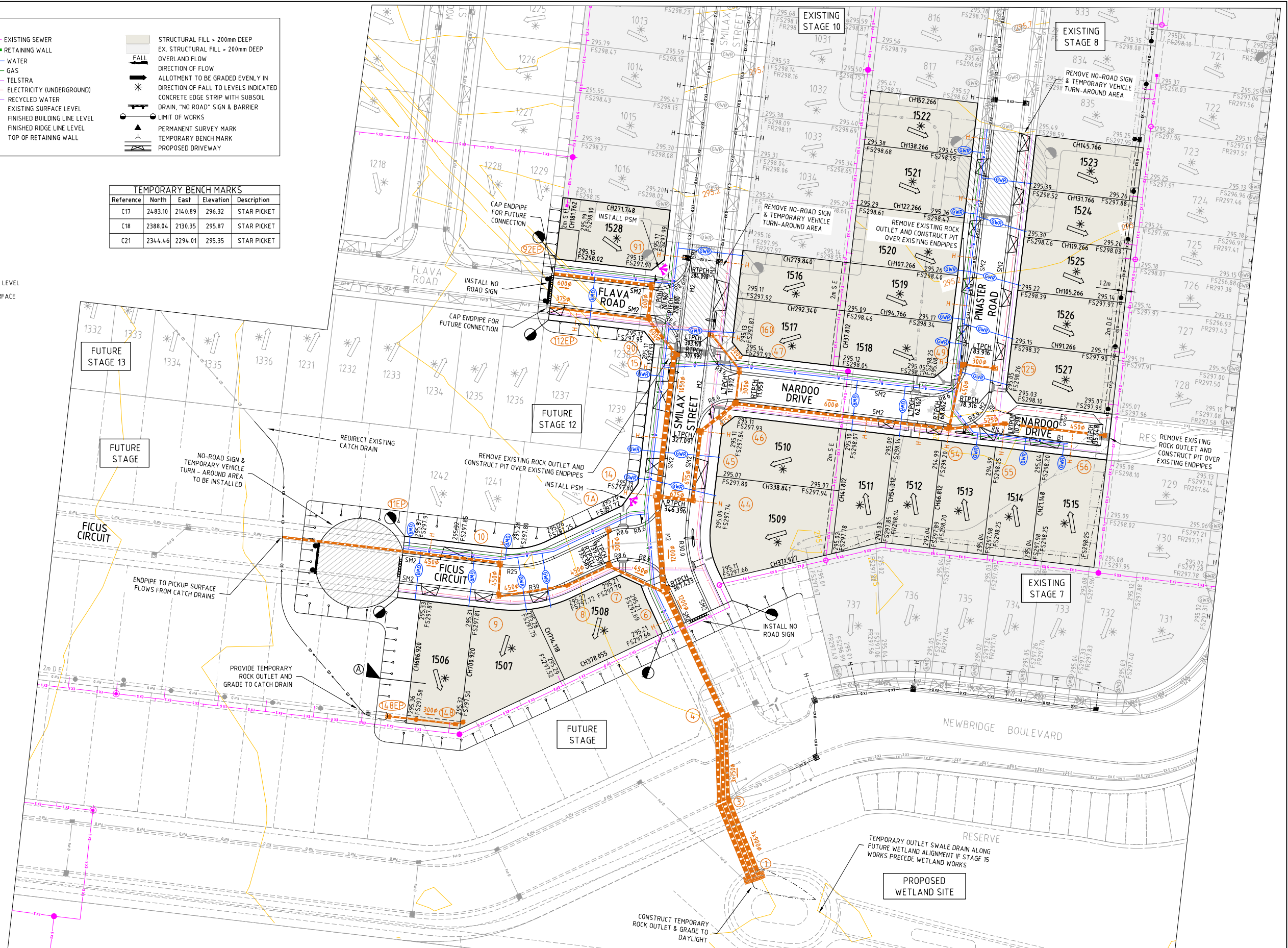


LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- SERVICE CONDUITS
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING TELSTRA
- EXISTING WATER
- EX-D - EXISTING STORMWATER DRAIN
- EX-S - EXISTING SEWER
- W - WATER
- G - GAS
- T - TELSTRA
- E - ELECTRICITY (UNDERGROUND)
- RW - RECYCLED WATER
- 14134 - EXISTING SURFACE LEVEL
- FS142.35 - FINISHED BUILDING LINE LEVEL
- FR157.44 - FINISHED RIDGE LINE LEVEL
- TW157.44 - TOP OF RETAINING WALL
- STRUCTURAL FILL - 200mm DEEP
- EX. STRUCTURAL FILL - 200mm DEEP
- OVERLAND FLOW
- DIRECTION OF FLOW
- ALLOTMENT TO BE GRADED EVENLY IN
- DIRECTION OF FALL TO LEVELS INDICATED
- CONCRETE EDGE STRIP WITH SUBSOIL
- DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY

TEMPORARY BENCH MARKS				
Reference	North	East	Elevation	Description
C17	2483.10	2140.89	296.32	STAR PICKET
C18	2388.04	2130.35	295.87	STAR PICKET
C21	2344.46	2294.01	295.35	STAR PICKET

TYPICAL SECTION A
BATTER TO FUTURE STAGES
N.T.S.



No	REVISION	DATE	DESIGN	APPROVED
D	PITS 1 TO 4 UPDATED	13.06.23	MR	TP
C	STAGE EXTENTS UPDATED	23.03.23	MR	TP
B	CONSTRUCTION ISSUE	08.04.22	MR	TP
A	ISSUED TO COUNCIL	26.11.21	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, 3429

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

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
NOVEMBER 2021

NEWBRIDGE SOUTH ESTATE
STAGE 15
MITCHELL SHIRE COUNCIL
DETAIL PLAN

Drawing No: 18040-15-02

Revision: D

Sheet No: 02 of 12

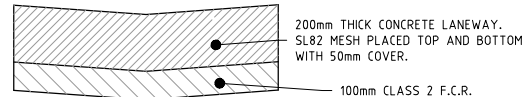
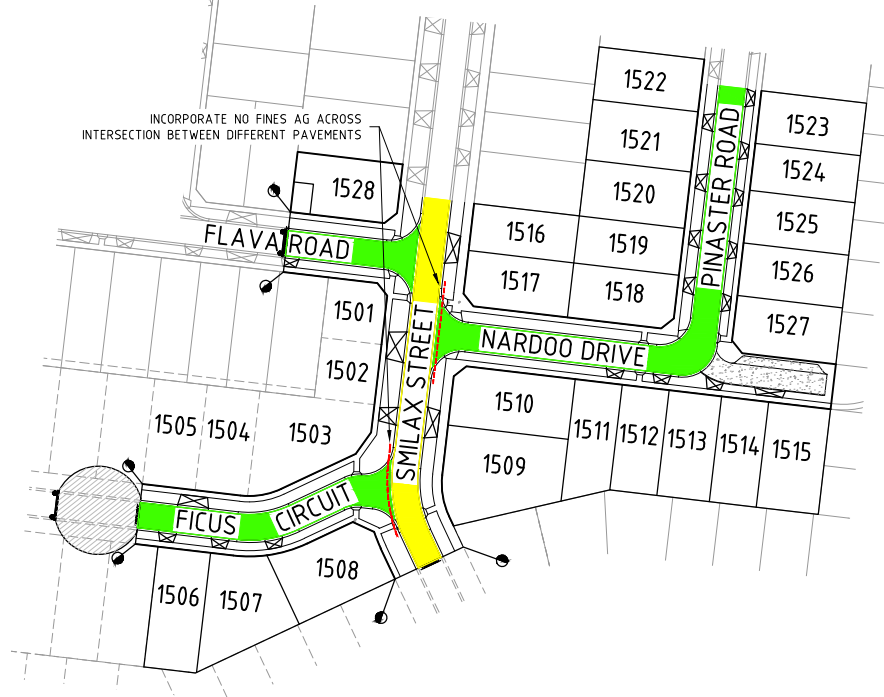
Scale @ A1 0 5 10 20
1:500

© Urban Design and Management Pty Ltd
ABN 62 525 443 156

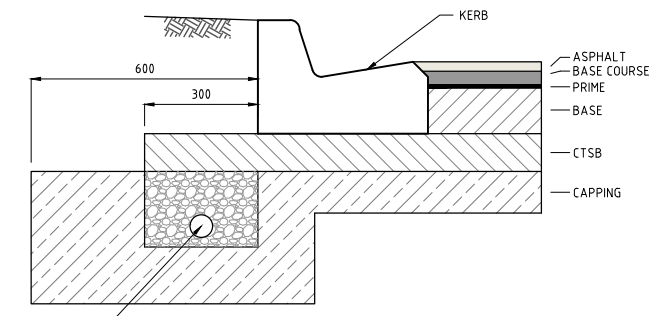


Table 5A. Flexible Granular Pavement Design Configuration with CBR =2.0% & Swell of 4.0%

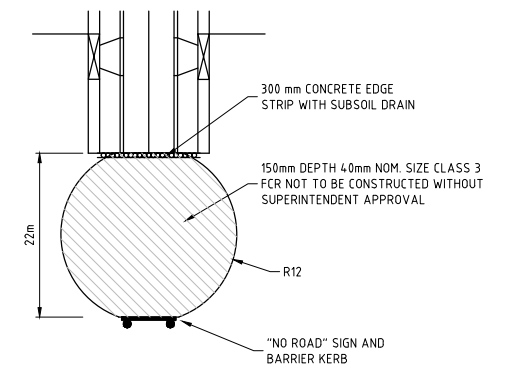
Layer	Access Lane	Access Street (Level 1)	Access Street (Level 2)	Connector Street
Asphalt (Wearing Course)	20mm, Size 7 Type L (Class 320 Binder) ¹	30mm, Size 10 Type N (Class 320 Binder)	40mm, Size 14 Type N (Class 320 Binder)	40mm, Size 14 Type N (Class 320 Binder)
Asphalt (Structural Course/Base 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 ²	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 DETAIL - CONCRETE
NARDOO DRIVE



PAVEMENT MAKEUP
N.T.S.

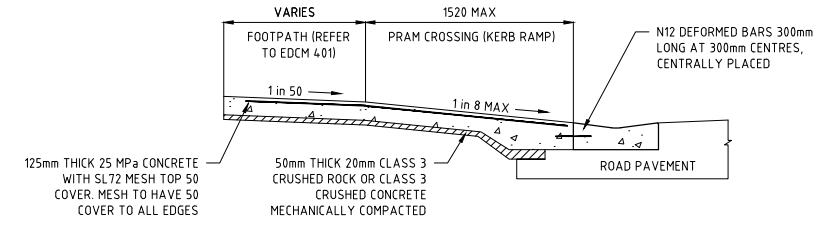
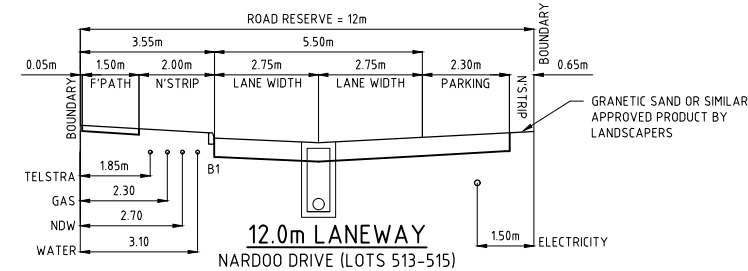


TEMPORARY TURN AREA DETAIL
N.T.S.

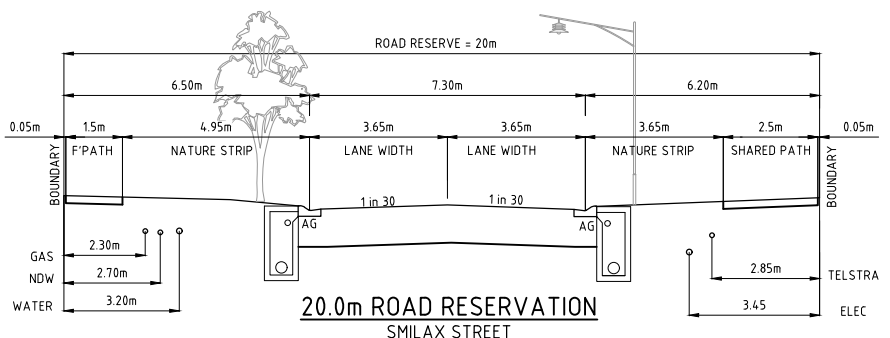
Pavement base and subbase courses are to be compacted to a minimum dry density ratio of 98% Modified with moisture content within ±2.5% of Modified Optimum Moisture Content (MOMC).

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.

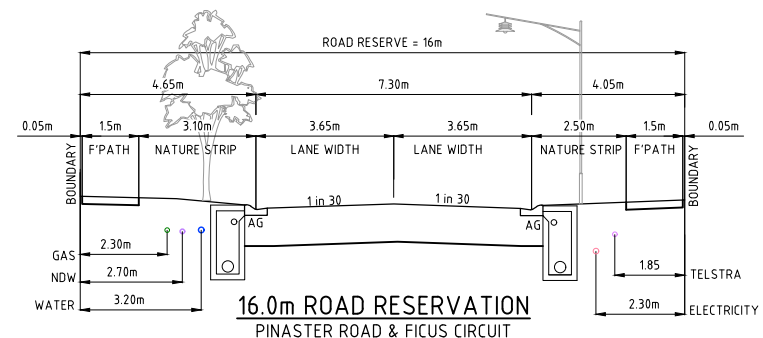
IF THE FILL MATERIAL ON SITE IS TO BE GREATER THAN 1m FROM THE NATURAL SURFACE & THE IMPORTED FILL WITH CBR > 4.0% WILL BE FULFILLING THE ROLE OF THE SUBGRADE, REFER TO GEOTECHNICAL REPORT FOR ALTERNATIVE PAVEMENT COMPOSITION.



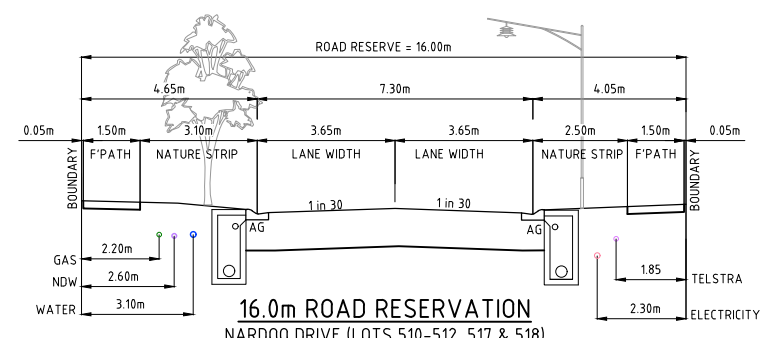
TYPICAL PEDESTRIAN PRAM CROSSING DETAILS (AS PER EDM 4.03)
N.T.S.



