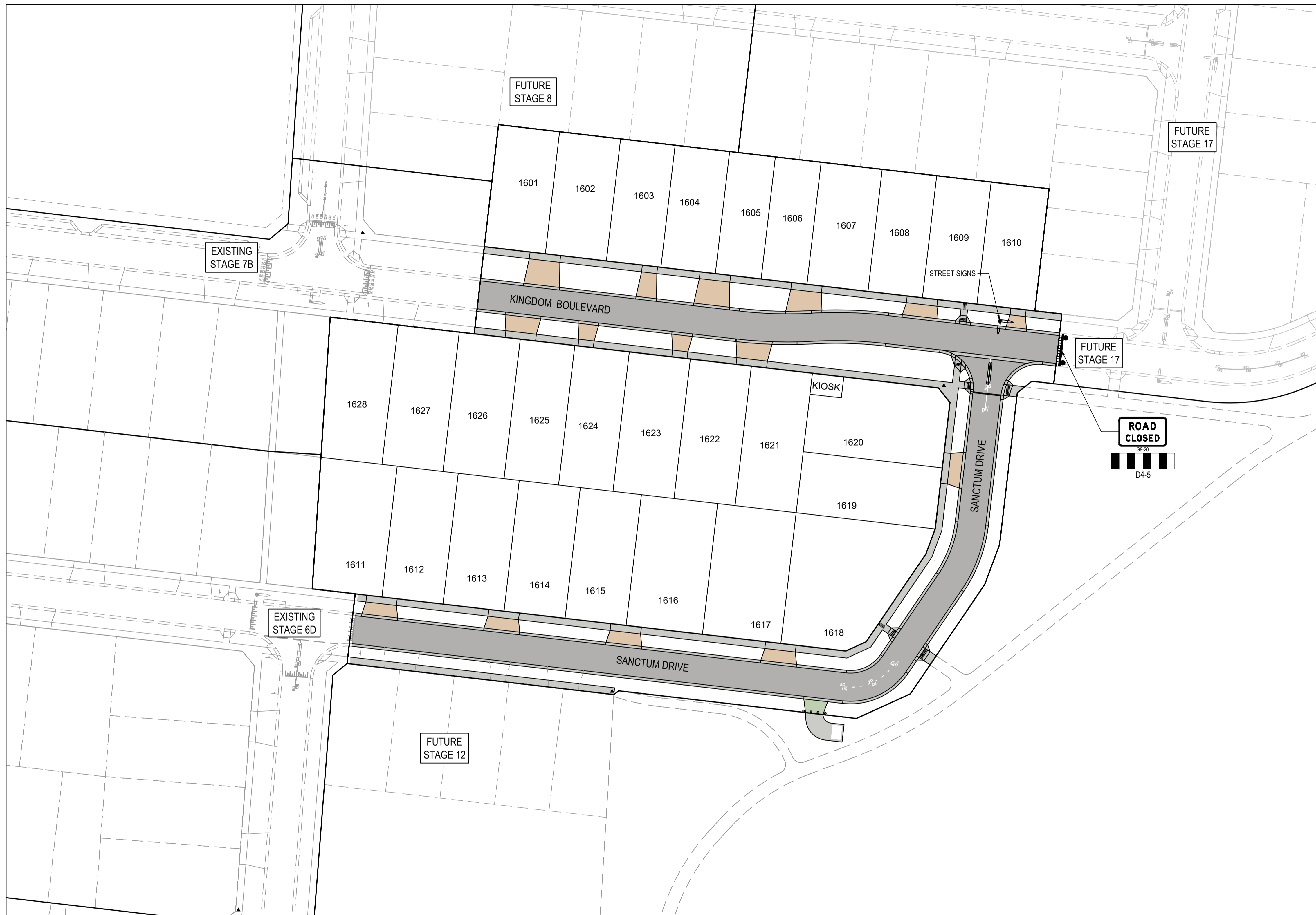


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Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

SEVENTH BEND

Seventh Bend - Stage 16
Melton City Council
Road and Drainage
Earthworks & Retaining Wall Setout Plan

MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-016-131	SHEET No. 03 of 19	REVISION 0
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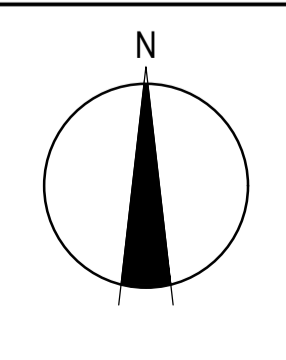
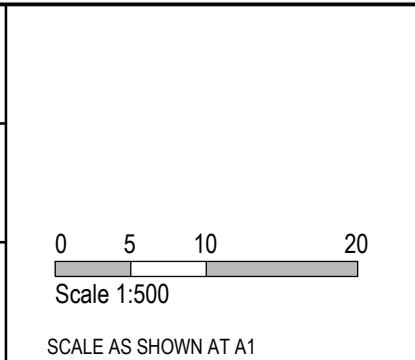


- NOTES**
- 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPMS AT MAX 6m SPACING.
 - RRPMS TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOL 2.
 - ALL LINEMARKING & SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.

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

AS CONSTRUCTED PLANS
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PLAN OF SUB. NO. PS841628K
 PERMIT REF. NO. PA2018/6160
ISSUED FOR CONSTRUCTION

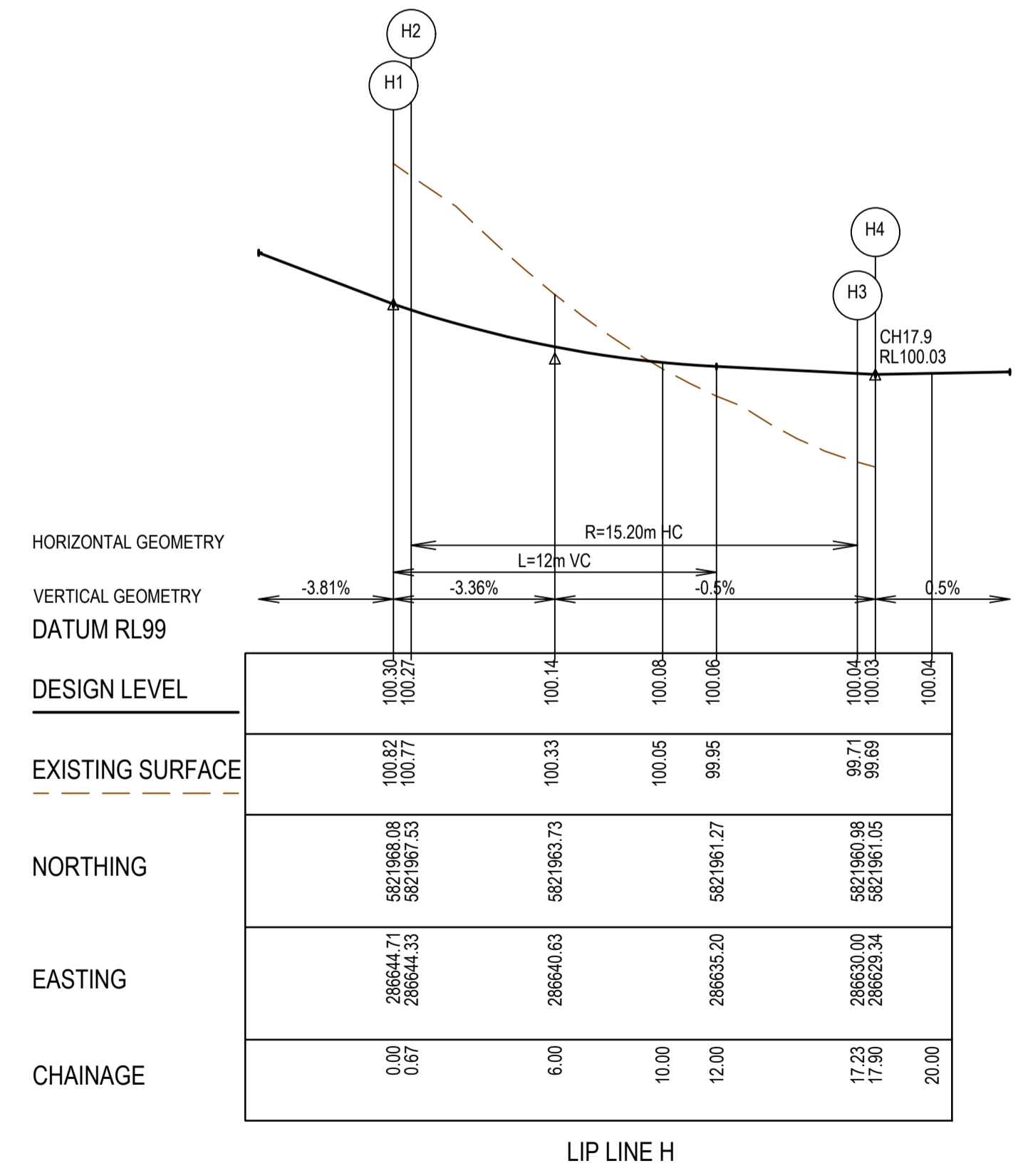
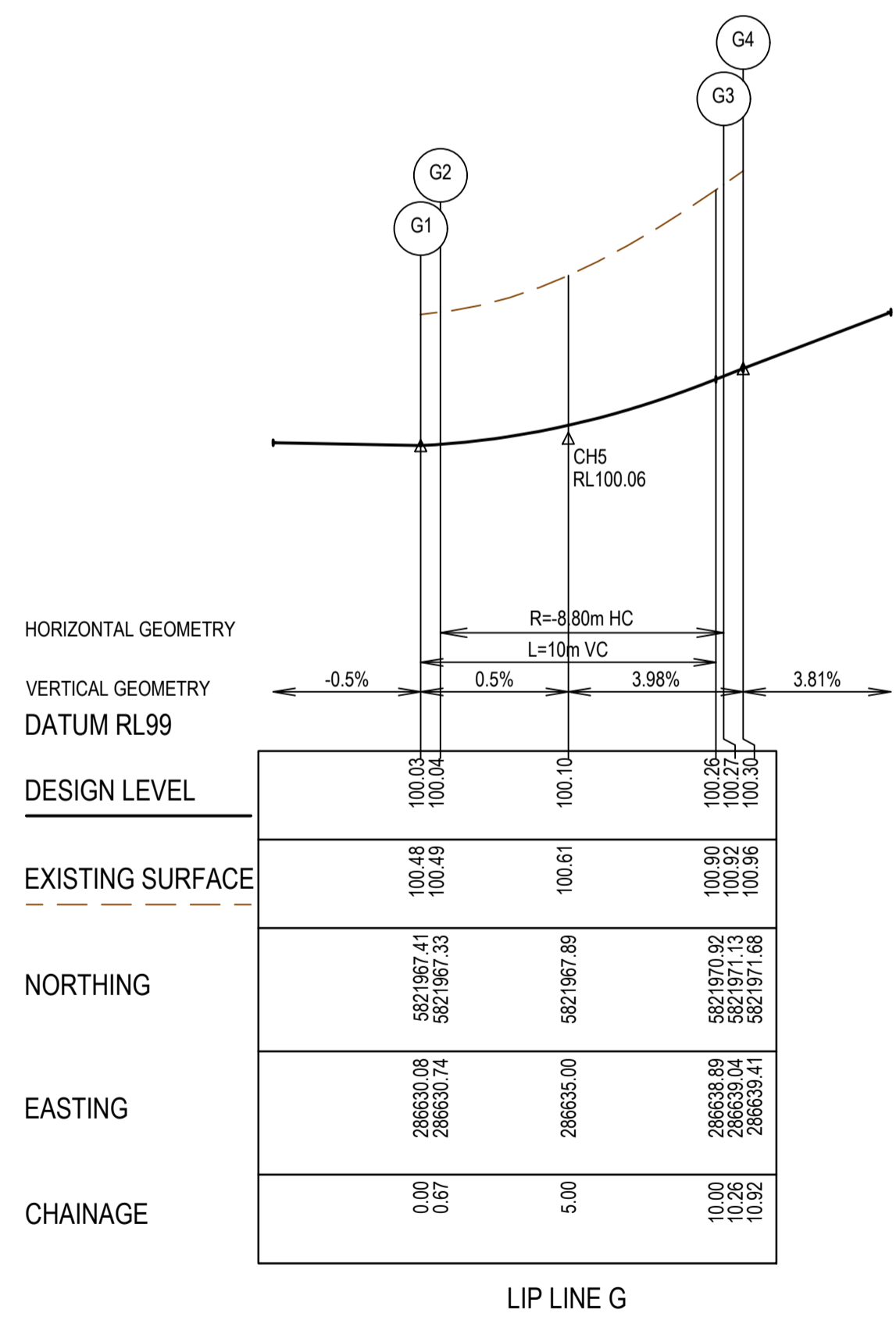
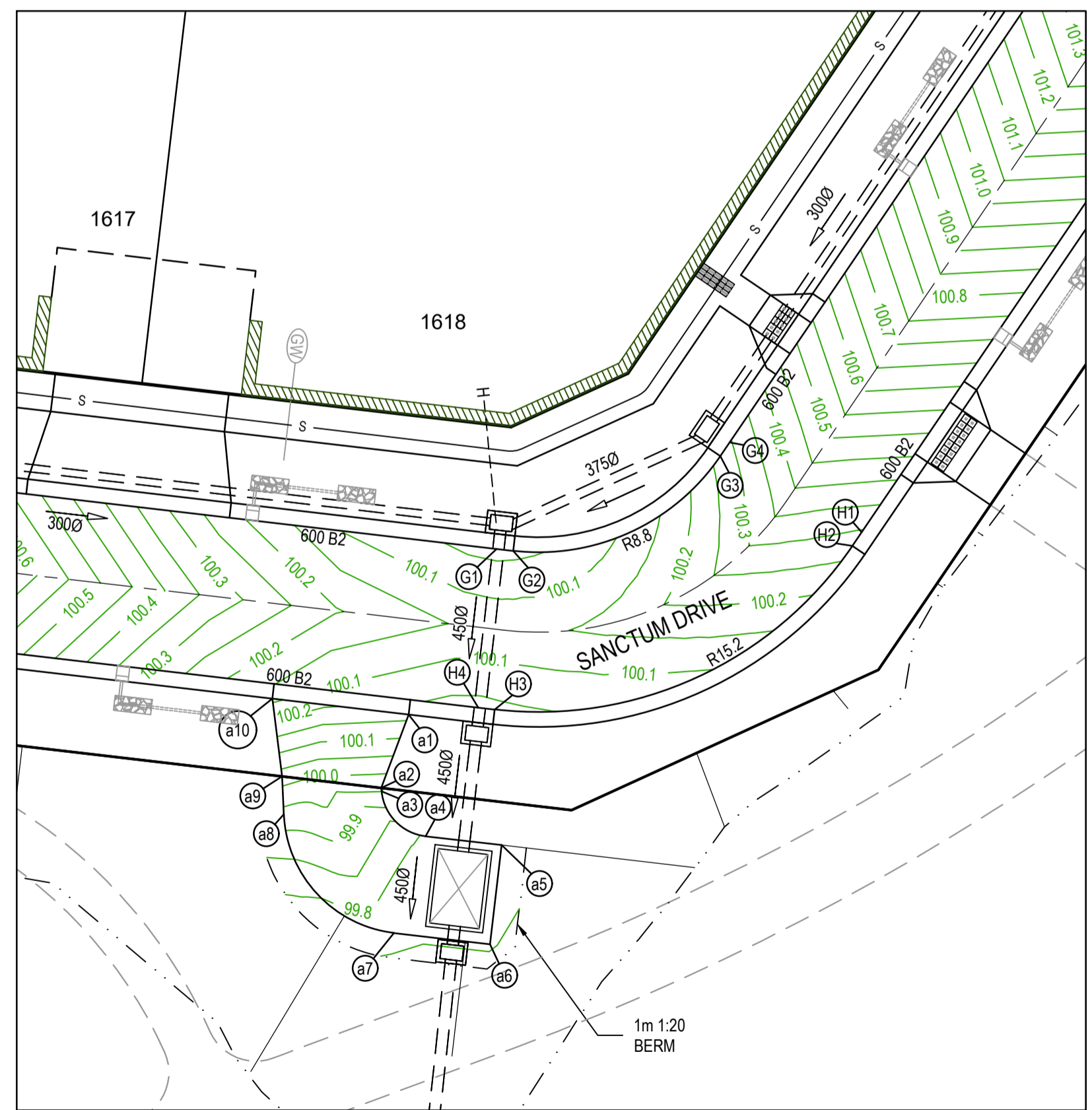
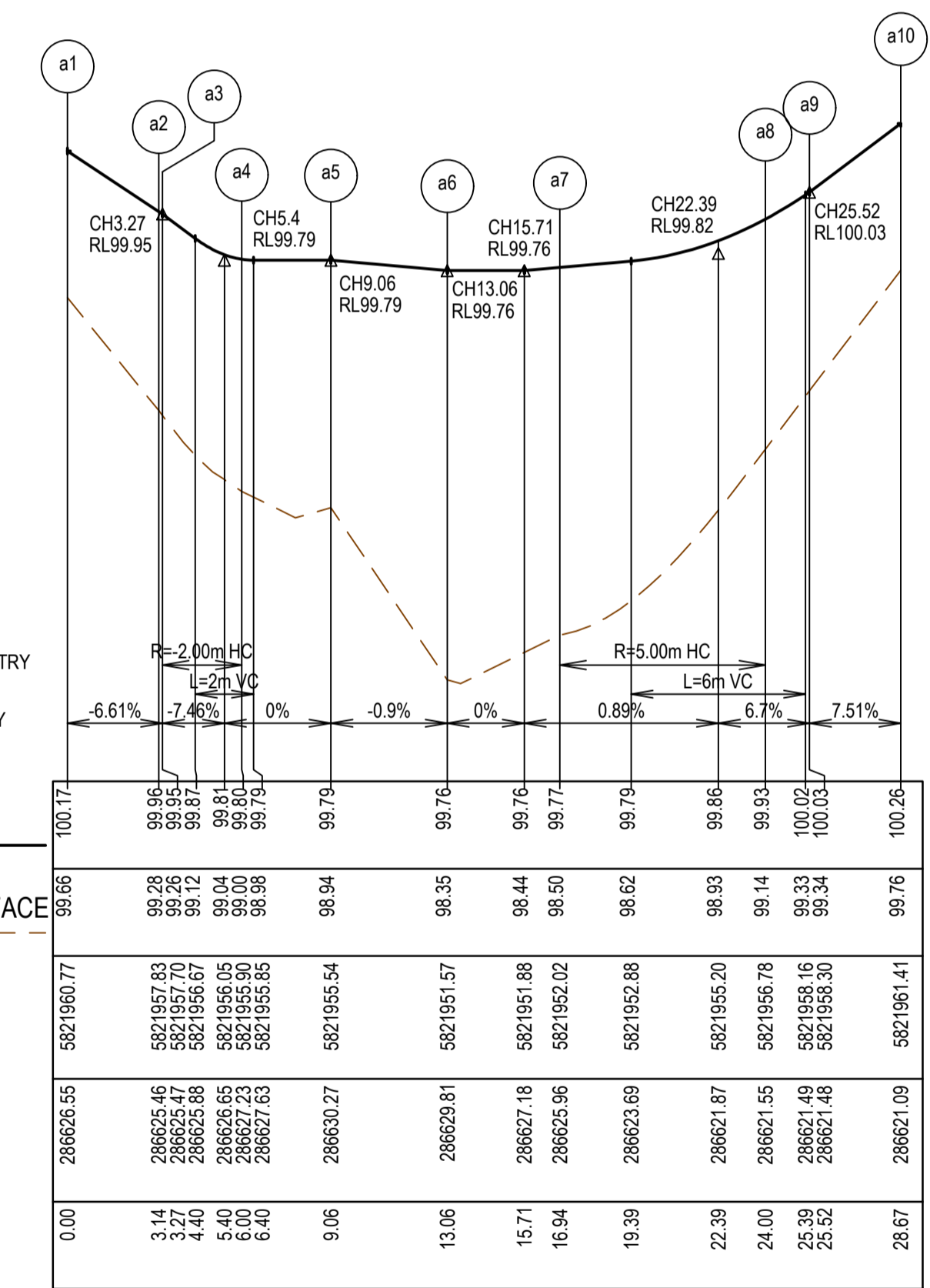
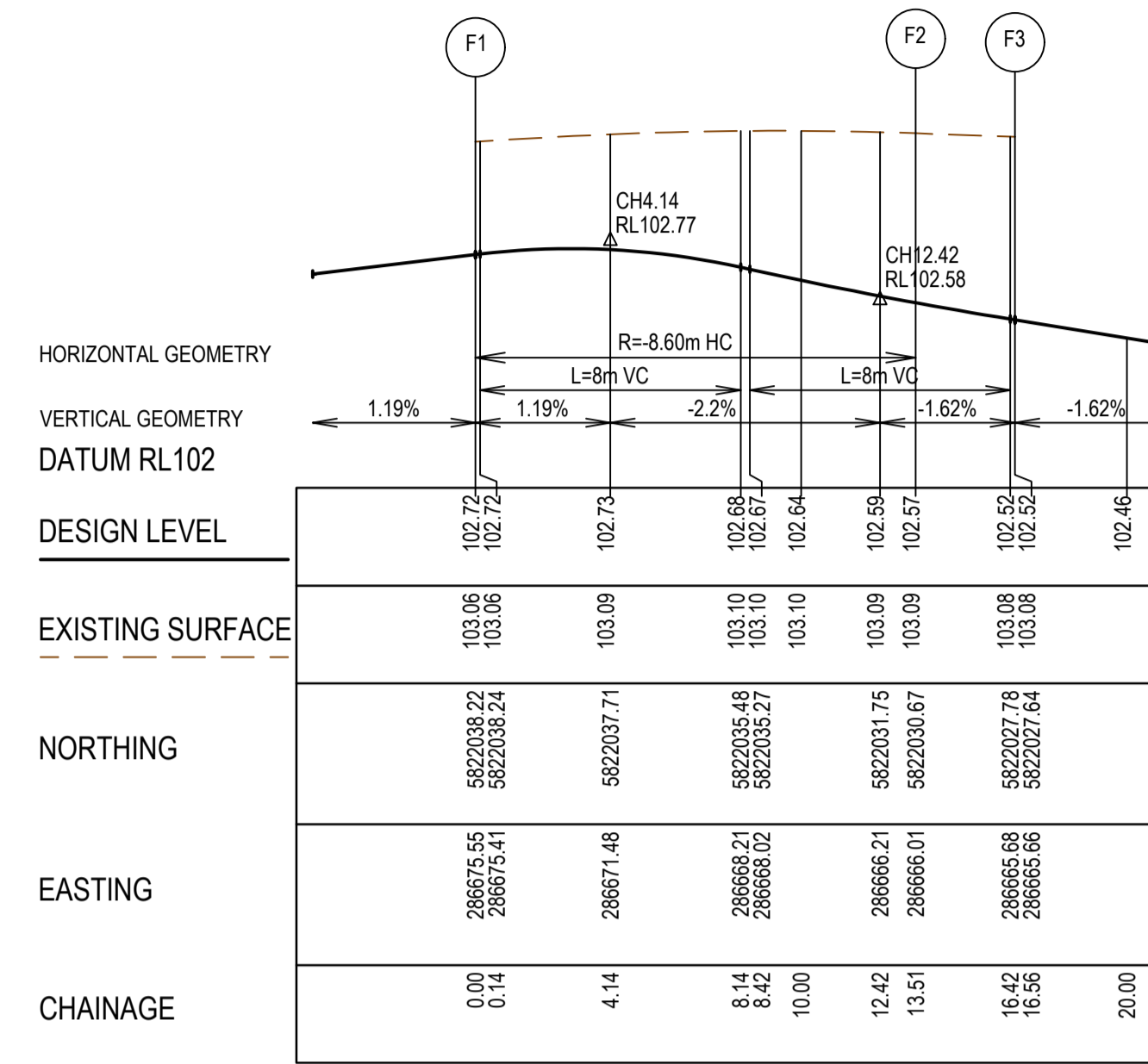
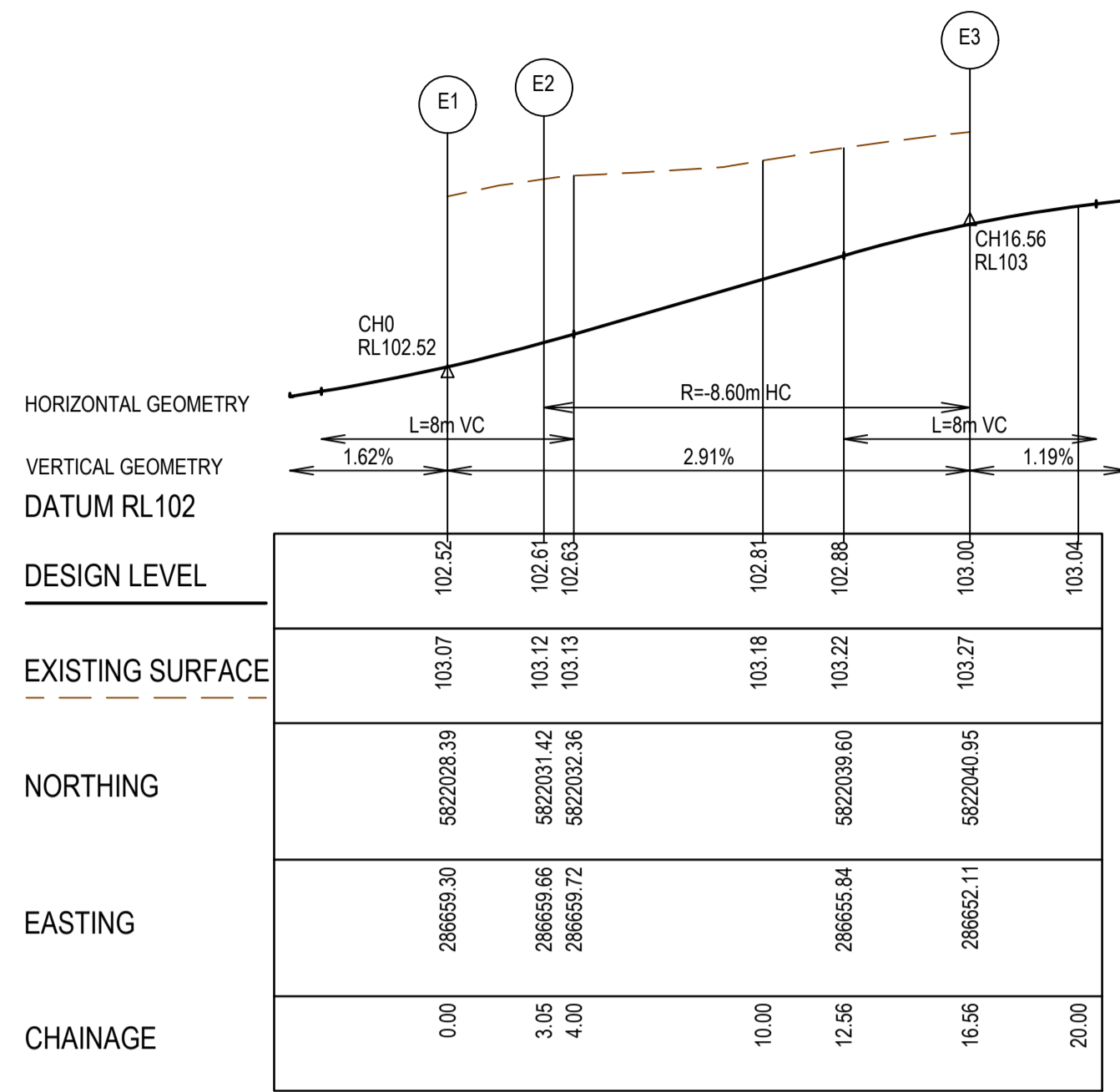
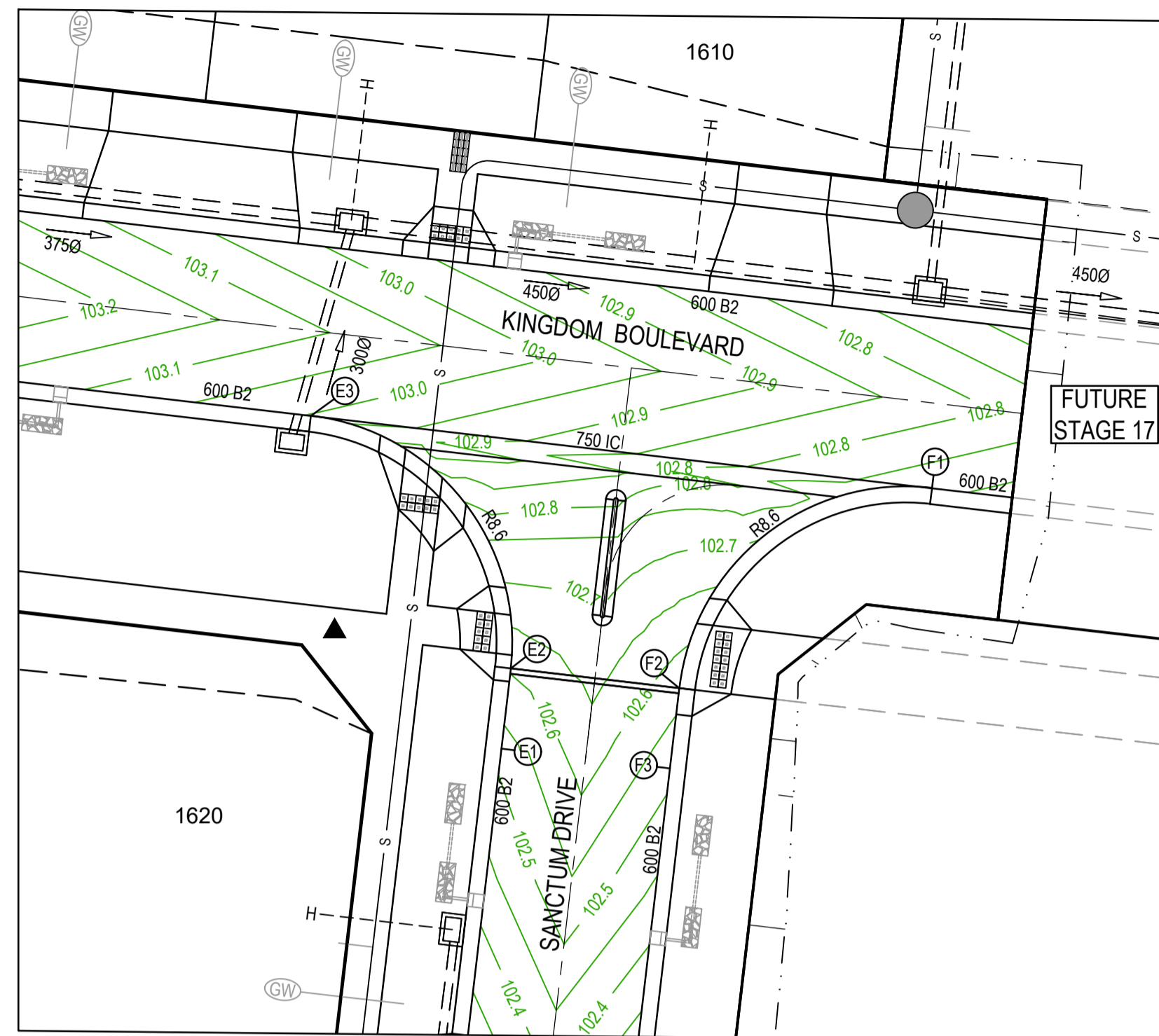


