

GENERAL NOTES

AUTHORITY WORKS INSPECTIONS

1. THE CONTRACT SUPERINTENDENT OR THEIR REPRESENTATIVE SHALL BE NOTIFIED 24 HOURS BEFORE ANY INSPECTION IS DUE FOR ALL WORKS INSPECTIONS BY COUNCIL AND 5 WORKING DAYS FOR WATER AUTHORITY.

WORKS VARIATIONS

2. THE CONTRACTOR SHALL NOT UNDERTAKE ANY WORK WHICH MAY LEAD TO A CLAIMABLE VARIATION(S) WITHOUT PRIOR APPROVAL OF THE CONTRACT SUPERINTENDENT.

CONTRACTOR RESPONSIBILITIES

3. COUNCIL IS TO BE NOTIFIED SEVEN (7) CLEAR WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORKS WITH A PRECOMMENCEMENT MEETING BEING HELD BETWEEN COUNCIL, THE CONSULTANT AND THE CONTRACTOR BEFORE WORKS COMMENCE. A SITE MANAGEMENT PLAN IS TO BE SUBMITTED PRIOR TO COMMENCEMENT OF WORKS.
4. ALL WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH GROWTH AREA'S AUTHORITY (GAA) STANDARD DRAWINGS AND SPECIFICATIONS, THE APPROVED SET OF CONSTRUCTION PLANS, AND TO THE SATISFACTION OF THE SUPERINTENDENT. IN THE EVENT OF ANY DISCREPANCY THE CONTRACTOR IS TO SEEK CLARIFICATION FROM THE SUPERINTENDENT.
5. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT.
6. THE CONTRACTOR IS REQUIRED TO CONFINe ALL CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE REINSTATED.
7. AT THE COMPLETION OF ALL WORKS, ALL RUBBISH, DEBRIS AND SURPLUS SPOIL SHALL BE REMOVED FROM THE SITE AND THE SITE SHALL BE CLEANED TO THE SATISFACTION OF THE SUPERINTENDENT.
8. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY WARNING SIGNS, LIGHTING AND BARRICADES TO COMPLY WITH THE REQUIREMENTS OF THE ROAD TRAFFIC REGULATIONS.

SURVEYING AND SETTING OUT

9. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
10. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
11. ALL CO-ORDINATES ARE TO AUSTRALIAN MAP GRID (AMG).
12. ALL ROAD CHAINAGES REFER TO ROAD RESERVE CENTRELINES EXCEPT FOR KERB RETURNS AND COURT HEADS WHERE CHAINAGES REFER TO LIP OF KERB.
13. KERB RETURN RADII ARE GIVEN TO LIP OF KERB, UNLESS SHOWN OTHERWISE.
14. TBM'S TO BE RE-ESTABLISHED BY THE PRINCIPALS LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF TBM'S THEREAFTER.
15. AN ELECTRONIC COPY OF THE DESIGN DRAWINGS WILL BE MADE AVAILABLE TO THE CONTRACTOR FOR THE PURPOSE OF SETTING OUT.
16. THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURES / FENCES AND FOR ANY RETAINING WALLS OVER 1.0m IN HEIGHT.

EARTHWORKS AND EXCAVATION

- EXCESS TOPSOIL SHALL BECOME PROPERTY OF THE PRINCIPAL AND STORED AT THE CENTRAL TOPSOIL STOCKPILE AS DIRECTED BY THE SUPERINTENDENT. NO TOPSOIL SHALL BE REMOVED FROM SITE WITHOUT SPECIFIC APPROVAL OF THE SUPERINTENDENT.
18. PRIOR TO COMMENCEMENT OF THE WORKS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION:
- a) SOURCE OF QUARRY MATERIAL
 - b) N.A.T.A. APPROVED TESTS RESULTS FOR THE F.C.R. THAT IS TO BE USED
 - c) IF THE SOURCE OF THE QUARRY MATERIAL IS CHANGED DURING THE COURSE OF THE WORKS, THEN NEW TEST RESULTS SHALL BE PROVIDED.
19. PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 AND OCCUPATIONAL HEALTH AND SAFETY REGULATIONS 2017 HAVE BEEN AND WILL BE COMPLIED WITH.
20. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UNDERGROUND SERVICES PRIOR TO COMMENCING EXCAVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING SERVICE AUTHORITIES PRIOR TO COMMENCING ANY WORKS ON SITE.
21. WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE EXPOSED AND PROVED PRIOR TO COMMENCEMENT OF WORKS, AND THE RELEVANT AUTHORITIES NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO THE COMMENCEMENT OF THE WORKS.
22. THE CONTRACTOR SHALL:
- a. COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT 1958, AND THE MINES (TRENCHES) REGULATIONS 1982.
 - b. NOTIFY WORKSAFE VICTORIA OF THEIR INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
 - c. ENSURE THAT THE MINE MANAGER OR THEIR DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
23. ON COMMENCEMENT OF CONSTRUCTION WORKS, THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL." APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.

24. THE CONTRACTOR 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.
25. ON-SITE BLASTING IS NOT RECOMMENDED. IF BLASTING IS REQUIRED THEN THE CONTRACTOR IS TO NOTIFY THE SUPERINTENDENT AND COUNCIL IN WRITING, AND OBTAIN ALL REQUIRED PERMITS AND LICENSES. BLASTING IS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT REGULATIONS, DANGEROUS GOODS (EXPLOSIVES) REGULATIONS 2000 AND WORKSAFE VICTORIA REQUIREMENTS.
26. THE CONTRACTOR IS TO PROVIDE DETAILS IN WRITING OF THE DISPOSAL SITE FOR EXCESS SPOIL INCLUDING THE TRUCK ROUTE AND SUBMIT TO COUNCILS REPRESENTATIVE FOR APPROVAL PRIOR TO THE COMMENCEMENT OF ANY WORKS.
27. ALL FILLING AREAS IN EXCESS OF 150mm DEPTH TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINISHED SURFACE LEVELS AS SHOWN ON PLANS. ALL FILLING TO BE COMPACTED IN 150mm EQUAL LAYERS TO 95% AUSTRALIAN DRY DENSITY. FILLING IS TO BE TESTED TO THE SATISFACTION OF THE COUNCIL AND TEST RESULTS OF EACH LAYER AND IN EACH LOT TO BE SUBMITTED TO COUNCIL. ALL FILLING TO BE DONE UNDER LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-2007
28. FILLING TO COMPLY WITH A.S3798-2007, 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'.
29. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO 448 (MAY 2007) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL IF REQUIRED PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERINTENDENT AND COUNCILS REPRESENTATIVE.
30. EXISTING DAMS, CHANNELS AND SWALES ARE TO BE BREACHED, DRAINED, DESLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. FILL TO BE PLACED AND COMPACTED AS SPECIFIED AND TO LEVEL 1 SUPERVISION (AS3798-2007)

EXISTING TREES

31. ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY COUNCILS REPRESENTATIVE.
32. WHERE, AS A CONDITION OF THE PLANNING PERMIT OR AS A RESULT OF THE PRE-CONSTRUCTION MEETING, FENCING OF AREAS CONTAINING TREES, NATIVE GRASSES AND SHRUBS IS REQUIRED, A THREE STRAND STAR PICKET AND WIRE FENCE SHALL BE CONSTRUCTED.
33. NO EXCAVATION SHALL BE UNDERTAKEN WITHIN 5m OF ANY EXISTING TREE WITHOUT THE APPROVAL OF THE SUPERINTENDENT.
34. LOPPING OF BRANCHES ON PRESERVED TREES TO BE DIRECTED BY SUPERINTENDENT.
35. TREES MARKED ON PLANS FOR REMOVAL MUST BE REMOVED FROM THE SITE PRIOR TO THE COMMENCEMENT OF WORKS. APPROVAL FROM COUNCILS REPRESENTATIVE SHOULD BE OBTAINED PRIOR. ANY TREES REMOVED, VEGETATION OR OTHER MATERIALS ARE NOT TO BE BURNT ON SITE.

EXISTING INFRASTRUCTURE

36. ANY EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE SUPERINTENDENT AND COUNCILS REPRESENTATIVE.
37. WHERE NEW ASPHALT, CONCRETE K & C. PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY.
38. ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE.
39. ALL EXISTING AUTHORITY ASSETS AFFECTED BY THE WORKS, SHALL BE REINSTATED BY THE CONTRACTOR PRIOR TO THE COMPLETION OF THE WORKS AND TO THE SATISFACTION OF THE ASSET OWNER.
40. WHERE IT IS INTENDED TO INSTALL SERVICES OR OTHER EQUIPMENT UNDER EXISTING PAVEMENTS, THE CONTRACTOR SHALL OBTAIN A PERMIT AND PAY ANY FEES, FROM THE COUNCIL OR OTHER ROAD AUTHORITY PRIOR TO UNDERTAKING ANY EXCAVATION.

SERVICES

- 4.1. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- 4.2. EXISTING SEWER AND STORM WATER DRAINAGE BACK FILLING UNDER THE ROAD PAVEMENT AND BEHIND KERB AND CHANNEL (WITHIN THE ROAD RESERVATION) SHALL BE REPLACED WITH CLASS 2 CRUSHED ROCK.
- 4.3. GAS CONDUITS ARE TO BE 50mm DIA. P.V.C. PIPE CLASS SNG. WATER CONDUITS ARE TO BE 50mm DIA. P.V.C. PIPE CLASS SN8. BOTH ARE TO BE LAID AT A MINIMUM DEPTH OF 450mm BELOW ROAD SUBGRADE LEVEL UNLESS NOTED OTHERWISE.
- 4.4. CONDUITS FOR GAS AND WATER SERVICES ARE TO BE LOCATED IN THE POSITIONS SHOWN. THEY ARE TO BE PLACED AT RIGHT ANGLES TO THE KERB AND SERVICE ALIGNMENT AND ARE TO EXTEND MIN 600MM BEHIND THE BACK OF KERB. CONDUITS ARE TO BE REFERENCED IN 50mm HIGH LETTERS ON THE FACE OF KERB AND CHANNEL.
- 4.5. GAS AND WATER CONDUITS ARE TO BE LAID WITH THE FOLLOWING MIN. COVER TO FINISHED SURFACE LEVELS: UNDER ROADS- 450mm BELOW ROAD SUBGRADE LEVEL ELSEWHERE - 600mm.
- 4.6. WATER TAPPINGS FOR LOTS SITUATED ON THE SAME SIDE OF THE WATER MAIN ARE TO BE LOCATED 16m FROM THE PROPERTY BOUNDARY OF THE LOT UNLESS NOTED OTHERWISE. THE KERB IS TO BE MARKED "W" WITH AN ARROW POINTING TO THE TAPPING.
- 4.7. REFER TO THE TELECOMMUNICATIONS DRAWINGS (BY OTHERS) FOR DETAILS ON CONDUITS AND TRENCHING.
- 4.8. REFER TO THE ELECTRICAL AND LIGHTING DRAWINGS (BY OTHERS) FOR DETAILS ON CONDUITS AND TRENCHING.
- 4.9. ALL SERVICE CONDUITS TRENCHES UNDER ROAD PAVEMENTS ARE TO BE BACKFILLED WITH 20MM 3% CEMENT TREATED CLASS 3 CRUSHED ROCK COMPACTED TO A DENSITY NOT LESS THAN 98% OF THE MAXIMUM DRY DENSITY.

VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.1.1-2003

50. ALL FIRE HYDRANTS ARE TO BE MARKED IN ACCORDANCE WITH "IDENTIFICATION OF STREET HYDRANTS FOR FIREFIGHTING PURPOSES" PUBLICATION (DEVELOPED BY C.F.A, M.F.E.S.B & N.R.E). MARKINGS TO BE VIA BLUE RAISED REFLECTIVE PAVEMENT MARKER AND A MARKER POST.

DRAINAGE

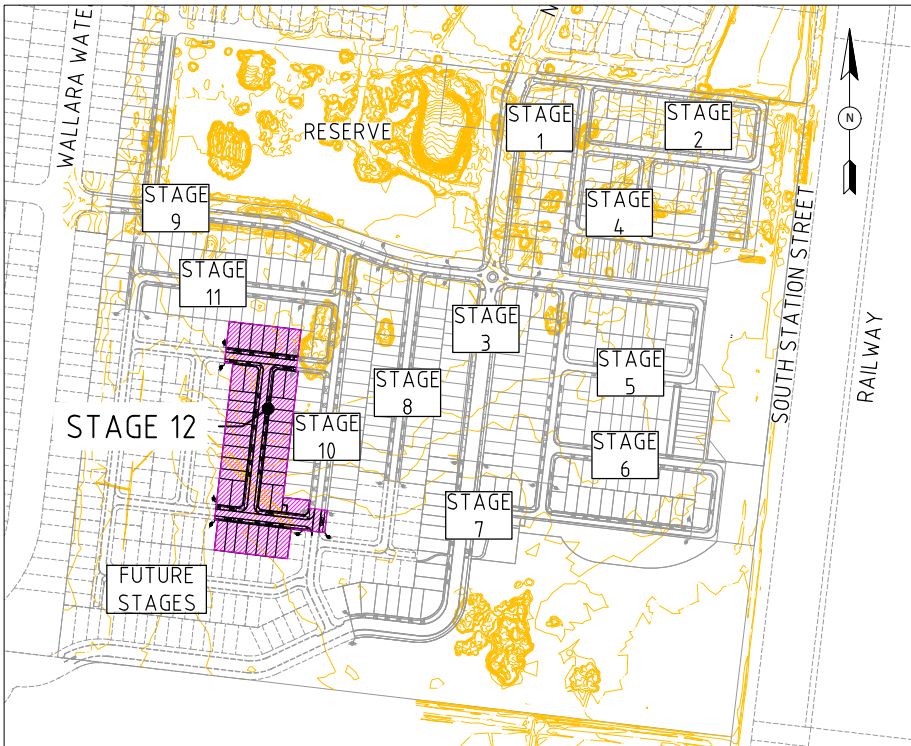
51. WHERE CURVED PIPES ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED.
52. ALL STORMWATER DRAINS ARE TO BE CLASS 2 R.C. OR RIGID F.R.C PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. ALL PIPES UP TO AND INCLUDING 750mm DIA. ARE TO BE RUBBER RING JOINTED, INTERLOCKING / FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 750mm DIA.
53. ALL DRAINS LAID UNDER ROAD PAVEMENT AND BEHIND KERB AND CHANNEL, TRENCH SHALL BE BACKFILLED WITH 20mm CLASS 3 F.C.R. COMPACTED TO 98% MODIFIED AS PER GAA STANDARD DRAWINGS.
54. WHERE STORMWATER DRAINS ARE LAID UNDER DRIVEWAYS AND FOOTPATHS, TRENCH SHALL BE BACKFILLED WITH 20mm CLASS 3 FCR COMPACTED TO 98% MODIFIED.
55. PROPERTY INLET PITS ARE TO BE LOCATED 1.0m FROM LOW SIDE BOUNDARY UNLESS OTHERWISE SHOWN. INVERT LEVEL OF PROPERTY INLET IS TO BE A MINIMUM OF 500mm BELOW FINISHED/EXISTING SURFACE LEVEL.
56. AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH GAA STANDARD DRAWINGS.
57. ALL TABLE DRAINS AND VERGES ARE TO BE REINSTATED UPON COMPLETION OF WORKS TO THE SATISFACTION OF COUNCIL.
58. FOR ALL DRAINAGE PITS, REFER TO GAA STANDARD DRAWINGS UNLESS NOTED OTHERWISE.
59. PROPERTY CONNECTIONS ARE TO BE LOCATED 5.0m FROM BOUNDARY UNLESS OTHERWISE SHOWN. PROPERTY CONNECTIONS ARE TO BE 100mm DIAMETER AND BACKFILLED WITH 20mm CLASS 3 F.C.R. TO 150mm ABOVE TOP OF PIPE IN ALL LOCATIONS. PIPES TO EXTEND 0.5m INTO PROPERTY AND ARE TO HAVE 0.8m COVER.

CONCRETE WORKS

60. GENERALLY (SM2) KERB AND CHANNEL IS TO BE POURED THROUGHOUT THE SUBDIVISION. WHERE OTHER KERB TYPES ARE REQUIRED THEY ARE TO BE SPECIFICALLY SHOWN ON THE DRAWINGS.
61. FOOTPATHS ARE TO BE 50mm OFFSET FROM TITLE BOUNDARIES UNLESS NOTED OTHERWISE. VEHICLE CROSSING ALIGNMENTS ARE GENERALLY TO BE PARALLEL TO THE SIDE BOUNDARY.
62. ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE IN ACCORDANCE WITH G.A.A. STANDARD DRAWINGS AND SPECIFICATION, UNLESS OTHERWISE SPECIFIED.
63. ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SAND-BLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED.
64. CONCRETE STRENGTH SHALL BE A MINIMUM OF 25MPA AT 28 DAYS UNLESS OTHERWISE NOTED.
65. TRANSITION BETWEEN DIFFERENT KERB PROFILES SHALL BE OVER 3m IF THEY CANNOT BE INCORPORATED INTO A PRAM CROSSING OR DRIVEWAY CROSSING.
66. WHERE TACTILE GROUND SURFACE INDICATORS ARE REQUIRED THEY SHALL BE CONSTRUCTED IN ACCORDANCE WITH VICROADS STANDARD DRAWINGS SD2031 & SD2032. TACTILE GROUND SURFACE INDICATORS MUST CONFORM TO AS1428.4 AND BE APPROVED BY COUNCIL.

PAVEMENTS

67. WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL, AND CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 98% AUSTRALIAN STANDARD DENSITY.
 68. WEARING COURSE TO BE CONSTRUCTED 5mm ABOVE LIP OF KERB AND CHANNEL.
 69. THE CONTRACTOR SHALL CO-OPERATE WITH OTHER AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE.
 70. PAVEMENT DEPTH SPECIFIED IS A MINIMUM DEPTH AND MAY BE VARIED BY THE SUPERINTENDENT AND/OR COUNCIL'S REPRESENTATIVE. SOFT SPOTS SHALL BE EXCAVATED TO A PROOF ROLLED BASE AND BACKFILLED WITH APPROVED MATERIAL COMPACTED IN 150mm LAYERS TO ACHIEVE A DENSITY NOT LESS THAN 98% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.1.1-2003.
 71. PAVEMENT SUB-BASE AND BEDDING TO KERB AND CHANNEL IS TO BE INSTALLED AS PER GAA STANDARDS.
- TRAFFIC MANAGEMENT
72. ALL TRAFFIC CONTROL MEASURES, SIGNS AND LINEMARKING SHALL BE IN ACCORDANCE WITH A.S.1742 - 1, 2 & 3. LINEMARKING TO BE CARRIED OUT USING THERMOPLASTIC PAINT.
 73. STREET NAME SIGNS ARE TO BE IN ACCORDANCE WITH COUNCIL STANDARD DRAWING AND SPECIFICATION.
 74. ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND TO COMPLY WITH THE REQUIREMENTS OF A.S.1743 - 2001.
- LANDSCAPING
75. RESERVES TO BE LEFT IN A CONDITION SATISFACTORY TO COUNCIL'S LANDSCAPE ARCHITECT.
 76. TOPSOILING WORKS ARE TO BE PREPARED AS SPECIFIED FOR HAND OVER TO THE LANDSCAPING CONTRACTOR.
 77. SOFT SPOTS, WHERE DIRECTED BY COUNCIL'S LANDSCAPE ARCHITECT ARE TO BE EXCAVATED AND BACKFILLED WITH SPECIFIED MATERIALS.
 78. ALL DISTURBED AREAS, IE, NATURESTRIPS, BATTERS, ALLOTMENTS & RESERVES, ARE TO BE REINSTATED TO A CLEAN, TIDY CONDITION, TOP DRESSED 100MM LOAMY TOP SOIL FREE OF CLUMPS, SODS AND CLAY LUMPS/LAND SOWN WITH GRASS SEED. SEED IS TO BE A GENERAL PARKLAND AND NATURESTRIP BLEND AS APPROVED BY COUNCIL UNLESS OTHERWISE DETAILLED. GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD.



DRAWING INDEX		
JOB No	SHEET No	SHEET DESCRIPTION
18040-12	01	LOCALITY PLAN & GENERAL NOTES
18040-12	02	DETAIL PLAN
18040-12	03	PAVEMENT DETAILS & TYPICAL SECTIONS
18040-12	04	LONGITUDINAL SECTIONS
18040-12	05	CROSS SECTIONS - CONIFER DRIVE
18040-12	06	CROSS SECTIONS - FLAVA ROAD
18040-12	07	CROSS SECTIONS - MOONLIGHT STREET
18040-12	08	CROSS SECTIONS - SMILAX STREET
18040-12	09	INTERSECTION DETAIL PLAN
18040-12	10	DRAINAGE LONGITUDINAL SECTIONS
18040-12	11	PIT SCHEDULE
18040-12	12	SIGNAGE & LINE MARKING PLAN

SERVICE OFFSET TABLE						
STREET NAME	WATER	ND – WATER	GAS	TELCO	ELEC	POLES
CONIFER DRIVE	3.20 N	2.70 N	2.30 N	1.85 S	2.35 S	1.00m*
MOONLIGHT STREET	3.20 W	2.70 W	2.30 W	1.85 E	2.35 E	1.00m*
FLAVA ROAD	2.95 N	2.45 N	2.05 N	1.85 S	2.35 S	1.00m*
SMILAX STREET	3.20 W	2.70 W	2.30 W	2.85 E	3.45 E	1.00m*