20.0m ROAD RESERVATION
SMILAX STREET



16.0m ROAD RESERVATION
PINASTER ROAD & FICUS CIRCUIT



16.0m ROAD RESERVATION
NARDOO DRIVE (LOTS 510-512, 517 & 518)

No	REVISION	DATE	DESIGN	APPROVED
C	STAGE EXTENTS UPDATED	23.03.23	MR	TP
B	AG DRAIN ACROSS INTERSECTION ADDED & EDM403 DETAIL ADDED	08.04.22	MR	TP
A	ISSUED TO COUNCIL	26.11.21	MR	TP



Approved for Construction

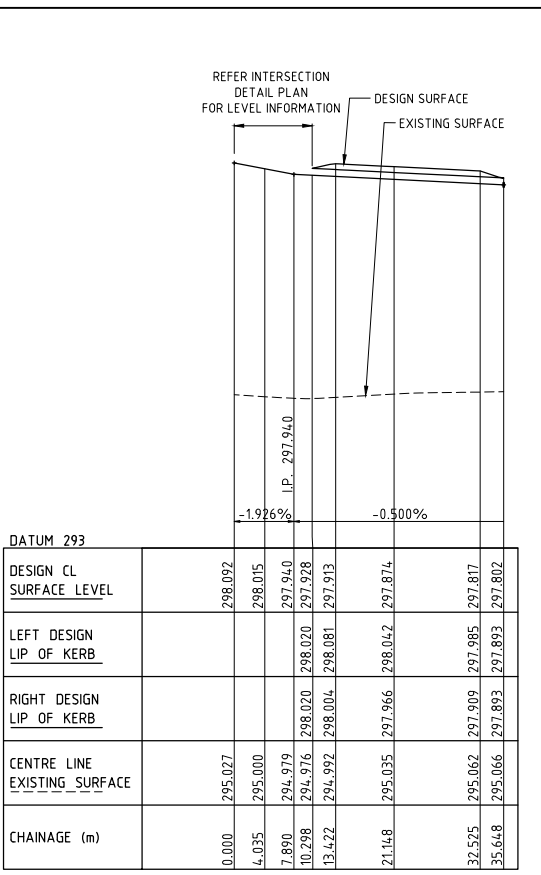
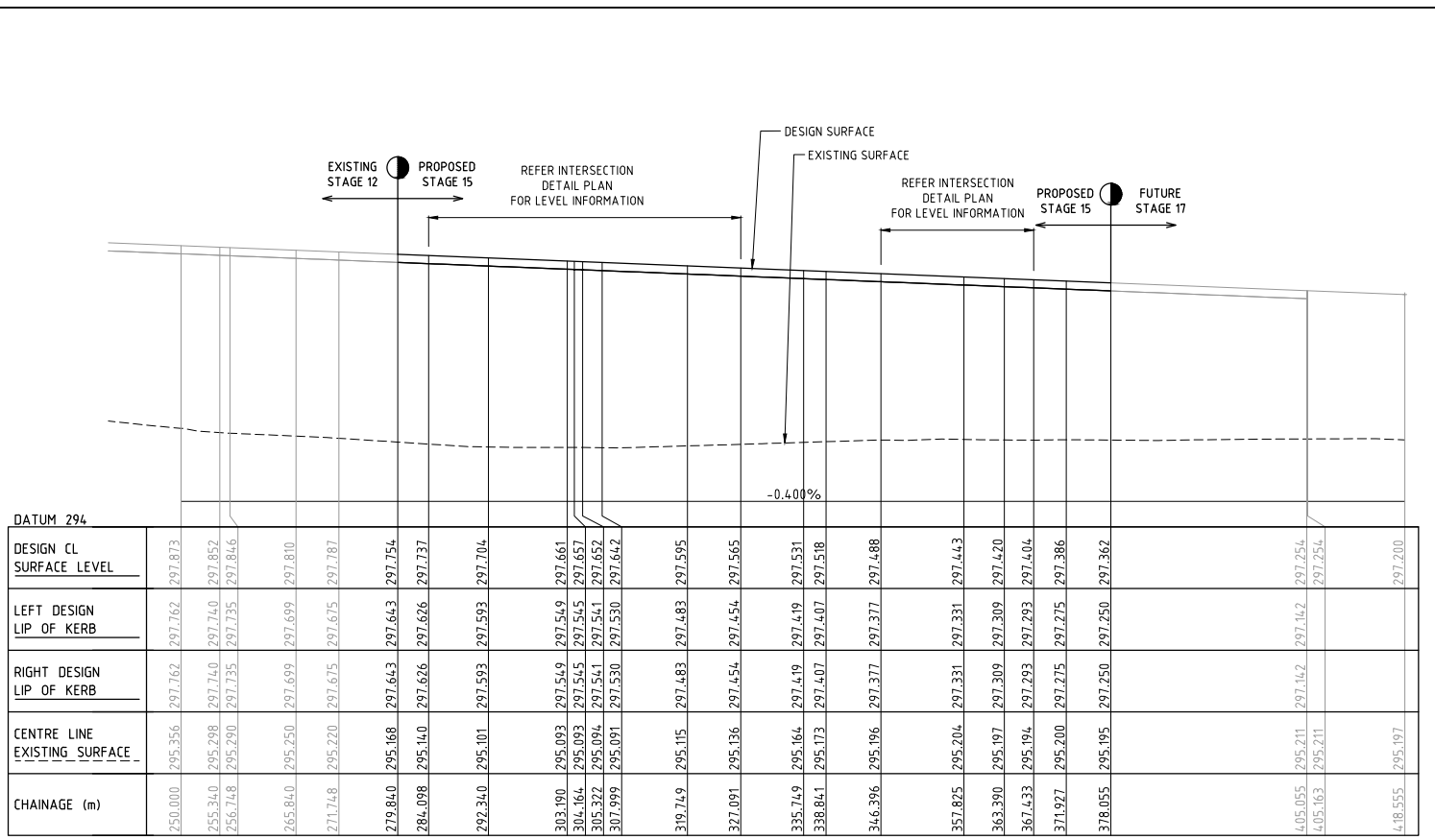
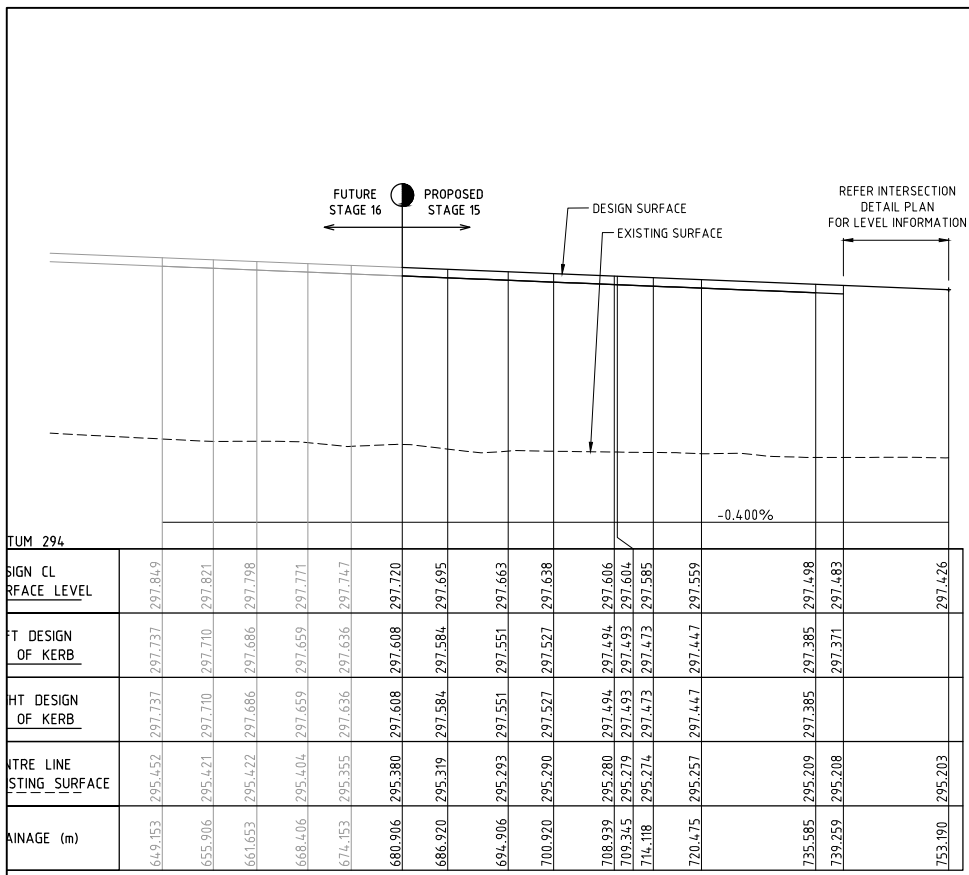
Melway Reference 665 E4
Principal RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

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 NOVEMBER 2021

NEWBRIDGE SOUTH ESTATE
STAGE 15
MITCHELL SHIRE COUNCIL
PAVEMENT DETAILS & TYPICAL SECTIONS

Drawing No: 18040-15-03
Revision: C
Sheet No: 03 of 12
Scale @ A1 0 10 20 40 1:1000
© Urban Design and Management Pty Ltd ABN 62 525 443 156



TUM 294

DATUM 294

DATUM 293

SMILAX STREET

FLAVA ROAD

NARDOO DRIVE

PINASTER ROAD

NARDOO DRIVE & PINASTER ROAD

FLAVA ROAD

NARDOO DRIVE

PINASTER ROAD

NARDOO DRIVE & PINASTER ROAD

FLAVA ROAD

NARDOO DRIVE

PINASTER ROAD

NARDOO DRIVE & PINASTER ROAD

FLAVA ROAD

NARDOO DRIVE

PINASTER ROAD

NARDOO DRIVE & PINASTER ROAD

FLAVA ROAD

NARDOO DRIVE

PINASTER ROAD

NARDOO DRIVE & PINASTER ROAD

FLAVA ROAD

NARDOO DRIVE

PINASTER ROAD

NARDOO DRIVE & PINASTER ROAD

FLAVA ROAD

NARDOO DRIVE

PINASTER ROAD

SMILAX STREET

FLAVA ROAD

NARDOO DRIVE

PINASTER ROAD

NARDOO DRIVE & PINASTER ROAD

FLAVA ROAD

NARDOO DRIVE

PINASTER ROAD

NARDOO DRIVE & PINASTER ROAD

FLAVA ROAD

NARDOO DRIVE

PINASTER ROAD

NARDOO DRIVE & PINASTER ROAD

FLAVA ROAD

NARDOO DRIVE

PINASTER ROAD

NARDOO DRIVE & PINASTER ROAD

FLAVA ROAD

NARDOO DRIVE

PINASTER ROAD

NARDOO DRIVE & PINASTER ROAD

FLAVA ROAD

NARDOO DRIVE

PINASTER ROAD

NARDOO DRIVE & PINASTER ROAD

FLAVA ROAD

NARDOO DRIVE

PINASTER ROAD

NARDOO DRIVE & PINASTER ROAD

Approved for Construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

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

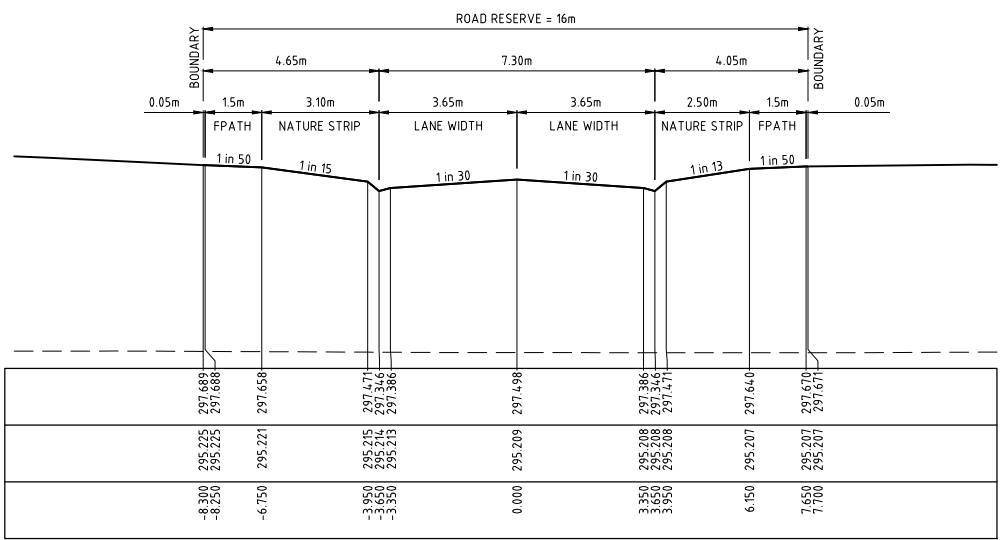
Approved
T. MILINKOVIC

Date
NOVEMBER 2021

NEWBRIDGE SOUTH ESTATE
STAGE 15
MITCHELL SHIRE COUNCIL
LONGITUDINAL SECTIONS

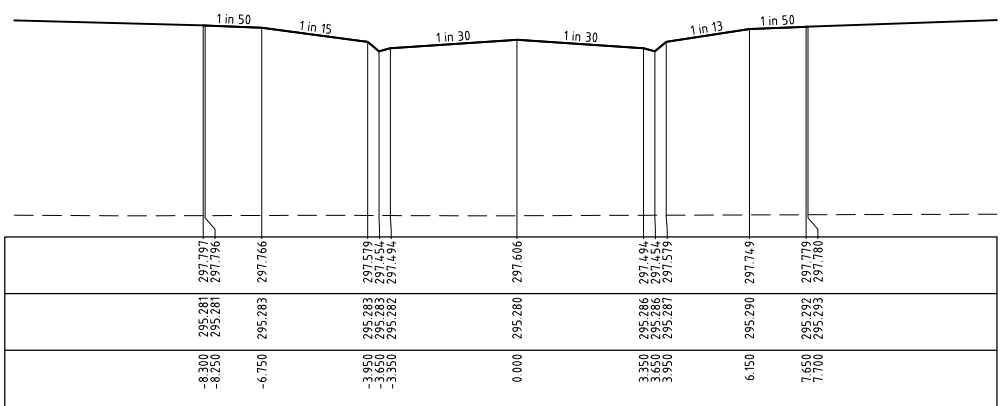
Drawing No: 18040-15-04
Revision: C
Sheet No: 04 of 12
Scale @ A1 0 5 10 20
H1:500, V1:50 0 0.5 1 2
© Urban Design and Management Pty Ltd
ABN 62 525 443 156

