

**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.

File name: 308894CR200.dwg, Layout: TBM, Date: 24/08/2021, 1:10 PM, Sheet: 2 of 26 Streets  
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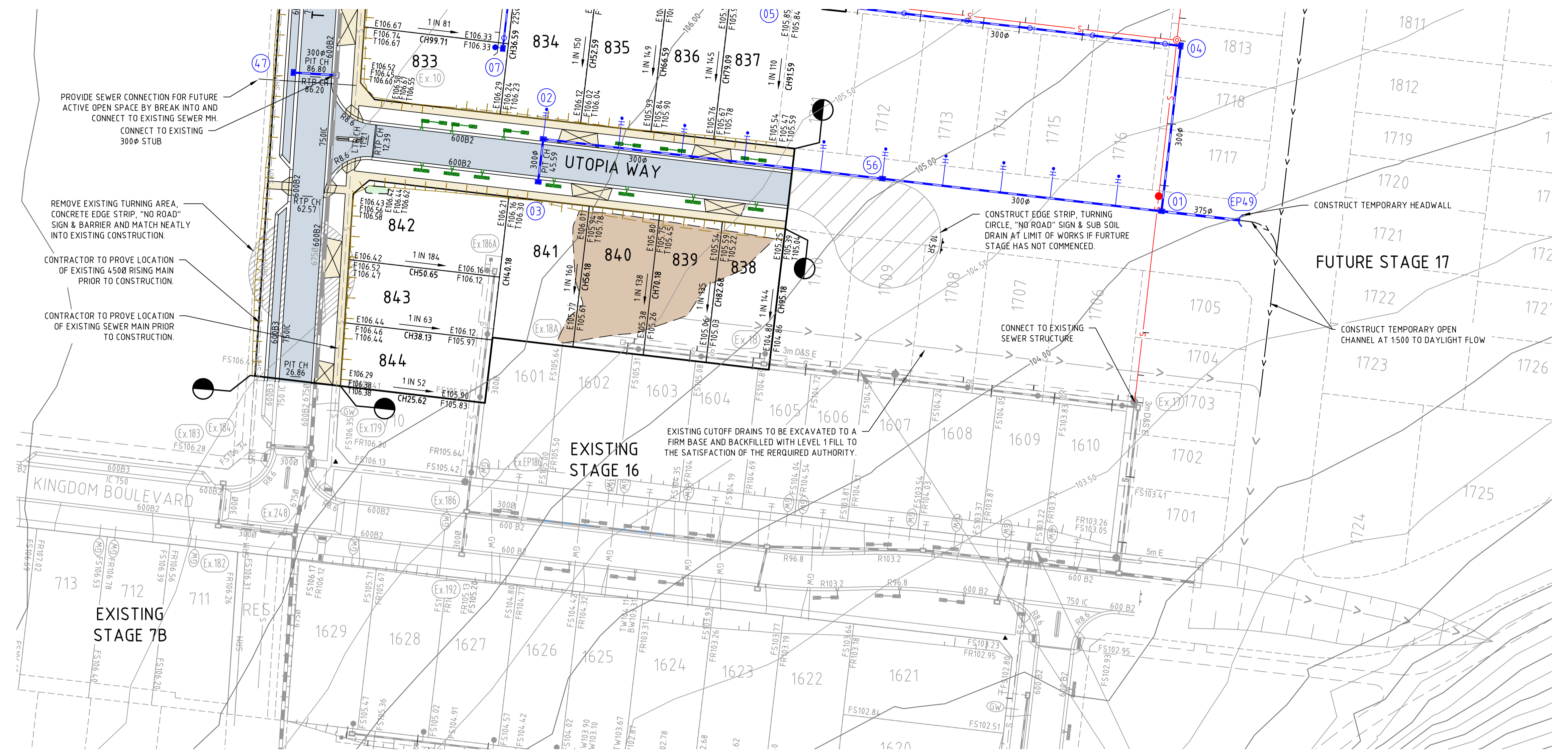
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Authorised	M.HOLMES	Date	24/08/21					
Rev	A	ISSUED FOR APPROVAL	M.H	24/08/21				
Rev		Amendments	Approved	Date				

**SEVEN<sup>TH</sup> BEND**

414 LA TROBE STREET PO BOX 16084 MELBOURNE  
 VICTORIA 3007 AUSTRALIA T 61 3 9993 7888  
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**SEVENTH BEND  
 STAGE 8  
 ROAD AND DRAINAGE  
 ROAD LAYOUT PLANS - FACE PLAN - SHEET 1  
 MELTON CITY COUNCIL  
 EXFORD ROAD MANAGEMENT PTY LTD**

**PRELIMINARY** Dwg No **308894CR200** Rev **A**



PROVIDE SEWER CONNECTION FOR FUTURE ACTIVE OPEN SPACE BY BREAK INTO AND CONNECT TO EXISTING SEWER MH. CONNECT TO EXISTING 300 $\phi$  STUB

REMOVE EXISTING TURNING AREA, CONCRETE EDGE STRIP, "NO ROAD" SIGN & BARRIER AND MATCH NEATLY INTO EXISTING CONSTRUCTION.

CONTRACTOR TO PROVE LOCATION OF EXISTING 450 $\phi$  RISING MAIN PRIOR TO CONSTRUCTION.

CONTRACTOR TO PROVE LOCATION OF EXISTING SEWER MAIN PRIOR TO CONSTRUCTION.

CONSTRUCT EDGE STRIP, TURNING CIRCLE, "NO ROAD" SIGN & SUB SOIL DRAIN AT LIMIT OF WORKS IF FUTURE STAGE HAS NOT COMMENCED.

CONSTRUCT TEMPORARY HEADWALL

FUTURE STAGE 17

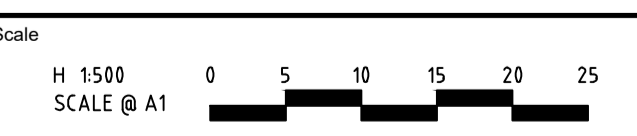
CONSTRUCT TEMPORARY OPEN CHANNEL AT 1500 TO DAYLIGHT FLOW

EXISTING CUTOFF DRAINS TO BE EXCAVATED TO A FIRM BASE AND BACKFILLED WITH LEVEL 1 FILL TO THE SATISFACTION OF THE REQUIRED AUTHORITY.

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file: \\p08891\CD\00\_406\_1\dwg\14\_1\14\_1.dwg, Date: 24/08/2021 6:17 PM, Sheet: 3 of 26 Sheets

Rev	Amendments	Approved	Date
A	ISSUED FOR APPROVAL	M.H	24/08/21



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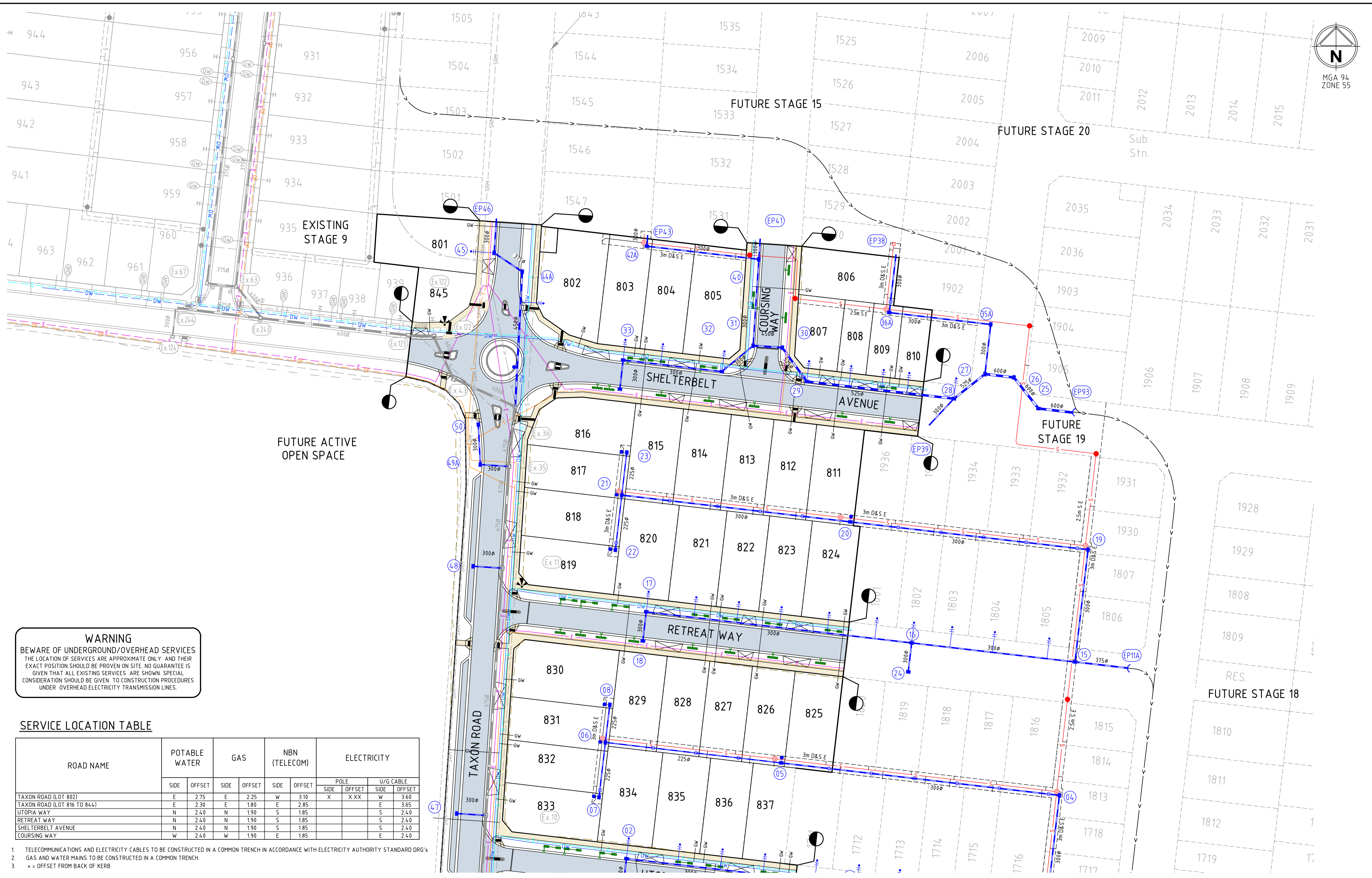
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Authorised  
M.HOLMES