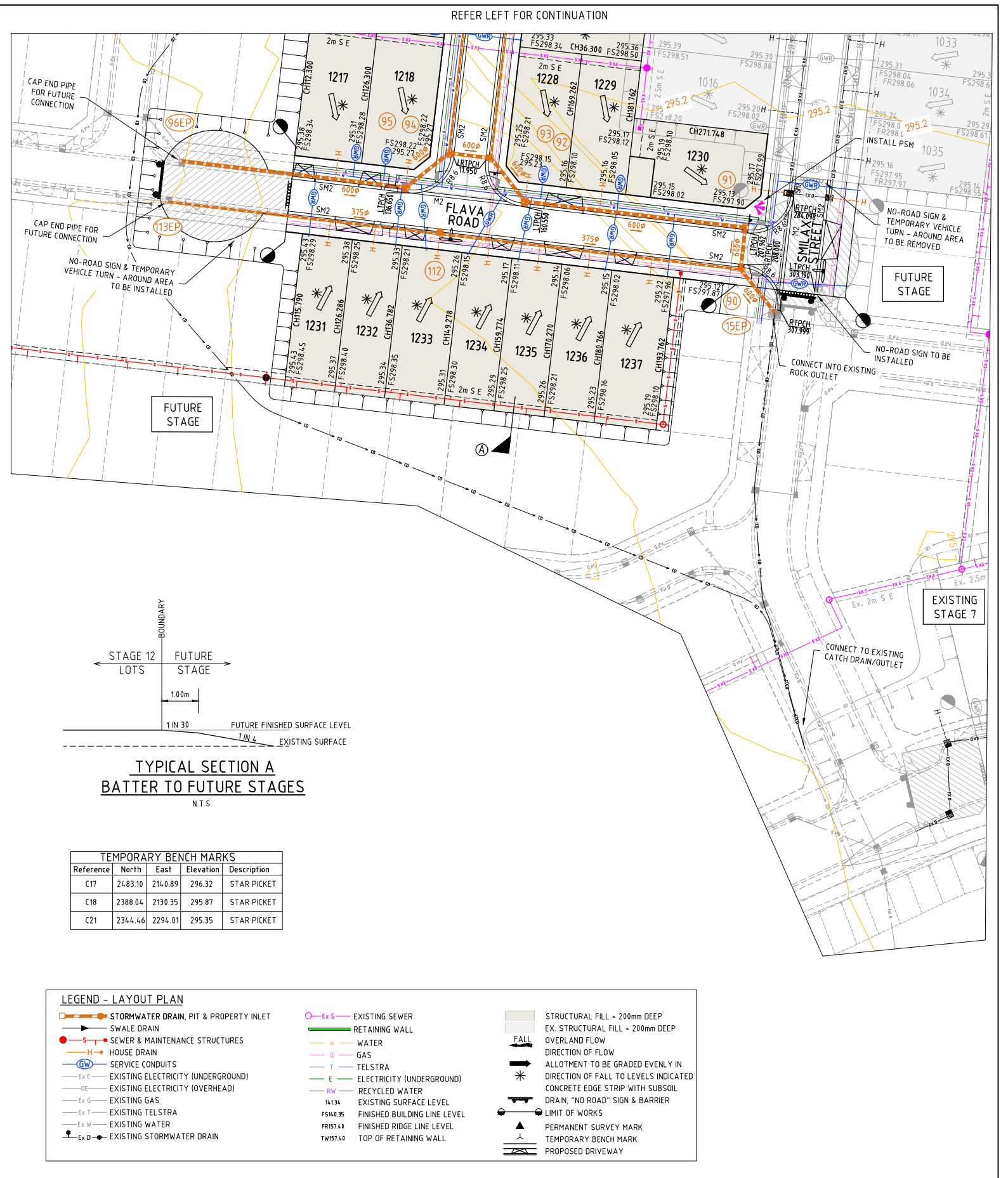
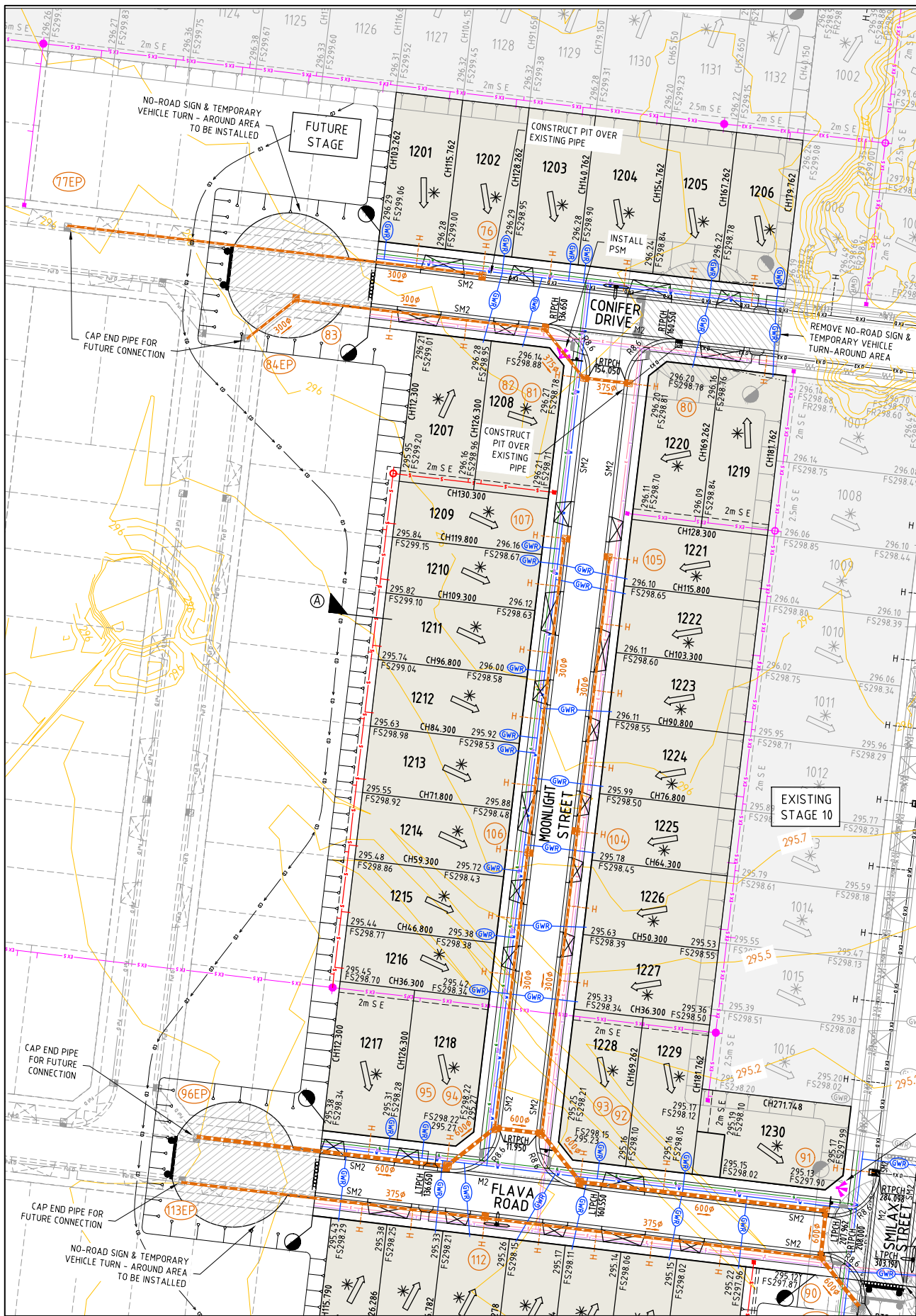
1. × DENOTES OFFSET FROM BACK OF KERB
2. TELSTRA AND ELECTRICITY CABLES ARE TO BE CONSTRUCTED IN A COMMON TRENCH
3. GAS AND WATER MAINS ARE TO BE CONSTRUCTED IN A COMMON TRENCH



WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES

THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

				<div><div><div>RESIMAX GROUP</div><div>MITCHELL SHIRE COUNCIL</div></div><div><div>Approved for Construction</div></div></div>	Melway Reference 665 E4	<div>UrbanDesign and management</div> <div>Urban Design and Management Pty Ltd PO Box 468 Sunbury 3429 Phone: +61 3 9971 6300 Fax: +61 3 9971 6399 Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3429</div>	Designed M.ROSSITTO	NEWBRIDGE SOUTH ESTATE STAGE 12 MITCHELL SHIRE COUNCIL LOCALITY PLAN	Drawing No: 18040-12-01
					Checked T.PHILLIPS		Revision: C		
					Approved T. MILINKOVIC		Sheet No: 01 of 12		
C	DRAWING INDEX & SERVICE OFFSET TABLE UPDATED	10.12.21	MR		TP		Scale @ A1 N.T.S.		
B	CONSTRUCTION ISSUE	30.11.21	MR		TP	Principal RESIMAX GROUP PTY LTD 2 DREWERY PLACE MELBOURNE VIC 3000	Project Management Land Development Civil Engineering Traffic and Transport Engineering Urban Design	Date SEPTEMBER 2021	© Urban Design and Management Pty Ltd ABN 62 525 443 156
A	ISSUED TO COUNCIL	30.09.21	MR		TP				
No.	REVISION	DATE	DES/DT	APPROVED					



NO	REVISION	DATE	DESIGN	APPROVED
D	LOT NUMBERS UPDATED	10.02.22	MR	TP
C	LOT 1234 DRIVEWAY RELOCATED	10.12.21	MR	TP
B	UPDATED TO COUNCIL'S COMMENTS	30.11.21	MR	TP
A	ISSUED TO COUNCIL	30.09.21	MR	TP

RESIMAX GROUP

MITCHELL SHIRE COUNCIL

Approved for Construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign
and management

Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3429

Project Management | Land Development | Civil Engineering |
Traffic and Transport Engineering | Urban Design

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
SEPTEMBER 2021

NEWBRIDGE SOUTH ESTATE

STAGE 12
MITCHELL SHIRE COUNCIL
DETAIL PLAN

Drawing No: 18040-12-02

Revision: D

Sheet No: 02 of 12

Scale @ A1 0 5 10 20
1:500

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Table 5A. Flexible Granular Pavement Design Configuration with CBR =2.0% & Swell of 4.0%

Layer	Access Lane	Access Street (Level 1)	Access Street (Level 2)	Connector Street
Asphalt (Wearing Course)	20mm, Size 7 Type L (Class 320 Binder) ¹	30mm, Size 10 Type N (Class 320 Binder)	40mm, Size 14 Type N (Class 320 Binder)	40mm, Size 14 Type N (Class 320 Binder)
Asphalt (Structural Course/Base Course)	30mm, Size 10 Type N (Class 320 Binder)	30mm, Size 10 Type N (Class 320 Binder)	40mm, Size 14 Type HP ² (Class A10E Binder)	40mm, Size 14 Type HP (Class A10E Binder)
SAMI Size 10 S18R	SAMI Layer (Pavement Thickness does not include SAMI Layer, allow 5mm total thickness)			
Prime	Primerseal or Bituminous Prime (if not subjected to the traffic during construction)			
Base (to match with kerb & channel)	140mm, Size 20mm Class 2 Crushed Rock (VicRoads)	130mm, Size 20mm Class 2 Crushed Rock (VicRoads)	110mm, Size 20mm Class 2 Crushed Rock (VicRoads)	110mm, Size 20mm Class 2 Crushed Rock (VicRoads)
Base (Lower)	-	-	-	100mm, Size 20mm Class 2 Crushed Rock (VicRoads)
Unbound Subbase / Cement Treated	100mm, Size 20mm Class 3 Crushed Rock (VicRoads)	100mm, Size 20mm Class 3 Crushed Rock (VicRoads)	100mm, Size 20mm Class 3 Crushed Rock (VicRoads)	150mm, size 20, 4% cement treated Class 3 crushed rock (VicRoads)
Lower Subbase	-	-	140mm, Size 20mm Class 4 Crushed Rock (VicRoads)	-
Capping Layer	150mm, Type A Selected Fill	150mm, Type A Selected Fill	150mm, Type A Selected Fill	150mm, Type A Selected Fill
Construction Layer ³	150mm, Type A Selected Fill	150mm, Type A Selected Fill	150mm, Type A Selected Fill	150mm, Type A Selected Fill
Subgrade	2.0% CBR & 4.0% Swell	2.0% CBR & 4.0% Swell	2.0% CBR & 4.0% Swell	2.0% CBR & 4.0% Swell
DESAs	4.71 x 10 ⁴	1.81 x 10 ⁵	7.80 x 10 ⁵	2.79 x 10 ⁵
Total Thickness	590mm	590mm	730mm	740mm