---	EXISTING SURFACE
—	DESIGN LINE



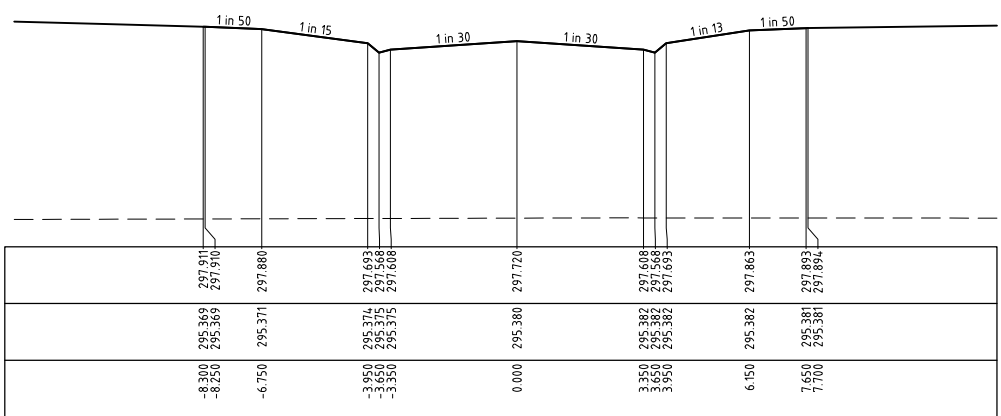
DATUM295.0										
DESIGN SURFACE	297.688	297.688	297.471	297.386	297.498	297.386	297.670	297.671	297.640	297.671
EXISTING SURFACE	295.225	295.225	295.215	295.214	295.209	295.208	295.207	295.207	295.207	295.207
OFFSET	-8.300	-8.250	-6.750	-3.950	0.000	3.350	6.150	7.650	7.700	7.700

RTP CH 735.585



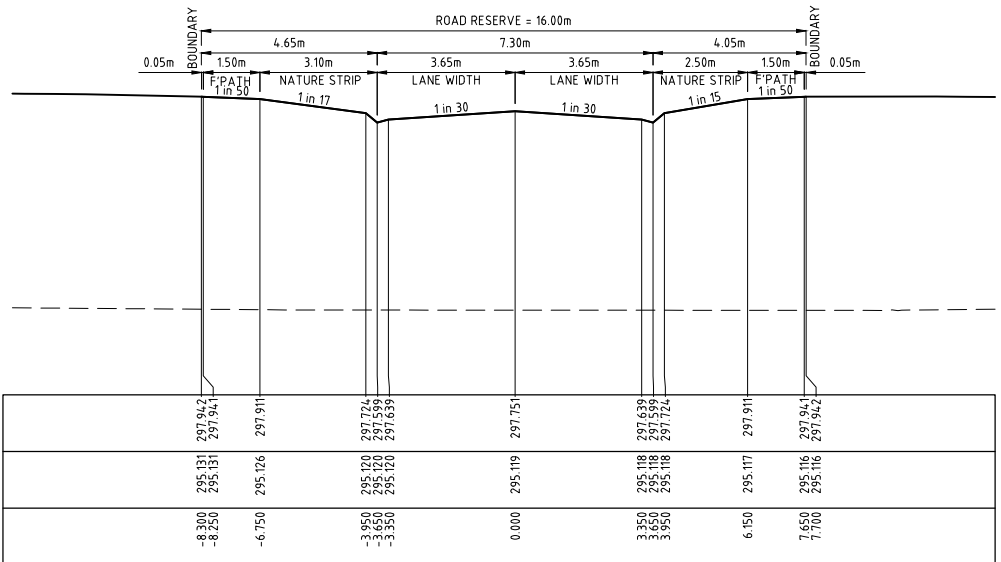
DATUM295.0										
DESIGN SURFACE	297.797	297.796	297.519	297.434	297.606	297.434	297.719	297.719	297.700	297.700
EXISTING SURFACE	295.281	295.281	295.283	295.282	295.280	295.286	295.292	295.293	295.293	295.293
OFFSET	-8.300	-8.250	-6.750	-3.950	0.000	3.350	6.150	7.650	7.700	7.700

CH 708.939



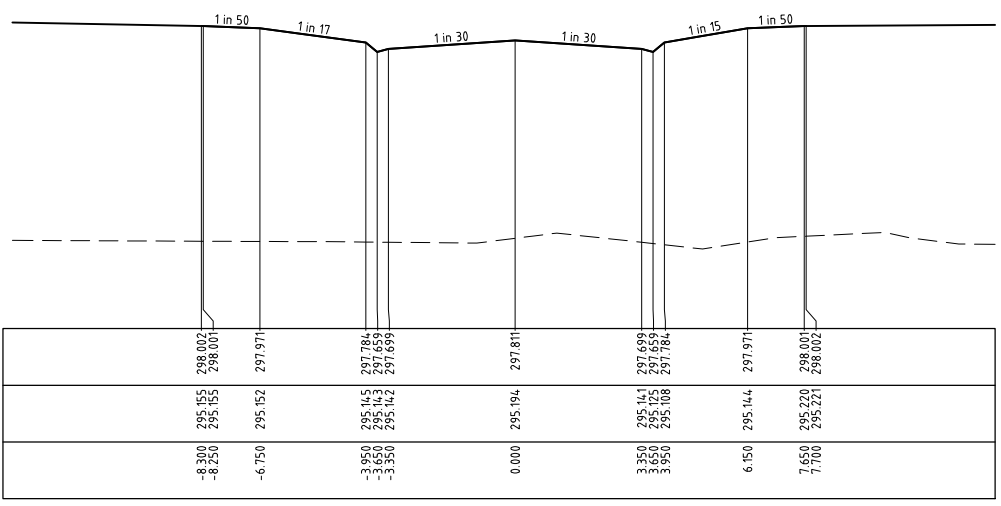
DATUM295.0										
DESIGN SURFACE	297.911	297.910	297.693	297.608	297.720	297.608	297.863	297.863	297.893	297.894
EXISTING SURFACE	295.349	295.349	295.315	295.315	295.300	295.302	295.381	295.381	295.381	295.381
OFFSET	-8.300	-8.250	-6.750	-3.950	0.000	3.350	6.150	7.650	7.700	7.700

CH 680.906



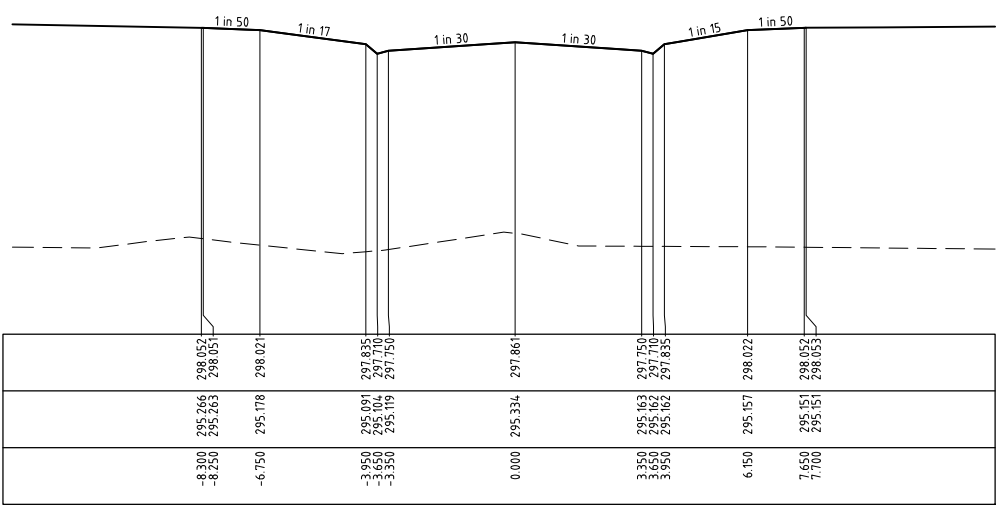
DATUM294.0										
DESIGN SURFACE	297.942	297.941	297.911	297.724	297.751	297.639	297.599	297.599	297.941	297.942
EXISTING SURFACE	295.131	295.131	295.126	295.120	295.119	295.118	295.118	295.118	295.116	295.116
OFFSET	-8.300	-8.250	-6.750	-3.950	0.000	3.350	3.950	6.150	7.650	7.700

LTP CH 207.962



DATUM294.0										
DESIGN SURFACE	298.002	298.001	297.971	297.784	297.811	297.699	297.659	297.659	298.001	298.002
EXISTING SURFACE	295.155	295.155	295.152	295.145	295.194	295.141	295.108	295.108	295.144	295.144
OFFSET	-8.300	-8.250	-6.750	-3.950	0.000	3.350	3.950	6.150	7.650	7.700

CH 193.762



DATUM294.0										
DESIGN SURFACE	298.057	298.051	298.021	297.835	297.861	297.750	297.710	297.710	298.051	298.052
EXISTING SURFACE	295.266	295.263	295.178	295.091	295.334	295.163	295.162	295.162	295.151	295.151
OFFSET	-8.300	-8.250	-6.750	-3.950	0.000	3.350	3.950	6.150	7.650	7.700

CH 181.762

C	STAGE EXTENTS UPDATED	23.03.23	MR	TP
B	CONSTRUCTION ISSUE	08.04.22	MR	TP
A	ISSUED TO COUNCIL	26.11.21	MR	TP
No	REVISION	DATE	DESIGNER	APPROVED

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, 3249

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

Designed
M.ROSSITTO

Checked
T.PHILLIPS

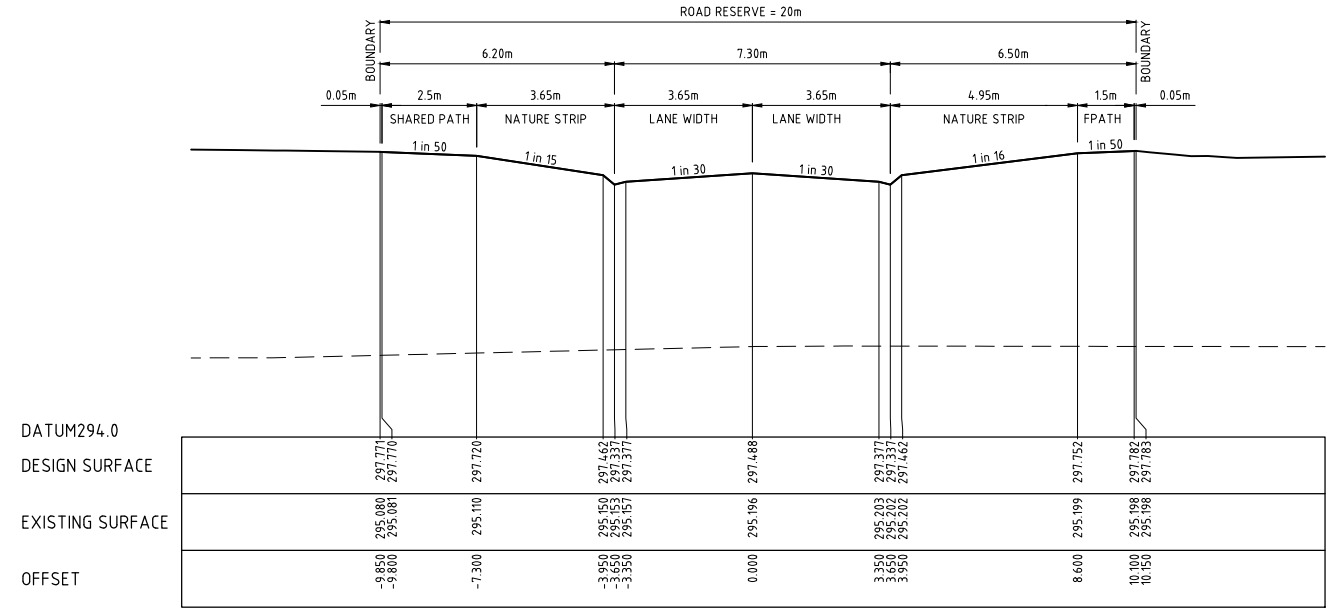
Approved
T. MILINKOVIC

Date
NOVEMBER 2021

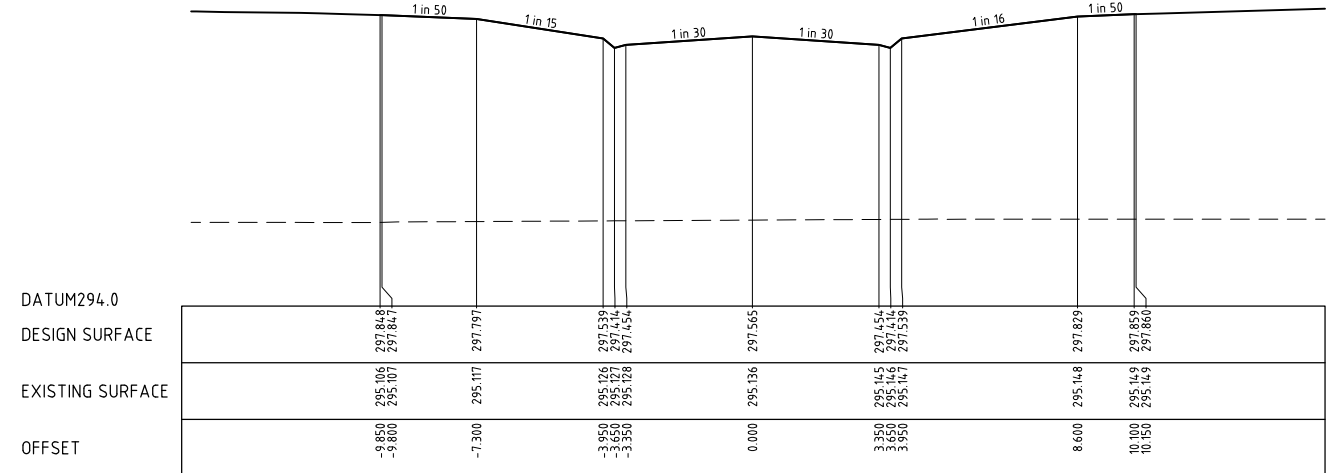
NEWBRIDGE SOUTH ESTATE
STAGE 15
MITCHELL SHIRE COUNCIL
CROSS SECTIONS - FICUS CIRCUIT &
FLAVA ROAD

Drawing No:	18040-15-05
Revision:	C
Sheet No:	05 of 12
Scale @ A1	0 1 2 4
H1:100, V1:50	0 0.5 1 2
© Urban Design and Management Pty Ltd ABN 62 525 443 156	