Date  
24/08/21

**SEVENTH BEND  
STAGE 8  
ROAD AND DRAINAGE  
ROAD LAYOUT PLANS - FACE PLAN - SHEET 2**  
MELTON CITY COUNCIL  
EXFORD ROAD MANAGEMENT PTY LTD

**PRELIMINARY** Drg No **308894CR201** Rev **A**

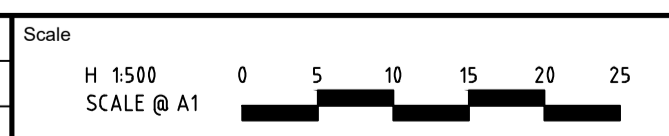


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**SERVICE LOCATION TABLE**

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE SIDE	POLE OFFSET	U/G CABLE SIDE	U/G CABLE OFFSET
TAXON ROAD (LOT 802)	E	2.75	E	2.25	W	3.10	X	X.XX	W	3.60
TAXON ROAD (LOT 816 TO 844)	E	2.30	E	1.80	E	2.85			E	3.65
UTOPIA WAY	N	2.40	N	1.90	S	1.85			S	2.40
RETREAT WAY	N	2.40	N	1.90	S	1.85			S	2.40
SHELTERBELT AVENUE	N	2.40	N	1.90	S	1.85			S	2.40
COURSING WAY	W	2.40	W	1.90	E	1.85			E	2.40

- TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG'S
- GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
- x = OFFSET FROM BACK OF KERB



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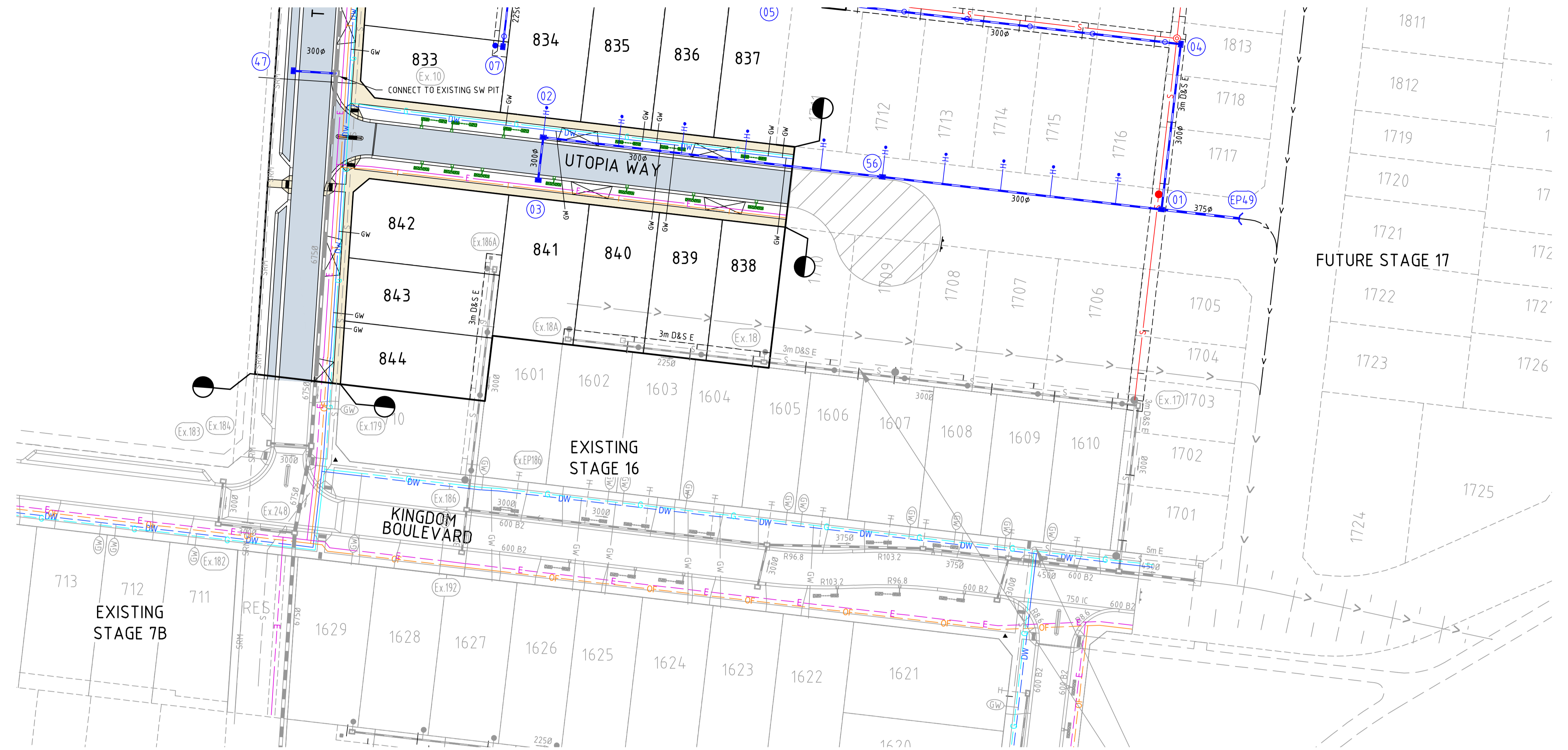
Designed  
 M.TRUONG  
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 M.HOLMES  
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**SEVENTH BEND  
 STAGE 8  
 ROAD AND DRAINAGE  
 ROAD LAYOUT PLANS - SERVICES PLAN - SHEET 1**  
 MELTON CITY COUNCIL  
 EXFORD ROAD MANAGEMENT PTY LTD

**PRELIMINARY** Drg No **308894CR202** Rev **A**

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Rev	Issued For Approval	M.H	24/08/21
A	ISSUED FOR APPROVAL	M.H	24/08/21
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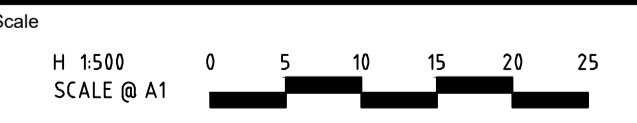
**SERVICE LOCATION TABLE**

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE	
							SIDE	OFFSET	SIDE	OFFSET
TAXON ROAD (LOT 802)	E	2.75	E	2.25	W	3.10	X	X.XX	W	3.60
TAXON ROAD (LOT 816 TO 844)	E	2.30	E	1.80	E	2.85			E	3.65
UTOPIA WAY	N	2.40	N	1.90	S	1.85			S	2.40
RETREAT WAY	N	2.40	N	1.90	S	1.85			S	2.40
SHELTERBELT AVENUE	N	2.40	N	1.90	S	1.85			S	2.40
COURSING WAY	W	2.40	W	1.90	E	1.85			E	2.40

1. TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG'S
2. GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
3. \* = OFFSET FROM BACK OF KERB

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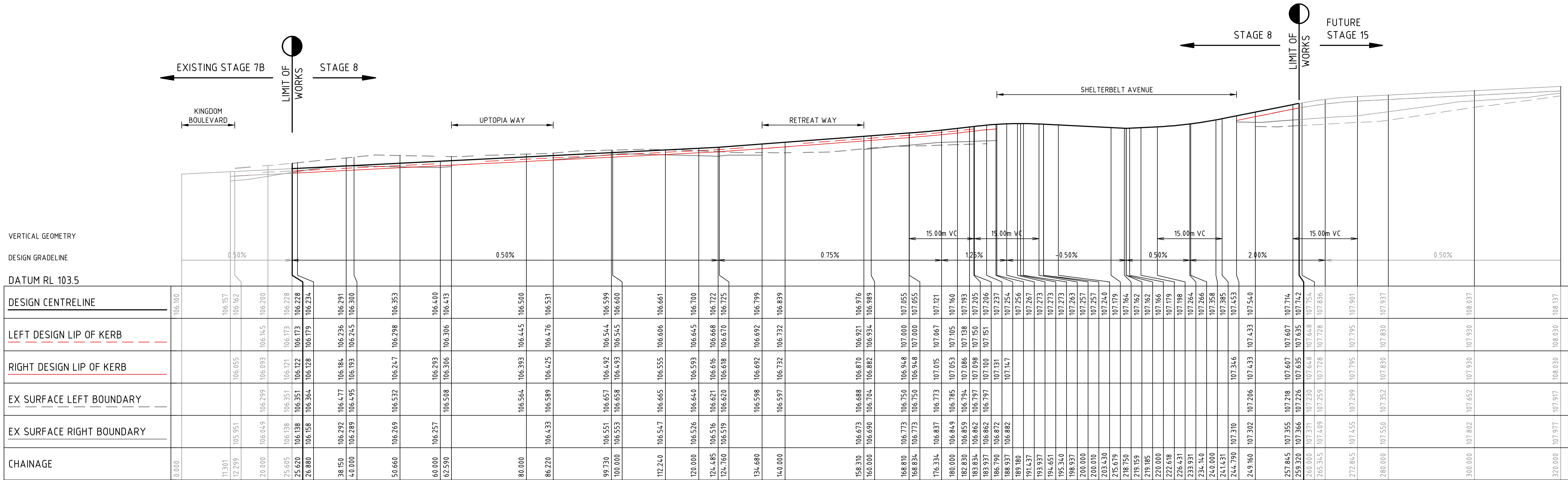
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Designed  
 M.TRUONG  
 Authorised  
 M.HOLMES