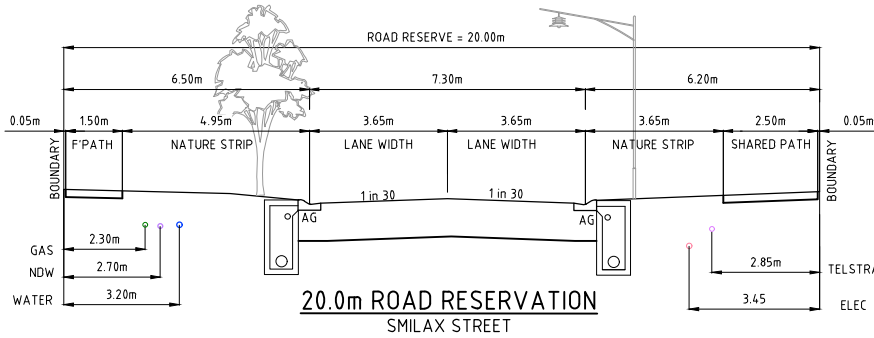
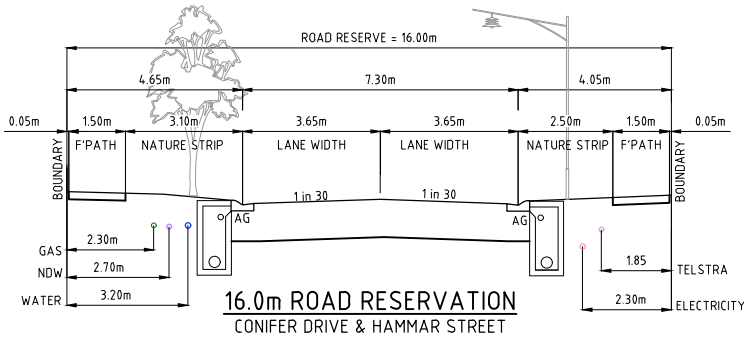
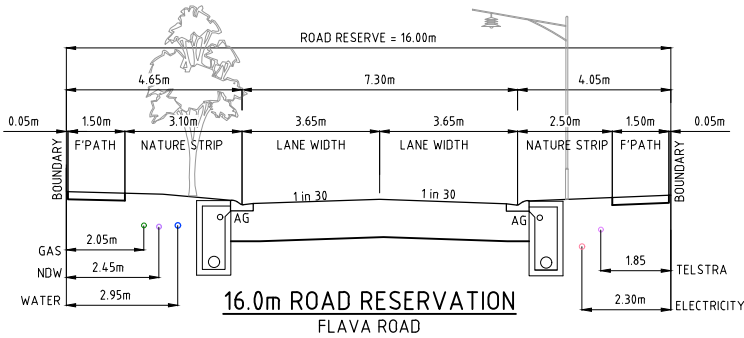
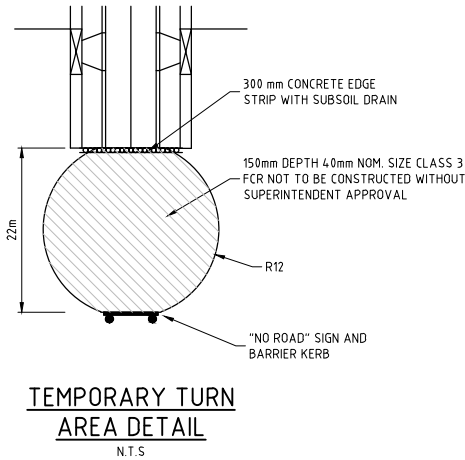
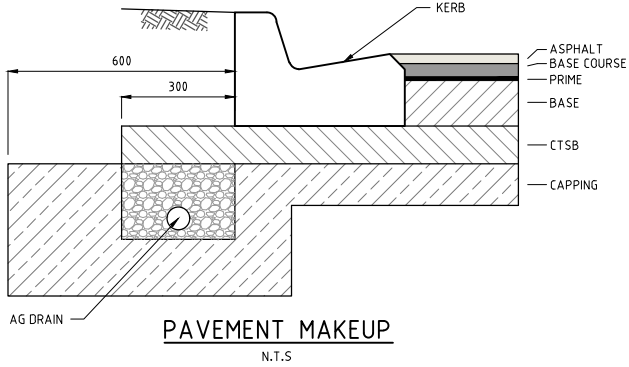
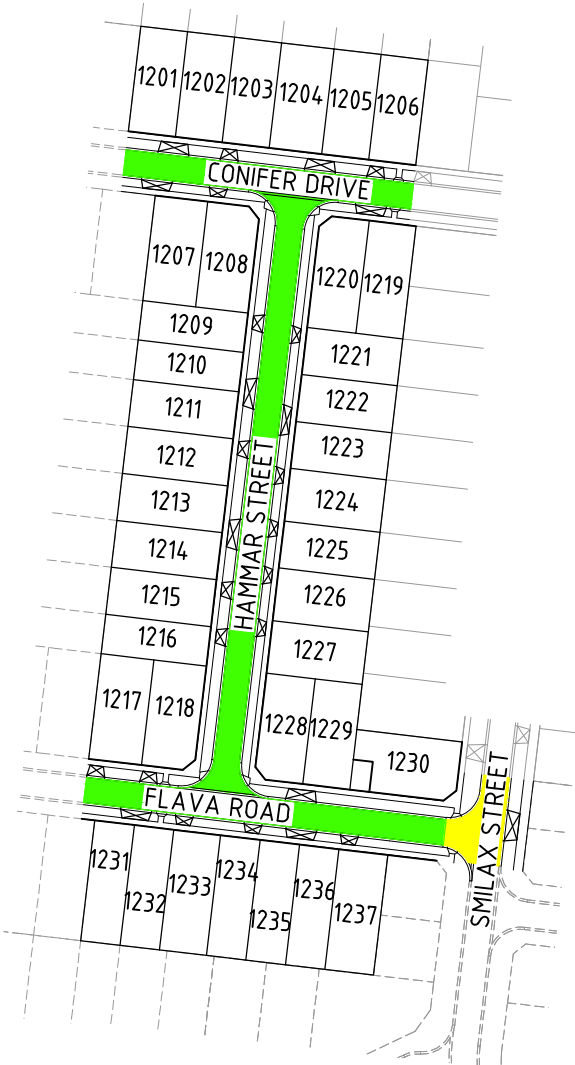
Pavement base and subbase courses are to be compacted to a minimum dry density ratio of 98% Modified with moisture content within ±2.5% of Modified Optimum Moisture Content (MOMC).

THE PAVEMENT DESIGN SHOWN HERE HAS BEEN DESIGNED/PROVIDED BY CONTINENT GEOTECH SERVICES PTY LTD WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. URBAN DESIGN AND MANAGEMENT (UDM) IS NOT RESPONSIBLE FOR THE WORK OF CONTINENT GEOTECH SERVICES.

UDM DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGN.

ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGN SHOULD BE ADDRESSED TO CONTINENT GEOTECH SERVICES PTY LTD AND SENT TO UDM.

IF THE FILL MATERIAL ON SITE IS TO BE GREATER THAN 1m FROM THE NATURAL SURFACE & THE IMPORTED FILL WITH CBR > 4.0% WILL BE FULFILLING THE ROLE OF THE SUBGRADE, REFER TO GEOTECHNICAL REPORT FOR ALTERNATIVE PAVEMENT COMPOSITION.



D	LOT NUMBERS UPDATED	10.02.22	MR	TP
C	KERB DETAIL REMOVED	07.12.21	MR	TP
B	UPDATED TO COUNCILS COMMENTS	30.11.21	MR	TP
A	ISSUED TO COUNCIL	30.09.21	MR	TP
No	REVISION	DATE	DESIGN	APPROVED



Approved for Construction

Melway Reference
665 E4

UrbanDesign
and management

Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3249

Project Management | Land Development | Civil Engineering |
Traffic and Transport Engineering | Urban Design

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
SEPTEMBER 2021

NEWBRIDGE SOUTH ESTATE
STAGE 12
MITCHELL SHIRE COUNCIL
PAVEMENT DETAILS & TYPICAL SECTIONS

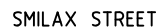
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Revision: D

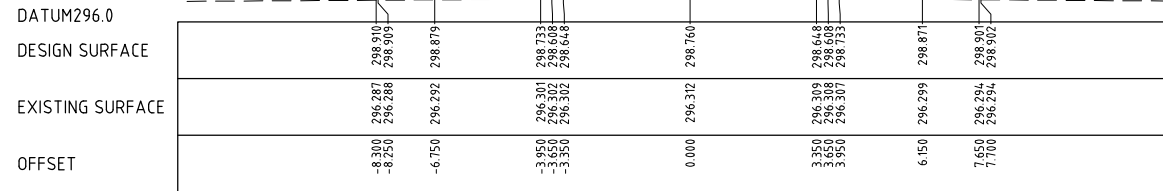
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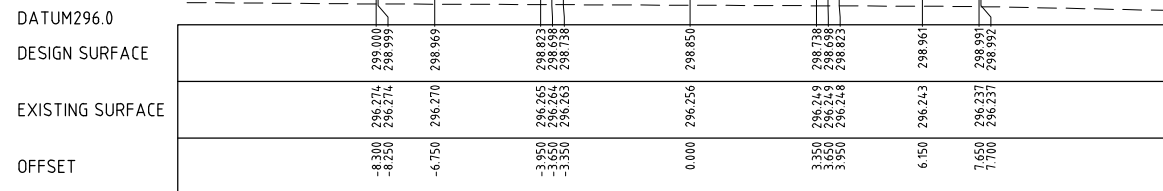
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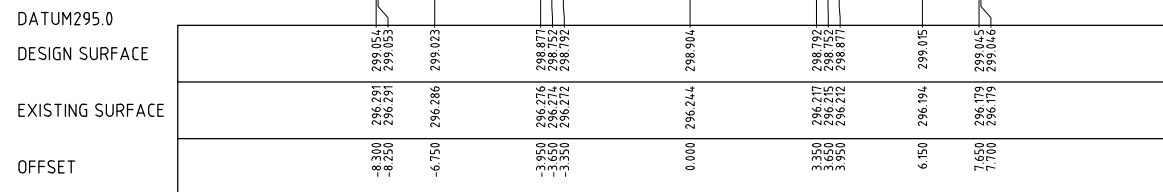
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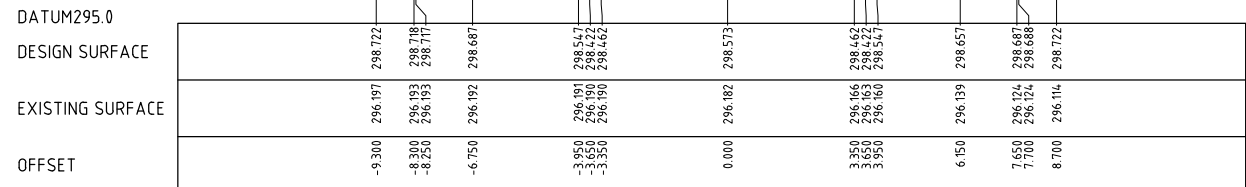
RTPCH 136.650