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 Melbourne, VIC 3008
 Ph 03 9514 1500

SEVENTH BEND

Seventh Bend - Stage 16
 Melton City Council
 Road and Drainage
 Signage & Linemarking Plan

MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-016-171	SHEET No. 04 of 19	REVISION 0
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- NOTES**
- ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITTS.
 - ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
 - VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
 - INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS PART OF LANDSCAPE WORKS.
 - SHARE PATH THROUGH CREEK CORRIDOR TO FORM PART OF LANDSCAPE WORKS.

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

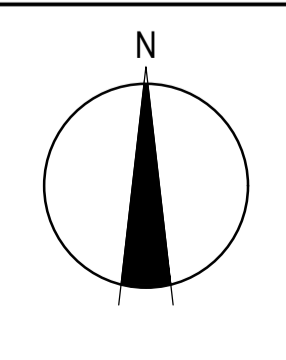
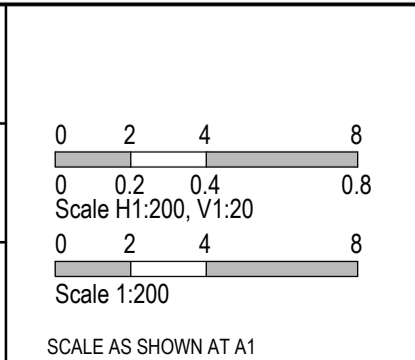
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	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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Quality Management ISO 9001
OH&S Management AS/NZS 4500
Environmental Management ISO 14001

PLAN OF SUB. NO. PS841628K
PERMIT REF. NO. PA2018/6160

ISSUED FOR CONSTRUCTION

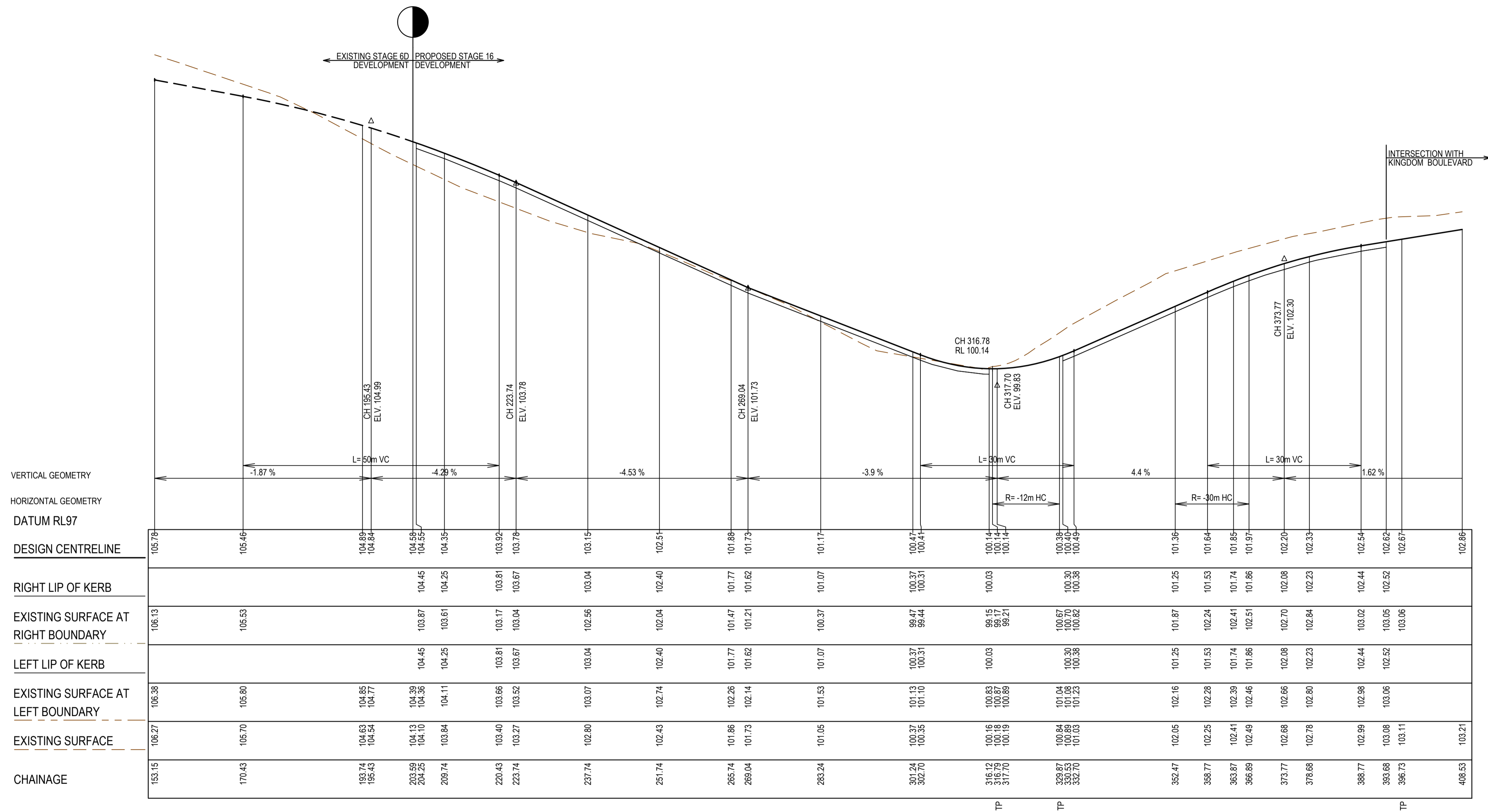


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SEVENTH BEND

Seventh Bend - Stage 16
Melton City Council
Road and Drainage
Intersection Detail Plan & Lip Profiles

MELWAYS REF: 342 K7
PROJECT / DRAWING No: 2250E-016-181
SHEET No: 05 of 19
REVISION: 0

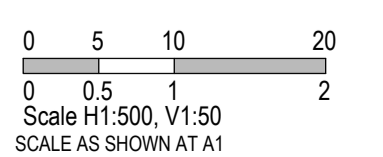


SANCTUM DRIVE LONGITUDINAL SECTION

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS841628K
 PERMIT REF. NO. PA2018/6160
ISSUED FOR CONSTRUCTION

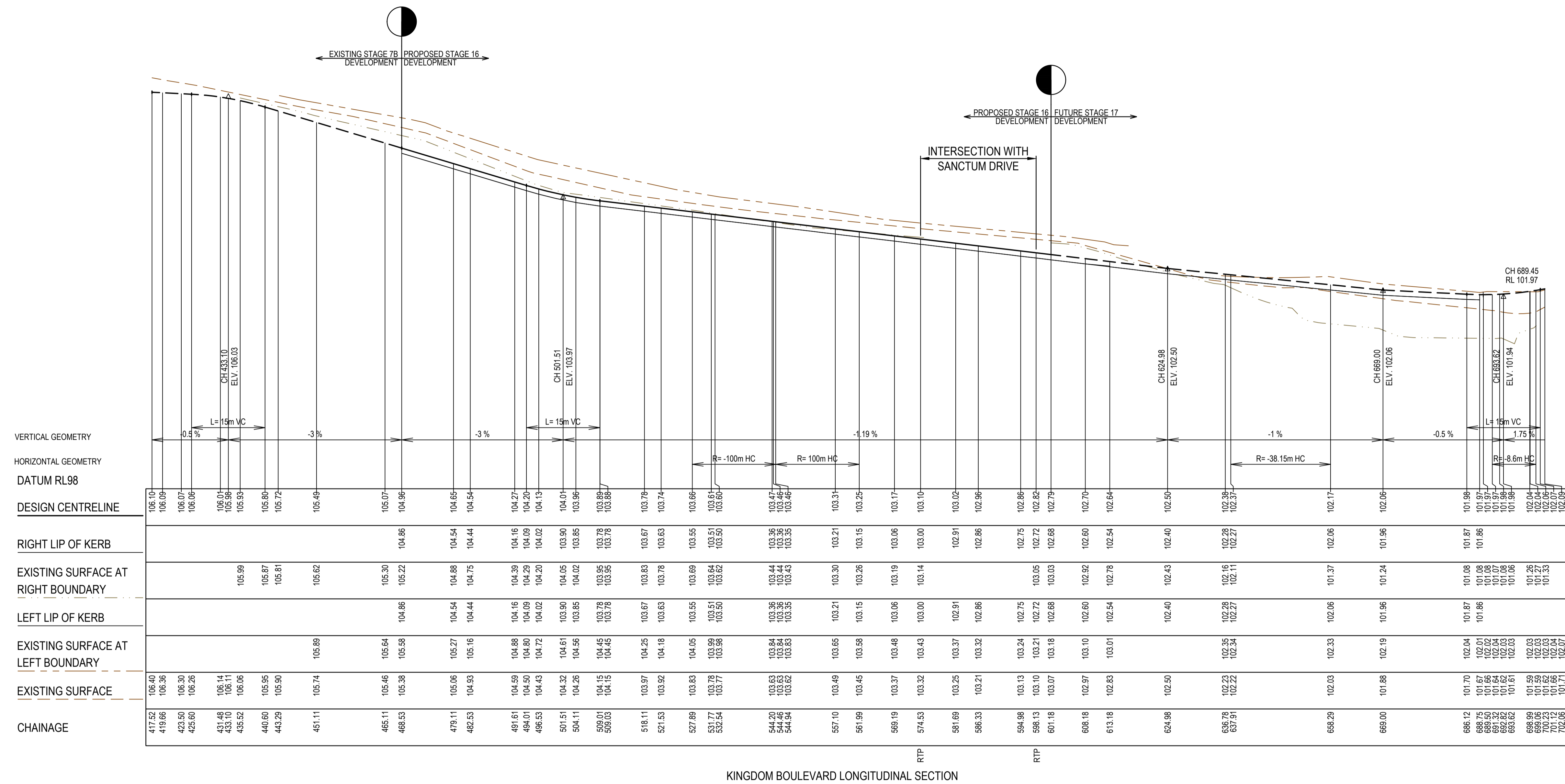


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SEVENTH BEND

Seventh Bend - Stage 16
Melton City Council
Road and Drainage
Longitudinal Sections - 1

MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-016-201	SHEET No. 06 of 19	REVISION 0
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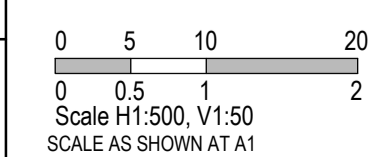
KINGDOM BOULEVARD LONGITUDINAL SECTION

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO.
 PS841628K
 PERMIT REF. NO.
 PA2018/6160