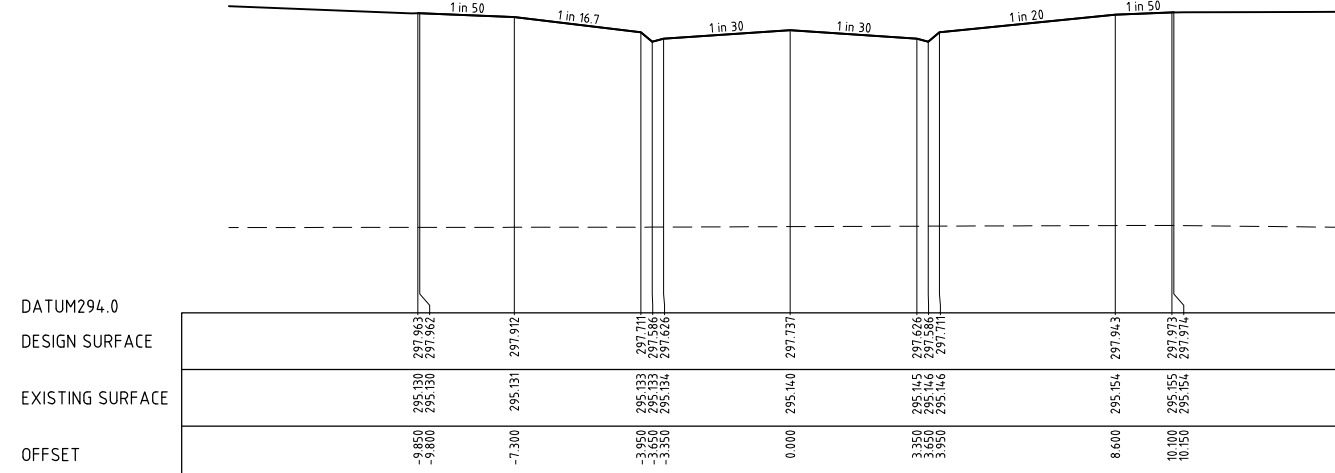
---	EXISTING SURFACE
—	DESIGN LINE



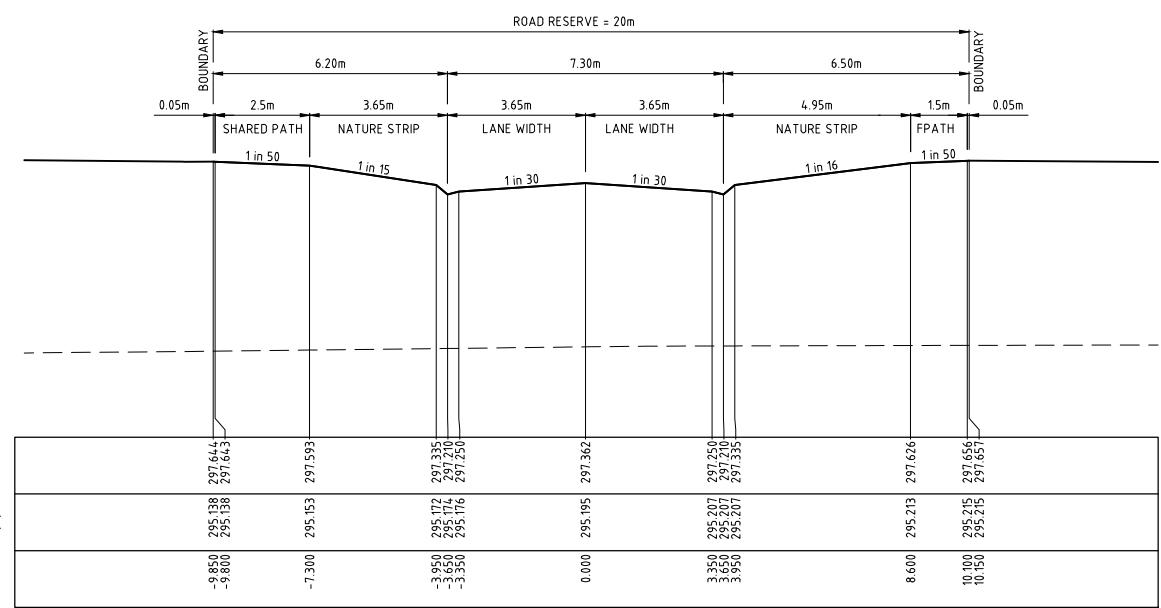
RTPCH 346.396



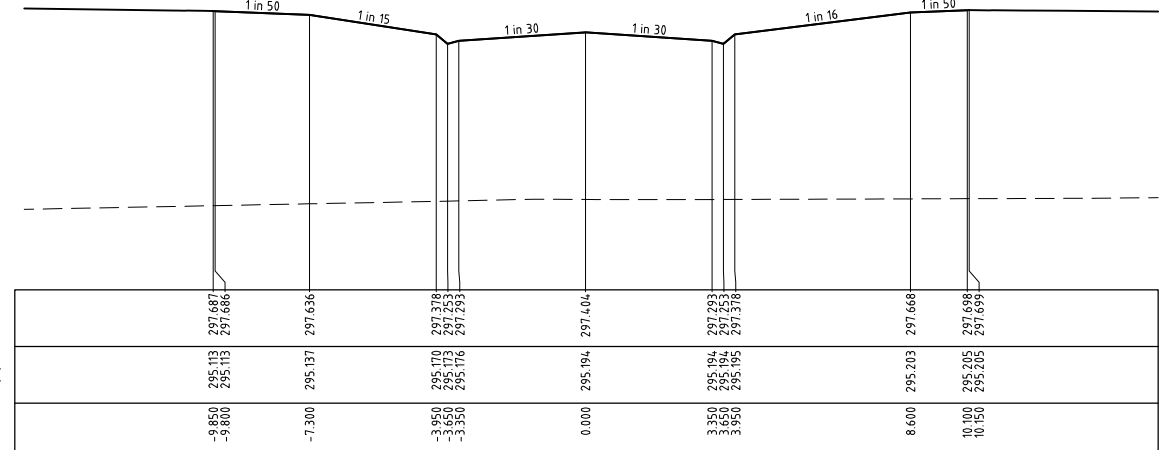
LTP CH 327.091



RTPCH 284.098



CH 378.055



RTPCH 367.433

C	STAGE EXTENTS UPDATED	23.03.23	MR	TP
B	CONSTRUCTION ISSUE	08.04.22	MR	TP
A	ISSUED TO COUNCIL	26.11.21	MR	TP
No	REVISION	DATE	DESIGNER	APPROVED

Approved for Construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

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
NOVEMBER 2021

NEWBRIDGE SOUTH ESTATE
STAGE 15
MITCHELL SHIRE COUNCIL
CROSS SECTIONS - SMILAX STREET

Drawing No: 18040-15-06

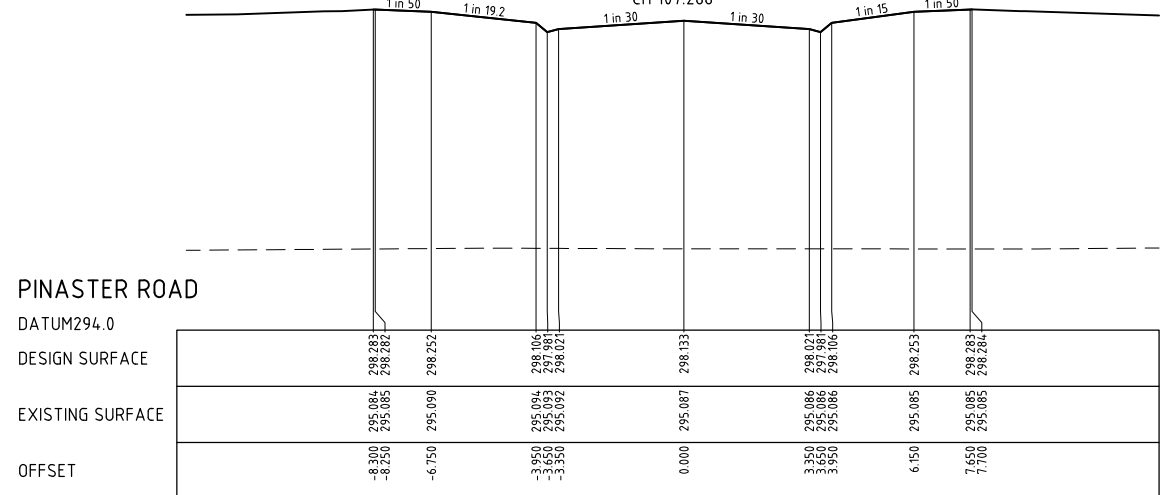
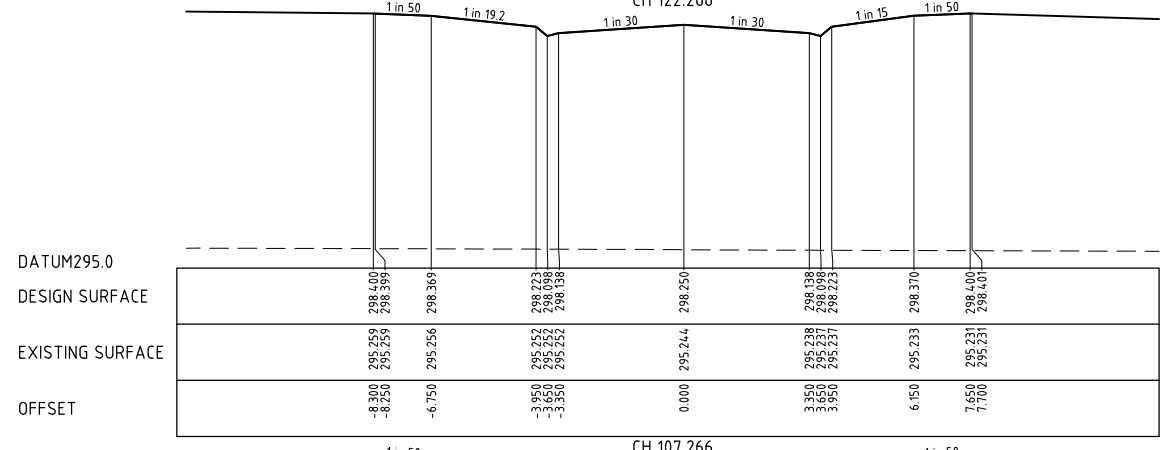
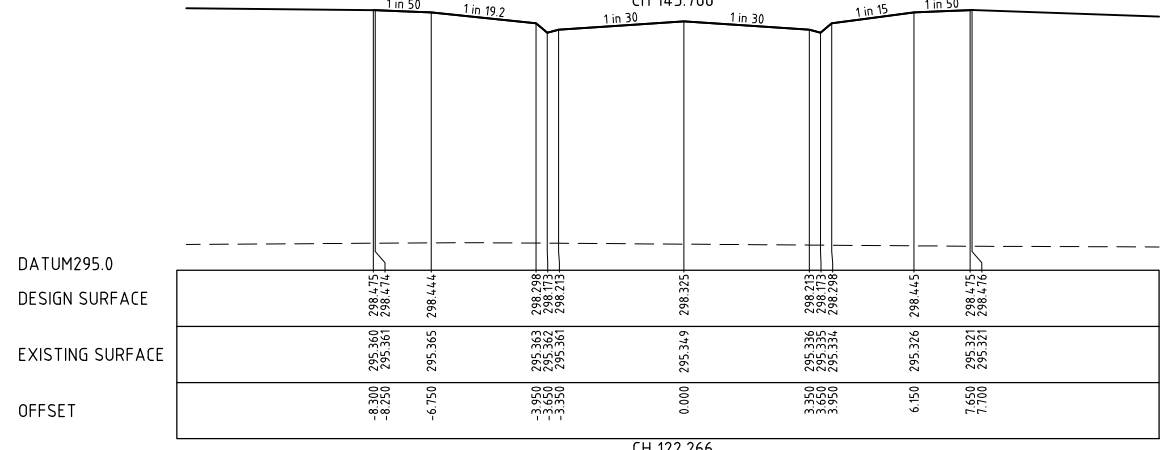
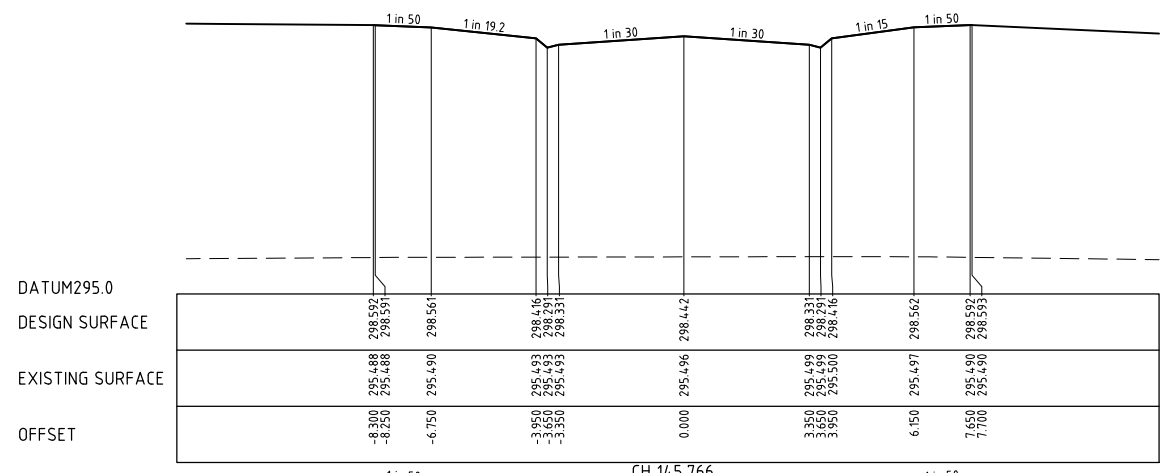
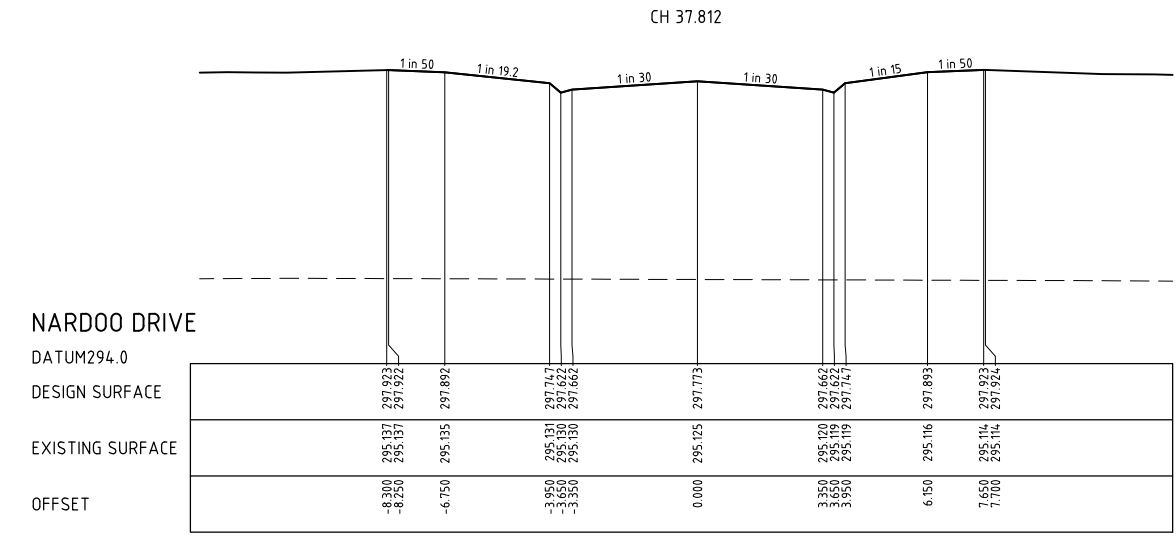
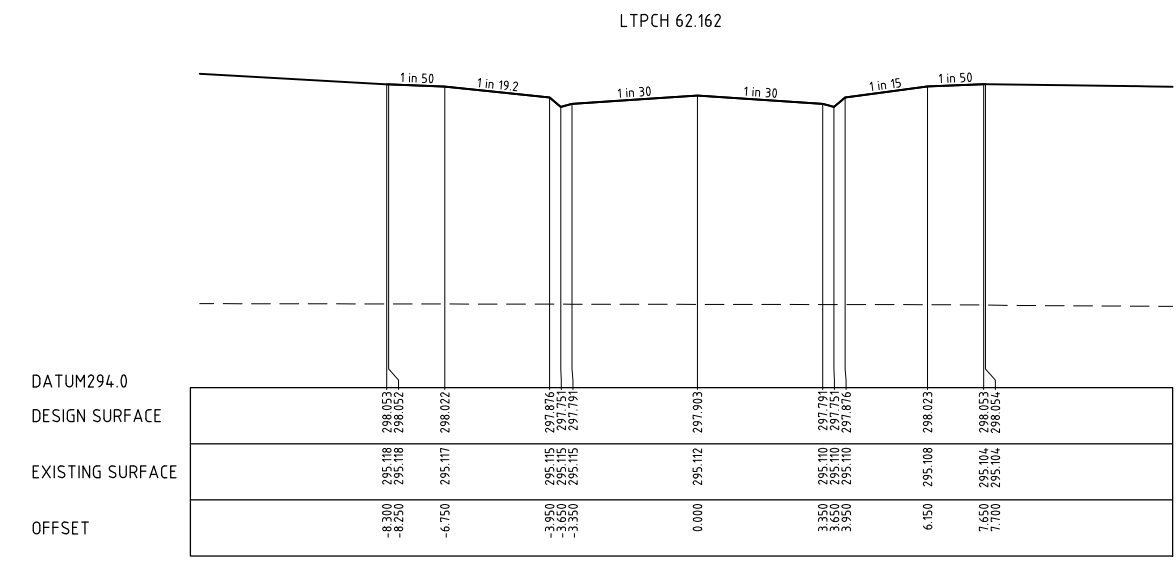
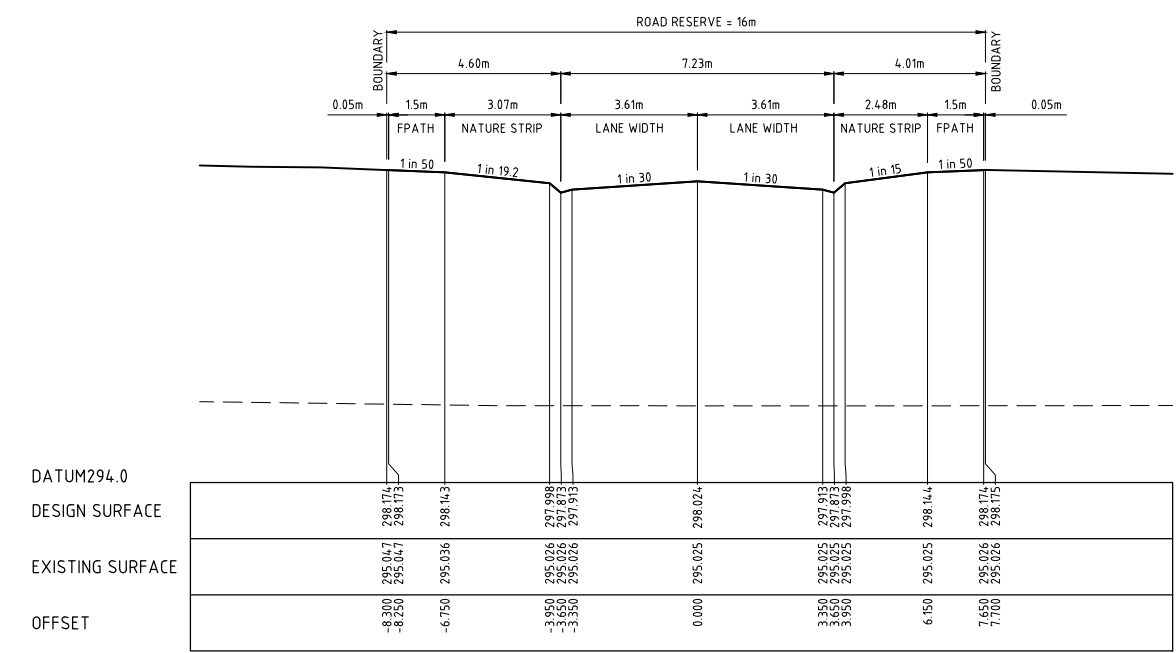
Revision: C