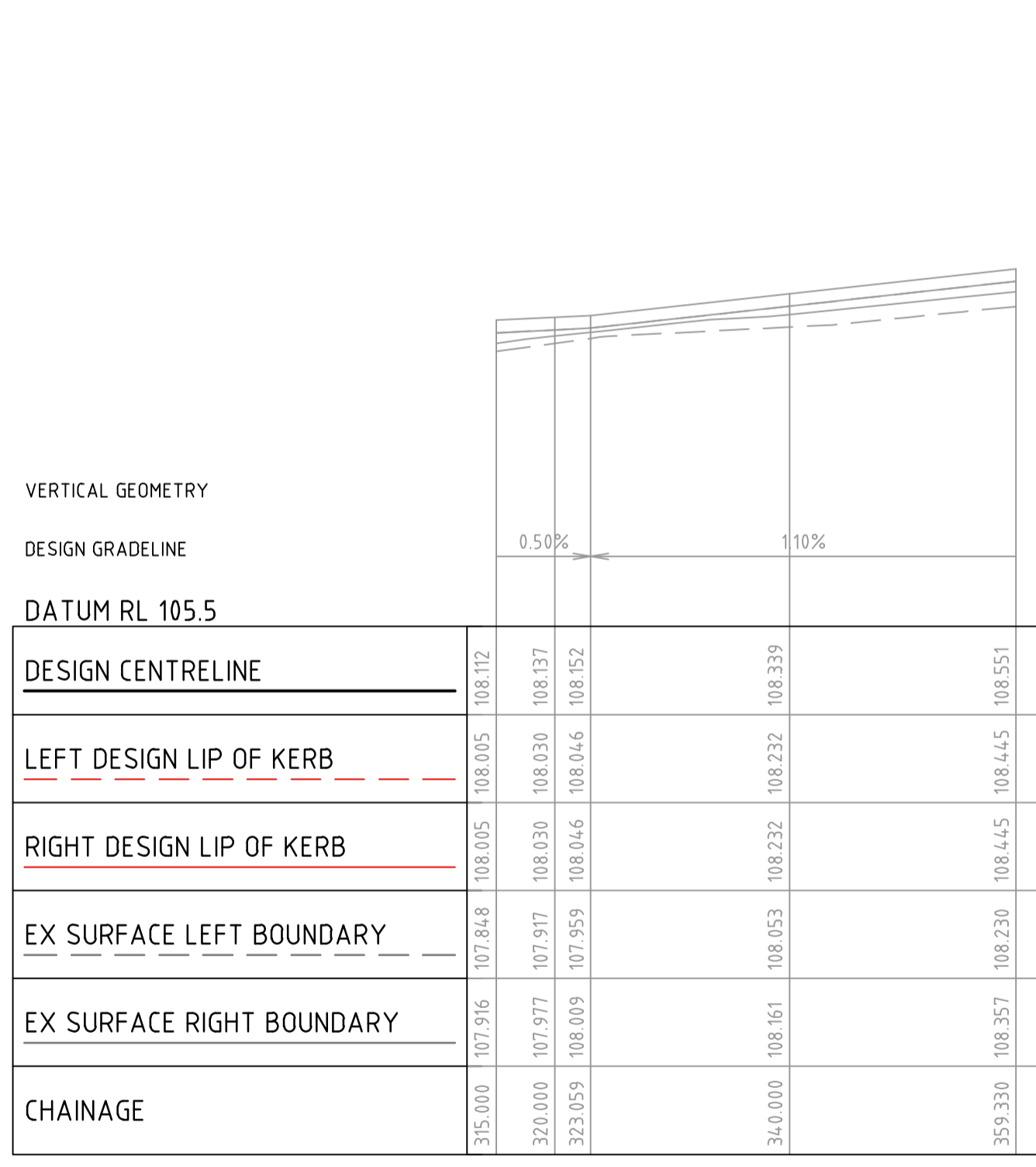
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 Date  
 24/08/21

**SEVENTH BEND**  
**STAGE 8**  
 ROAD AND DRAINAGE  
 ROAD LAYOUT PLANS - SERVICES PLAN - SHEET 2  
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 EXFORD ROAD MANAGEMENT PTY LTD  
**PRELIMINARY** Drg No 308894CR203 Rev A

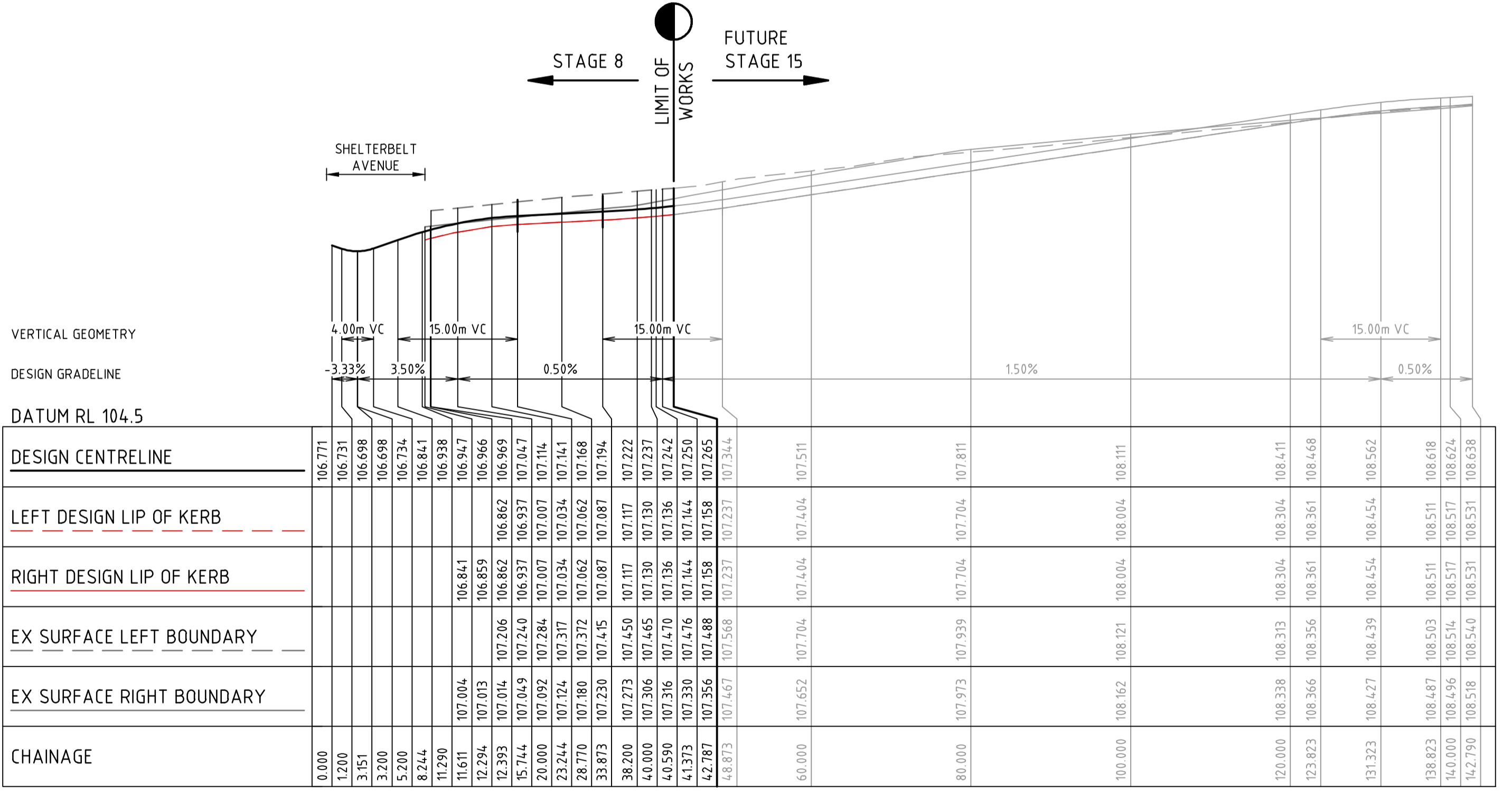
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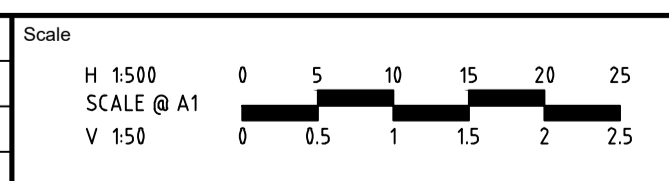
TAXON ROAD



TAXON ROAD



COURSING WAY



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**SEVENTH BEND**
  
**STAGE 8**
  
**ROAD AND DRAINAGE**
  
**ROAD LONG SECTIONS - SHEET 1**
  
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 EXFORD ROAD MANAGEMENT PTY LTD
   
**PRELIMINARY**
  
 Drg No: 308894CR300
   
 Rev: A

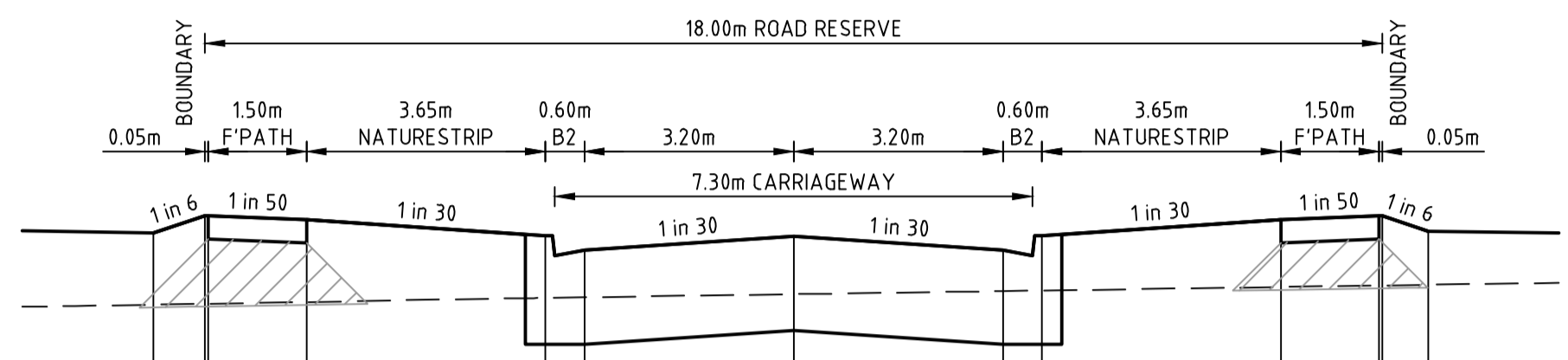
Rev	A	ISSUED FOR APPROVAL	M.H	24/08/21
		Amendments	Approved	Date