ISSUED FOR CONSTRUCTION



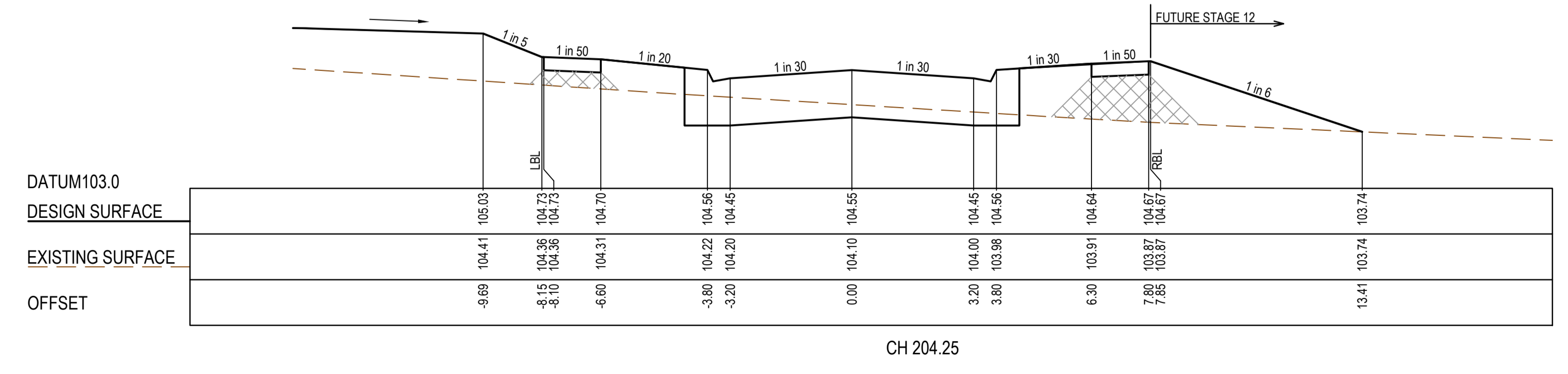
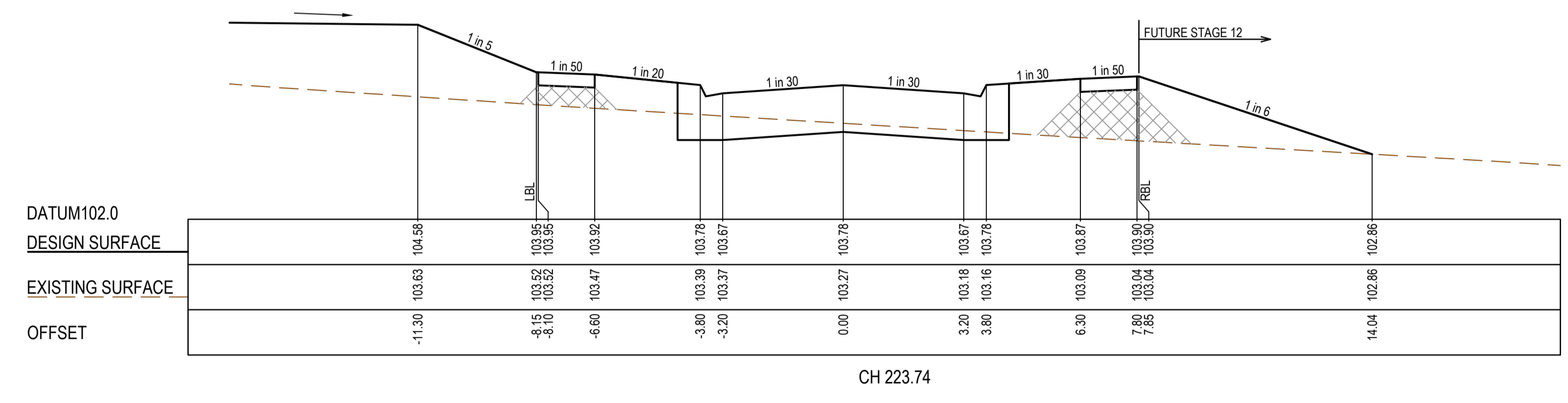
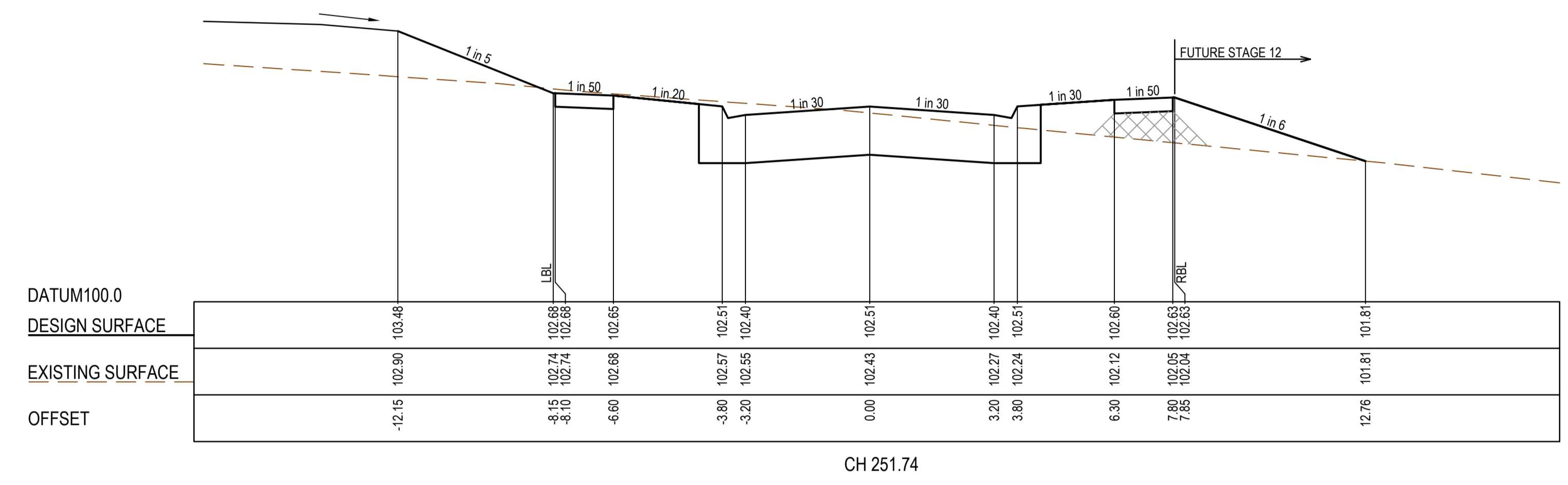
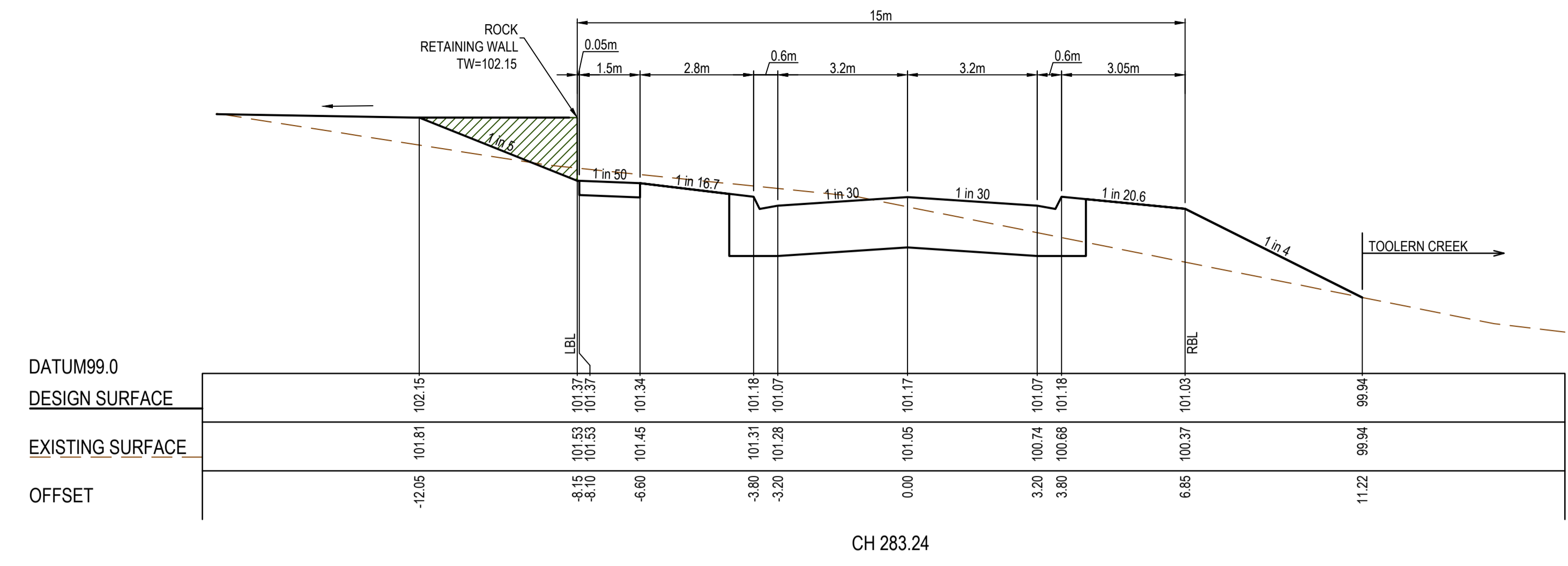
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Seventh Bend - Stage 16
 Melton City Council
 Road and Drainage
 Longitudinal Sections - 2

MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-016-202	SHEET No. 07 of 19	REVISION 0
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LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE

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



AS CONSTRUCTED PLANS
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OHS Management - AS/NZS 4801
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Environmental Management - ISO 14001
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PLAN OF SUB. NO. PS841628K
 PERMIT REF. NO. PA2018/6160

ISSUED FOR CONSTRUCTION

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

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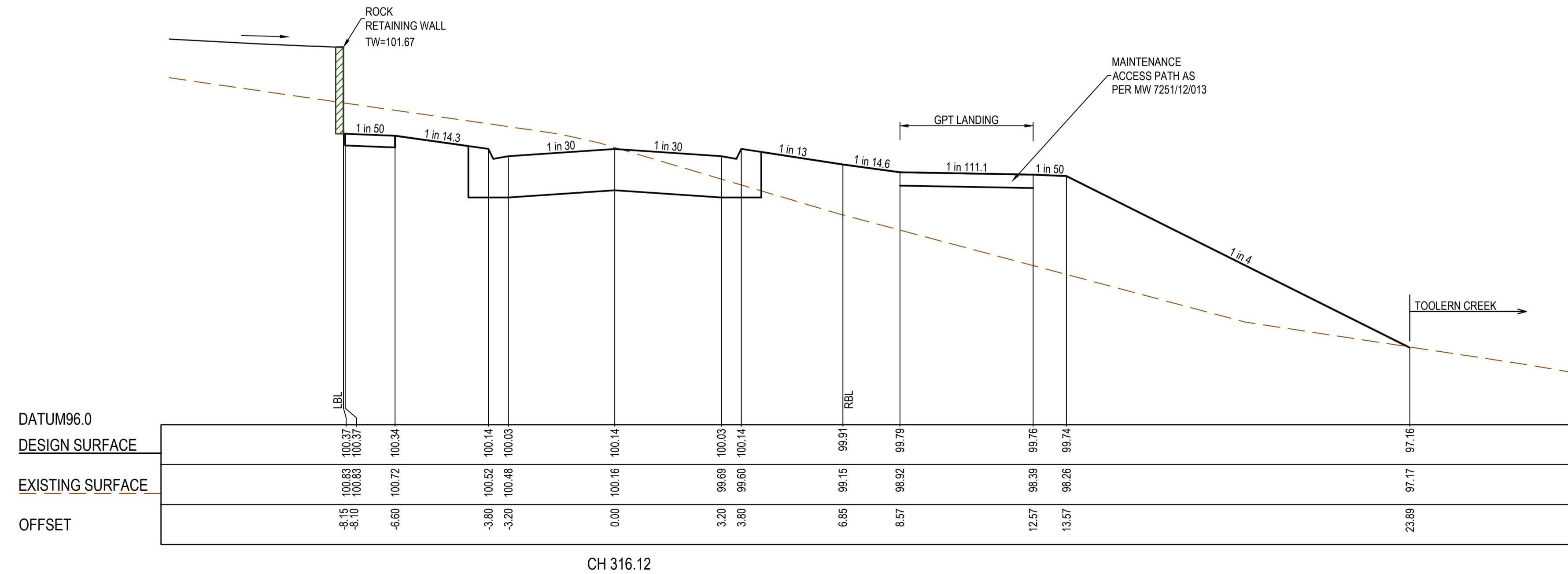
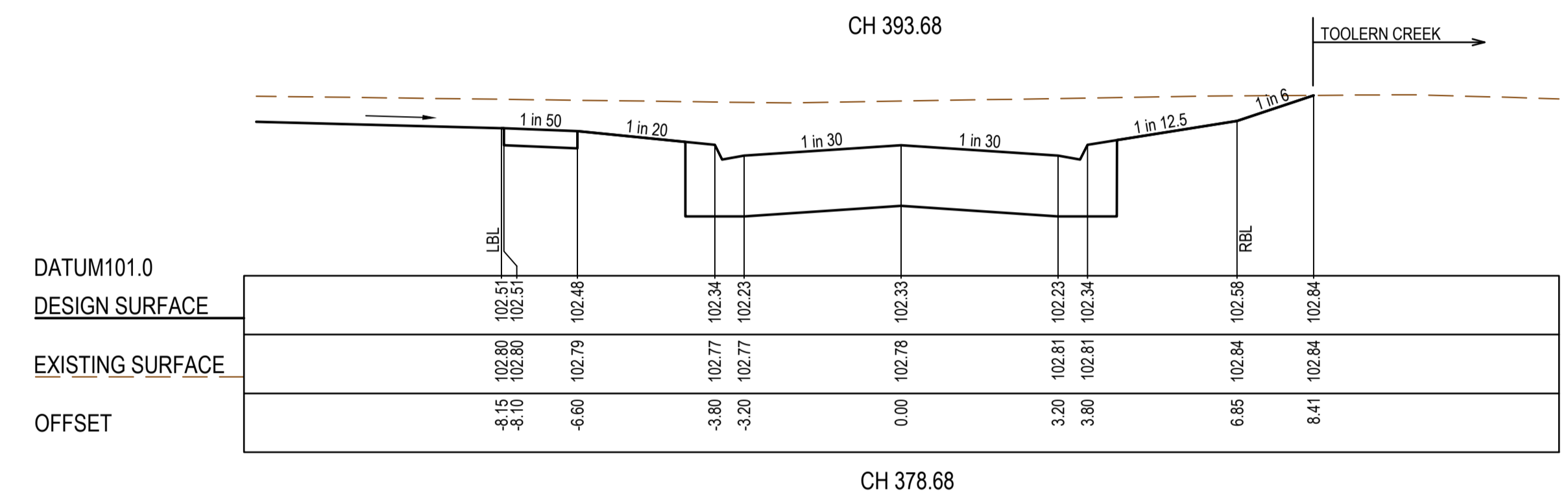
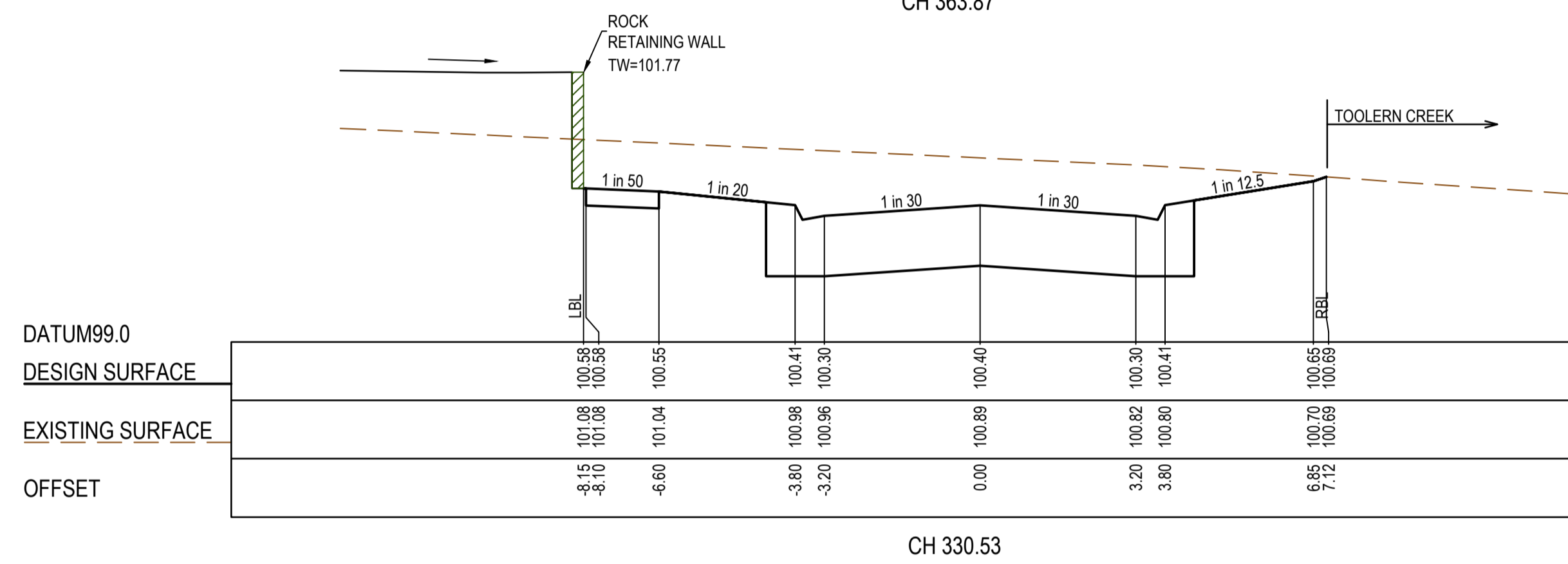
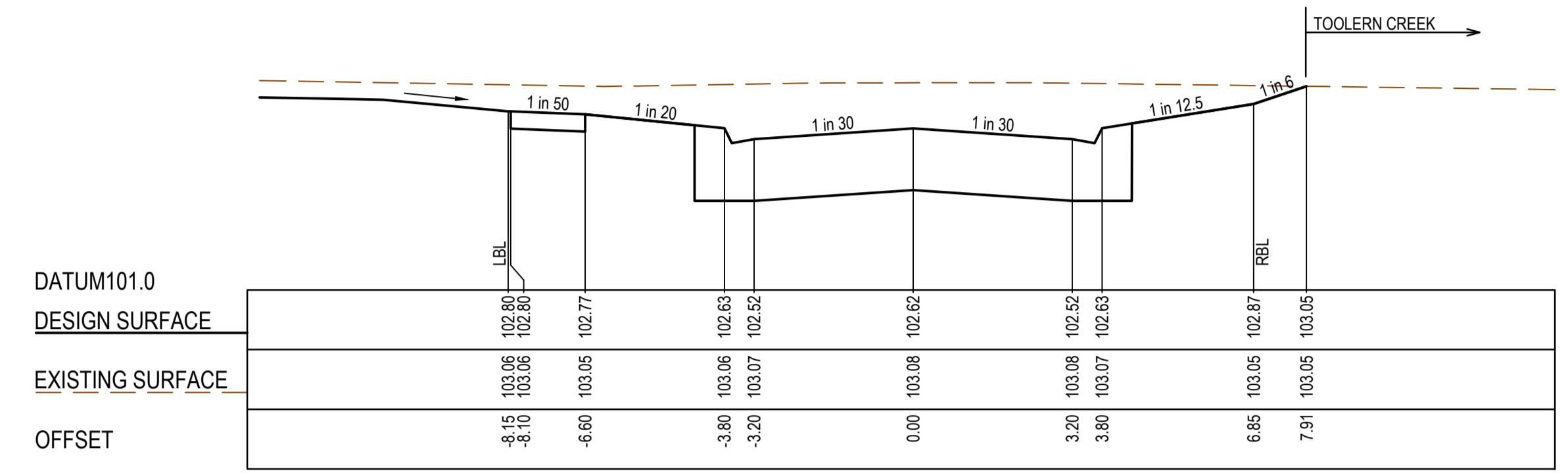
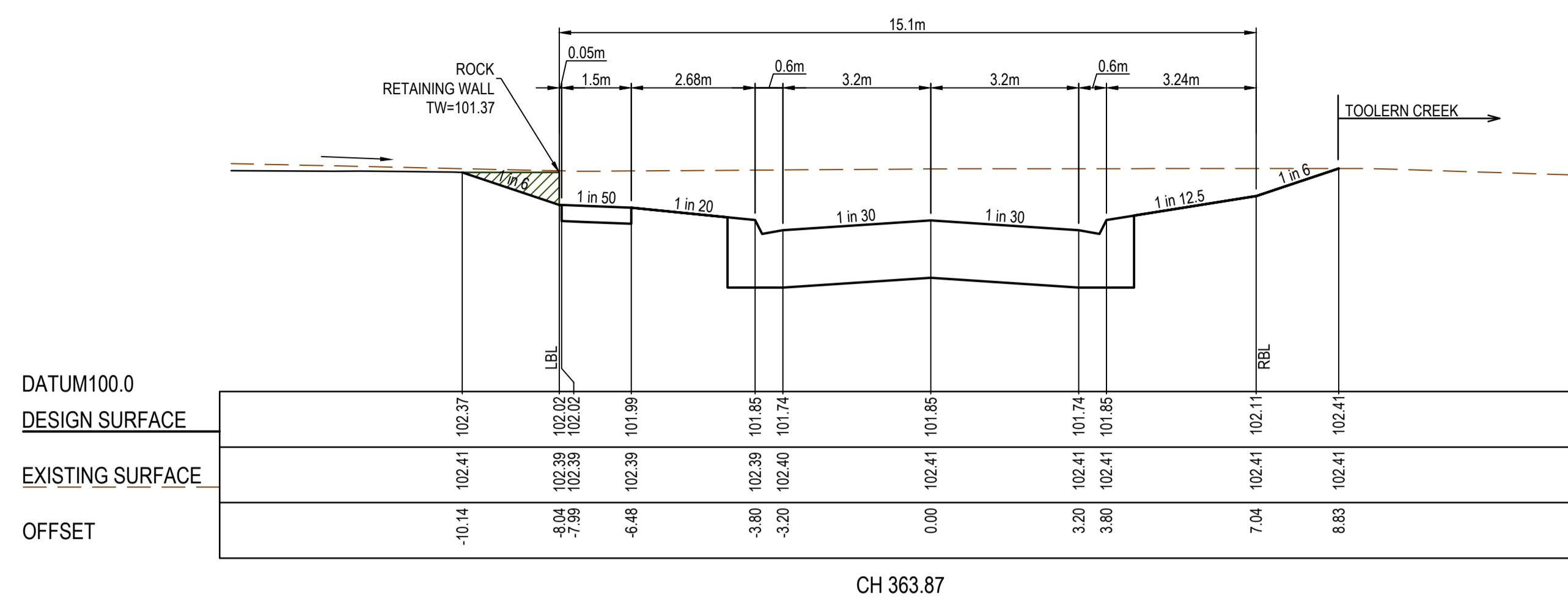
SEVENTH
BEND