Sheet No: 06 of 12

Scale @ A1
H1:100, V1:50

© Urban Design and Management Pty Ltd
ABN 62 525 443 156

LEGEND
 - - - - - EXISTING SURFACE
 ———— DESIGN LINE



No	REVISION	DATE	DESIGNER	APPROVED
C	STAGE EXTENTS UPDATED	23.03.23	HR	TP
B	CONSTRUCTION ISSUE	08.04.22	MR	TP
A	ISSUED TO COUNCIL	26.11.21	MR	TP

Approved for Construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

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
NOVEMBER 2021

NEWBRIDGE SOUTH ESTATE
 STAGE 15
 MITCHELL SHIRE COUNCIL
 CROSS SECTIONS - NARDOO DRIVE &
 PINASTER ROAD

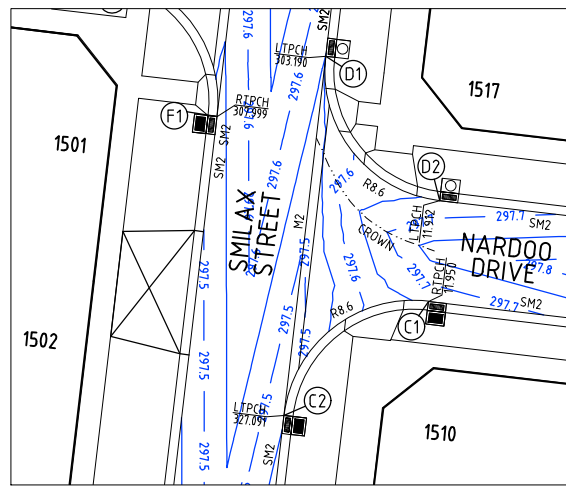
Drawing No: 18040-15-07

Revision: C

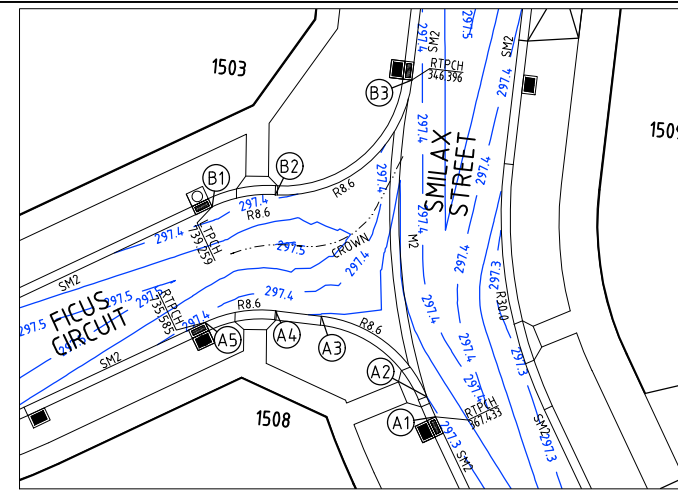
Sheet No: 07 of 12

Scale @ A1
 H1:100, V1:50
 0 0.5 1 2 4

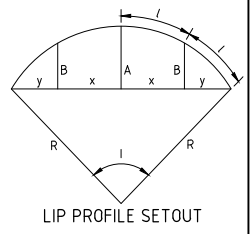
© Urban Design and Management Pty Ltd
 ABN 62 525 443 156



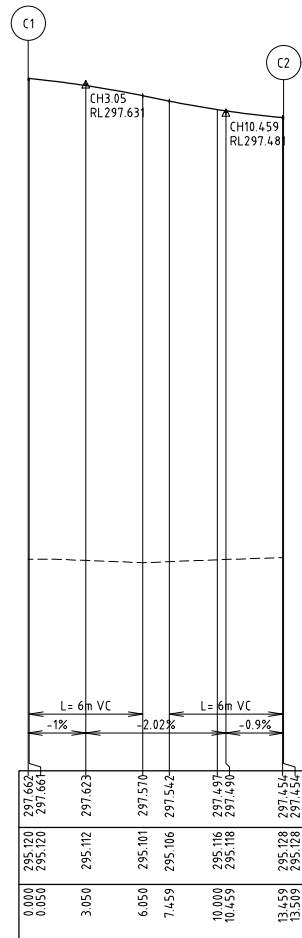
INTERSECTION DETAIL PLAN
NARDOO DRIVE & SMILAX STREET
SCALE 1:250



INTERSECTION DETAIL PLAN
NARDOO DRIVE & SMILAX STREET
SCALE 1:250



LIP PROFILE SETOUT



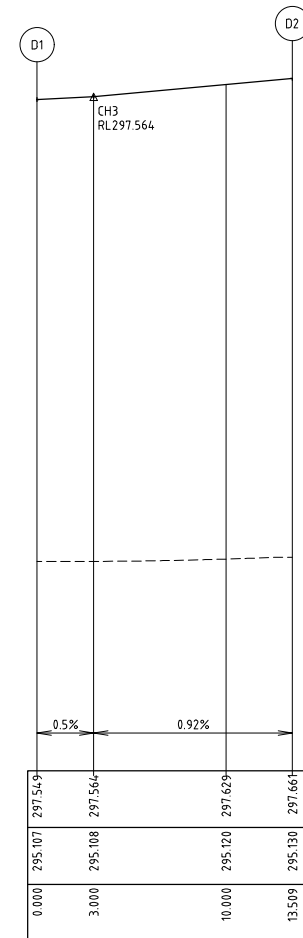
VERTICAL GEOMETRY
DATUM RL294
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE

SCALE H 1:250
V 1:25
LIP LINE C

Alignment C

Point no	Easting	Northing	RL
C1	1899.806	2160.434	297.662
C2	1890.258	2152.899	297.454

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
C1 - C2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	297.556



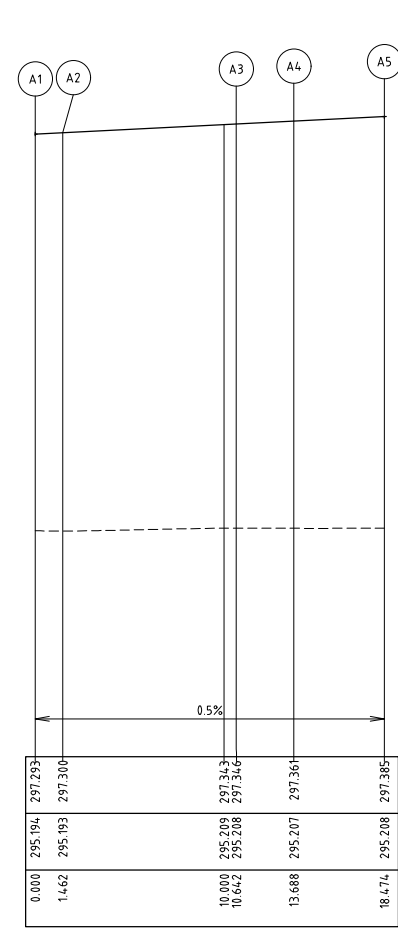
VERTICAL GEOMETRY
DATUM RL294
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE

SCALE H 1:250
V 1:25
LIP LINE D

Alignment D

Point no	Easting	Northing	RL
D1	1893.017	2176.639	297.549
D2	1900.552	2167.092	297.661

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
D1 - D2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	297.599



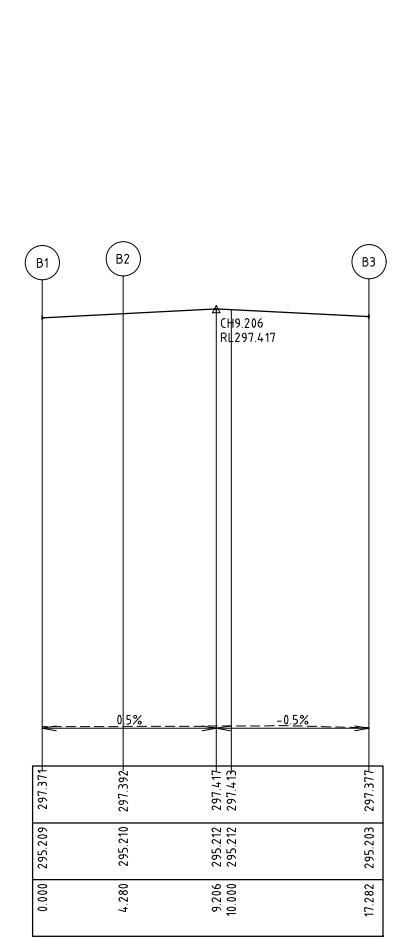
VERTICAL GEOMETRY
DATUM RL294
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE

SCALE H 1:250
V 1:25
LIP LINE A

Alignment A

Point no	Easting	Northing	RL
A1	1882.903	2112.262	297.293
A2	1882.316	2113.601	297.300
A3	1875.356	2118.904	297.346
A4	1872.331	2119.260	297.361
A5	1867.667	2118.503	297.385

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
A1 - A2	3.047	27.500	1.462	0.010	0.007	0.366	0.365	0.366	297.296
A2 - A3	61.160	8.600	9.180	1.196	0.892	2.268	2.107	2.295	297.323
A4 - A5	31.886	8.600	4.786	0.331	0.248	1.193	1.170	1.197	297.373



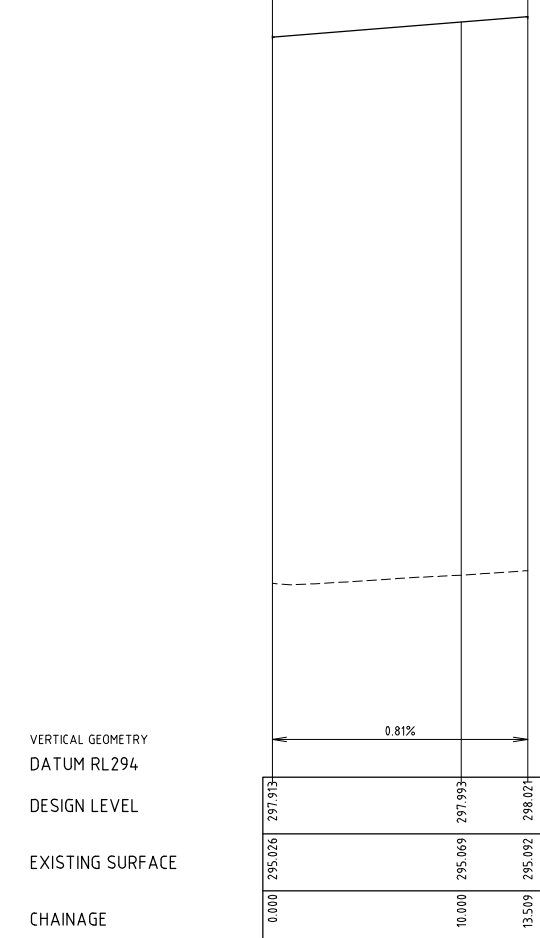
VERTICAL GEOMETRY
DATUM RL295
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE