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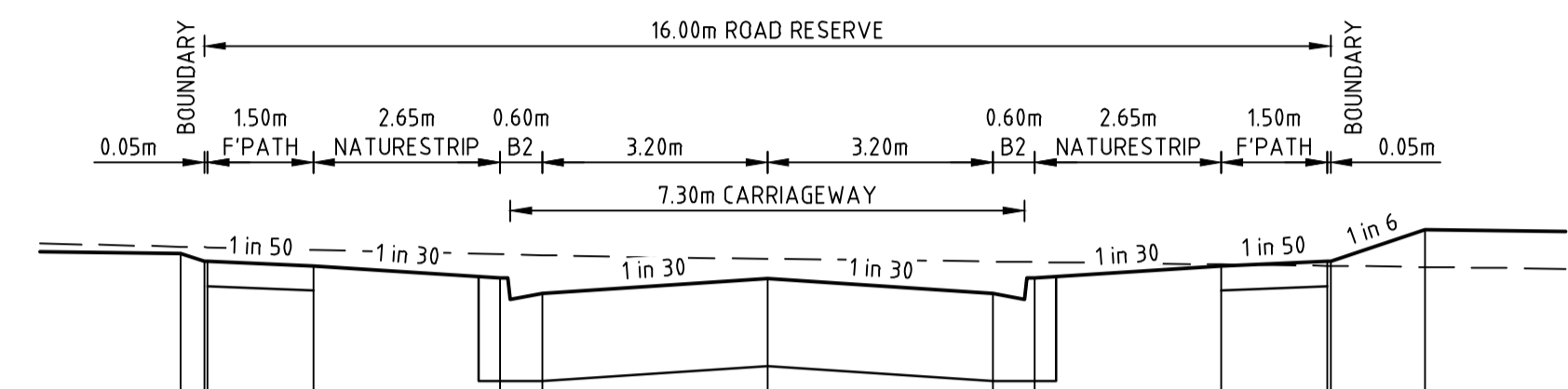
 STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1



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EXISTING SURFACE LEVEL	107.219, 107.226, 107.226, 107.239, 107.271, 107.275, 107.299, 107.323, 107.327, 107.354, 107.365, 107.366, 107.371, 107.371
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TAXON ROAD

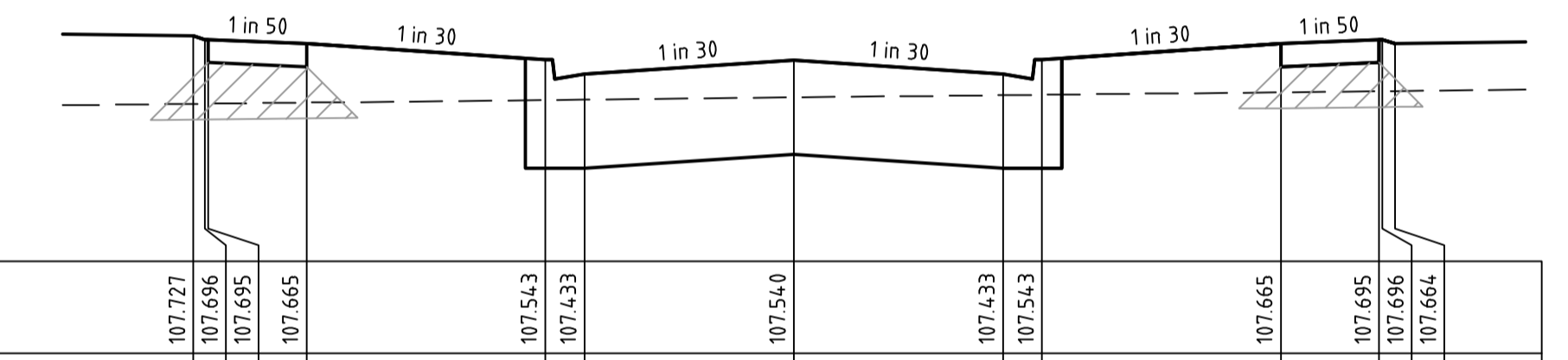
CH 259.32



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EXISTING SURFACE LEVEL	107.492, 107.488, 107.487, 107.470, 107.440, 107.433, 107.407, 107.407, 107.387, 107.383, 107.366, 107.356, 107.348, 107.348
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COURSING WAY

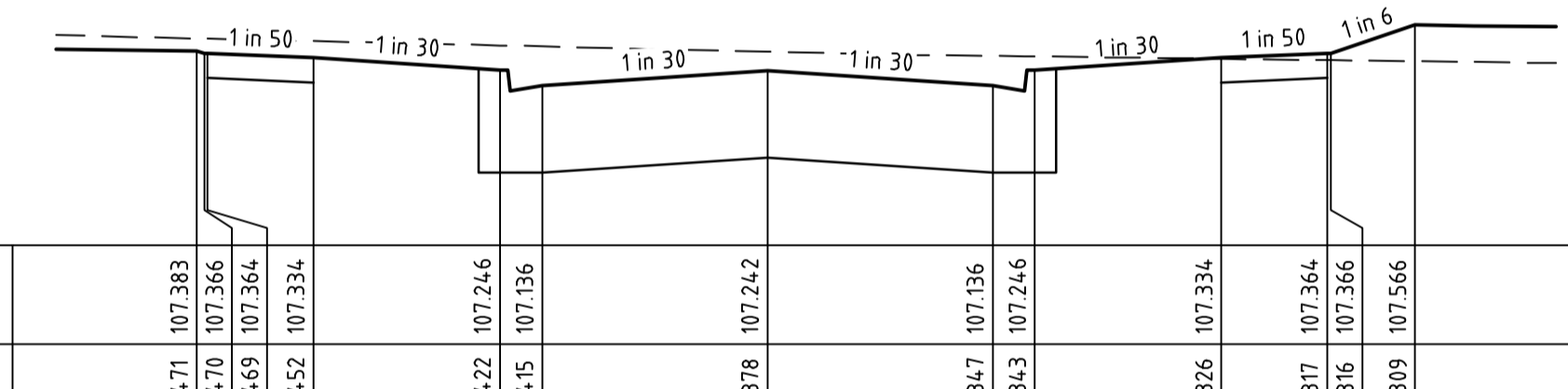
CH 42.79



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TAXON ROAD

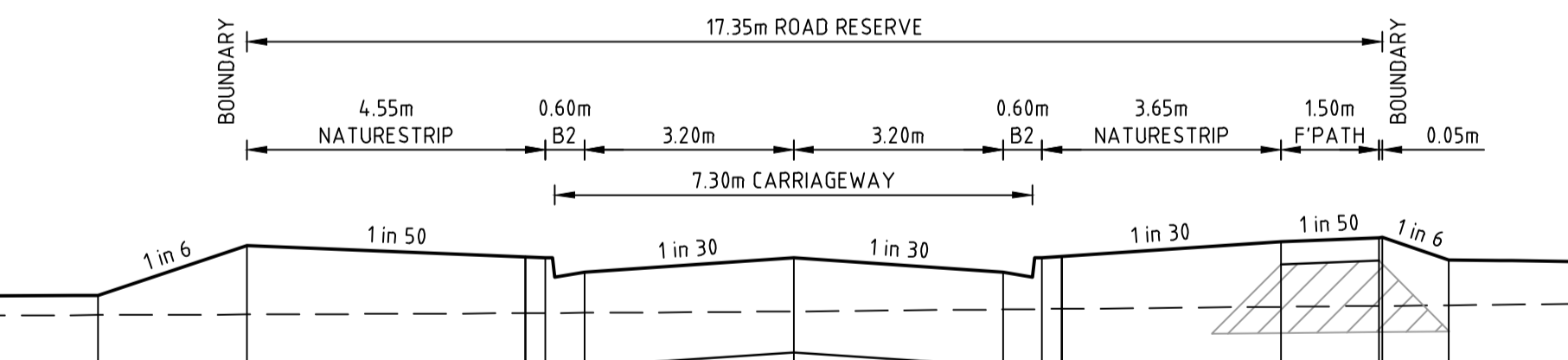
CH 249.15



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EXISTING SURFACE LEVEL	107.471, 107.470, 107.469, 107.452, 107.422, 107.415, 107.378, 107.378, 107.347, 107.343, 107.326, 107.316, 107.309, 107.309
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COURSING WAY

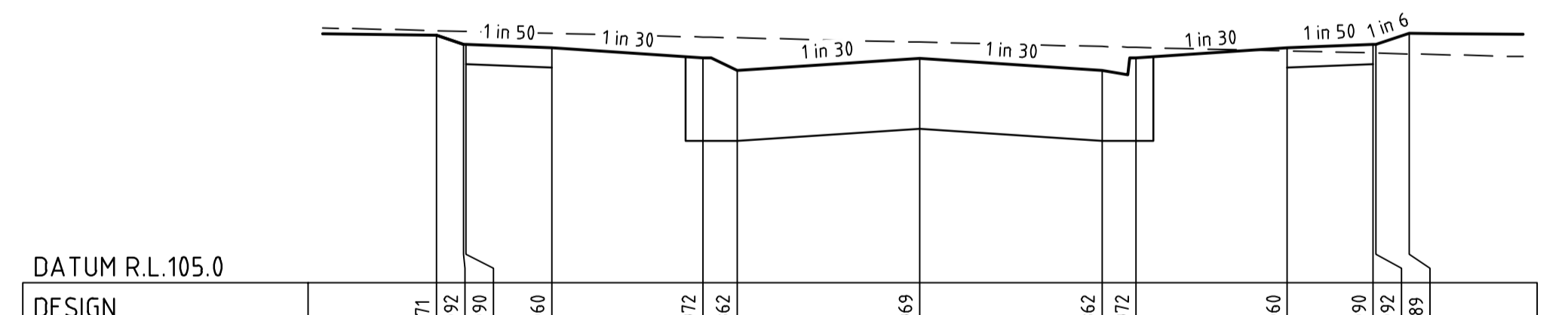
CH 40.59



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EXISTING SURFACE LEVEL	106.802, 106.806, 106.817, 106.818, 106.829, 106.844, 106.847, 106.865, 106.872, 106.872, 106.877, 106.877
OFFSET	-10.638, -9.359, -3.800, -3.200, 0.000, 3.200, 3.800, 7.450, 8.950, 9.000, 10.019, 10.019

TAXON ROAD

CH 186.77



DATUM R.L.105.0	
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EXISTING SURFACE LEVEL	107.212, 107.206, 107.205, 107.187, 107.156, 107.148, 107.110, 107.072, 107.065, 107.033, 107.015, 107.014, 107.007, 107.007
OFFSET	-8.471, -8.000, -7.950, -6.450, -3.800, -3.200, 0.000, 3.200, 3.800, 6.450, 7.950, 8.000, 8.585, 8.585

COURSING WAY

CH 12.39

file name: 308894CR400.dwg, layout name: CD401, plotted by: Michael Tranter, file location: G:\30308894\CD401\ACAD\plot date: 24/08/2021 6:17 PM, Sheet 9 of 26 Sheets