Seventh Bend - Stage 16 Melton City Council Road and Drainage Cross Sections : Sanctum Drive Ch 204.25 - Ch 283.24		SHEET No. 08 of 19	REVISION 0
MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-016-251		

LEGEND

- EXISTING SURFACE
- DESIGN LINE
- FUTURE DESIGN LINE

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. PS841628K
 PERMIT REF. NO. PA2018/6160

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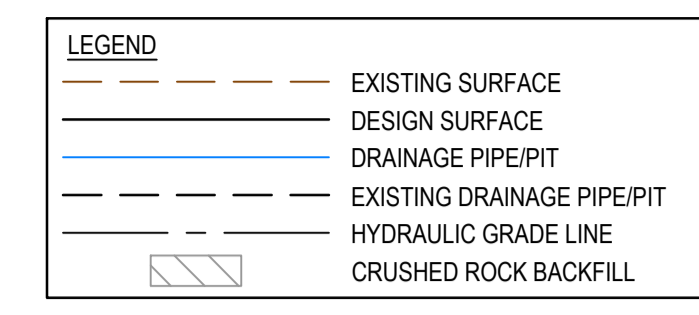
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 Melbourne, VIC 3008
 Ph 03 9514 1900

SEVENTH BEND

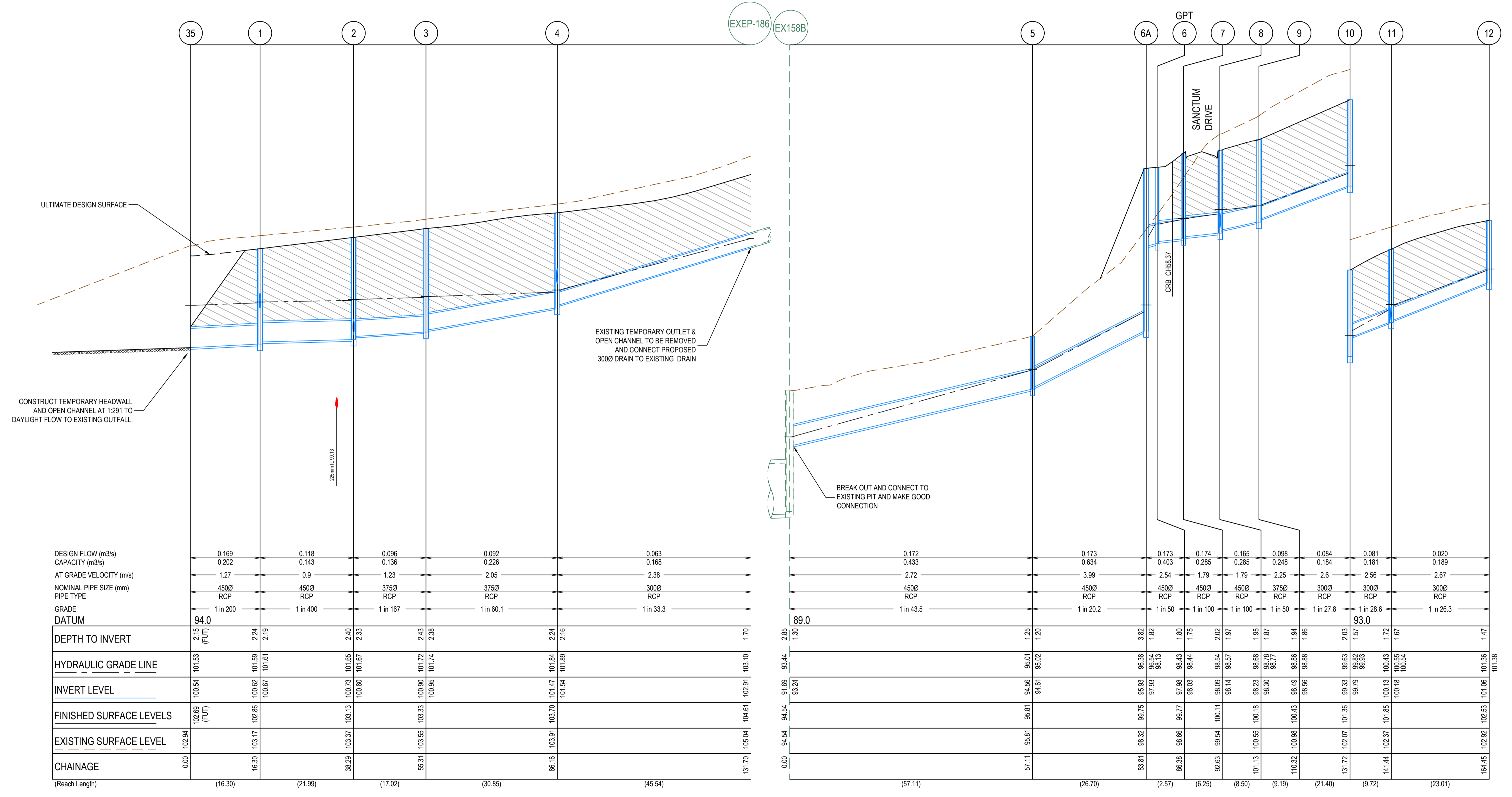
Seventh Bend - Stage 16
 Melton City Council
 Road and Drainage
 Cross Sections : Sanctum Drive
 Ch 316.12 - Ch 393.68

MELWAYS REF	342 K7	PROJECT / DRAWING No	2250E-016-252	SHEET No	09 of 19	REVISION	0
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CRUSHED ROCK BACKFILL
 CRB INDICATES CRUSHED ROCK BACKFILL, COMPACTED IN ACCORDANCE WITH MELTON CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



- NOTES**
- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 97% OF MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
 - 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 DEGREE ANGLE OF REPOSE FROM NEAR THE LOWER EDGE.
 - ALL DRAINAGE PIPES TO BE RUBBER RING BELLED SOCKET JOINT TYPE (RRJ).
 - ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
 - WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.



DESIGN FLOW (m3/s)	0.169	0.118	0.096	0.092	0.063
CAPACITY (m3/s)	0.202	0.143	0.136	0.226	0.168
AT GRADE VELOCITY (m/s)	1.27	0.9	1.23	2.05	2.38
NOMINAL PIPE SIZE (mm)	4500	4500	3750	3750	3000
PIPE TYPE	RCP	RCP	RCP	RCP	RCP
GRADE	1 in 200	1 in 400	1 in 167	1 in 60.1	1 in 33.3
DATUM	94.0				
DEPTH TO INVERT	2.15 (FUT)	2.24	2.40	2.43	2.24
HYDRAULIC GRADE LINE	101.53	101.59	101.67	101.72	101.84
INVERT LEVEL	100.34	100.67	100.80	100.90	101.47
FINISHED SURFACE LEVELS	102.69 (FUT)	102.86	103.13	103.33	103.70
EXISTING SURFACE LEVEL	102.94	103.17	103.37	103.55	103.91
CHAINAGE	0.00	16.30	38.29	55.31	86.16
(Reach Length)	(16.30)	(21.99)	(17.02)	(30.85)	(45.54)

DESIGN FLOW (m3/s)	0.172	0.173	0.173	0.174	0.165	0.098	0.084	0.081	0.020	
CAPACITY (m3/s)	0.433	0.634	0.403	0.285	0.248	0.184	0.181	0.189		
AT GRADE VELOCITY (m/s)	2.72	3.99	2.54	1.79	2.25	2.6	2.67	2.67		
NOMINAL PIPE SIZE (mm)	4500	4500	4500	4500	4500	3750	3000	3000	3000	
PIPE TYPE	RCP	RCP	RCP	RCP	RCP	RCP	RCP	RCP	RCP	
GRADE	1 in 43.5	1 in 20.2	1 in 50	1 in 100	1 in 100	1 in 50	1 in 27.8	1 in 28.6	1 in 26.3	
DATUM	89.0					93.0				
DEPTH TO INVERT	2.85	1.30	1.25	1.20	3.82	1.82	1.80	1.75	2.02	
HYDRAULIC GRADE LINE	91.69	93.44	95.01	95.02	96.38	96.13	96.43	96.44	96.54	
INVERT LEVEL	90.24	93.24	94.56	94.81	97.93	97.98	98.03	98.14	98.23	
FINISHED SURFACE LEVELS	94.54	95.81	96.81	96.81	99.75	99.75	99.77	100.11	100.16	
EXISTING SURFACE LEVEL	94.54	95.81	96.81	96.81	99.75	99.75	99.77	100.11	100.16	
CHAINAGE	0.00	57.11	83.81	86.38	92.63	101.13	110.32	131.72	141.44	
(Reach Length)	(57.11)	(26.70)	(2.57)	(6.25)	(8.50)	(9.19)	(21.40)	(9.72)	(23.01)	

AS CONSTRUCTED PLANS

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PLAN OF SUB. NO.
PS841628K
 PERMIT REF. NO.
PA2018/6160

ISSUED FOR CONSTRUCTION

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

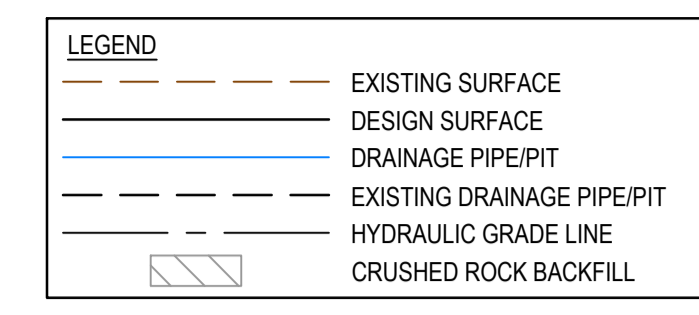
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 ABN 47 065 475 149
 Collins Square, Tower 4, Level 20, 727 Collins St
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 Ph 03 9514 1500

SEVENTH BEND

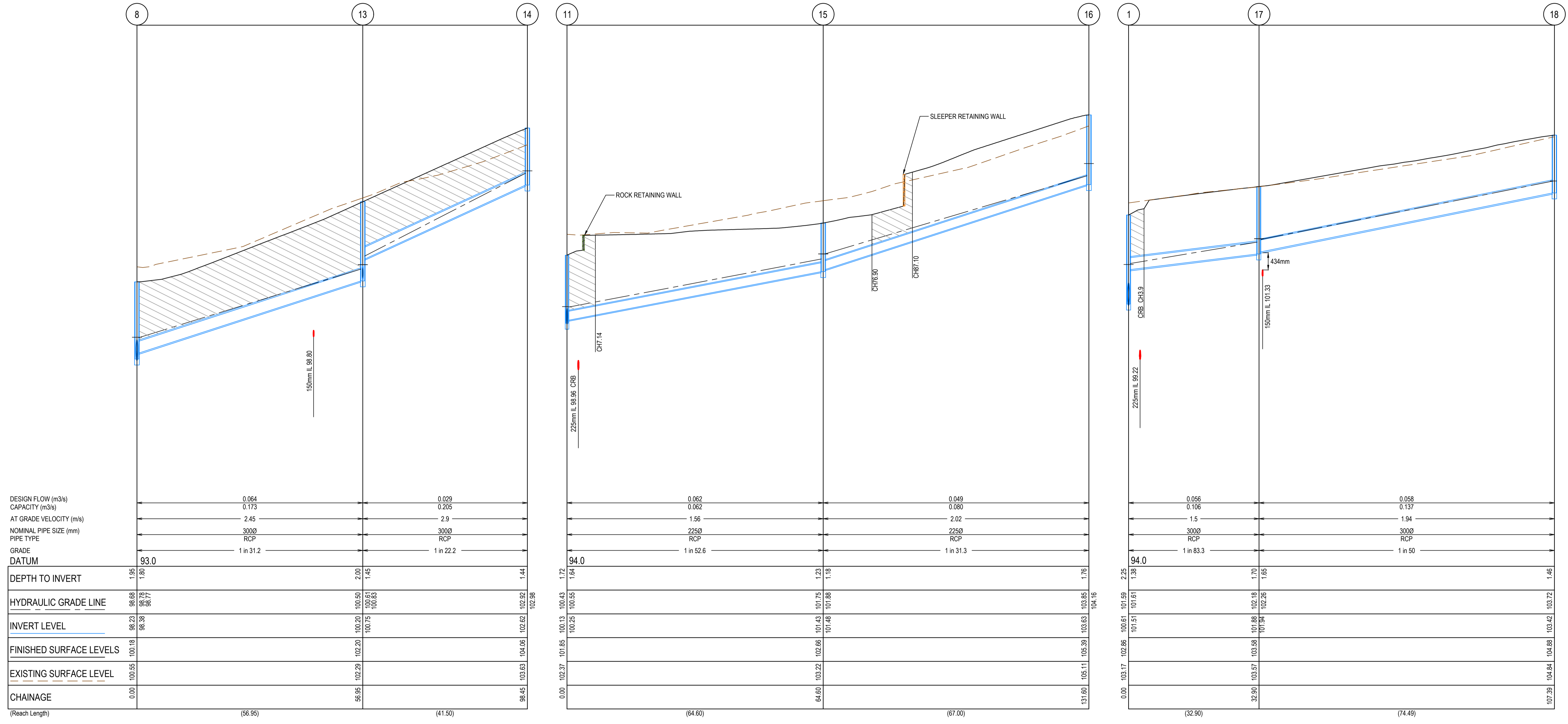
Seventh Bend - Stage 16
 Melton City Council
 Road and Drainage
 Drainage Longitudinal Sections - 1

MELBOURNE REF 342 K7	PROJECT / DRAWING No. 2250E-016-301	SHEET No. 11 of 19	REVISION 0
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CRUSHED ROCK BACKFILL
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH MELTON CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



- NOTES**
- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 97% OF MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
 - 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 DEGREE ANGLE OF REPOSE FROM NEAR THE LOWER EDGE.
 - ALL DRAINAGE PIPES TO BE RUBBER RING BELLED SOCKET JOINT TYPE (RRJ).
 - ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
 - WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.



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PLAN OF SUB. NO.
 PS841628K
 PERMIT REF. NO.
 PA2018/6160

ISSUED FOR CONSTRUCTION

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

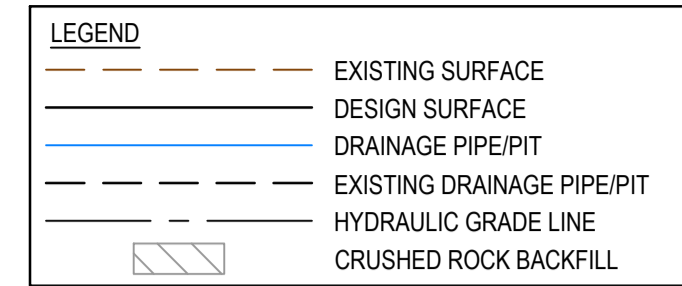
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 Collins Square, Tower 4, Level 20, 727 Collins St
 Melbourne, VIC 3008
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SEVENTH BEND

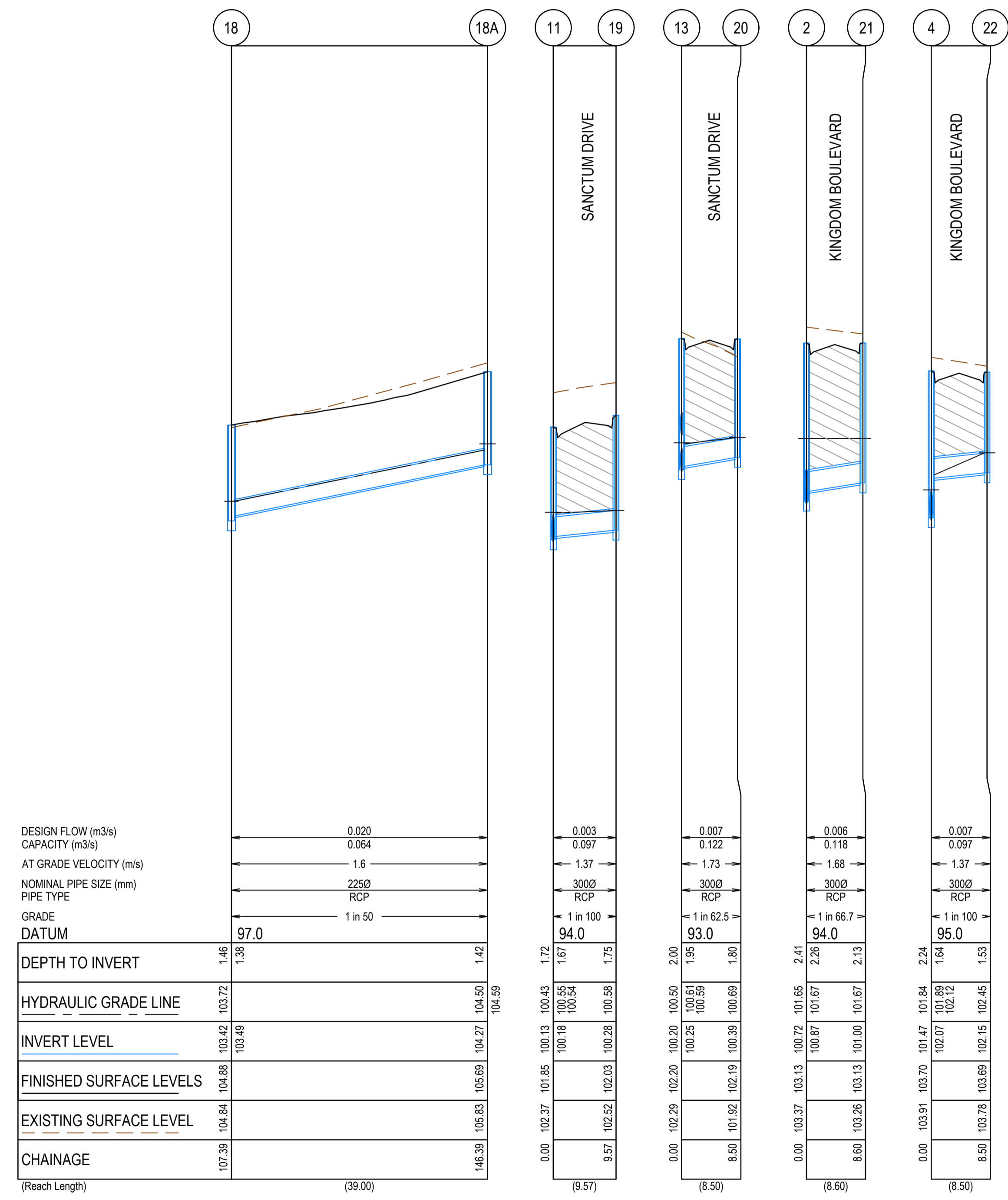
Seventh Bend - Stage 16
 Melton City Council
 Road and Drainage
 Drainage Longitudinal Sections - 2

MELWAYS REF: 342 K7
 PROJECT / DRAWING No: 2250E-016-302
 SHEET No: 12 of 19
 REVISION: 0

CRUSHED ROCK BACKFILL
 CRB INDICATES CRUSHED ROCK BACKFILL. COMPACTED IN ACCORDANCE WITH MELTON CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