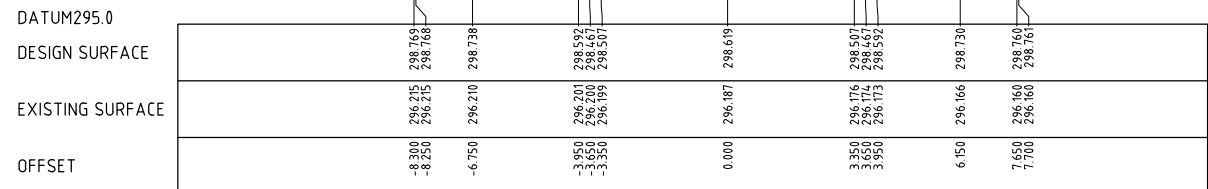
CH 115.762



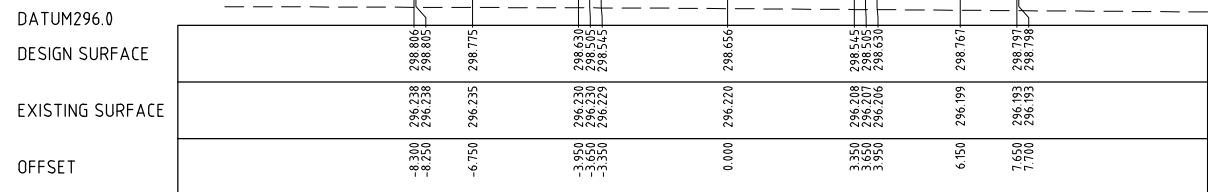
CH 103.262



CH 179.762



CH 169.262



RTPCH 160.550

C	SECTIONS UPDATED	10.12.21	MR	TP
B	CONSTRUCTION ISSUE	30.11.21	MR	TP
A	ISSUED TO COUNCIL	30.09.21	MR	TP
No.	REVISION	DATE	DES/DFT	APPROVE



Approved for Construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign
and management

Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | **Fax:** +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3249

Project Management | Land Development | Civil Engineering
Traffic and Transport Engineering | Urban Design

Designed	M.ROSSITTO
----------	------------

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
SEPTEMBER 2021

NEWBRIDGE SOUTH ESTATE

STAGE 12
MITCHELL SHIRE COUNCIL
CROSS SECTIONS - CONIFER DRIVE


Drawing No: 18040-12-05

Revision: C

Sheet No: 05 of 12

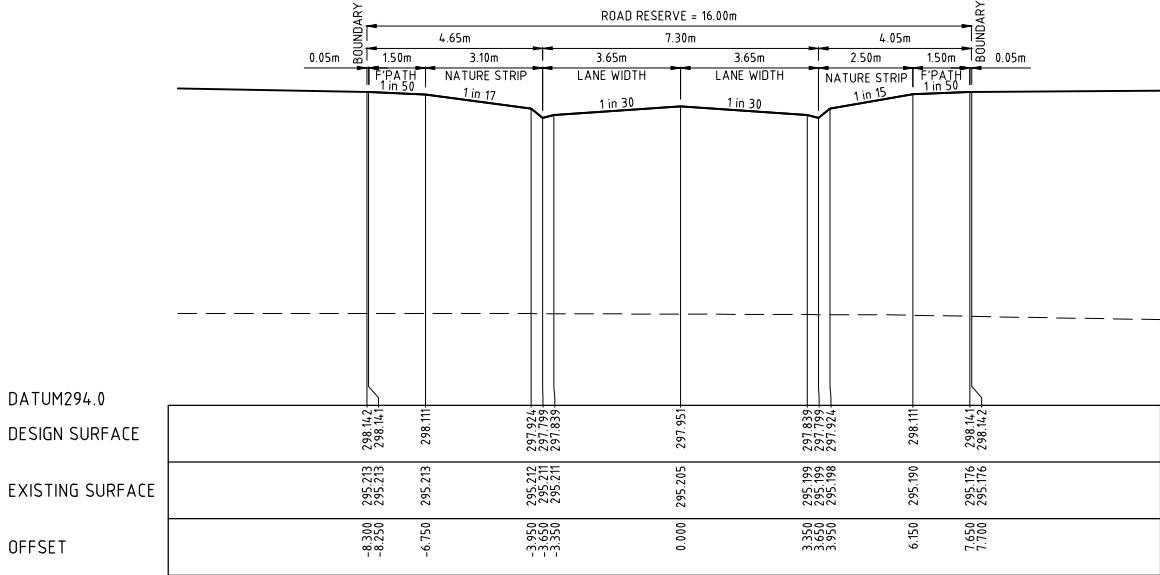
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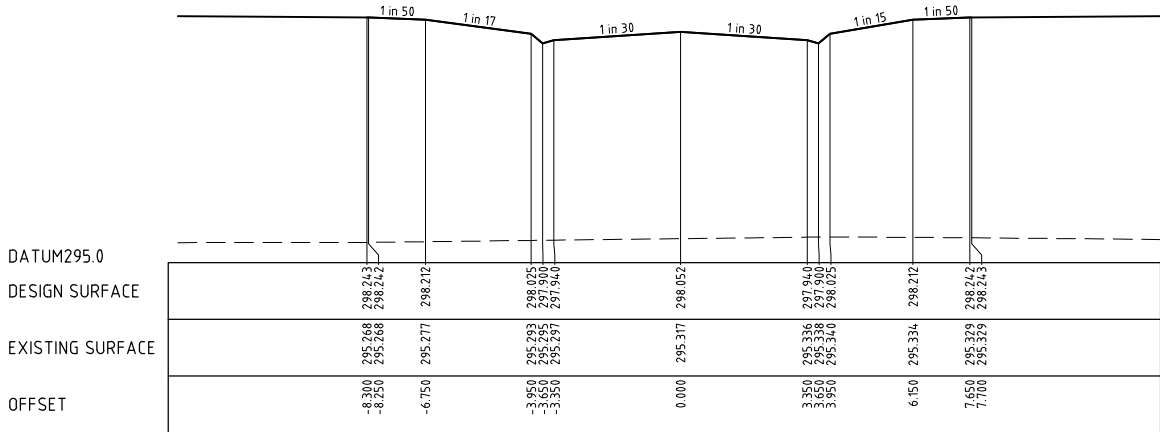


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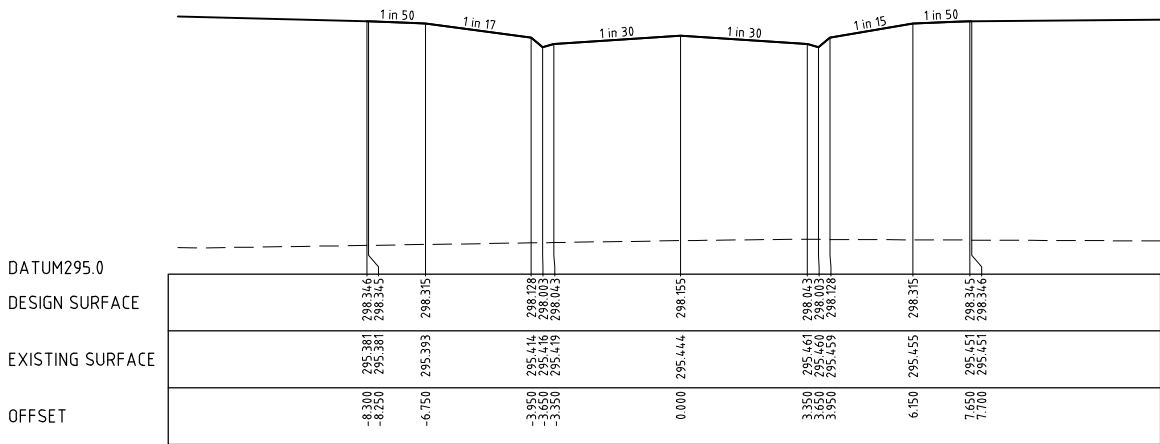
LEGEND	
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	DESIGN LINE