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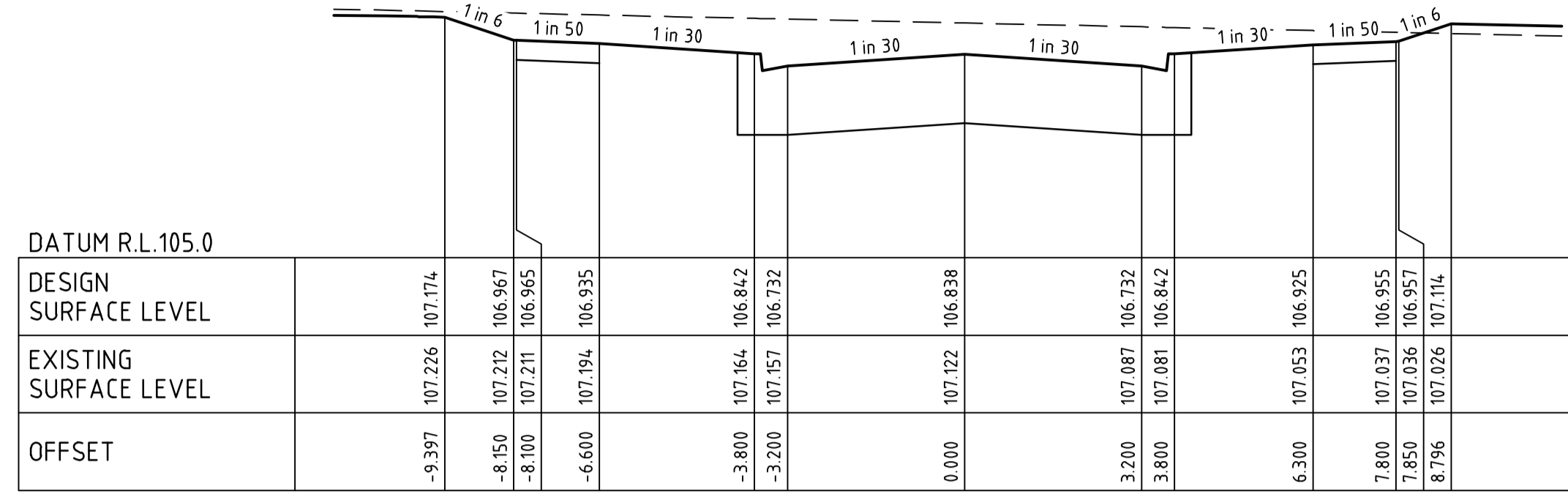
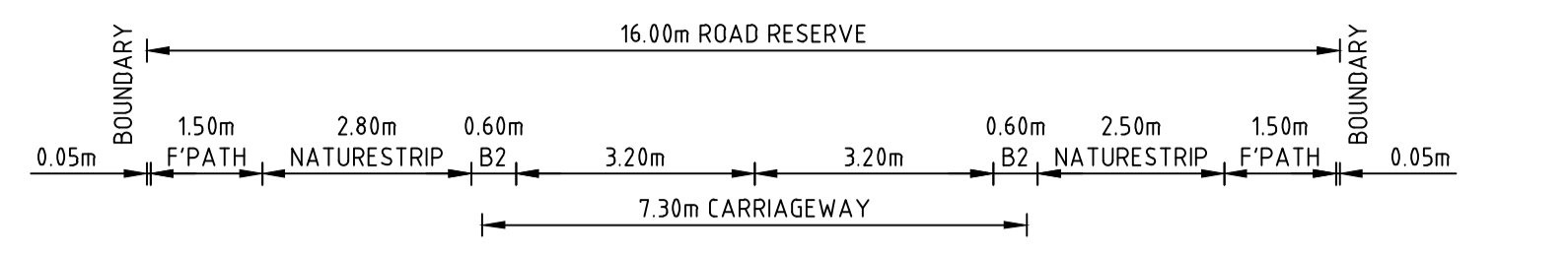
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**SEVENTH BEND**  
 ROAD AND DRAINAGE  
 ROAD CROSS SECTIONS - SHEET 2  
 MELTON CITY COUNCIL  
 EXFORD ROAD MANAGEMENT PTY LTD

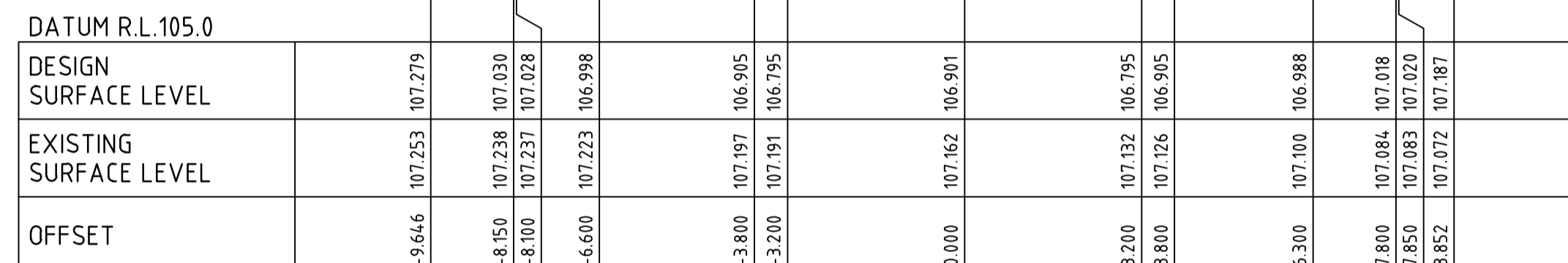
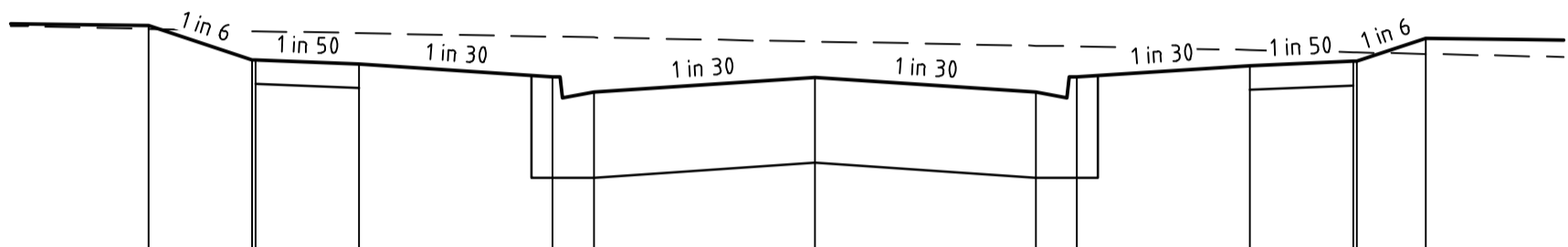
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 Authorised: M.HOLMES  
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 Date: 24/08/21

**PRELIMINARY** 308894CR401

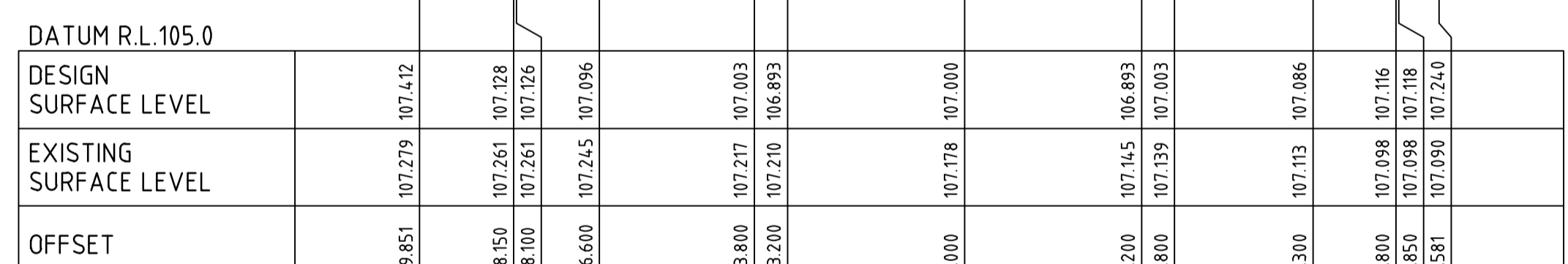
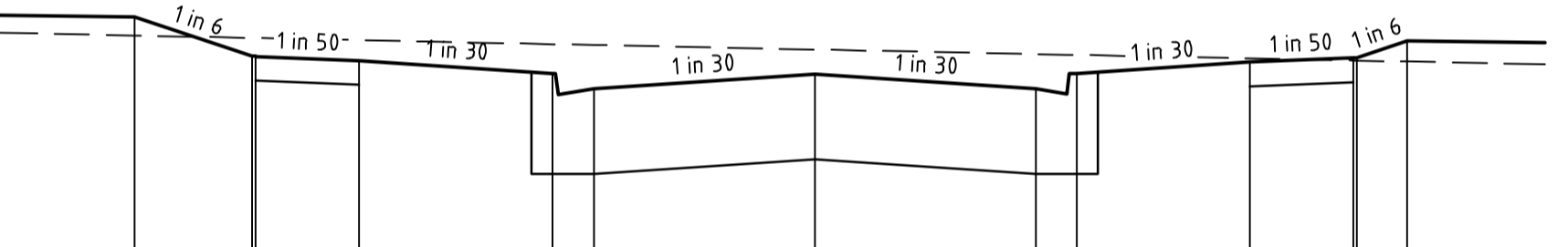
Rev A