- NOTES**
- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 97% OF MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
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PLAN OF SUB. NO. PS841628K
 PERMIT REF. NO. PA2018/6160

ISSUED FOR CONSTRUCTION

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

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 Melbourne, VIC 3008
 Ph 03 9514 1500

SEVENTH BEND

Seventh Bend - Stage 16
 Melton City Council
 Road and Drainage
 Drainage Longitudinal Sections - 3

MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-016-303	SHEET No. 13 of 19	REVISION 0
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PIT SCHEDULE											
PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		F.S.L.	DEPTH	STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INV R.L. (m)	DIAMETER (mm)	INV R.L. (m)				
Ex 35	TEMPORARY ENDWALL			450	100.537	450	101.029	102.694(FUT)	2.154(FUT)		
1	JUNCTION PIT	750	900	450 300	100.664 101.484	450	100.614	102.694	2.248	EDCM 605 & 607	HAUNCH PIT TO 600 x 900 COVER
2	SIDE ENTRY PIT GRATED	600	900	375 300	100.794 100.869	450	100.719	103.127	2.408	EDCM 601	
3	JUNCTION PIT	600	900	375	100.946	375	100.896	103.335	2.439	EDCM 605	
4	SIDE ENTRY PIT GRATED	600	900	300 300	101.542 102.067	375	101.467	103.704	2.237	EDCM 601	
ExEP-186	Ex ENDPIPE			300	102.908	300	102.908	104.604	1.696		REMOVE EXISTING TEMPORARY OUTLET & OPEN CHANNEL & CONNECT TO EXISTING ENDPIPE
Ex158B	Ex PIT	1600	900	450 Ex 1050	93.244 92.644	Ex 1050	91.691	94.541	2.85	EX PIT	CONNECT TO EXISTING PIT
5	JUNCTION PIT	900	600	450	94.608	450	94.558	95.808	1.25	EDCM 605	
6A	JUNCTION PIT	600	900	450	97.928	450	95.928	99.746	3.818	EDCM 605	
6	GPT	600	900	450	98.029	450	97.979	99.775	1.795	GPT	
7	DOUBLE SIDE ENTRY PIT	600	1050	450	98.142	450	98.092	100.11	2.018	EDCM 602 & 607	HAUNCH PIT TO 600 x 900 COVER
8	DOUBLE SIDE ENTRY PIT	600	900	375 300	98.302 98.377	450	98.227	100.176	1.949	EDCM 602	
9	SIDE ENTRY PIT GRATED	600	900	300	98.561	375	98.486	100.425	1.939	EDCM 601	
10	SIDE ENTRY PIT GRATED	600	900	300	99.791	300	99.331	101.361	2.03	EDCM 601	
11	JUNCTION PIT	600	900	300 300 225	100.181 100.181 100.206	300	100.131	101.849	1.717	EDCM 605	
12	SIDE ENTRY PIT GRATED	600	900			300	101.055	102.527	1.472	EDCM 601	
13	SIDE ENTRY PIT GRATED	600	900	300 300	100.749 100.249	300	100.199	102.197	1.997	EDCM 601	
14	SIDE ENTRY PIT GRATED	600	900			300	102.617	104.057	1.44	EDCM 601	
15	JUNCTION PIT	600	900	225	101.484	225	101.434	102.659	1.226	EDCM 605	
16	JUNCTION PIT	600	900			225	103.628	105.388	1.76	EDCM 605	
17	JUNCTION PIT	600	900	300	101.929	300	101.879	103.581	1.703	EDCM 605	
18	JUNCTION PIT	900	600	225	103.493	300	103.418	104.878	1.46	EDCM 605	
18A	JUNCTION PIT	600	900			225	104.273	105.69	1.417	EDCM 605	
19	SIDE ENTRY PIT GRATED	600	900			300	100.277	102.027	1.75	EDCM 601	
20	SIDE ENTRY PIT GRATED	600	900			300	100.385	102.189	1.804	EDCM 601	
21	SIDE ENTRY PIT GRATED	600	900			300	100.998	103.126	2.128	EDCM 601	
22	SIDE ENTRY PIT GRATED	600	900			300	102.152	103.686	1.534	EDCM 601	

AS CONSTRUCTED PLANS

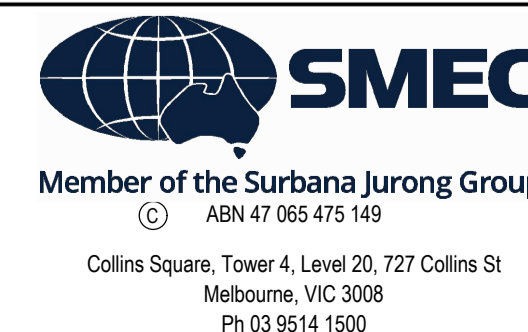
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PLAN OF SUB. NO.
PS841628K
PERMIT REF. NO.
PA2018/6160