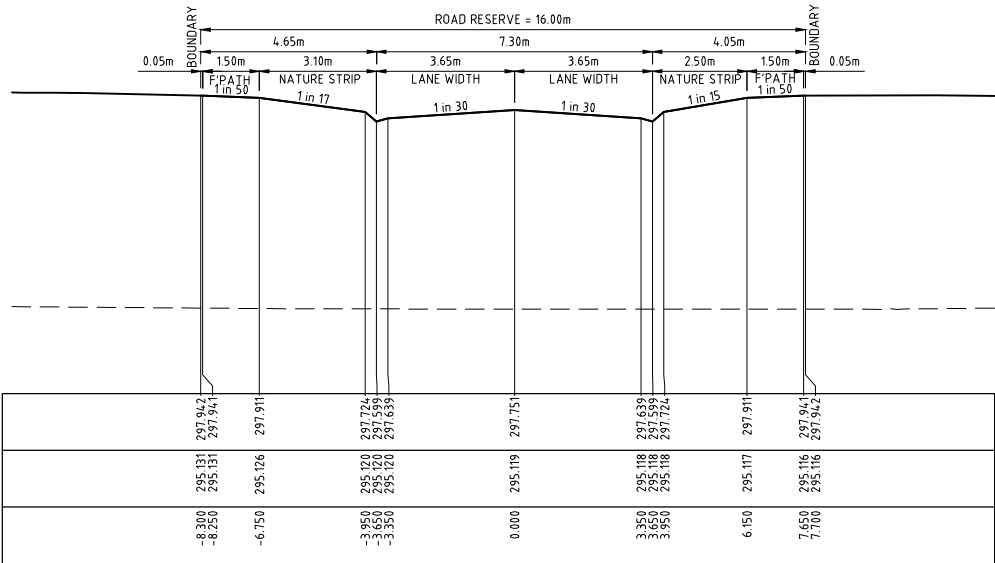
LTP CH 160.550



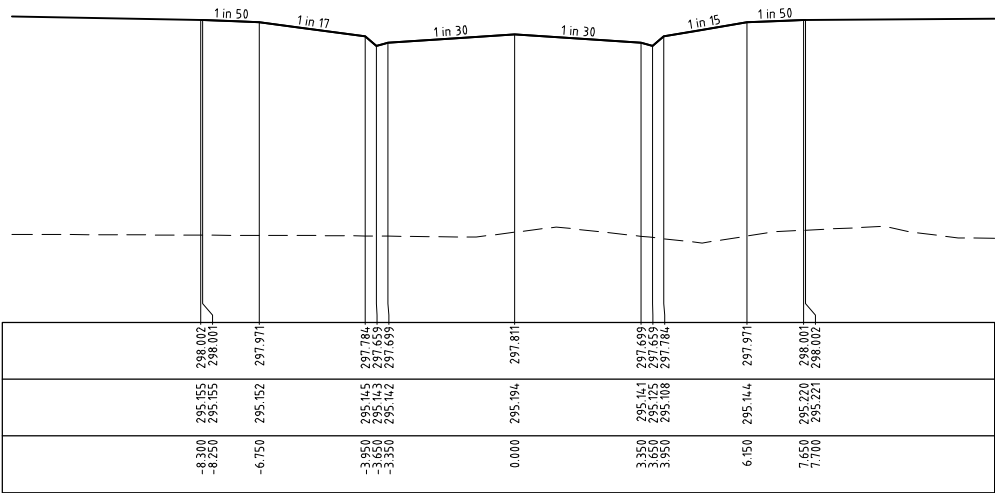
LTP CH 136.650



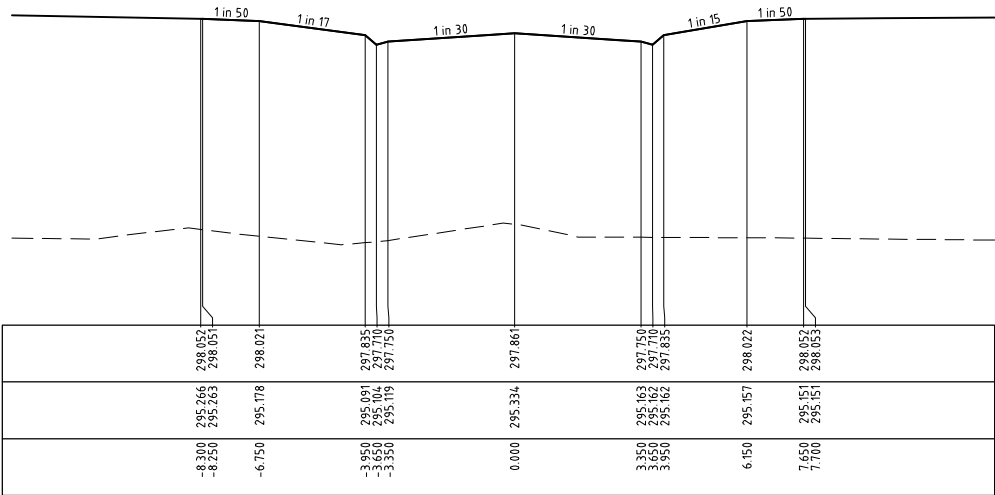
CH 112.300



LTPCH 207.962



CH 193.762



CH 181.762

C	SECTIONS UPDATED	10.12.21	MR	TP
B	CONSTRUCTION ISSUE	30.11.21	MR	TP
A	ISSUED TO COUNCIL	30.09.21	MR	TP
No	REVISION	DATE	DESIGN	APPROVED



Approved for Construction

Melway Reference 665 E4
Principal RESIMAX GROUP PTY LTD 2 DREWERY PLACE MELBOURNE VIC 3000

UrbanDesign
and management

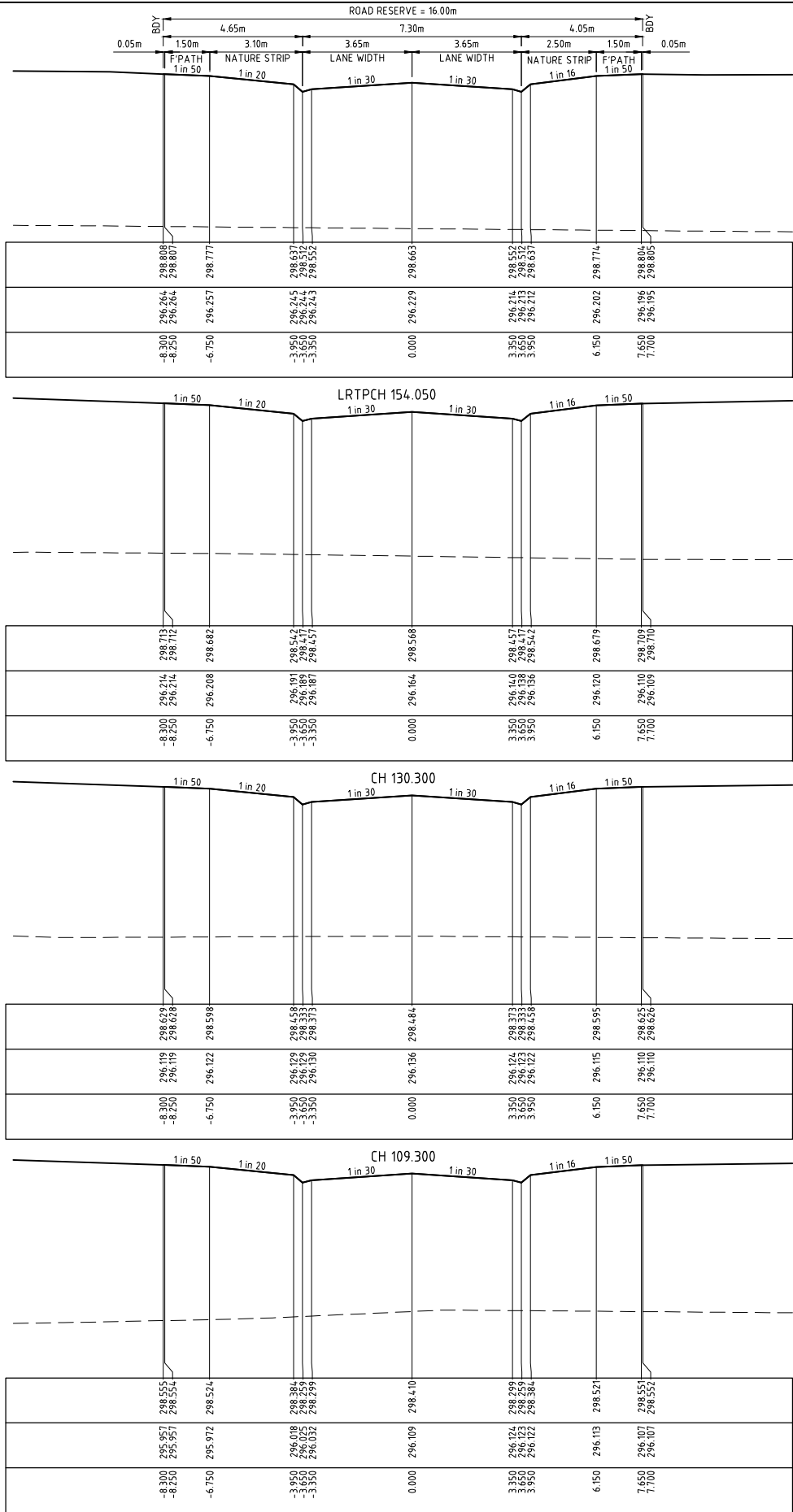
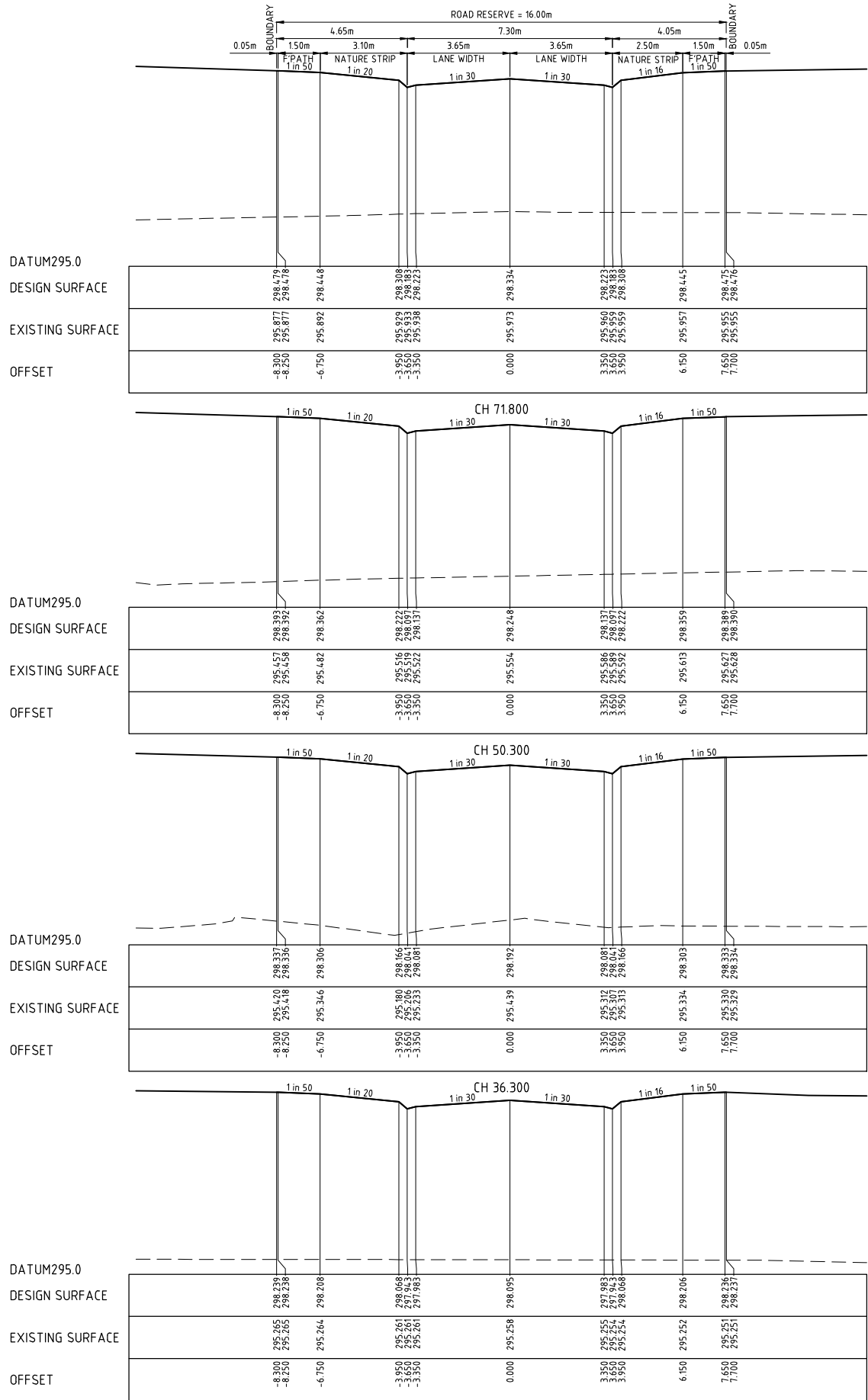
Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3249

Project Management | Land Development | Civil Engineering |
Traffic and Transport Engineering | Urban Design

Designed M.ROSSITTO
Checked T.PHILLIPS
Approved T. MILINKOVIC
Date SEPTEMBER 2021

NEWBRIDGE SOUTH ESTATE
STAGE 12
MITCHELL SHIRE COUNCIL
CROSS SECTIONS - FLAVA ROAD

Drawing No: 18040-12-06
Revision: C
Sheet No: 06 of 12
Scale @ A1 H1:100, V1:50 0 0.5 1 2 4
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LEGEND	
	EXISTING SURFACE
	DESIGN LINE

C	ROAD NAME & SECTIONS UPDATED	07.12.21	MR	TP
B	CONSTRUCTION ISSUE	30.11.21	MR	TP
A	ISSUED TO COUNCIL	30.09.21	MR	TP
No	REVISION	DATE	DESIGN	APPROVED



Approved for Construction

Melway Reference 665 E4
Principal RESIMAX GROUP PTY LTD 2 DREWERY PLACE MELBOURNE VIC 3000

UrbanDesign
and management

Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3249

Project Management | Land Development | Civil Engineering |
Traffic and Transport Engineering | Urban Design

Designed M.ROSSITTO
Checked T.PHILLIPS
Approved T. MILINKOVIC
Date SEPTEMBER 2021