SCALE H 1:250
V 1:25
LIP LINE B

Alignment B

Point no	Easting	Northing	RL
B1	1868.144	2126.129	297.371
B2	1872.303	2126.931	297.392
B3	1881.346	2134.510	297.377

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
B1 - B2	28.512	8.600	4.280	0.265	0.198	1.067	1.051	1.070	297.382
B2 - B3	86.626	8.600	13.002	2.343	1.735	3.174	2.726	3.251	297.409



VERTICAL GEOMETRY
DATUM RL294
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE

SCALE H 1:250
V 1:25
LIP LINE E

Alignment E

Point no	Easting	Northing	RL
E1	1950.457	2161.212	297.913
E2	1960.004	2168.747	298.021

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
E1 - E2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	297.967

No	REVISION	DATE	DESIGN	APPROVED
C	STAGE EXTENTS UPDATED	23.03.23	MR	TP
B	CONSTRUCTION ISSUE	08.04.22	MR	TP
A	ISSUED TO COUNCIL	26.11.21	MR	TP



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
NOVEMBER 2021

NEWBRIDGE SOUTH ESTATE

STAGE 15
MITCHELL SHIRE COUNCIL
INTERSECTION DETAIL PLAN
SHEET 1 OF 3

Drawing No: 18040-15-08

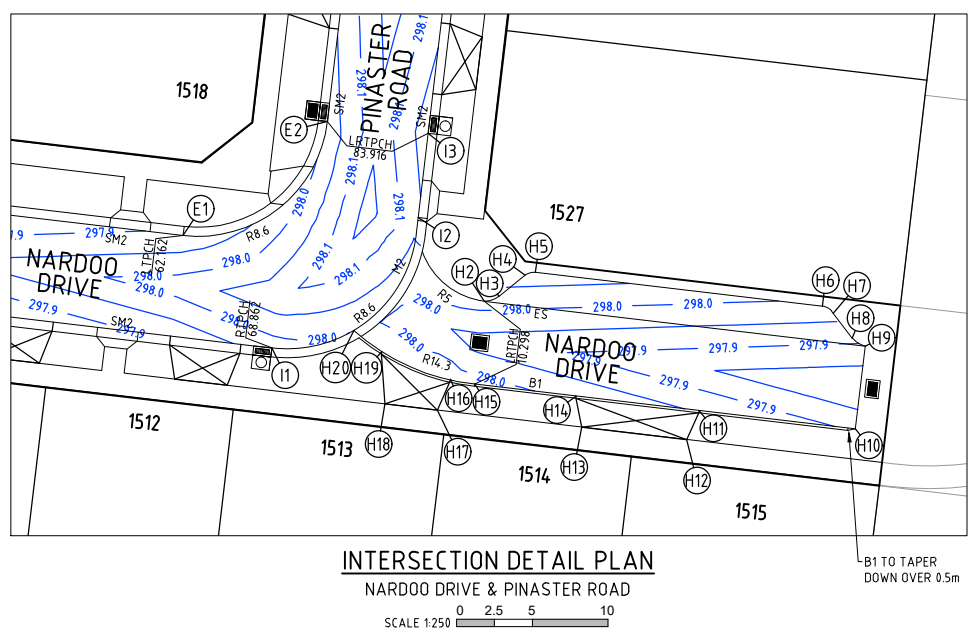
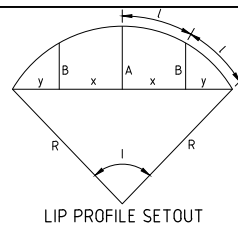
Revision: C

Sheet No: 08 of 12

Scale @ A1
AS SHOWN

© Urban Design and Management Pty Ltd
ABN 62 525 443 156

File name 18040-15-08-10.dwg layout name 08 file location L:\Work\Eng\18040_Newbridge_Estate\Stage 15\Drawings
plotted by Mark Rossitto plot date 4/13/2023 1:19 PM



Alignment H

Point no	Easting	Northing	RL
H1	1966.003	2162.401	298.059
H2	1970.383	2156.851	298.020
H3	1971.347	2157.182	298.030
H4	1973.077	2158.595	298.076
H5	1973.754	2158.770	298.081
H6	1992.726	2156.534	297.985
H7	1993.448	2156.072	297.968
H8	1994.699	2154.431	297.912
H9	1995.559	2153.885	297.893
H10	1994.915	2148.422	297.893
H11	1984.587	214.9.639	297.945
H12	1983.757	214.7.723	298.154
H13	1976.805	214.8.542	298.189
H14	1976.443	2150.599	297.986
H15	1969.740	2151.389	298.020
H16	1968.128	2151.655	298.035
H17	1967.271	214.9.666	298.218
H18	1963.795	2150.075	298.211
H19	1963.598	2153.533	298.018
H20	1961.744	2154.933	298.000

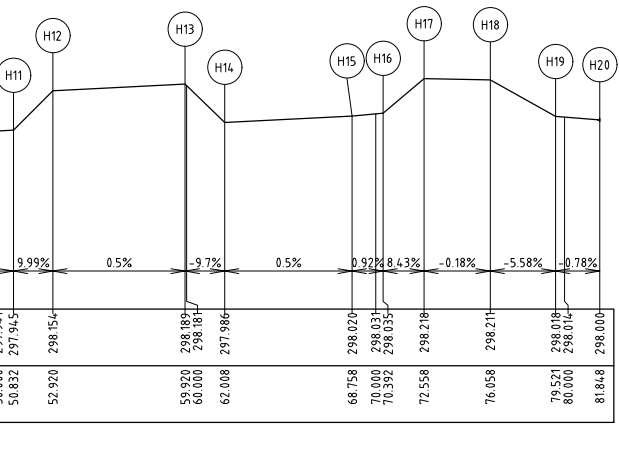
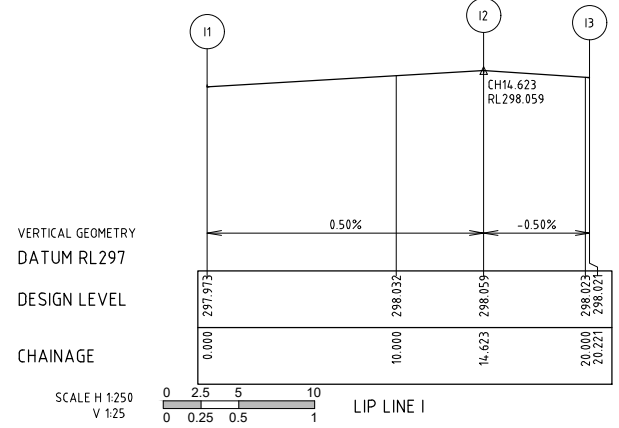
Curve no	l	Radius	Arc	A	B	X	Y	l	Mid point RL
H1 - H2	90.000	5.000	7.854	1.464	1.084	1.913	1.622	1.963	298.040
H2 - H3	39.743	1.499	1.040	0.089	0.067	0.259	0.251	0.260	298.025
H4 - H5	39.969	1.023	0.714	0.062	0.046	0.178	0.172	0.178	298.078
H6 - H7	4.934	1.023	0.884	0.094	0.070	0.219	0.209	0.221	297.977
H8 - H9	39.743	1.499	1.040	0.089	0.067	0.259	0.251	0.260	297.903
H15 - H16	6.549	14.302	1.635	0.023	0.018	0.409	0.408	0.409	298.028
H19 - H20	9.319	14.302	2.326	0.047	0.035	0.581	0.580	0.582	298.009

Alignment I

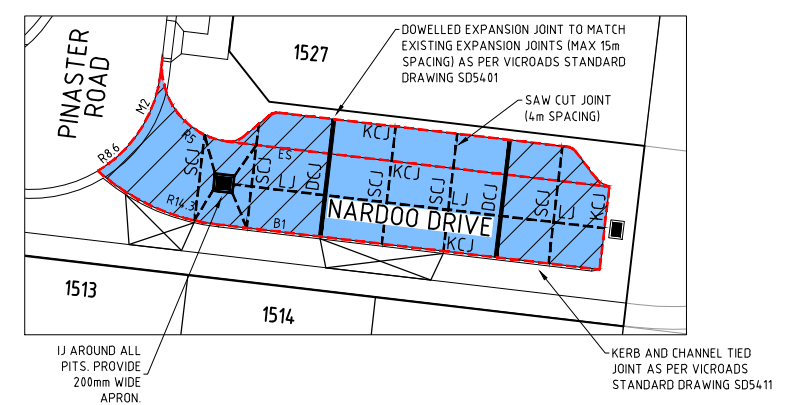
Point no	Easting	Northing	RL
I1	1956.327	2153.774	297.973
I2	1966.003	2162.401	298.059
I3	1966.659	2167.961	298.021

Curve no	l	Radius	Arc	A	B	X	Y	l	Mid point RL
I1 - I2	96.254	8.705	14.623	2.894	2.138	3.549	2.932	3.656	298.016

INTERSECTION DETAIL PLAN
NARDOO DRIVE & PINASTER ROAD
SCALE 1:250



SCALE H 1:250
V 1:25



GENERAL NOTES

ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE, OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.

ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH

CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.

PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.

CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN, SEALING WITH PLASTIC SHEETING OR CURING OIL.

SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.

ALL DOWELS TO BE 33mm DIAMETER, GRADE 250R STEEL BARS, 450mm LONG AND PLACED AT 300mm CENTRES. DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED.

THE BARS SHOULD CONSIST OF 12mm DIAMETER GRADE 500Y DEFORMED STEEL BARS 1m LONG AND PLACED AT 800mm CENTRES

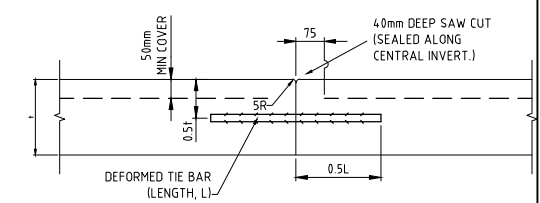
ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.

VARIATION TO JOINT LAYOUT BY CONTRACTOR WILL NOT BE ACCEPTED WITHOUT SPECIFIC WRITTEN APPROVAL OF SUPERINTENDENT & COUNCIL.

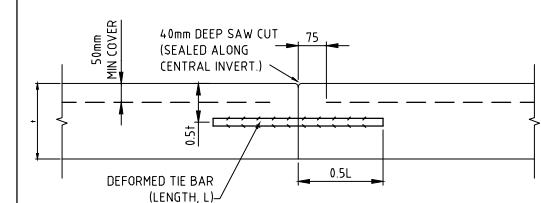
CURING OIL AND ALIPHATIC ALCOHOL IS TO BE USED ON SURFACE OF CONCRETE IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION.

THE CONCRETE IS TO BE POURED IN ALTERNATIVE BAYS. BAYS THAT ARE HATCHED ARE TO BE POURED FIRST. SECOND POUR IS TO TAKE PLACE AFTER THE INITIAL PLASTIC SHRINKAGE HAS OCCURRED.

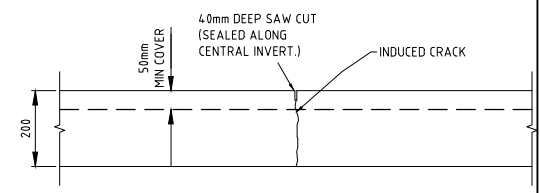
TIED CONSTRUCTION JOINT (CJ)



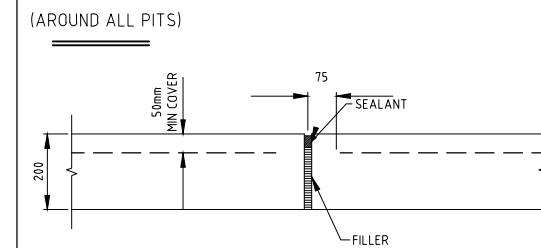
LONGITUDINAL JOINT (LJ)



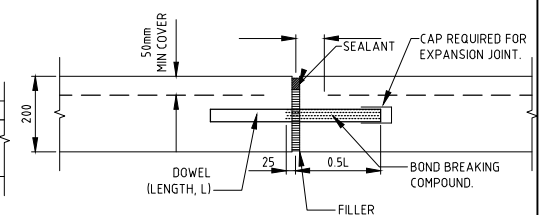
SAW CUT JOINT (SCJ)



ISOLATION JOINT (IJ)



DOWELLED CONSTRUCTION JOINT (DCJ)



CONSTRUCTION JOINTS
NOT TO SCALE

No	REVISION	DATE	DESIGN	APPROVED
C	STAGE EXTENTS UPDATED	23.03.23	MR	TP
B	CONSTRUCTION ISSUE	08.04.22	MR	TP
A	ISSUED TO COUNCIL	26.11.21	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, 3249

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

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
NOVEMBER 2021

NEWBRIDGE SOUTH ESTATE

STAGE 15
MITCHELL SHIRE COUNCIL
INTERSECTION DETAIL PLAN SHEET 2 OF 3
& CONCRETE JOINTING PLAN

Drawing No: 18040-15-09

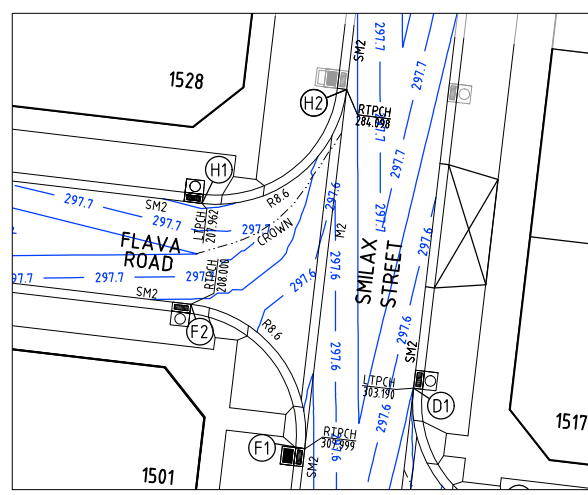
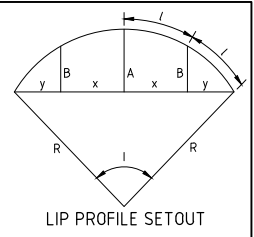
Revision: C

Sheet No: 09 of 12

Scale @ A1
AS SHOWN

© Urban Design and Management Pty Ltd
ABN 62 525 443 156

File name 18040-15-08-10.dwg layout name 09 file location L:\Work\Eng\18040_Newbridge_Estate\Stage 15\Drawings plotted by Mark Rossitto plot date 4/13/2023 1:26 PM



SCALE H 1:250
SCALE V 1:25

SCALE H 1:250
SCALE V 1:25

SCALE H 1:250
SCALE V 1:25

VERTICAL GEOMETRY
DATUM RL294

DESIGN LEVEL	297.639	297.666	297.643	297.626
EXISTING SURFACE	295.920	295.912	295.924	295.945
CHAINAGE	0.000	5.422	10.000	13.509

VERTICAL GEOMETRY
DATUM RL294

DESIGN LEVEL	297.530	297.610	297.639
EXISTING SURFACE	295.090	295.105	295.118
CHAINAGE	0.000	10.000	13.509

Alignment H

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	I	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	I	Mid point RL
F1 - F2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	297.584