ISSUED FOR CONSTRUCTION

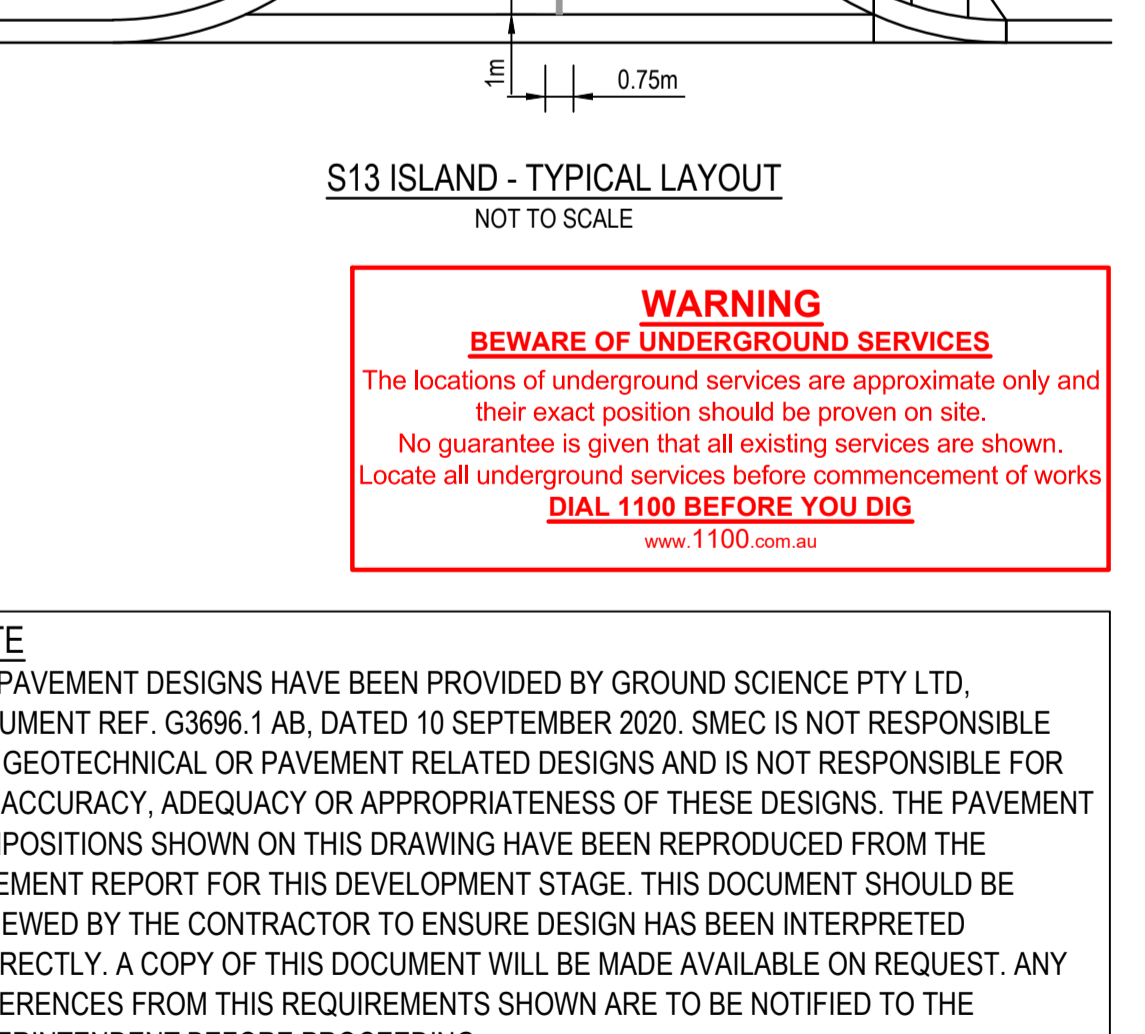
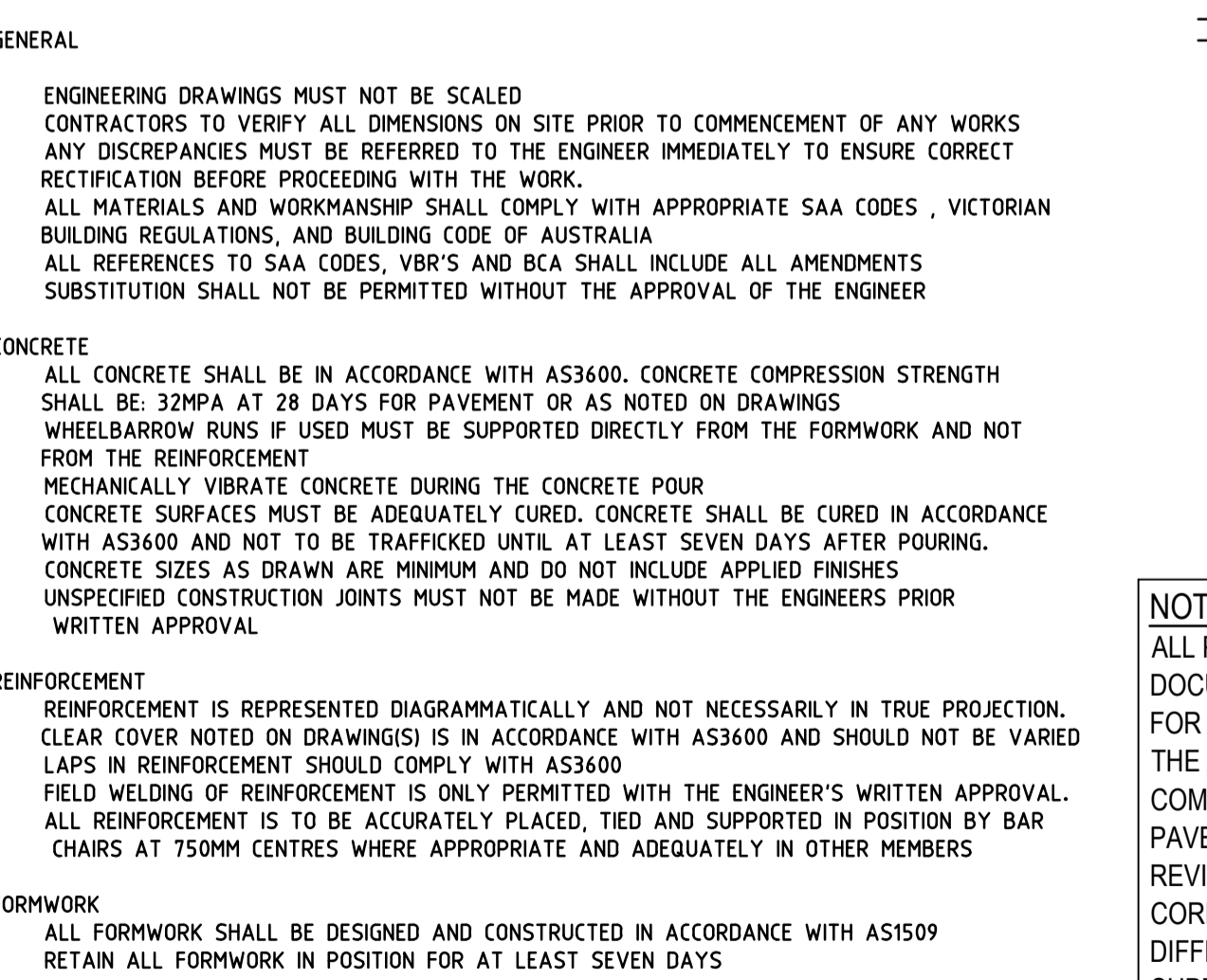
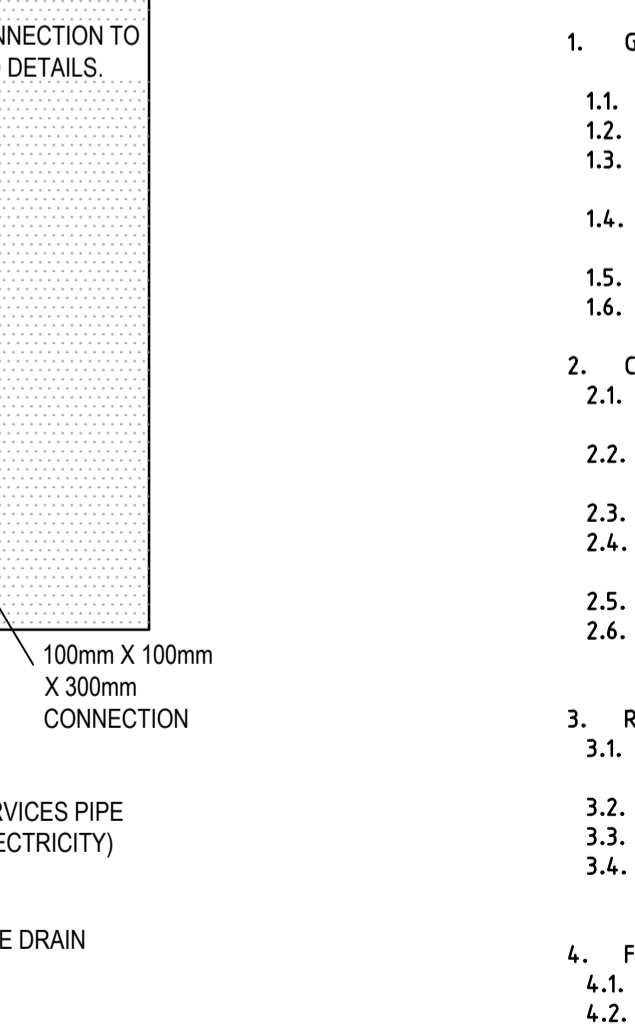
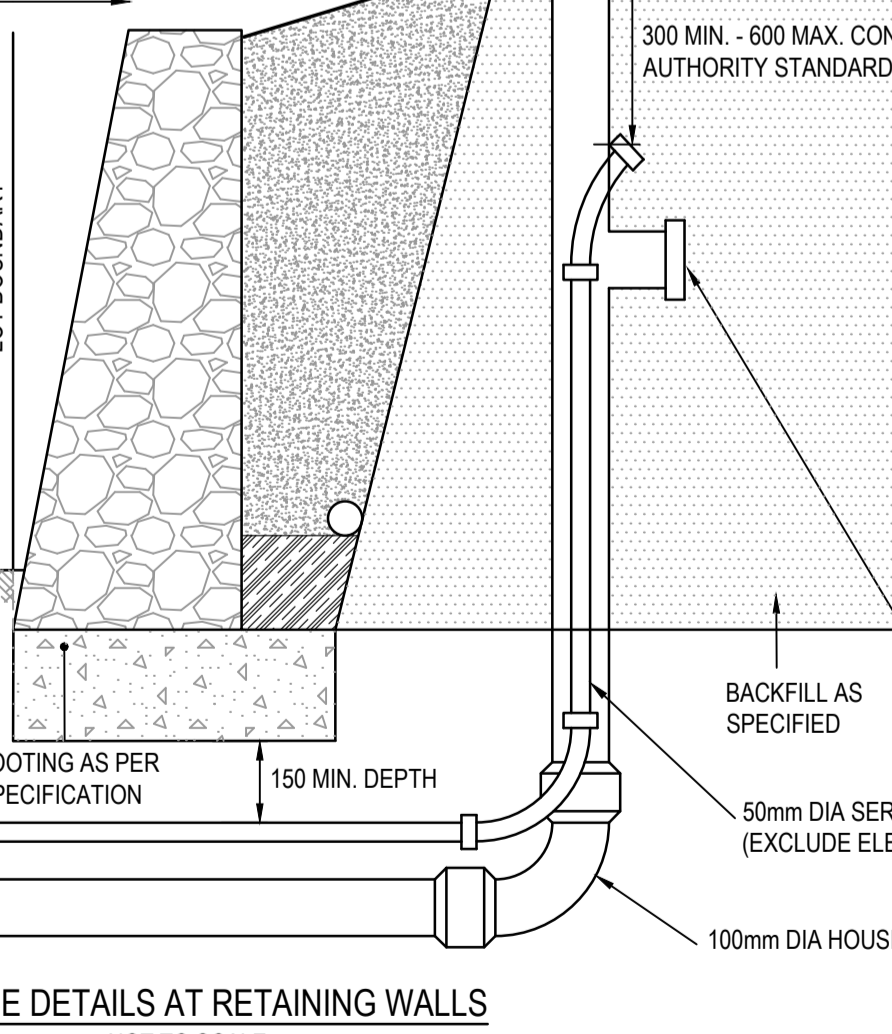
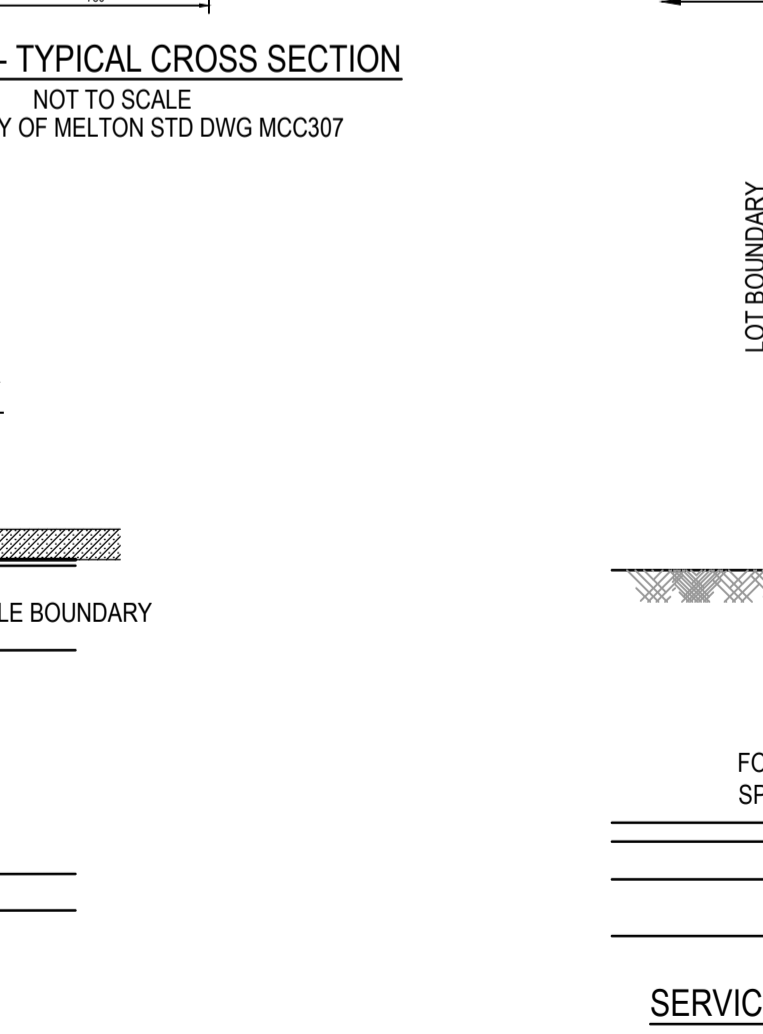
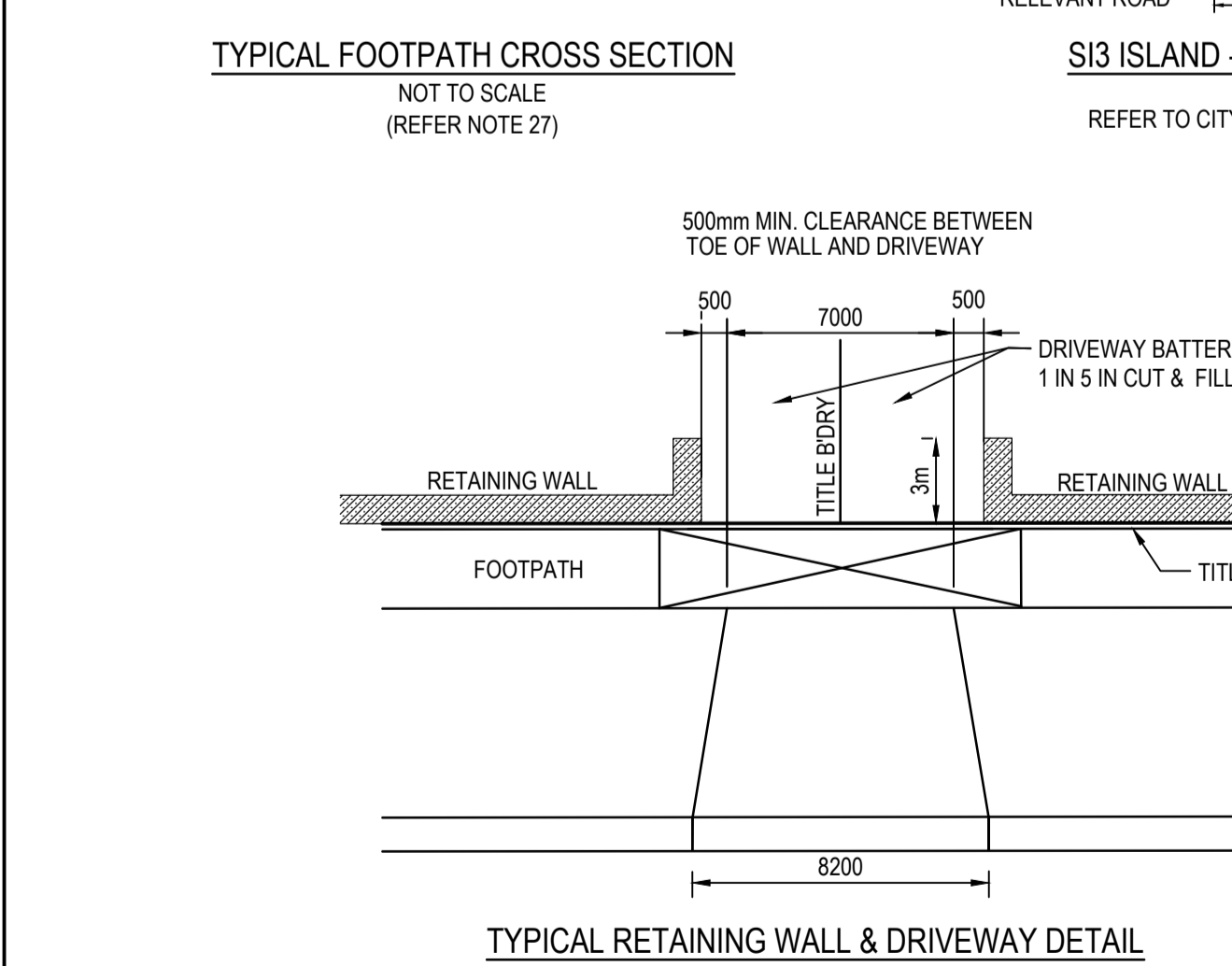
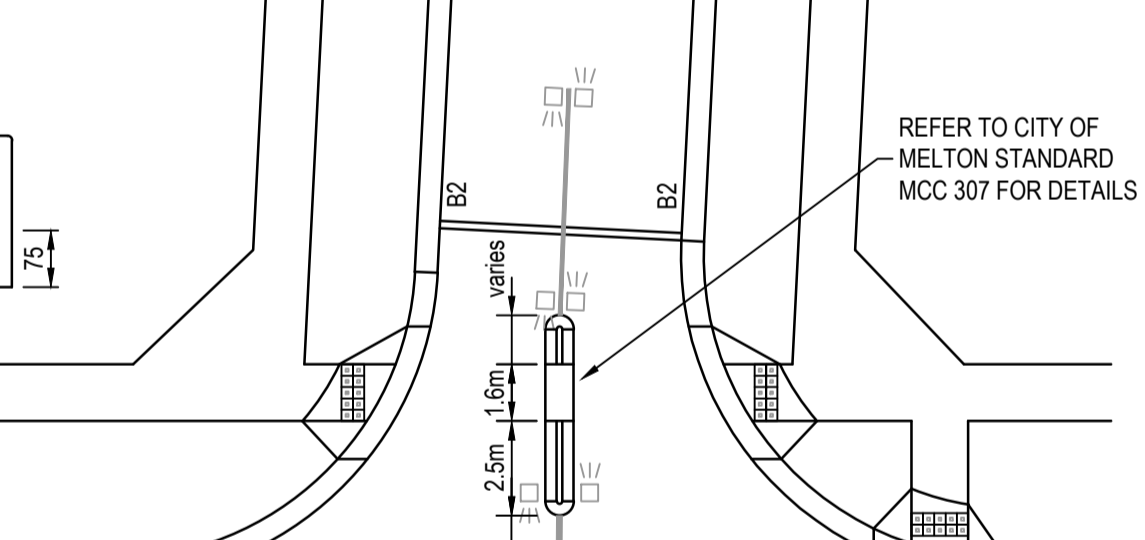
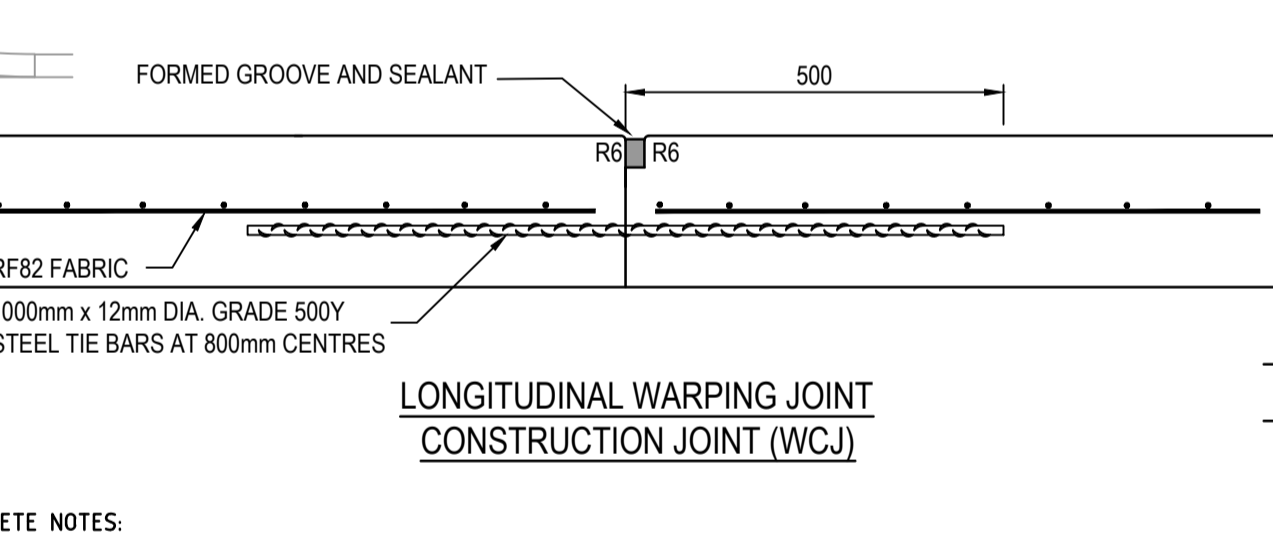
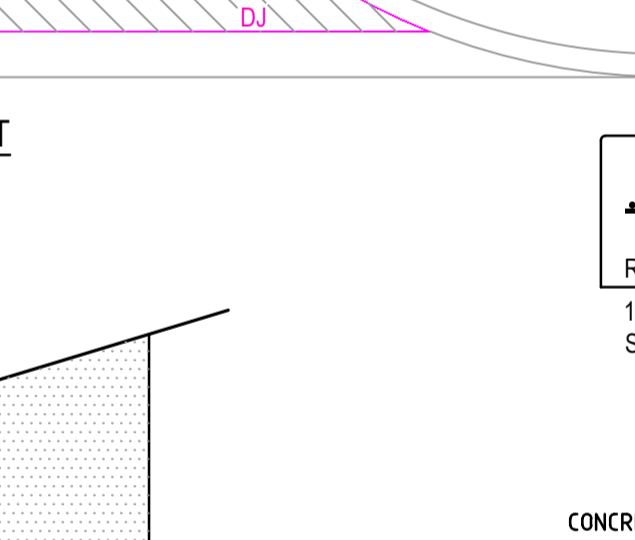
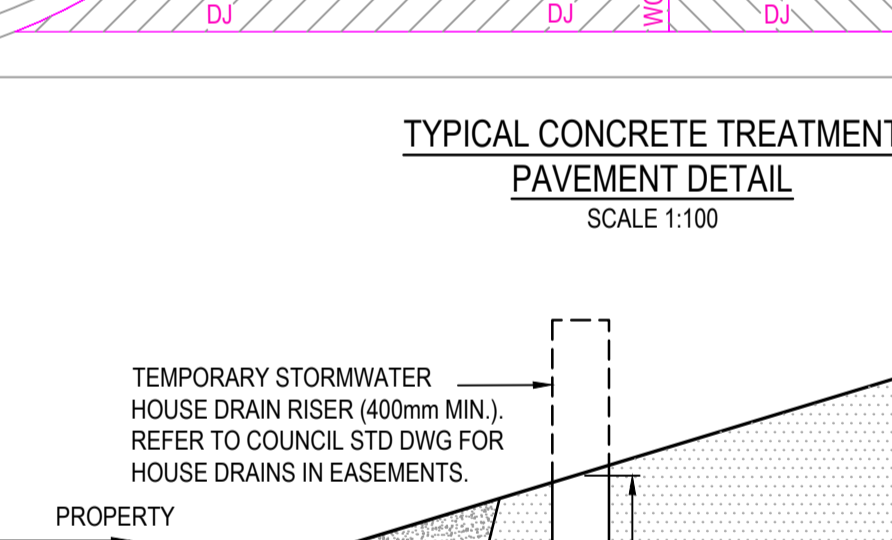
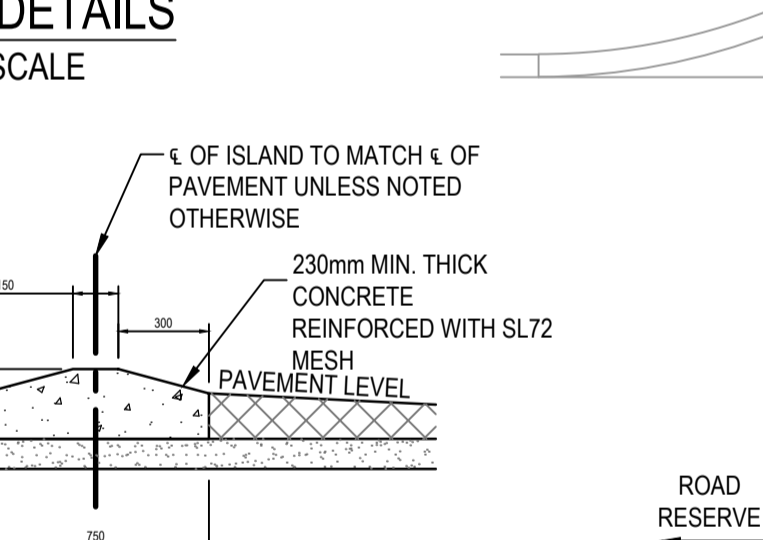