NEWBRIDGE SOUTH ESTATE
STAGE 12
MITCHELL SHIRE COUNCIL
CROSS SECTIONS - MOONLIGHT STREET

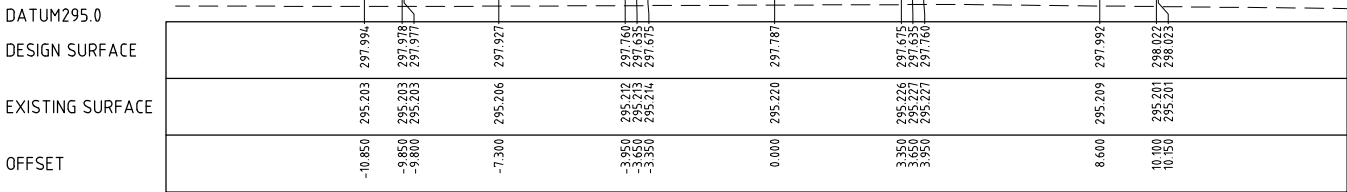
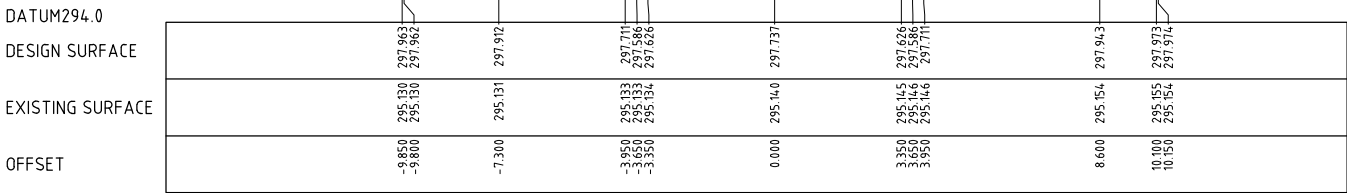
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Revision: C

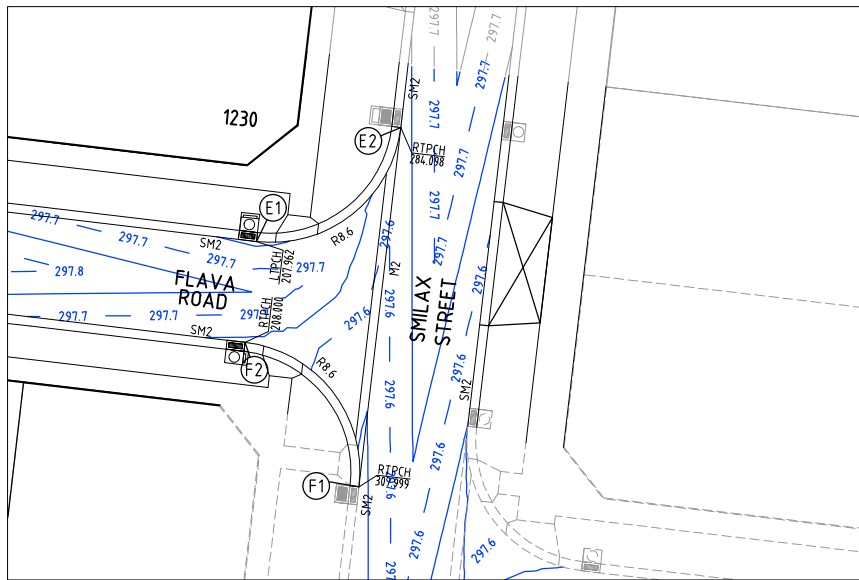
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Scale @ A1
H1:100, V1:50
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ABN 62 525 443 156



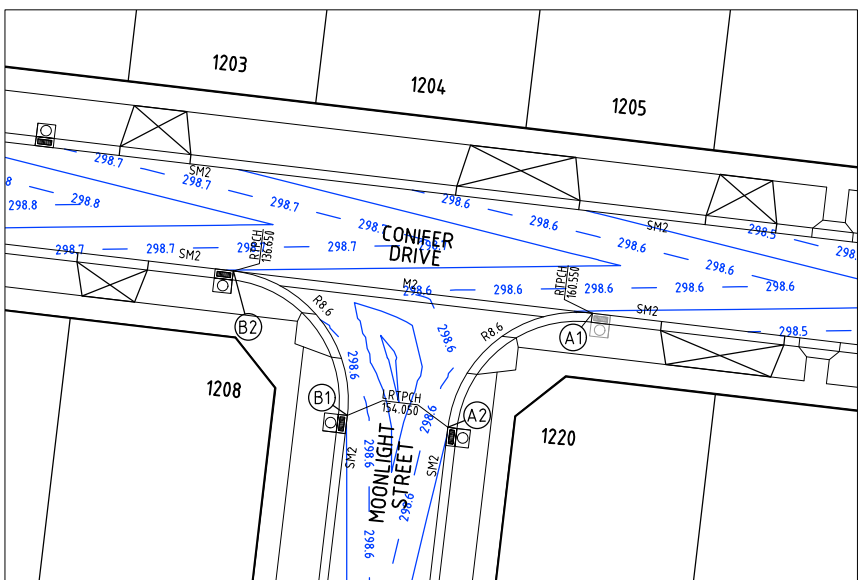
				<div><div><div>RESIMAX GROUP</div><div>MITCHELL SHIRE COUNCIL</div><div></div></div><div>Approved for Construction</div></div>	Melway Reference 665 E4	<div>UrbanDesign and management</div> <div>Urban Design and Management Pty Ltd PO Box 468 Sunbury 3429 Phone: +61 3 9971 6300 Fax: +61 3 9971 6399 Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3249</div>	Designed M.ROSSITTO	NEWBRIDGE SOUTH ESTATE STAGE 12 MITCHELL SHIRE COUNCIL CROSS SECTIONS - SMILAX STREET	Drawing No: 18040-12-08	
					Checked T.PHILLIPS		Revision: C			
					Approved T. MILINKOVIC		Sheet No: 08 of 12			
C	SECTIONS UPDATED	10.12.21	MR		TP	Principal RESIMAX GROUP PTY LTD 2 DREWERY PLACE MELBOURNE VIC 3000	Project Management Land Development Civil Engineering Traffic and Transport Engineering Urban Design	Date SEPTEMBER 2021	Scale @ A1 H1:100, V1:50 <div><div>0124</div><div>00.512</div></div>	© Urban Design and Management Pty Ltd ABN 62 525 443 156
B	CONSTRUCTION ISSUE	30.11.21	MR		TP					
A	ISSUED TO COUNCIL	30.09.21	MR	TP						
No.	REVISION	DATE	DES/DT	APPROVED						



INTERSECTION DETAIL PLAN

FLAVA ROAD & SMILAX STREET

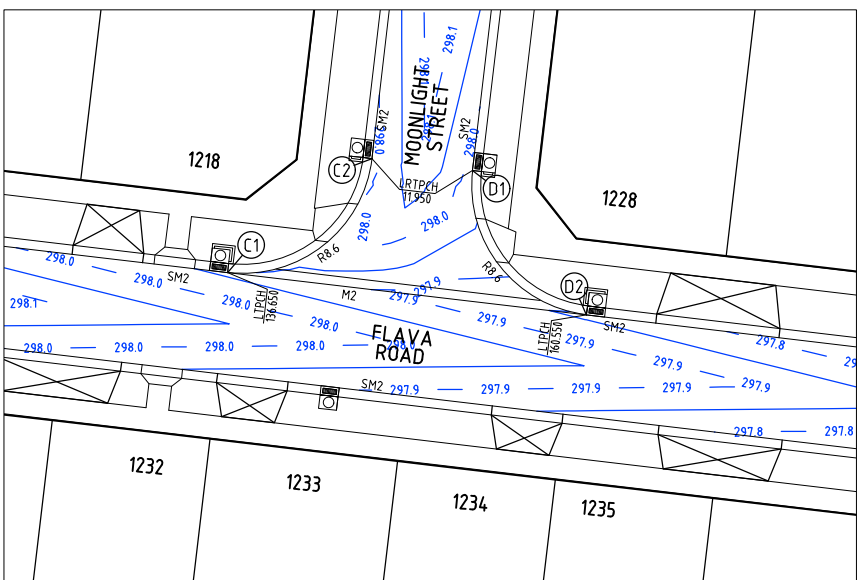
SCALE 1:250



INTERSECTION DETAIL PLAN

CONIFER DRIVE & MOONLIGHT STREET

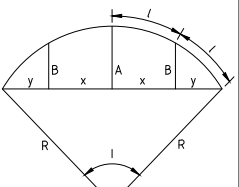
SCALE 1:250



INTERSECTION DETAIL PLAN

FLAVA ROAD & HAMMAR STREET

SCALE 1:250



LIP PROFILE SETOUT

Alignment A

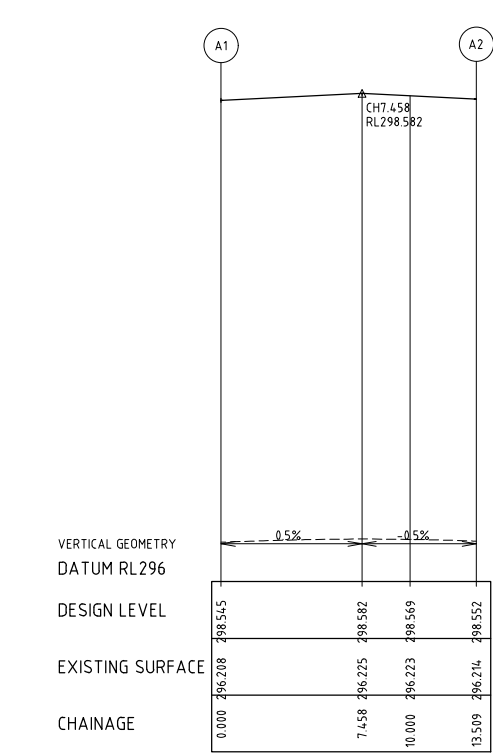
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A2	1841.056	2345.068	298.552

Curve no	L	Radius	Arc	A	B	X	Y	L	Mid point RL
A1 - A2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	298.579

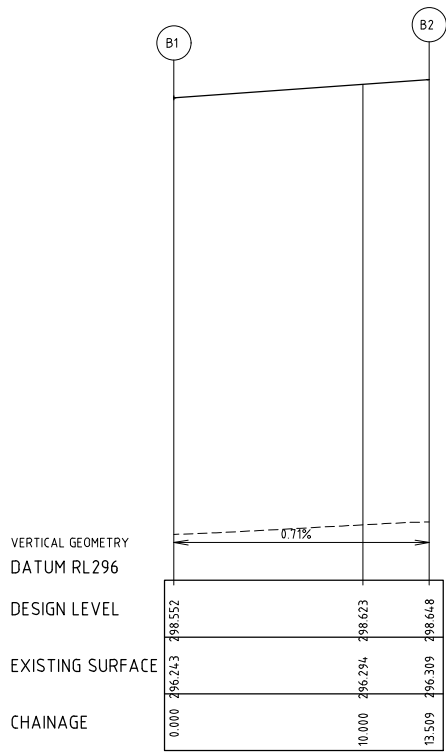
Alignment B

Point no	Easting	Northing	RL
B1	1834.402	2345.852	298.552
B2	1826.867	2355.399	298.648