LEGEND	1	3	4	6	7	8	9	10	11EP	11	6	14	15	49	125	7	7A
EXISTING SURFACE	[Profile Line]																
DESIGN SURFACE	[Profile Line]																
DRAINAGE PIPE/PIT	[Profile Line]																
HYDRAULIC GRADE LINE	[Profile Line]																
CRB - COMPACTED CLASS 3 FCR BACKFILL	[Profile Line]																
REFER TO MWC DRAINAGE WORKS FOR SEDIMENT BASIN AND OUTFLOW DETAILS	[Profile Line]																
DESIGN FLOW (m ³ /s)	1.852	1.797		1.806	0.140	0.134	0.135	0.126		0.115	1.682	1.333		0.009	0.004		
CAPACITY (m ³ /s)	2.076	2.049		2.192	0.147	0.143	0.143	0.143		0.143	1.780	1.453		0.097	0.097		
AT GRADE VELOCITY (m/s)	1.09	1.55		1.94	0.93	0.9	0.9	0.9		0.9	1.57	1.68		1.37	1.37		
PIPE SIZE (mm)	(3x)900φ	(3x)750φ		1200φ	450φ	450φ	450φ	450φ		450φ	1200φ	1050φ		300φ	300φ		
GRADE DATUM	1 in 690	1 in 266		1 in 317	1 in 375	1 in 400	1 in 400	1 in 400		1 in 400	1 in 480	1 in 353		1 in 100	1 in 100		
DEPTH TO INVERT	0.900	0.900		2.236	2.236	2.279	2.278	2.233		2.340	2.236	2.255		2.325	2.325		
HYDRAULIC GRADE LINE	294.900	294.900		295.032	295.032	295.062	295.062	295.062		295.062	292.0	292.0		292.0	292.0		
INVERT LEVEL	294.900	294.900		295.032	295.032	295.062	295.062	295.062		295.062	292.0	292.0		292.0	292.0		
FINISHED SURFACE LEVELS	295.262	295.252		295.208	295.196	295.229	295.229	295.229		295.229	297.403	297.403		296.791	296.791		
EXISTING SURFACE LEVEL	295.262	295.252		295.208	295.196	295.229	295.229	295.229		295.229	297.403	297.403		296.791	296.791		
CHAINAGE (Reach Length)	0.000	(21.123)		(21.632)	(36.423)	(15.828)	(12.010)	(18.212)		(8.813)	(81.440)	(37.197)		(8.800)	(9.528)		

D	PITS 1 TO 4 UPDATED	13.06.23	MR	TP
C	STAGE EXTENTS UPDATED	23.03.23	MR	TP
B	CONSTRUCTION ISSUE	08.04.22	MR	TP
A	ISSUED TO COUNCIL	26.11.21	MR	TP
No	REVISION	DATE	DESIGN	APPROVED

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, 3249

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

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
NOVEMBER 2021

NEWBRIDGE SOUTH ESTATE
STAGE 15
MITCHELL SHIRE COUNCIL
INTERSECTION DETAIL PLAN - SHEET 3 OF 3
& DRAINAGE LONGITUDINAL SECTIONS
SHEET 1 OF 2

Drawing No: 18040-15-10

Revision: D

Sheet No: 10 of 12

Scale @ A1

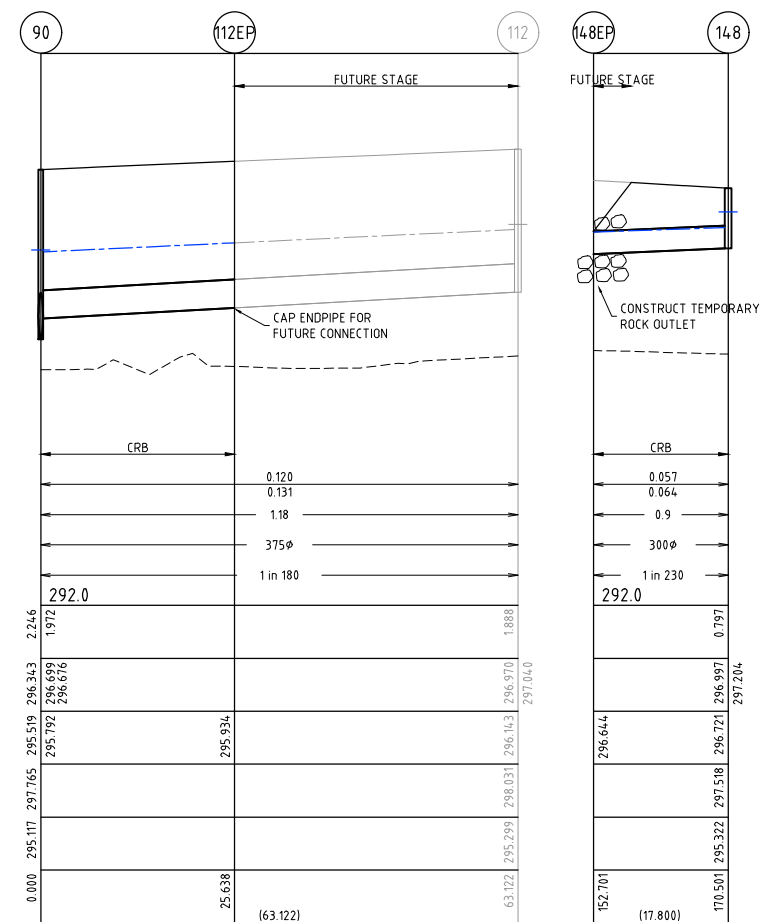
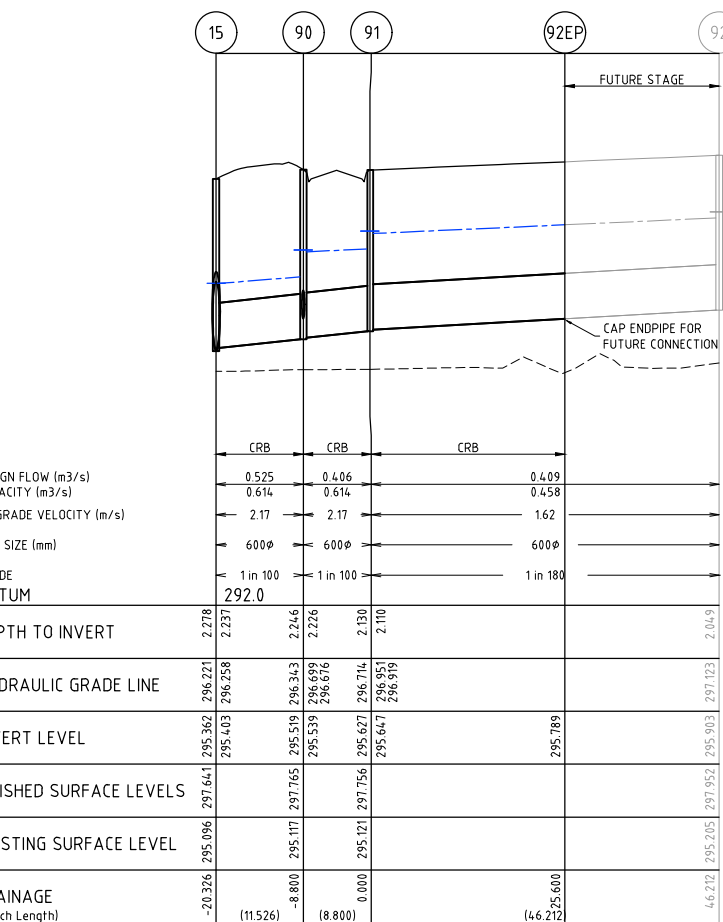
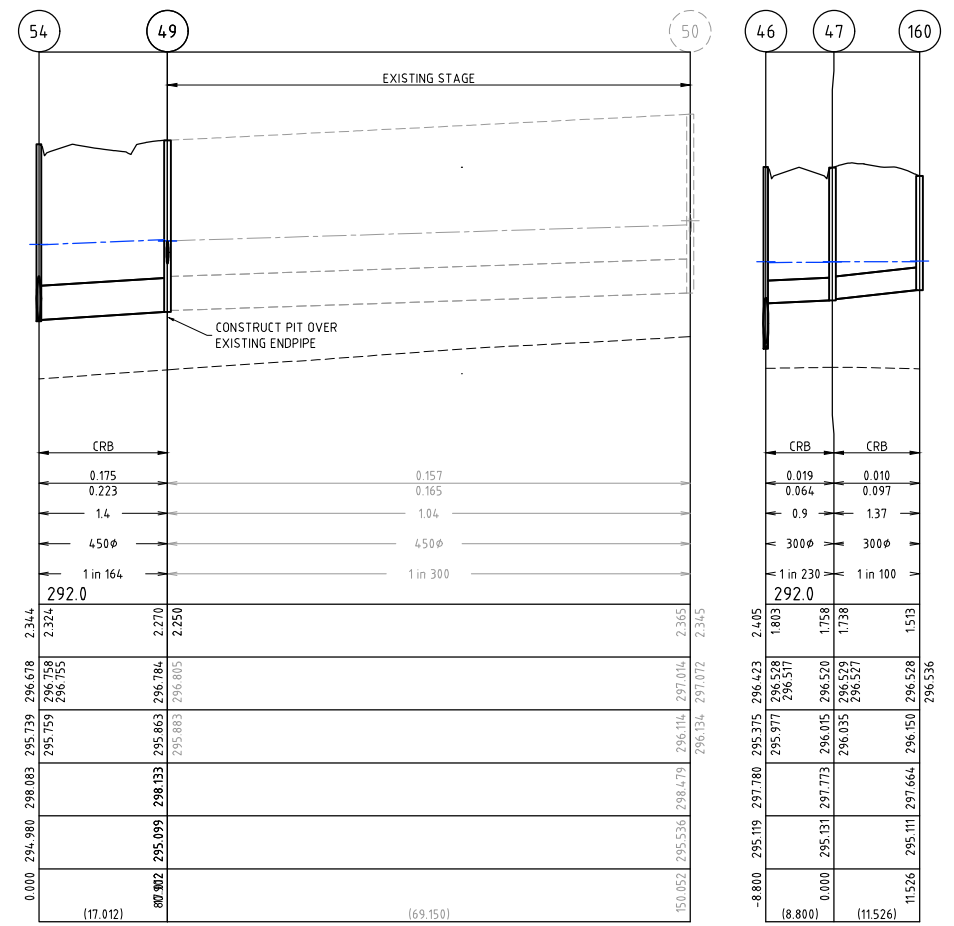
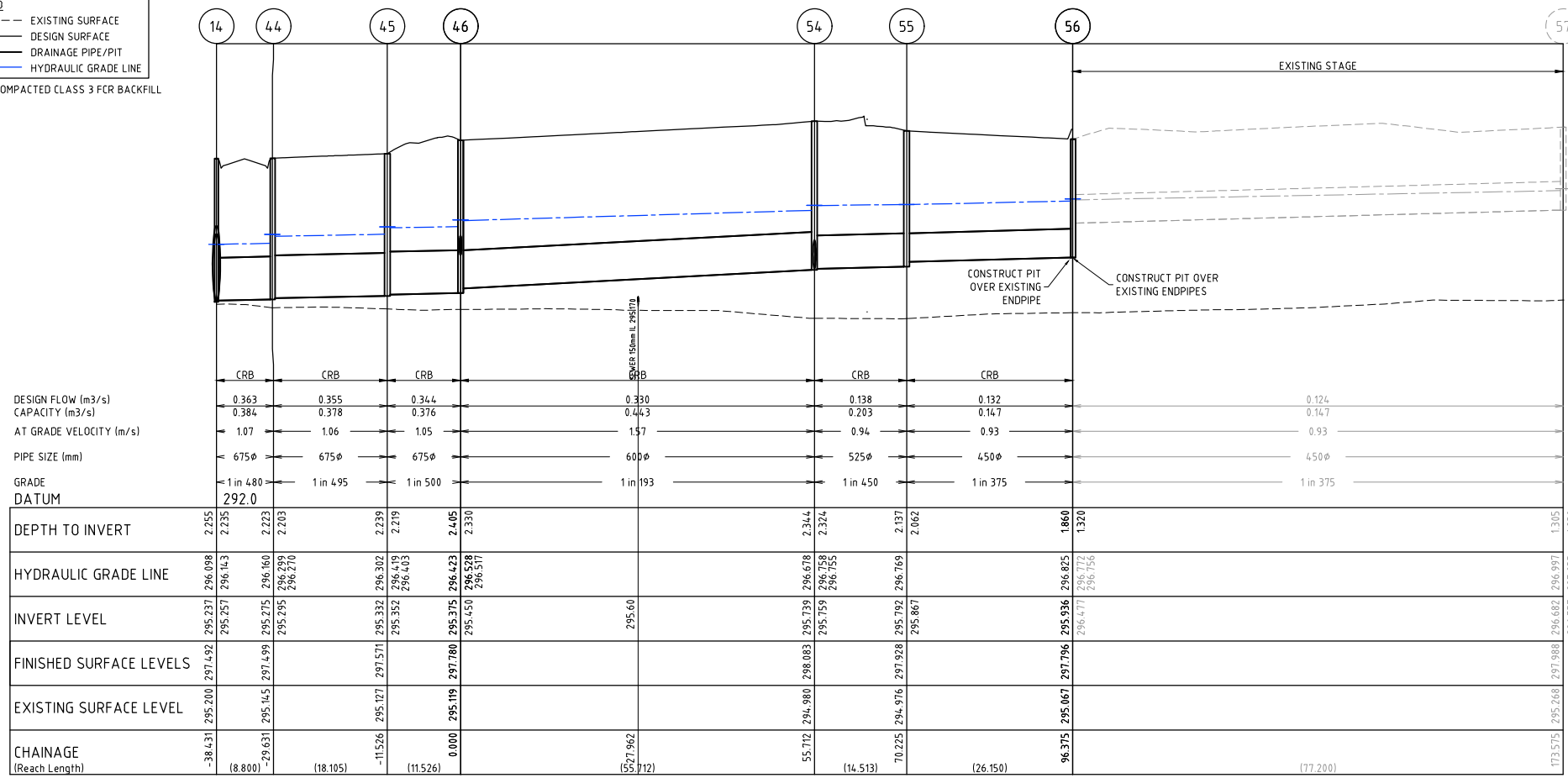
AS SHOWN

© Urban Design and Management Pty Ltd
ABN 62 525 443 156

File name 18040-15-08-10.dwg layout name 10 file location L:\Work\Eng\18040_Newbridge_Estate\Stage 15\Drawings
plotted by Mark Rossitto plot date 6/13/2023 11:07 AM