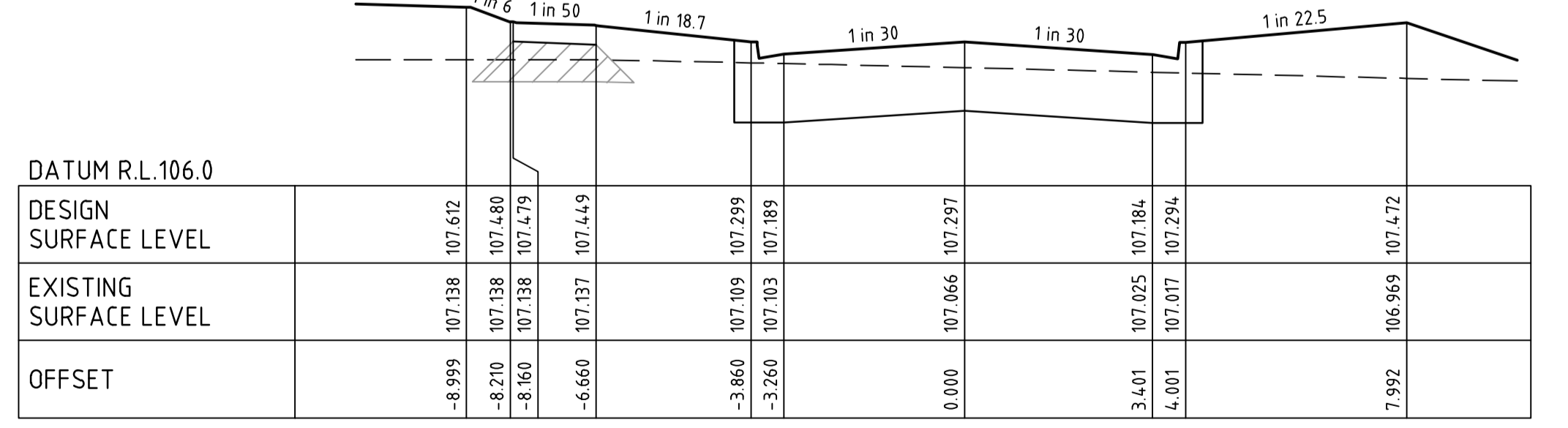
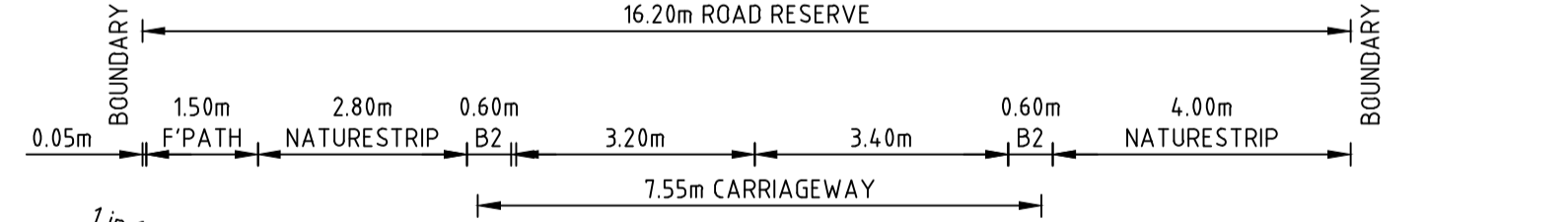
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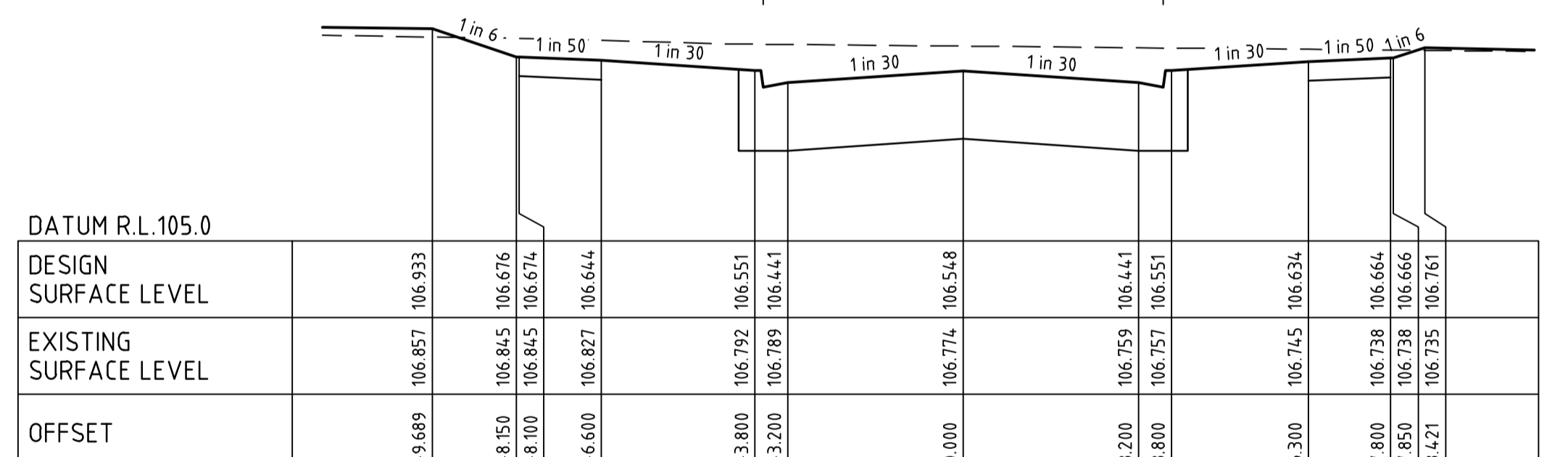
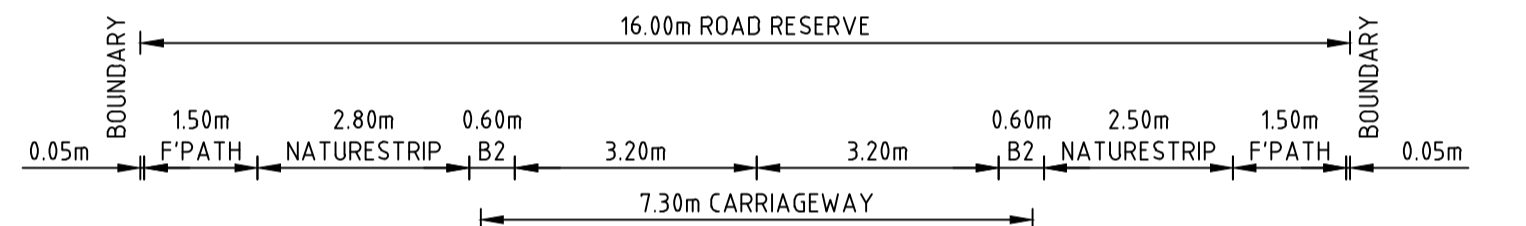
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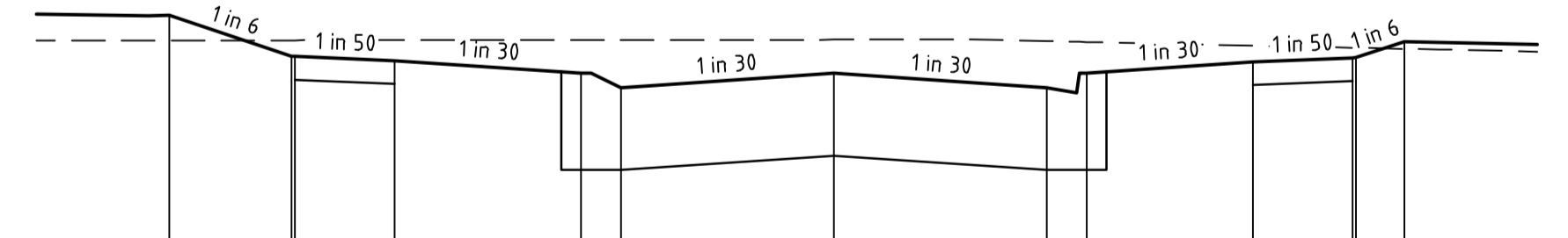
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SHELTERBELT AVENUE CH 1105.62



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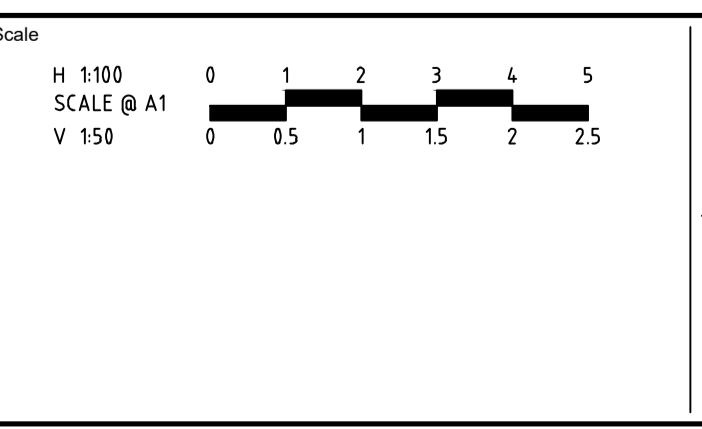
SHELTERBELT AVENUE CH 1221.07

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Rev	Description	Approved	Date
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Designed  
M.TRUONG