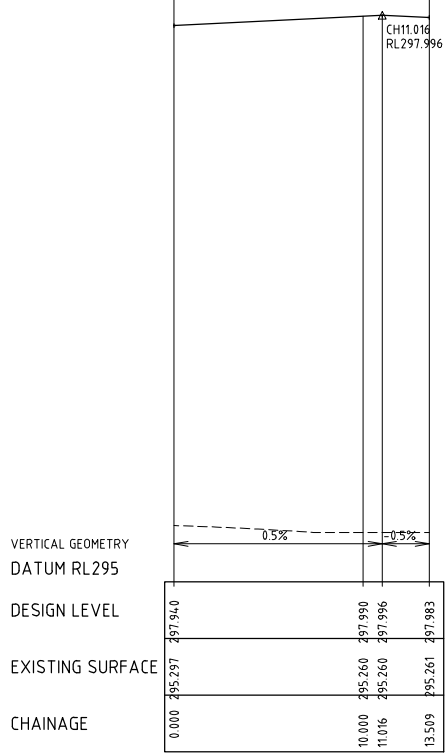
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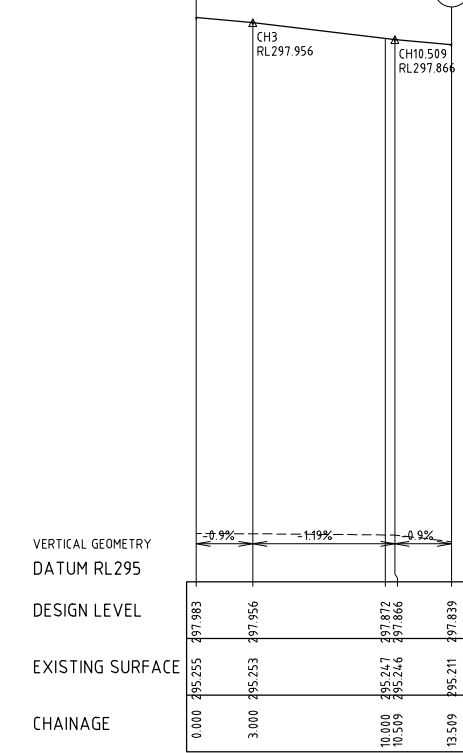
SCALE H 1:250
V 1:25



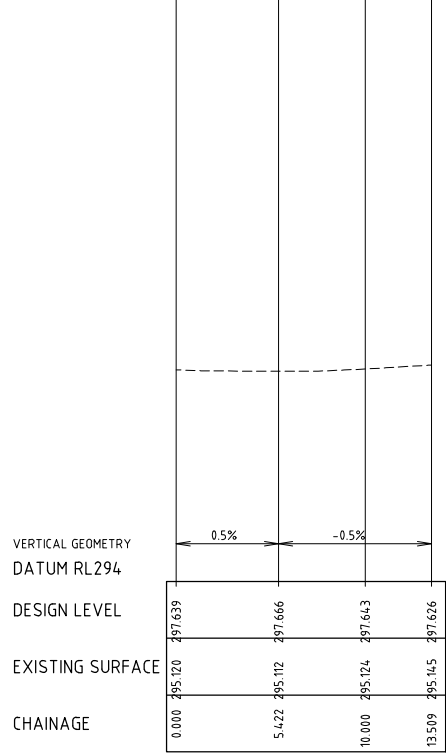
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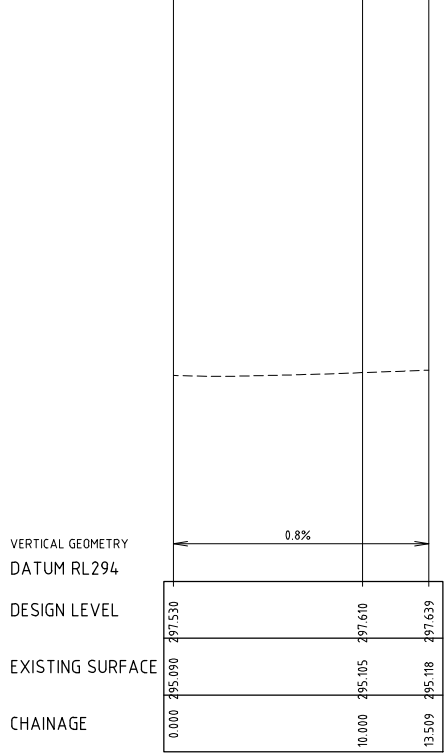
SCALE H 1:250
V 1:25



SCALE H 1:250
V 1:25



SCALE H 1:250
V 1:25



SCALE H 1:250
V 1:25

Alignment C

Point no	Easting	Northing	RL
C1	1808.228	2197.194	297.940
C2	1817.775	2204.728	297.983

Curve no	L	Radius	Arc	A	B	X	Y	L	Mid point RL
C1 - C2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	297.974

Alignment D

Point no	Easting	Northing	RL
D1	1824.429	2203.944	297.983
D2	1831.964	2194.397	297.839

Curve no	L	Radius	Arc	A	B	X	Y	L	Mid point RL
D1 - D2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	297.911

Alignment E

Point no	Easting	Northing	RL
E1	1879.050	2188.849	297.639
E2	1888.597	2196.384	297.626

Curve no	L	Radius	Arc	A	B	X	Y	L	Mid point RL
E1 - E2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	297.659

Alignment F

Point no	Easting	Northing	RL
F1	1885.838	2172.644	297.530
F2	1878.304	2182.191	297.639

Curve no	L	Radius	Arc	A	B	X	Y	L	Mid point RL
F1 - F2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	297.584

No	REVISION	DATE	DESIGN	APPROVED
D	LOT NUMBERS UPDATED	10.02.22	MR	TP
C	HAMMAR STREET UPDATED TO MOONLIGHT STREET	07.12.21	MR	TP
B	CONSTRUCTION ISSUE	30.11.21	MR	TP
A	ISSUED TO COUNCIL	30.09.21	MR	TP



Approved for Construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign
and management

Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3249

Project Management | Land Development | Civil Engineering |
Traffic and Transport Engineering | Urban Design

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
AUGUST 2021

NEWBRIDGE SOUTH ESTATE

STAGE 12
MITCHELL SHIRE COUNCIL
INTERSECTION DETAIL PLAN

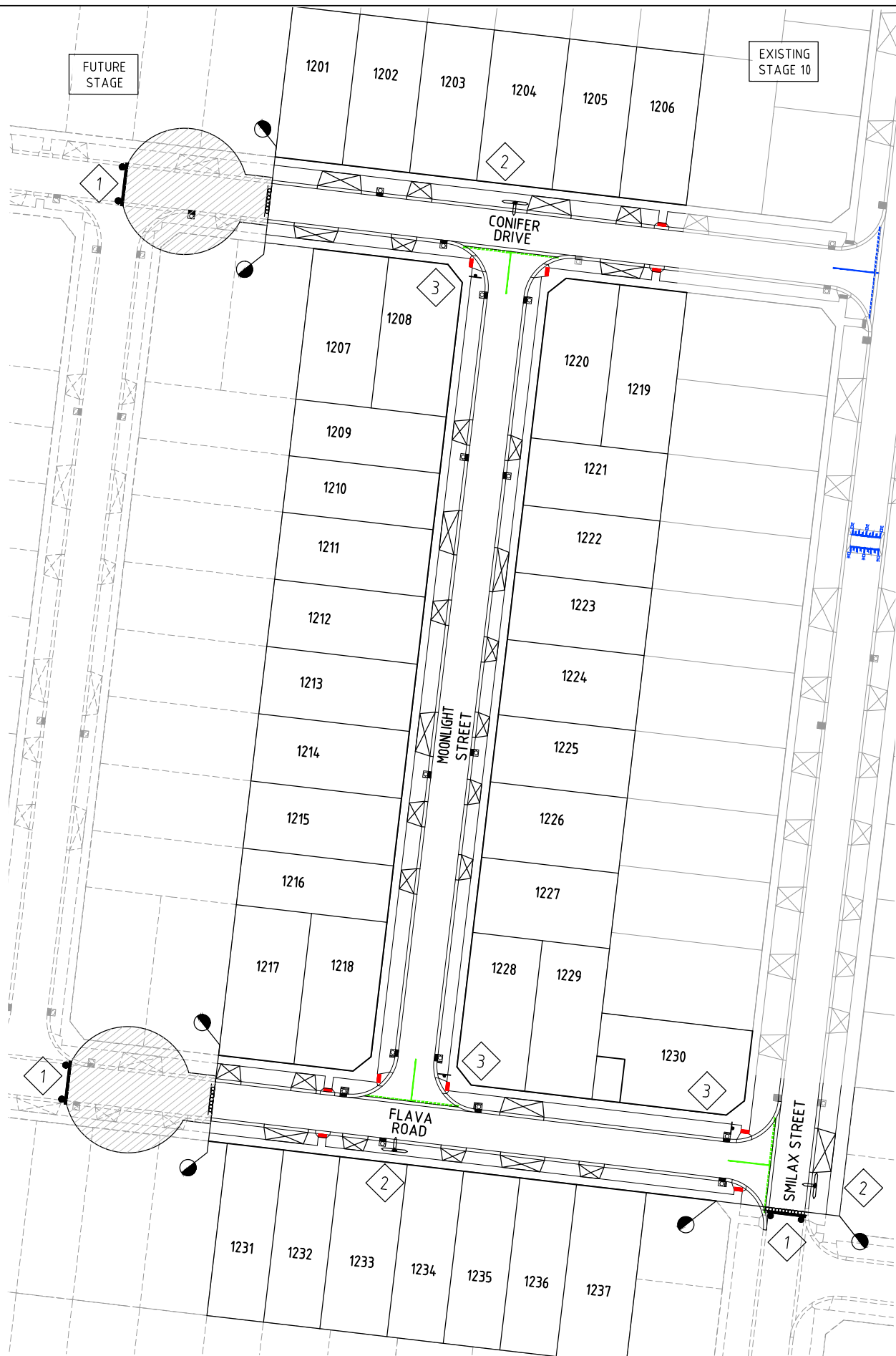
Drawing No: 18040-12-09

Revision: D

Sheet No: 09 of 12

Scale @ A1
AS SHOWN

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LEGEND

- PROPOSED LINEMARKING
- EXISTING LINEMARKING
- RRPM - RAISED REFLECTIVE PAVEMENT MARKER
- SIGNS
- FOOTPATH DDA TACTILE PAVER

SIGN SCHEDULE	
SIGN	REF
	1
G9-20 & D4-5	
	2
STREET SIGN	
	3
R1-2	

D	LOT NUMBERS UPDATED	10.02.22	MR	TP
C	LOT 1234 DRIVEWAY RELOCATED	10.12.21	MR	TP
B	UPDATED TO COUNCILS COMMENTS	30.11.21	MR	TP
A	ISSUED TO COUNCIL	30.09.21	MR	TP
No	REVISION	DATE	DESIGN	APPROVED

Approved for Construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign
and management

Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3429

Project Management | Land Development | Civil Engineering |
Traffic and Transport Engineering | Urban Design

Designed M.ROSSITTO
Checked T.PHILLIPS
Approved T. MILINKOVIC
Date SEPTEMBER 2021

NEWBRIDGE SOUTH ESTATE

STAGE 12
MITCHELL SHIRE COUNCIL
SIGNAGE & LINE MARKING PLAN

Drawing No: 18040-12-12
Revision: D
Sheet No: 12 of 12
Scale @ A1 1:500
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