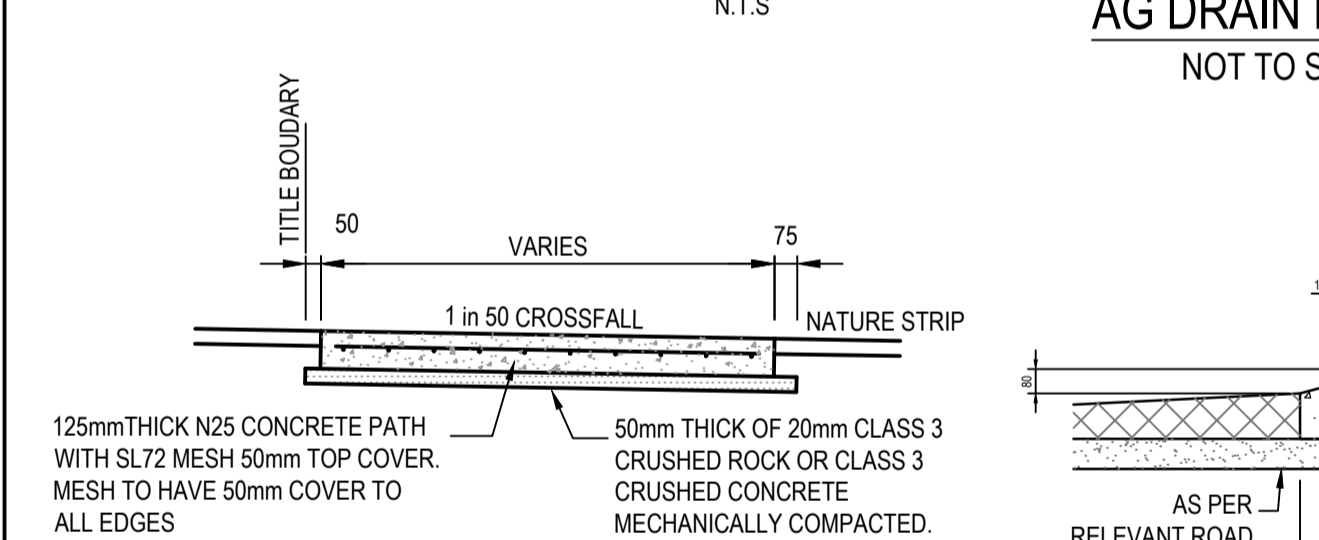
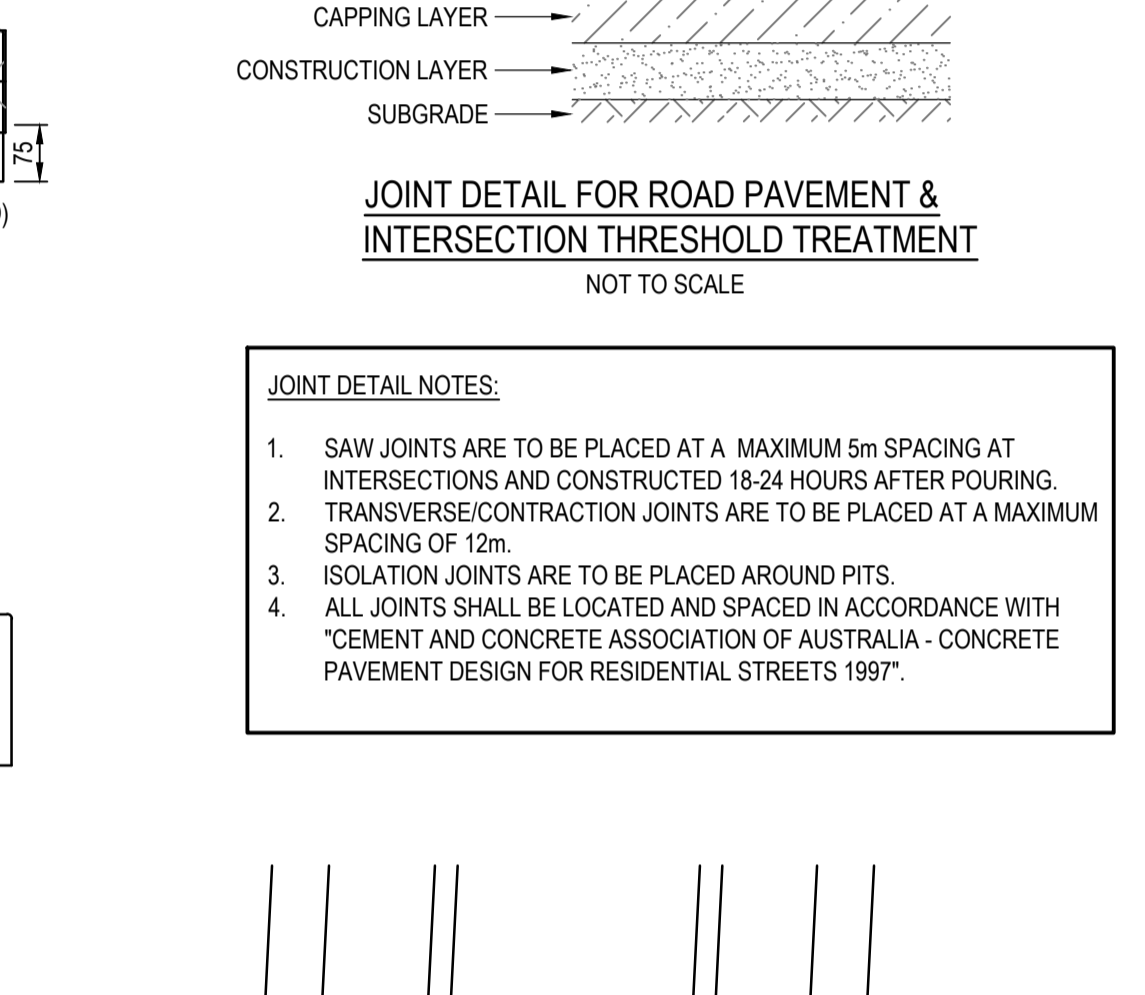
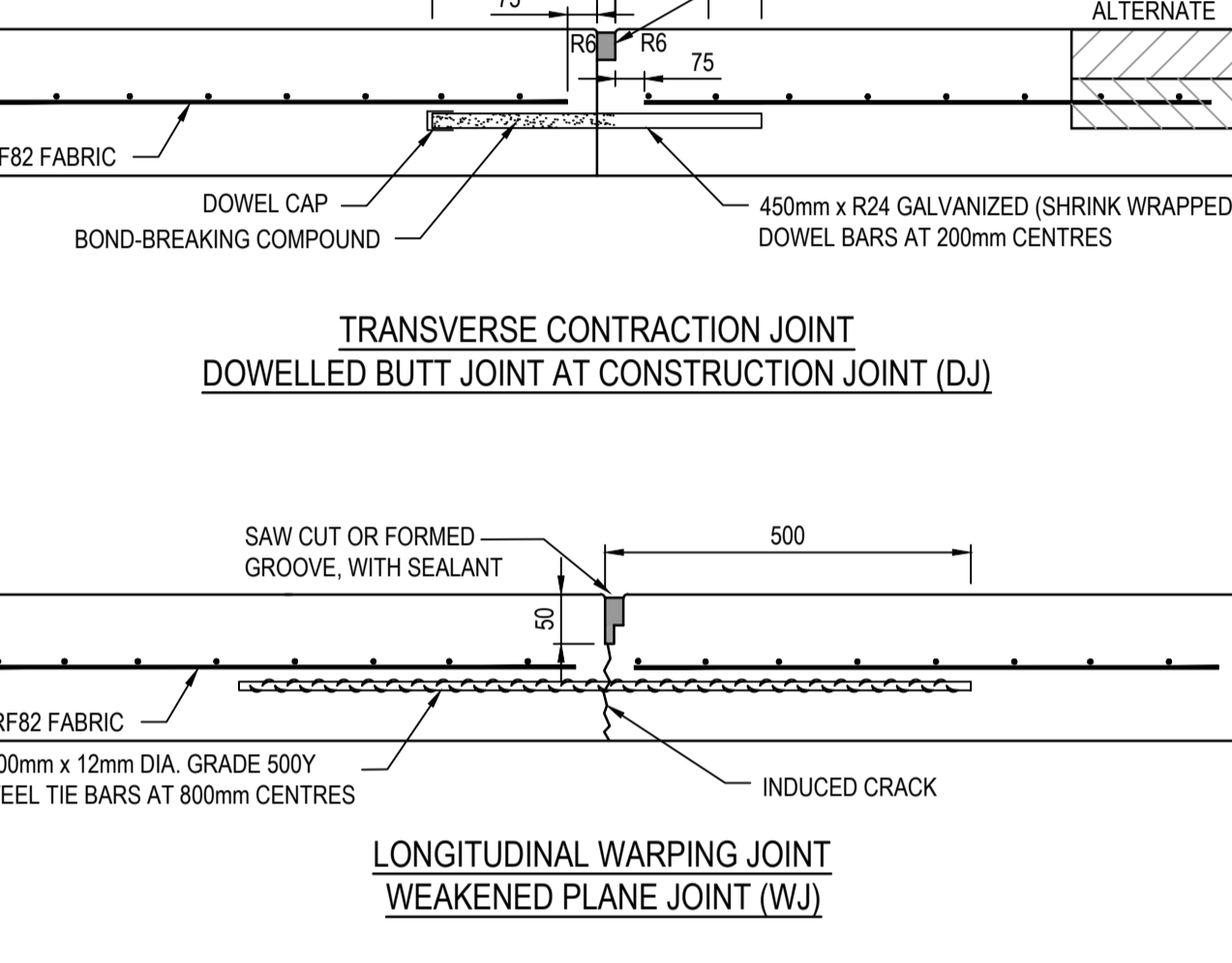
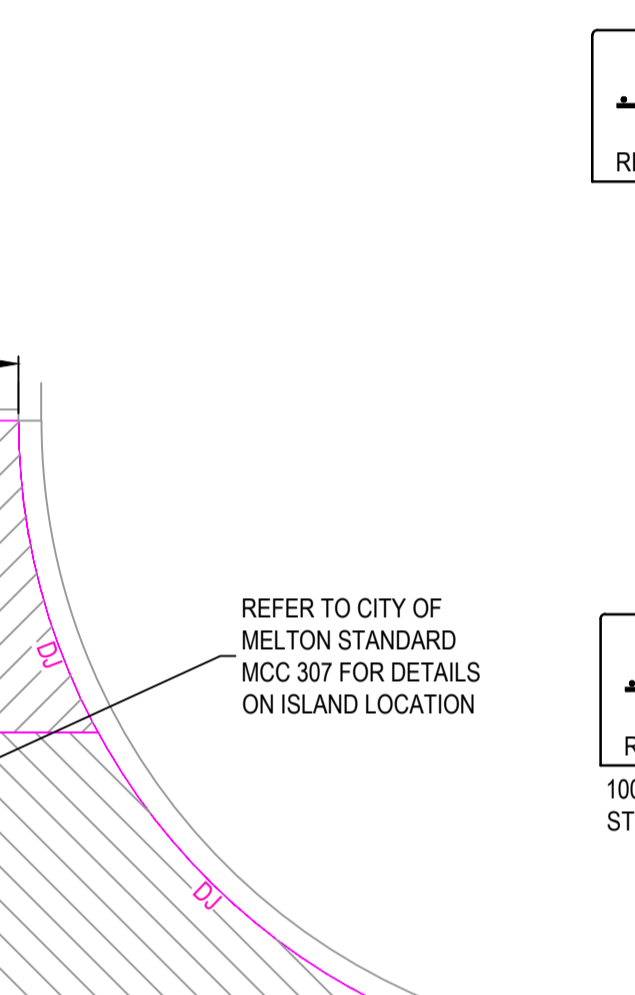
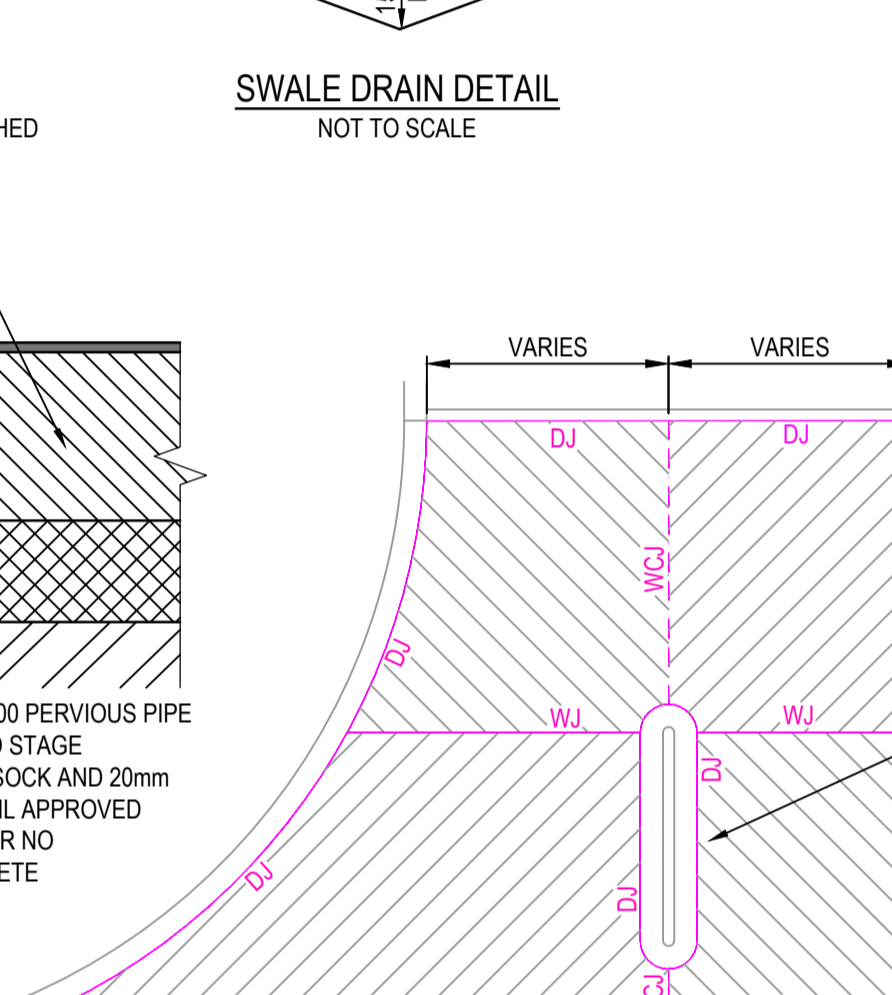
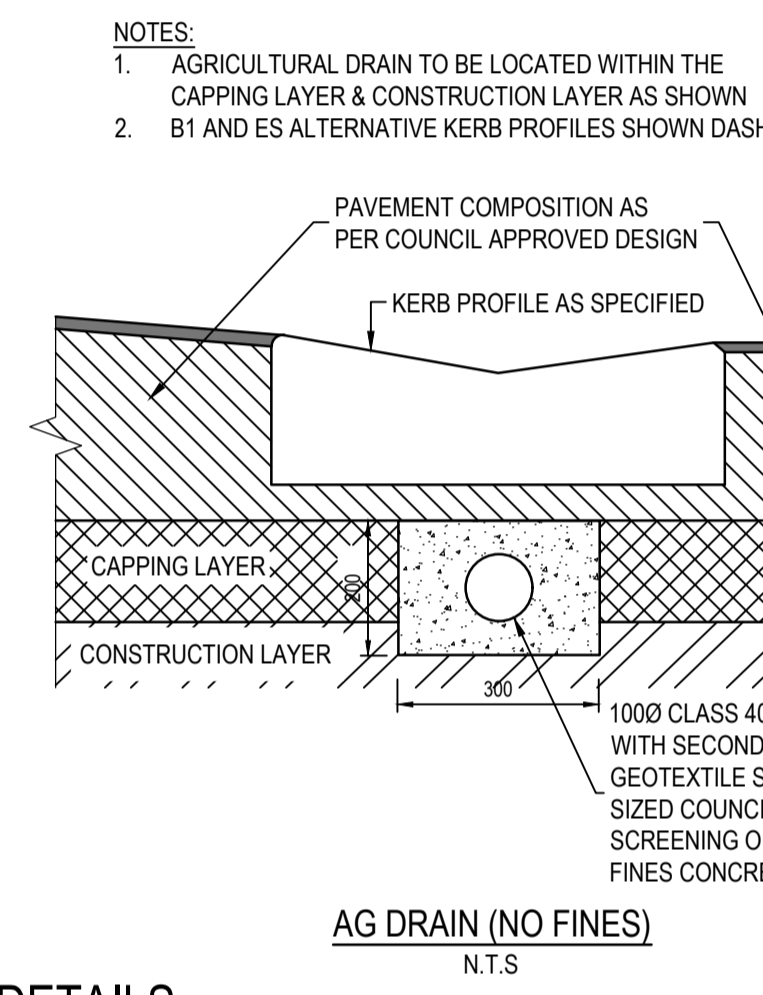
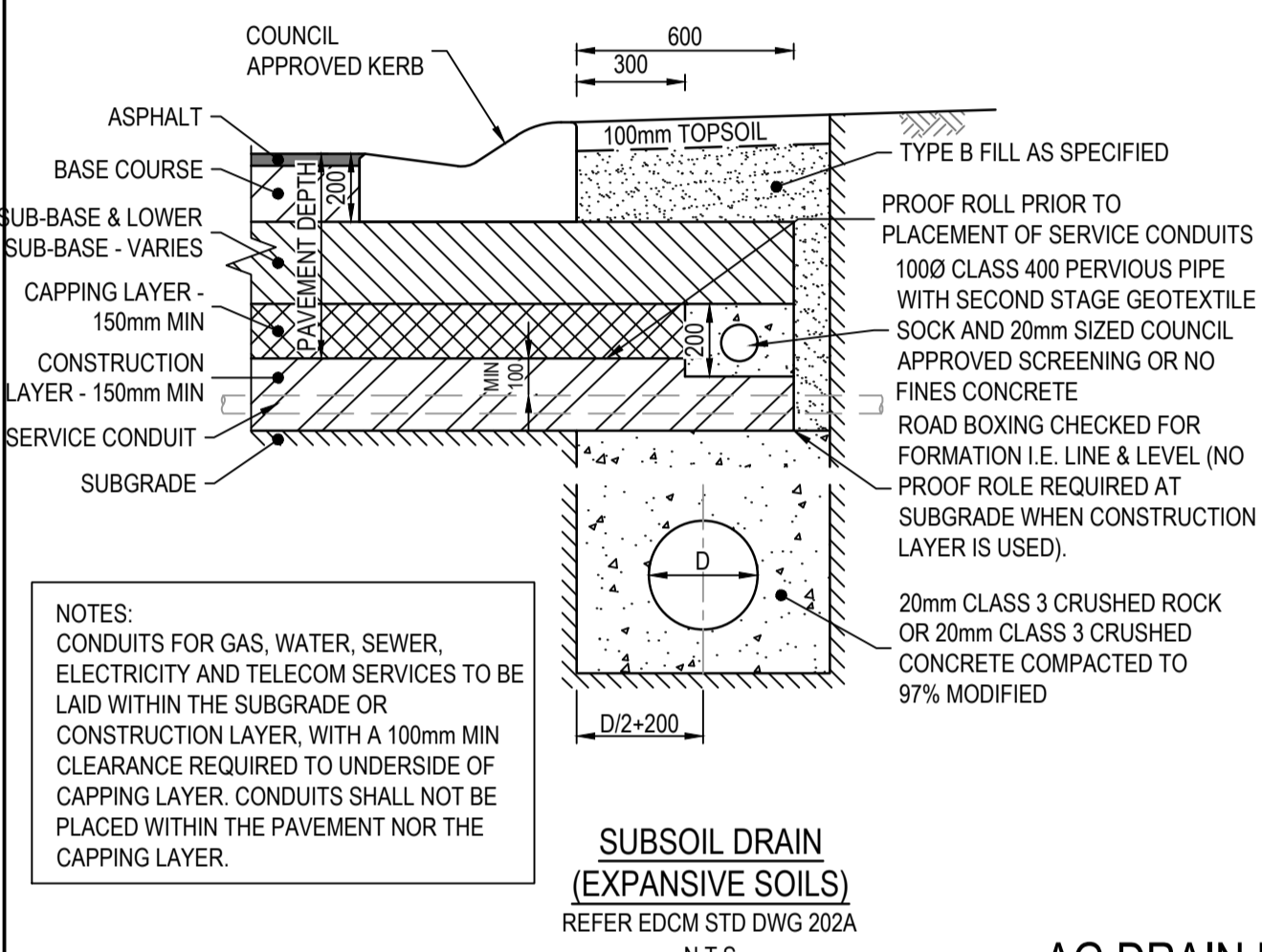
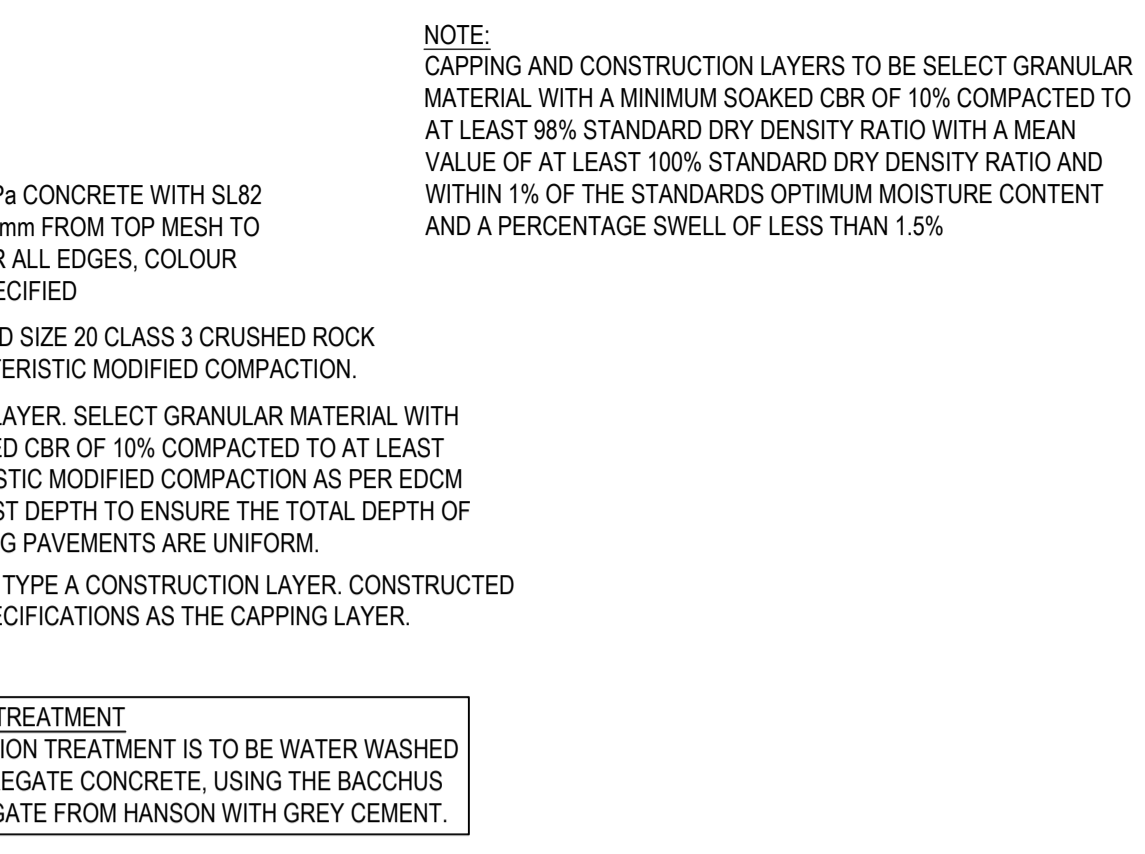
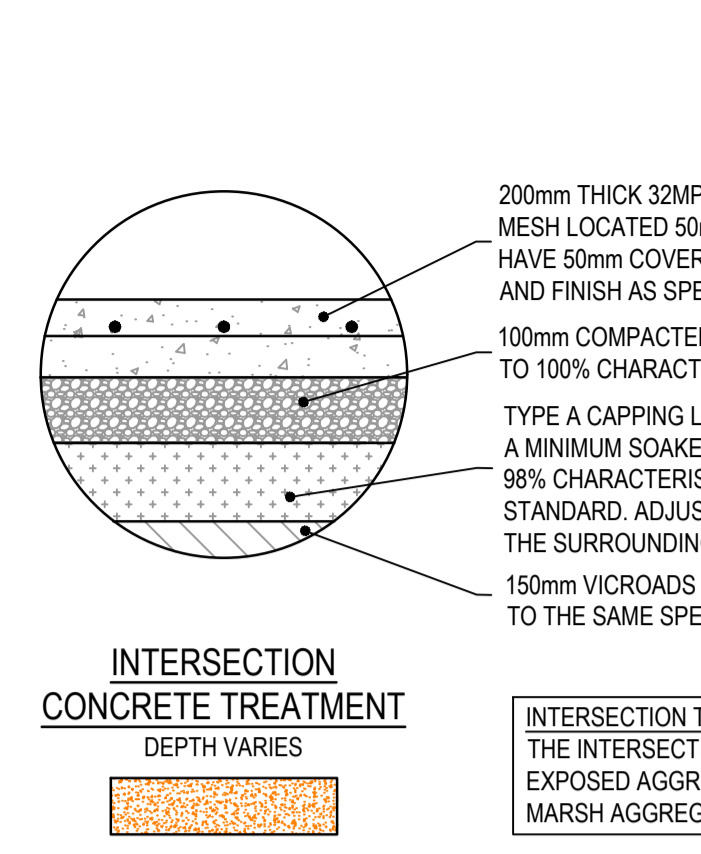
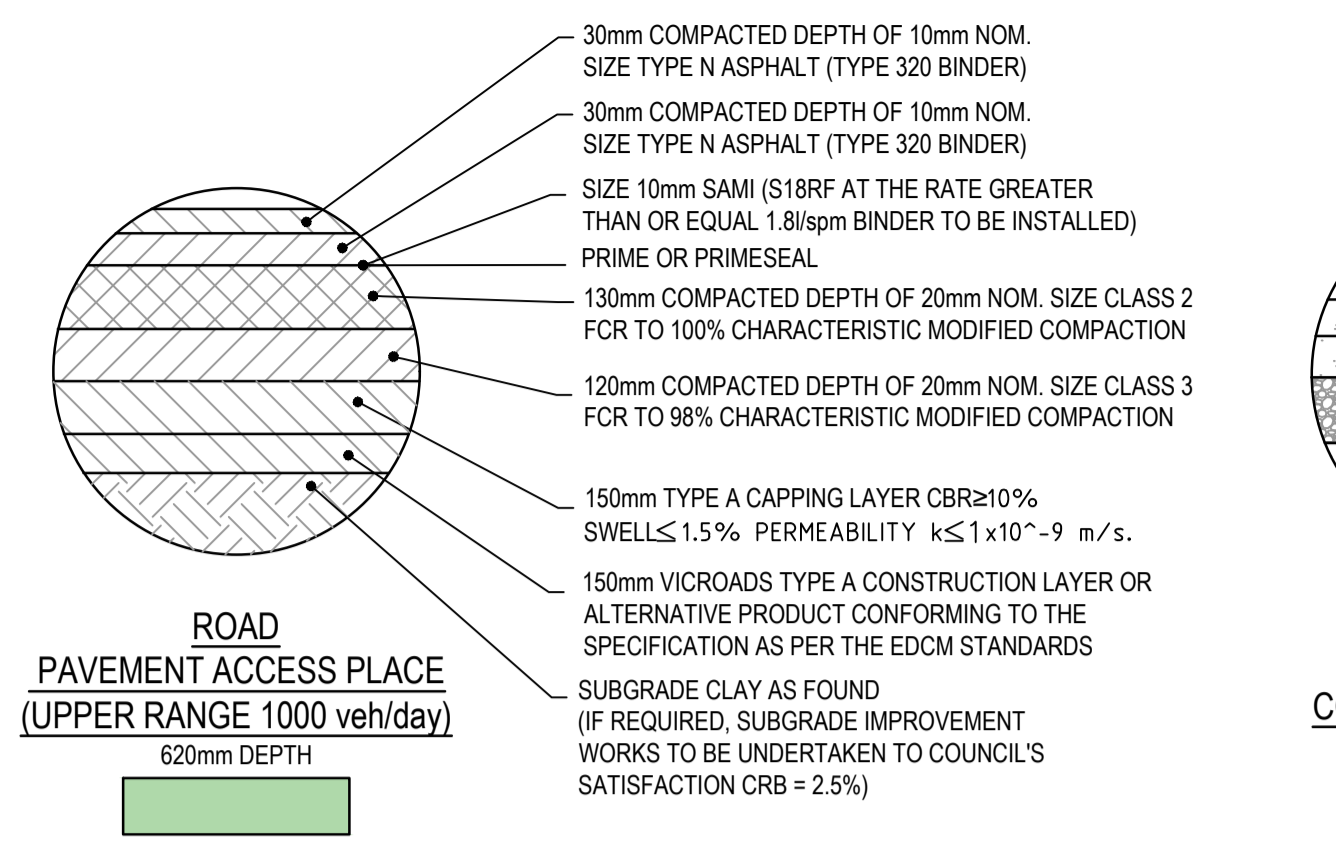
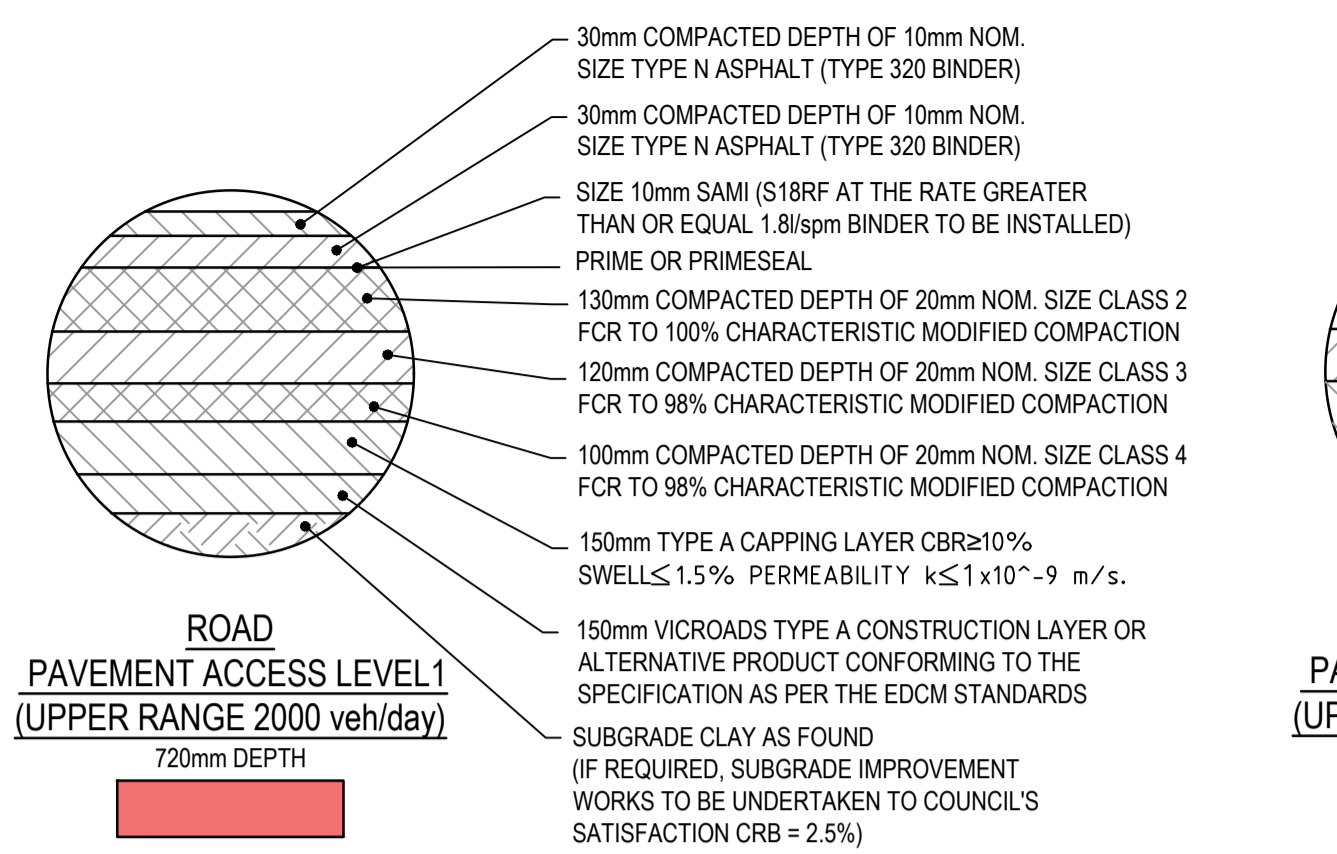
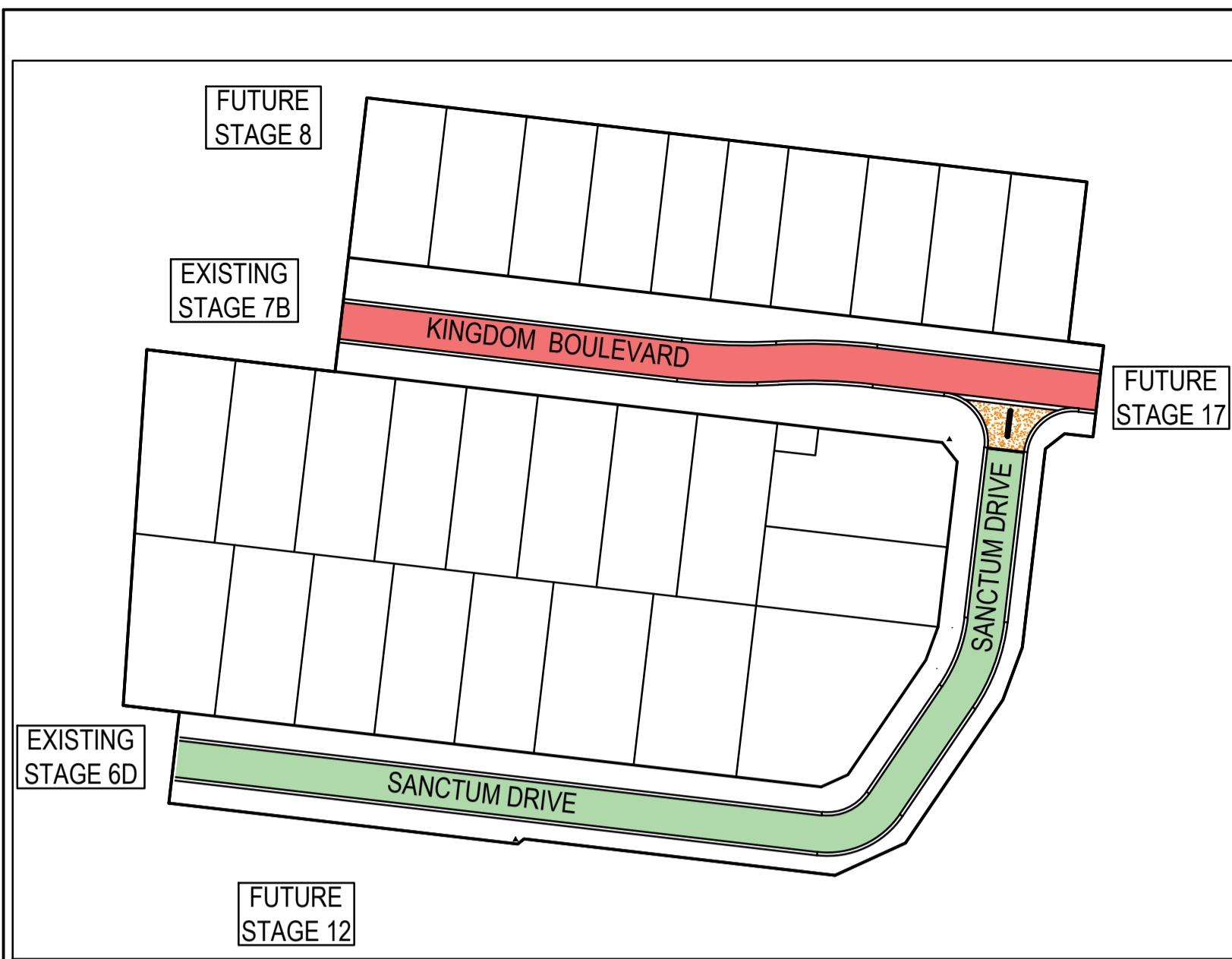
SCALE AS SHOWN AT A1