Checked  
----

Authorised  
M.HOLMES

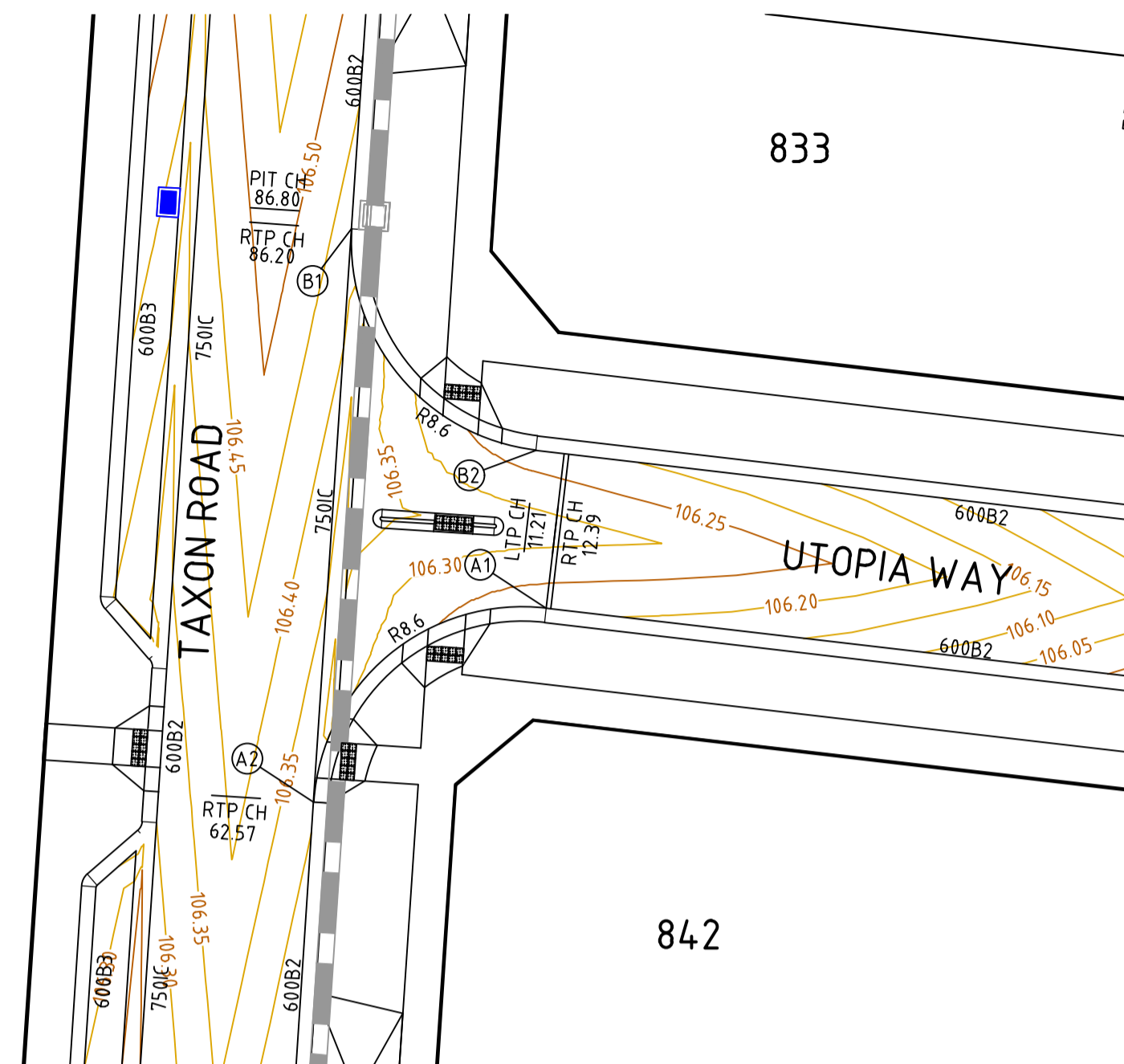
Date  
24/08/21

**SEVENTH BEND  
 STAGE 8  
 ROAD AND DRAINAGE  
 ROAD CROSS SECTIONS - SHEET 3**  
 MELTON CITY COUNCIL  
 EXFORD ROAD MANAGEMENT PTY LTD

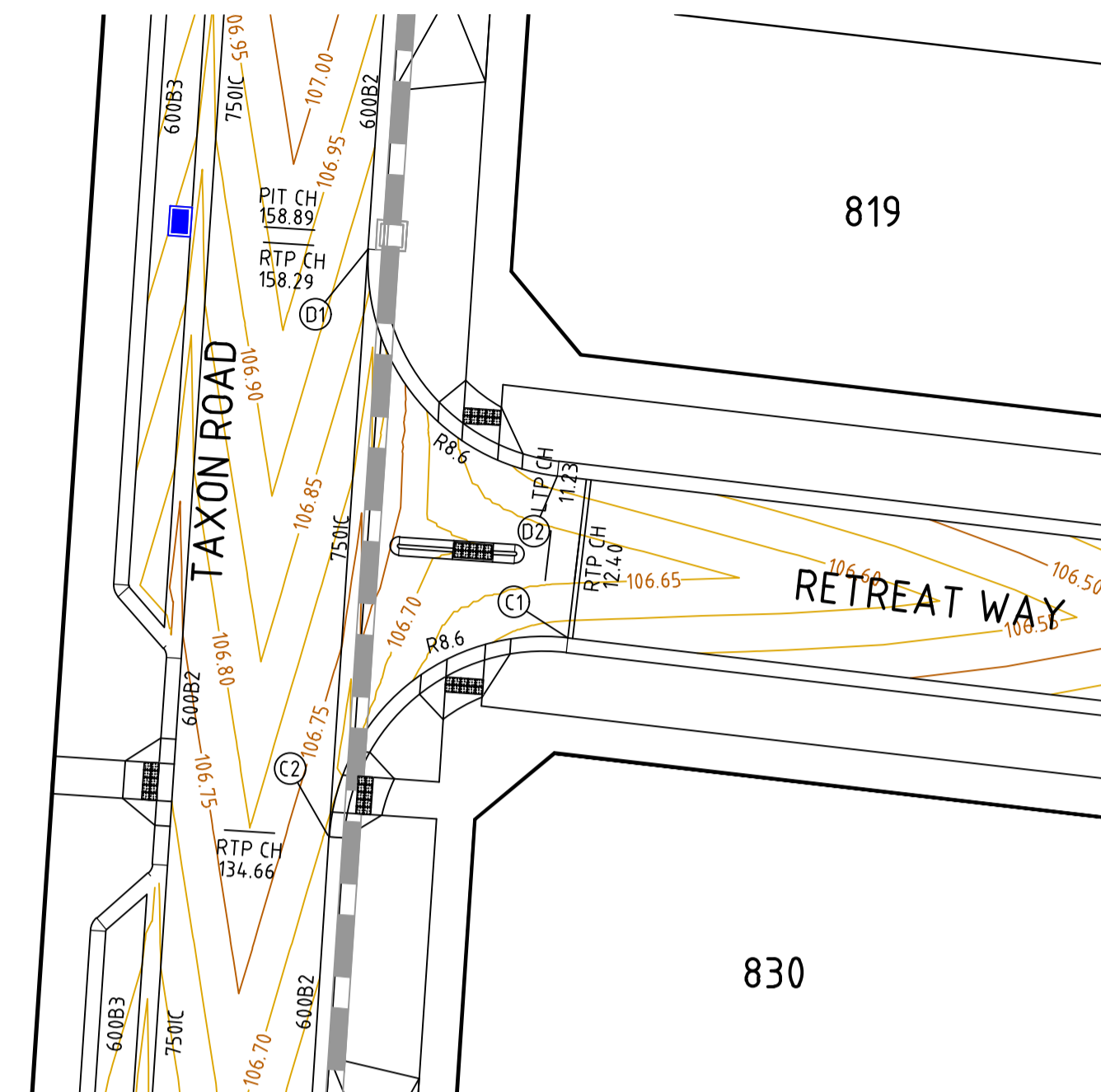
**PRELIMINARY** Drg No **308894CR402** Rev **A**