---	EXISTING SURFACE
---	DESIGN SURFACE
---	DRAINAGE PIPE/PIT
---	HYDRAULIC GRADE LINE

CRB - COMPACTED CLASS 3 FCR BACKFILL



NAME	TYPE	INTERNAL		INLET		OUTLET		PIT		STD DWG	REMARKS
		WIDTH	LENGTH	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH		
1	ENDPIPE			(3x)900	294.9						CONSTRUCT ROCK OUTLET OVER ENDSPIPE
3	JUNCTION PIT	600	3900	(3x)750	294.951	(3x)900	294.931	296.811	1.88	EDCM 607	
4	GRATED SIDE ENTRY PIT	3600	900	1200	295.052	(3x)750	295.032	297.258	2.226	EDCM 601 & EDCM 607	
6	GRATED SIDE ENTRY PIT	3900	1050	450	295.47	1200	295.167	297.403	2.236	SD1023	VICROADS DOUBLE HAUNCHED PIT
7	GRATED SIDE ENTRY PIT	600	900	450	295.249	450	295.229	297.508	2.279	EDCM 603	
7A	GRATED SIDE ENTRY PIT	600	900	300	295.187	300	295.187	297.508	2.279	EDCM 603	
8	JUNCTION PIT	600	900	450	295.299	450	295.279	297.557	2.278	EDCM 605	
9	GRATED SIDE ENTRY PIT	600	900	450	295.365	450	295.345	297.622	2.278	EDCM 603	
10	GRATED SIDE ENTRY PIT	600	900	450	295.407	450	295.387	297.62	2.233	EDCM 603	
11EP	ENDPIPE					375	295.549				
14	GRATED SIDE ENTRY PIT	1650	900	1050	295.257	1200	295.237	297.492	2.255	EDCM 603 & EDCM 607	
15	GRATED SIDE ENTRY PIT	1350	1200	900	295.382	1050	295.362	297.641	2.278	SD1023	VICROADS DOUBLE HAUNCHED PIT
44	JUNCTION PIT	900	900	675	295.295	675	295.275	297.499	2.223	EDCM 605 & EDCM 607	
45	GRATED SIDE ENTRY PIT	900	1200	675	295.352	675	295.332	297.571	2.239	SD1023	VICROADS DOUBLE HAUNCHED PIT
46	GRATED SIDE ENTRY PIT	750	1200	600	295.45	675	295.375	297.78	2.405	SD1023	VICROADS DOUBLE HAUNCHED PIT
47	GRATED SIDE ENTRY PIT	600	900	300	295.977	300	295.977	297.773	1.758	EDCM 603	
49	GRATED SIDE ENTRY PIT	600	1200	EX 450	295.883	450	295.863	298.133	2.27	EDCM 603 & EDCM 607	
54	GRATED SIDE ENTRY PIT	750	900	525	295.759	600	295.739	298.083	2.344	EDCM 603 & EDCM 607	
55	GRATED ENTRY PIT	750	900	450	295.867	525	295.792	297.928	2.137	EDCM 607	
56	GRATED ENTRY PIT	600	900	450	296.477	450	295.936	297.796	1.86	EDCM 607	
90	GRATED SIDE ENTRY PIT	600	1200	600	295.539	600	295.519	297.765	2.246	EDCM 603 & EDCM 607	
91	GRATED SIDE ENTRY PIT	900	900	375	295.792	600	295.627	297.756	2.13	EDCM 603 & EDCM 607	
92EP	ENDPIPE					600	295.789				CAP ENDSPIPE FOR FUTURE CONNECTION
112EP	ENDPIPE					375	295.934				CAP ENDSPIPE FOR FUTURE CONNECTION
125	GRATED SIDE ENTRY PIT	600	900			300	296.589	298.139	1.55	EDCM 603	
148	JUNCTION PIT	600	900			300	296.721	297.518	0.797	EDCM 605	
148EP	ENDPIPE			300	296.644						CONSTRUCT ROCK OUTLET OVER ENDSPIPE
160	GRATED SIDE ENTRY PIT	600	900			300	296.15	297.664	1.513	EDCM 603	

D	PITS 1 TO 4 AMENDED	13.06.23	MR	TP
C	STAGE EXTENTS UPDATED	23.03.23	MR	TP
B	CONSTRUCTION ISSUE	08.04.22	MR	TP
A	ISSUED TO COUNCIL	26.11.21	MR	TP
No	REVISION	DATE	DESIGN	APPROVED

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, 3249

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

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
NOVEMBER 2021

NEWBRIDGE SOUTH ESTATE
STAGE 15
MITCHELL SHIRE COUNCIL
DRAINAGE LONGITUDINAL SECTIONS SHEET 2 OF 2
& PIT SCHEDULE

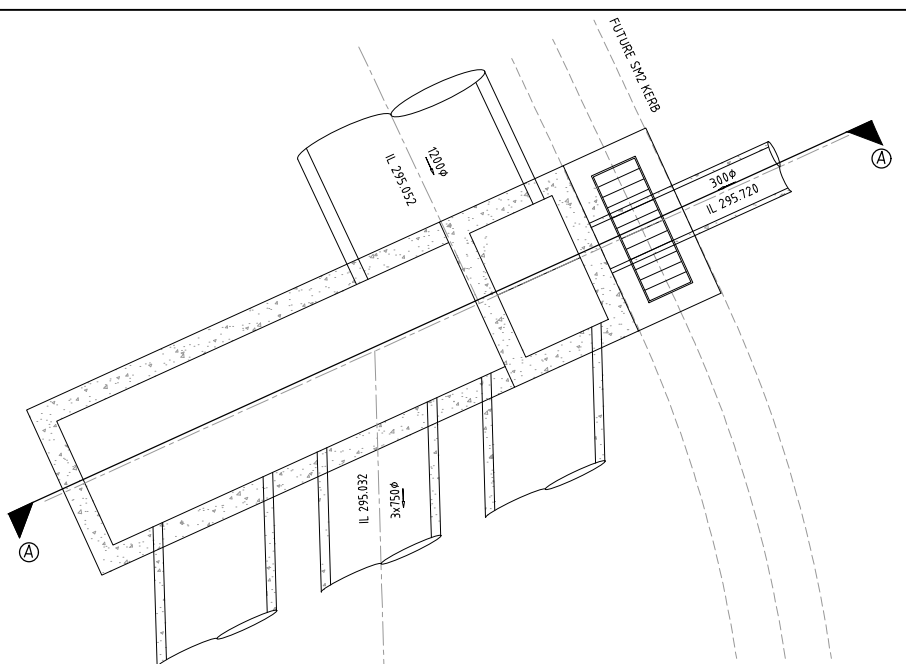
Drawing No: 18040-15-11

Revision: D

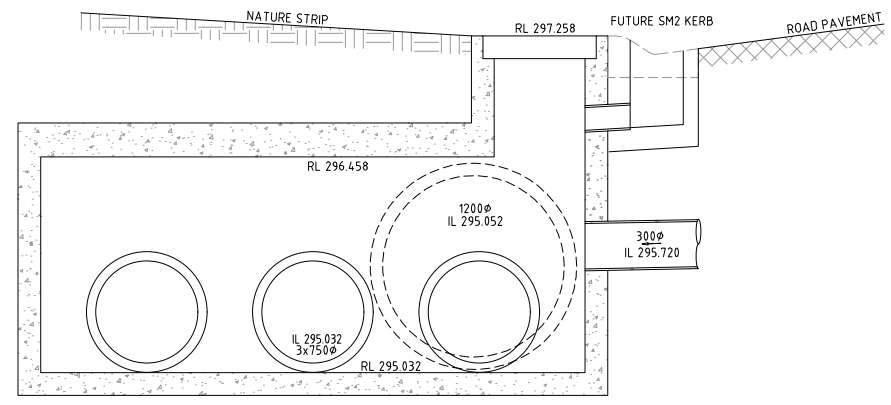
Sheet No: 11 of 12

Scale @ A1
0 5 10 20
H1:500, V1:50
0 0.5 1 2

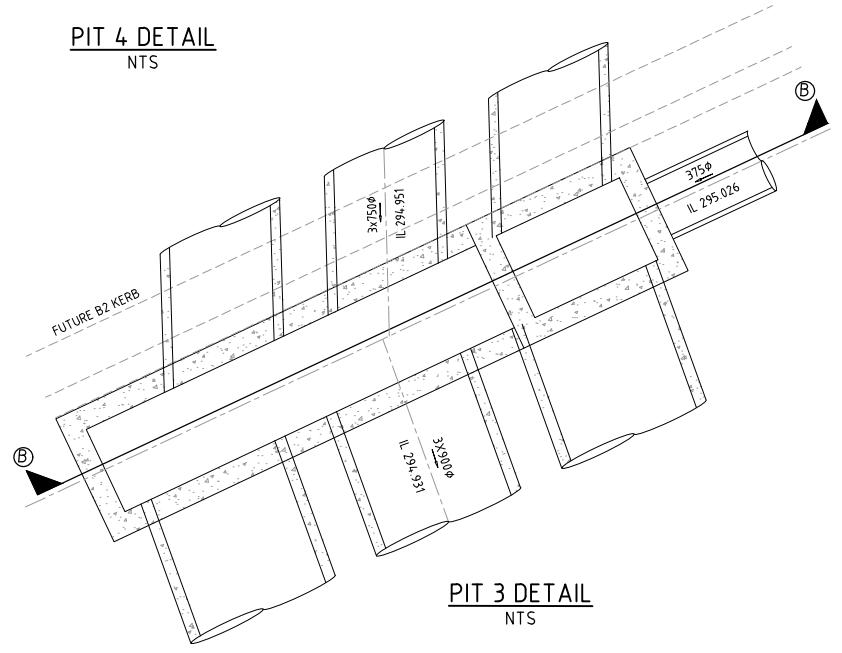
© Urban Design and Management Pty Ltd
ABN 62 525 443 156



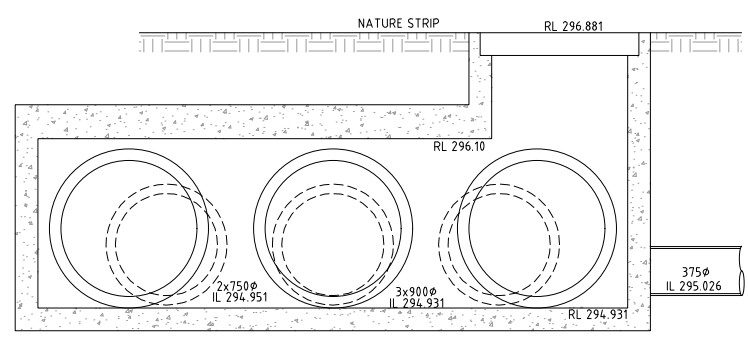
PIT 4 DETAIL
NTS



SECTION A-A
NTS



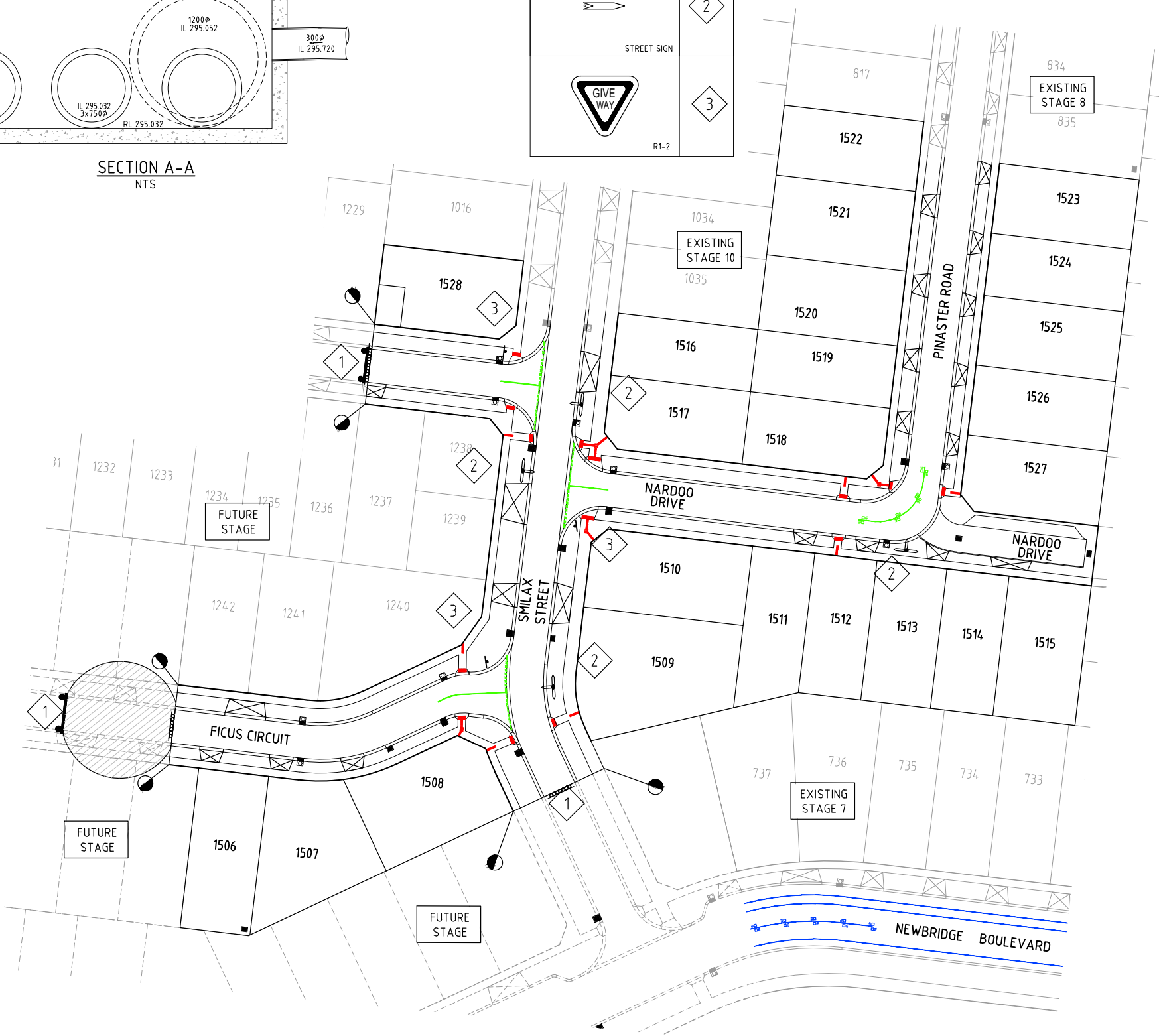
PIT 3 DETAIL
NTS



SECTION B-B
NTS

SIGN	REF
ROAD CLOSED G9-20 & D4-5	1
STREET SIGN R1-2	2
GIVE WAY	3

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



NO	REVISION	DATE	DESIGN	APPROVED
D	PIT DETAILS AMENDED	13.06.23	MR	TP
C	STAGE EXTENTS AMENDED	23.03.23	MR	TP
B	CONSTRUCTION ISSUE	08.04.22	MR	TP
A	ISSUED TO COUNCIL	26.11.21	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
NOVEMBER 2021

NEWBRIDGE SOUTH ESTATE
STAGE 15
MITCHELL SHIRE COUNCIL
SIGNAGE & LINE MARKING PLAN
& PIT DETAILS

Drawing No: 18040-15-12

Revision: D

Sheet No: 12 of 12

Scale @ A1 0 5 10 20
1:500

© Urban Design and Management Pty Ltd
ABN 62 525 443 156