SEVENTH BEND

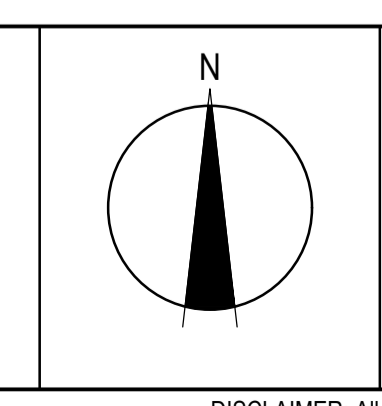
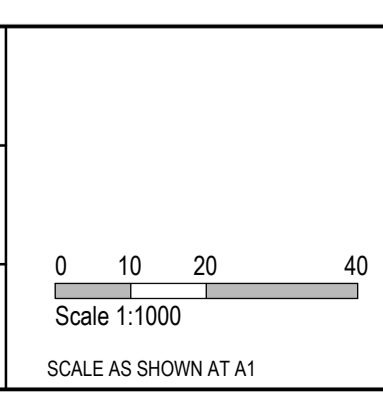
Seventh Bend - Stage 16
Melton City Council
Road and Drainage
Pit Schedule

MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-016-351	SHEET No. 14 of 19	REVISION 0
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AS CONSTRUCTED PLANS
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Quality Management ISO 9001
OHS Management AS/NZS 4501
Environmental Management ISO 14001
PLAN OF SUB. NO. PS841628K
PERMIT REF. NO. PA2018/6160
ISSUED FOR CONSTRUCTION



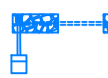

SMEC
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SEVENTH BEND

Seventh Bend - Stage 16
Melton City Council
Road and Drainage
Pavement, Concrete & General Details

MELWAYS REF: 342 K7
PROJECT / DRAWING No: 2250E-016-411
SHEET No: 15 of 19
REVISION: 0

LEGEND

-  KERB INLET DIVERSION PASSIVE STREET TREE IRRIGATION (900mm REDUCED TREE OFFSET) - REFER TO SHEET 414 FOR DETAILS
-  TREE LOCATION - REFER TO LANDSCAPING PLANS FOR DETAIL



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

AS CONSTRUCTED PLANS

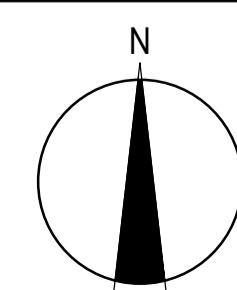
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PLAN OF SUB. NO.
 PS841628K
 PERMIT REF. NO.
 PA2018/6160

ISSUED FOR CONSTRUCTION

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 Scale 1:500
 SCALE AS SHOWN AT A1

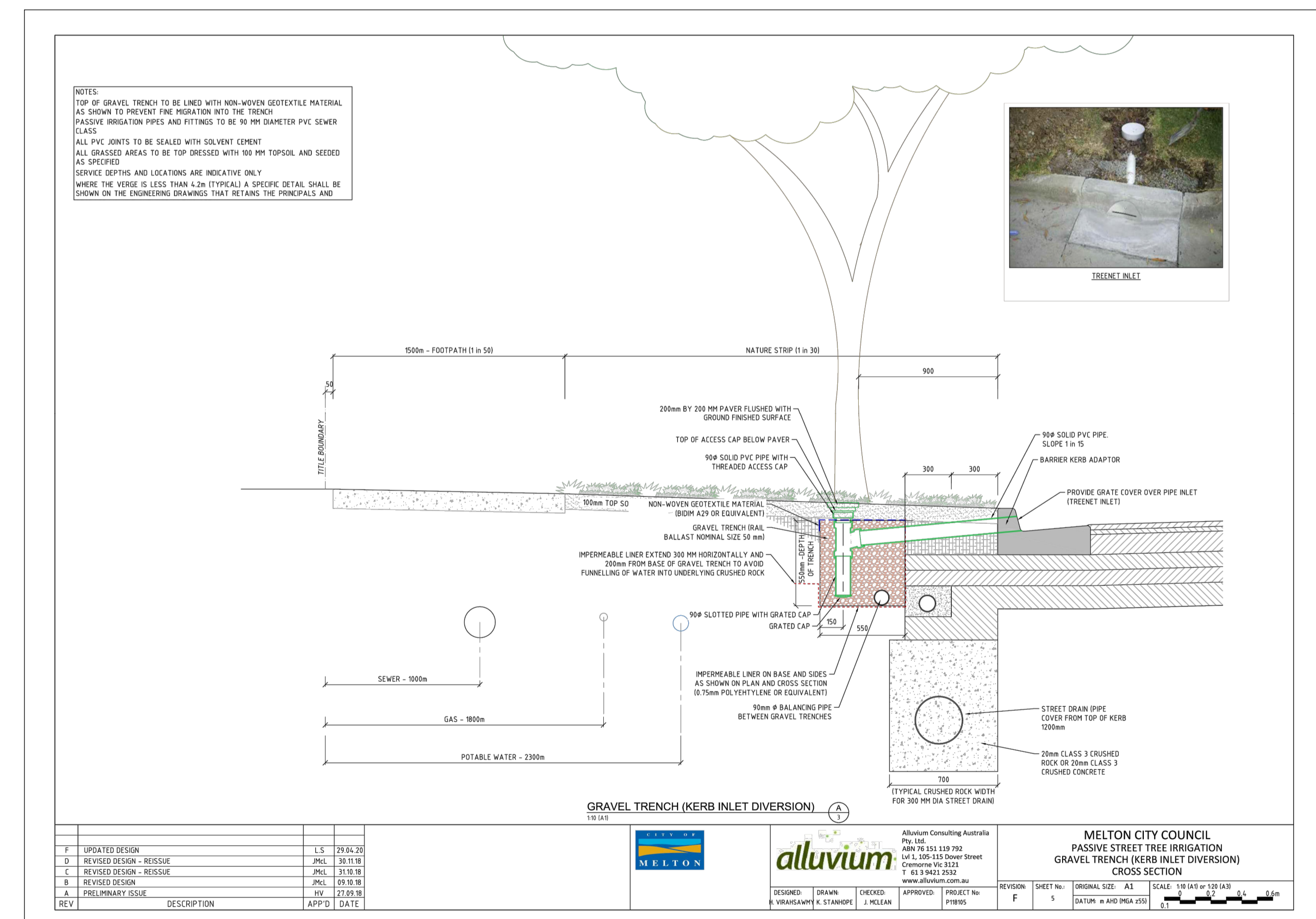
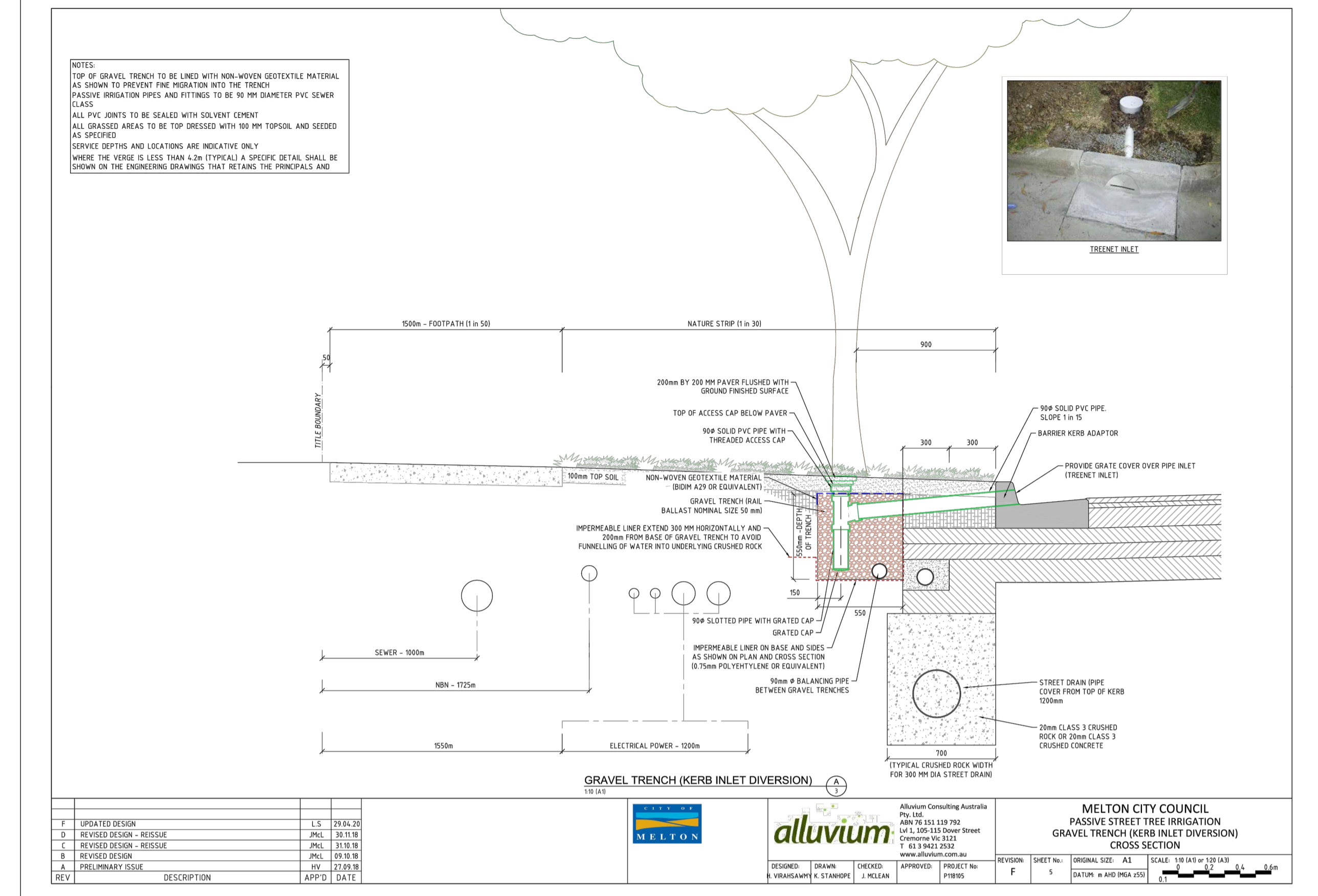
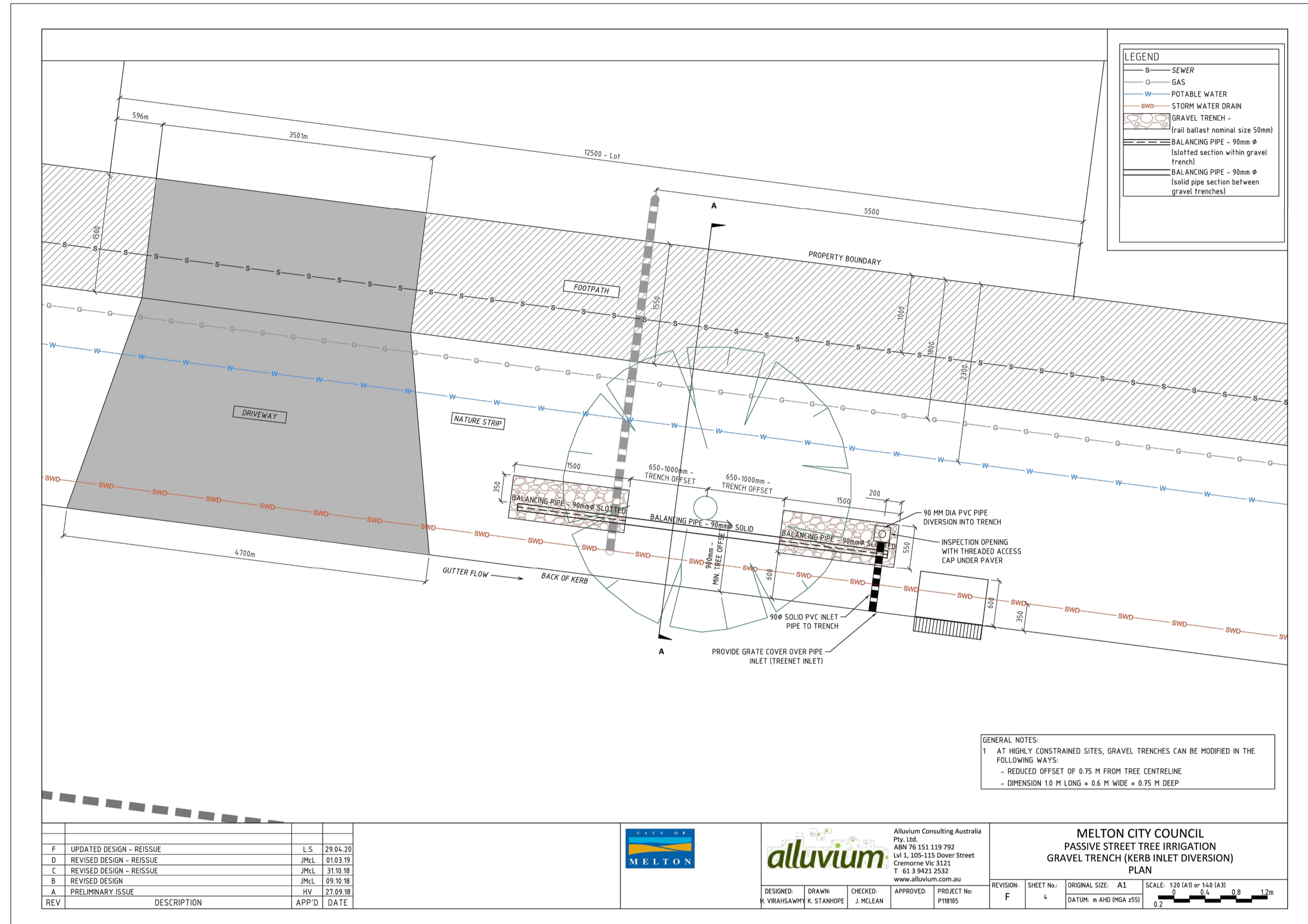


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SEVENTH BEND

Seventh Bend - Stage 16
 Melton City Council
 Road and Drainage
 Passive Irrigation System Plan

MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-016-412	SHEET No. 16 of 19	REVISION 0
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AS CONSTRUCTED PLANS

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PLAN OF SUB. NO. PS841628K
 PERMIT REF. NO. PA2018/6160
FOR CONSTRUCTION

SCALE AS SHOWN AT A1

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SEVENTH BEND

Seventh Bend - Stage 16
 Melton City Council
 Road and Drainage
 Passive Irrigation Detail - 2

MELWAYS REF	PROJECT / DRAWING No	SHEET No	REVISION
342 K7	2250E-016-414	18 of 19	0

PHASE	DISCIPLINE CODE		RISK REGISTER -Construction- Operations- Maintenance POTENTIAL RISK		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
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	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
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 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	Road Authority
Operational	RW	Retaining Walls	Retaining Wall Height	Potential for falling from height	Road Authority	Personal injury	Provide temporary and permanent fencing at top of wall.	Provide fencing (at heights) during design process	N	1	5	5	Road Authority
Operational	RW	Retaining Walls	Retaining Wall Design	Potential for wall failure	Road 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	Road 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 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
Construction/Maintenance	DR	Drainage	Outlet / Swale Construction / Maintenance	Drainage outlet and swale drain will be constructed in steep terrain towards Toolern Creek	Contractor	Personal injury / Fall	Provide safe working conditions for maintenance. Access as approved by authority	Design pit in location for easy access as agreed with authority	N	3	4	12	Constructor
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
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

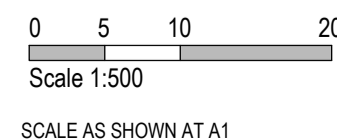
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SEVENTH BEND

Seventh Bend - Stage 16
Melton City Council
Road and Drainage
Safety In Design

MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-016-500	SHEET No. 19 of 19	REVISION 0
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