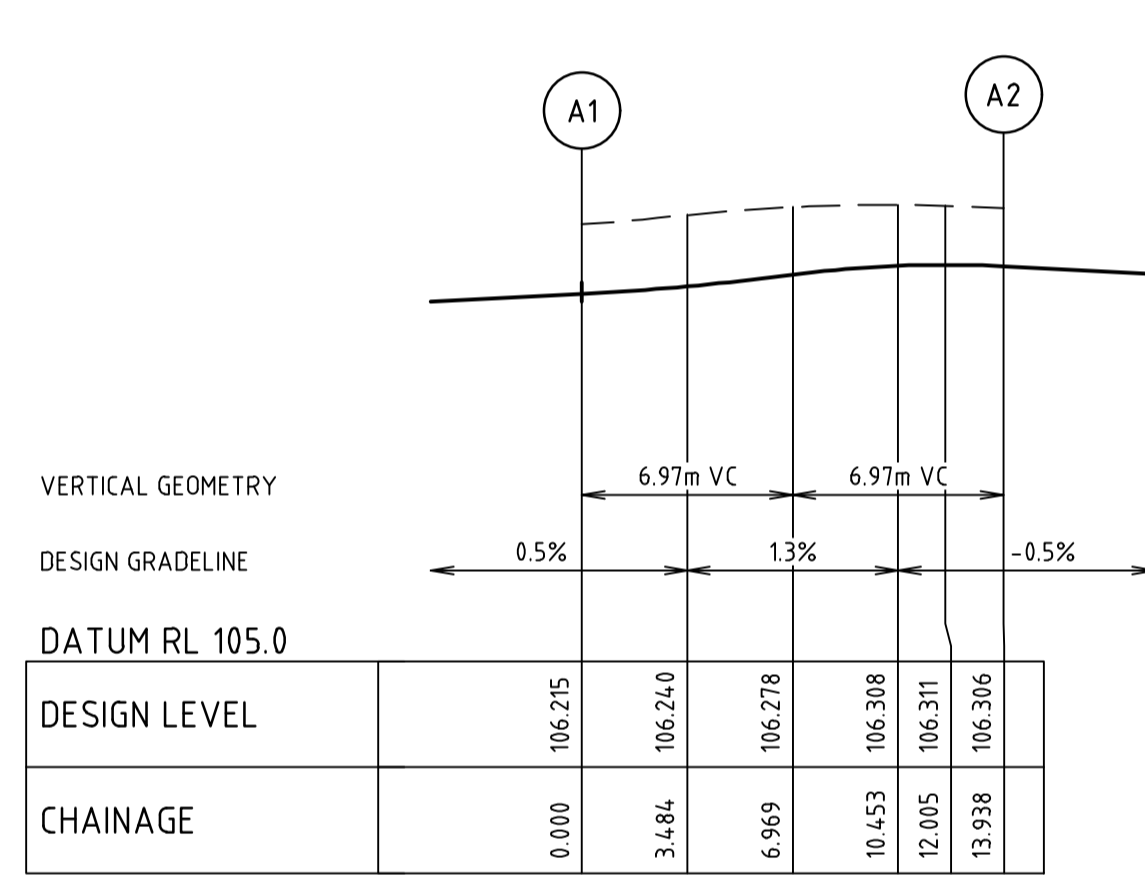




INTERSECTION OF TAXON ROAD & UTOPIA WAY



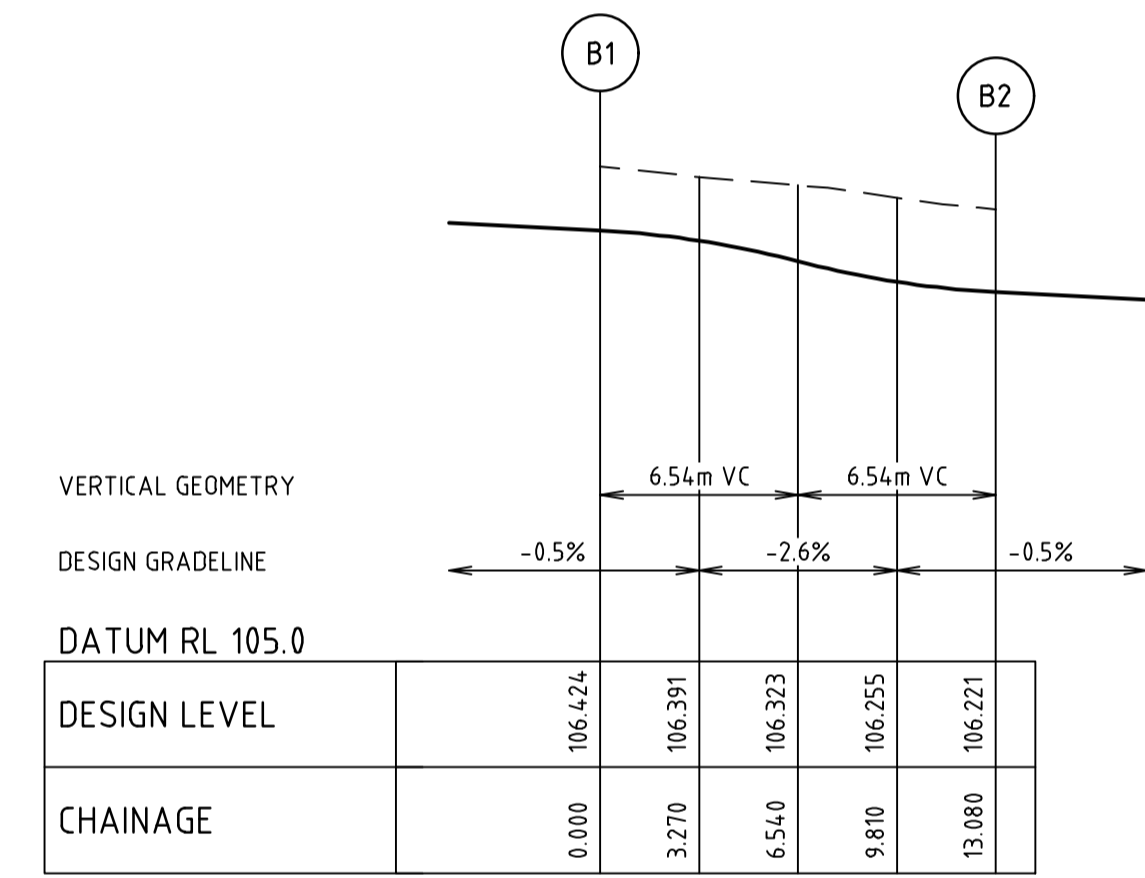
INTERSECTION OF TAXON ROAD & RETREAT WAY



ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	286527.725	5822127.950	106.215
1/4	286524.278	5822127.652	106.240
1/2	286521.227	5822126.018	106.278
3/4	286519.067	5822123.314	106.308
A2	286518.148	5822119.978	106.306

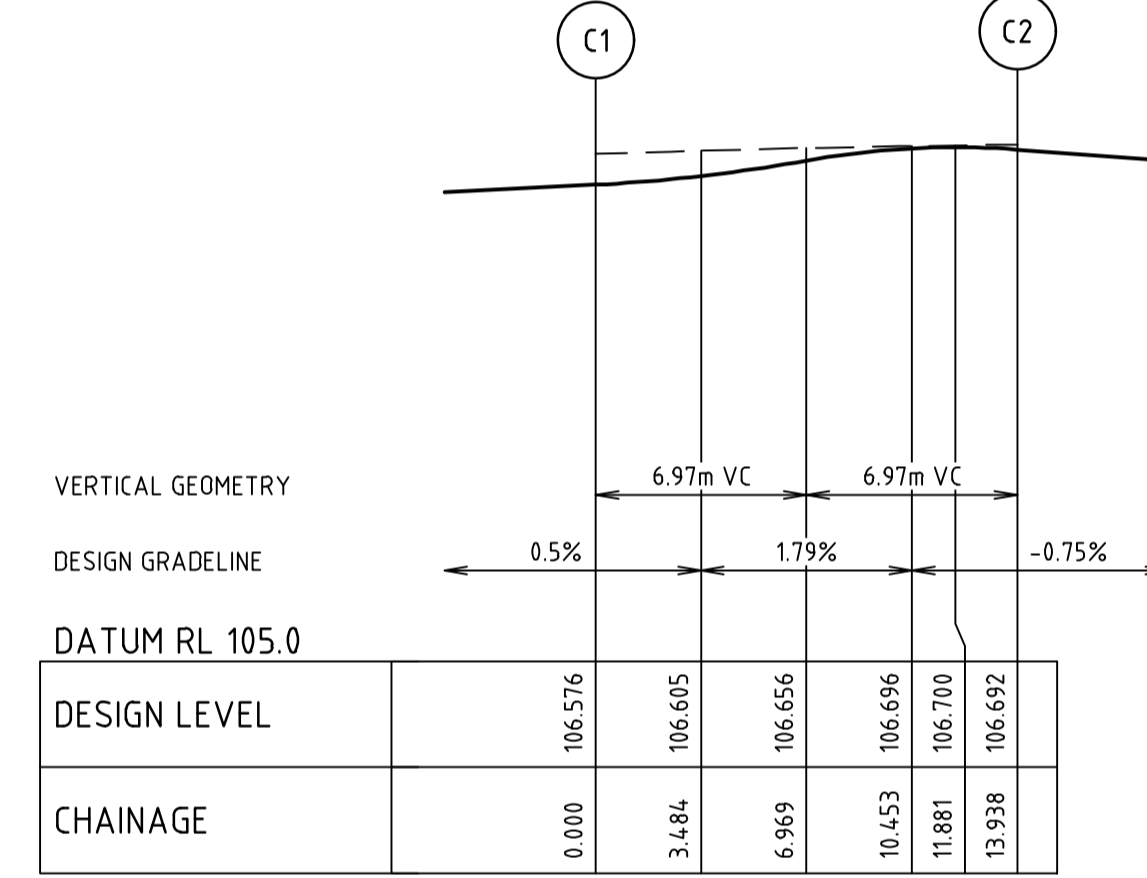
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1- A2	8.600	13.938	12.462	2.672	-0.696



ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	286519.712	5822143.555	106.424
1/4	286520.114	5822140.330	106.391
1/2	286521.684	5822137.484	106.323
3/4	286524.198	5822135.424	106.255
B2	286527.297	5822134.444	106.221

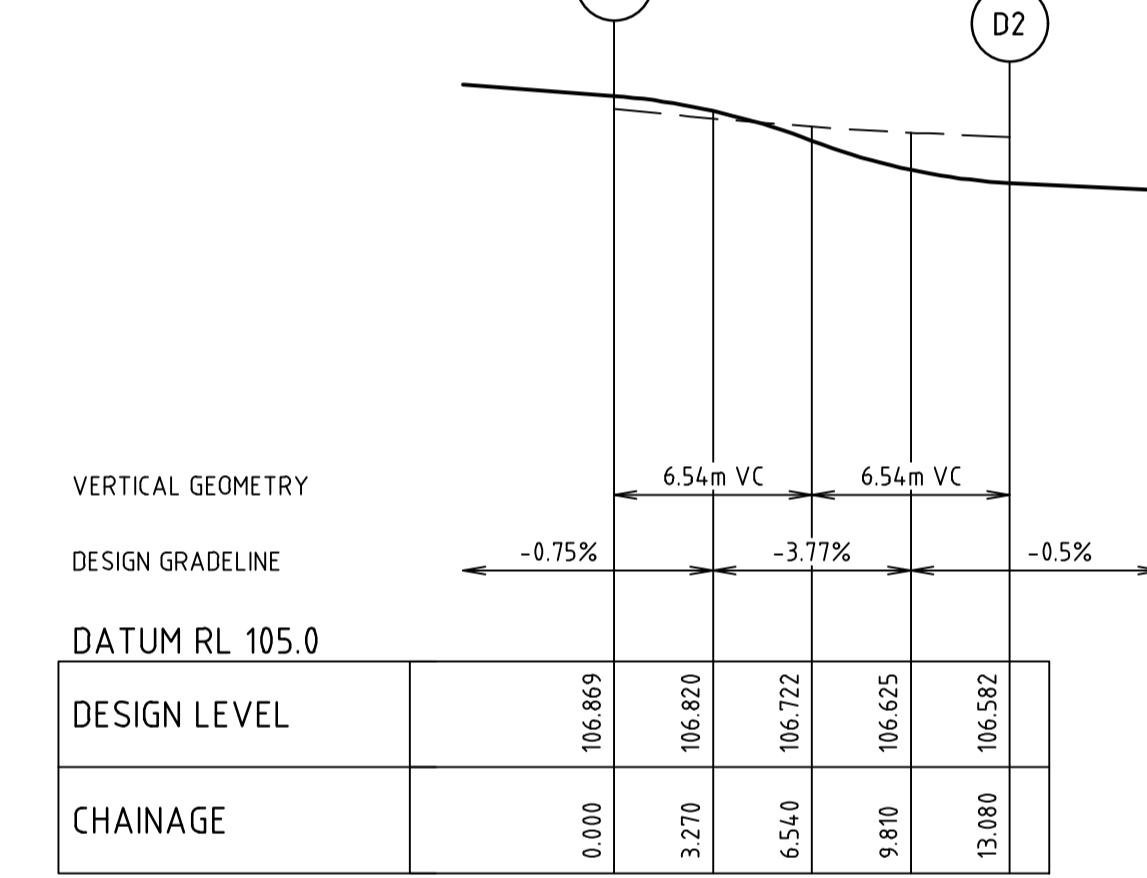
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B1- B2	8.600	13.080	11.855	2.369	-0.614



ALIGNMENT C

POINT NO	EASTING	NORTHING	RL
C1	286532.498	5822199.882	106.576
1/4	286529.050	5822199.583	106.605
1/2	286526.000	5822197.949	106.656
3/4	286523.840	5822195.245	106.696
C2	286522.921	5822191.909	106.692

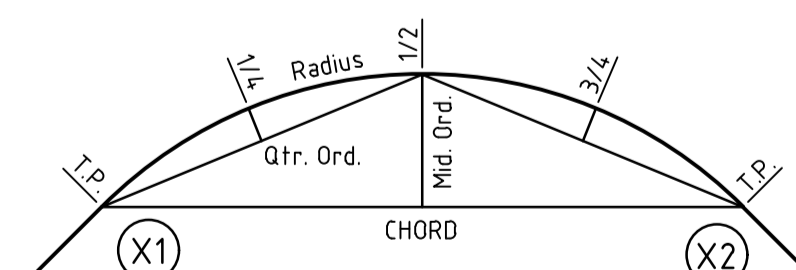
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
C1- C2	8.600	13.938	12.462	2.672	-0.696



ALIGNMENT D

POINT NO	EASTING	NORTHING	RL
D1	286524.485	5822215.487	106.869
1/4	286524.887	5822212.261	106.820
1/2	286526.457	5822209.415	106.722
3/4	286528.971	5822207.355	106.625
D2	286532.070	5822206.375	106.582

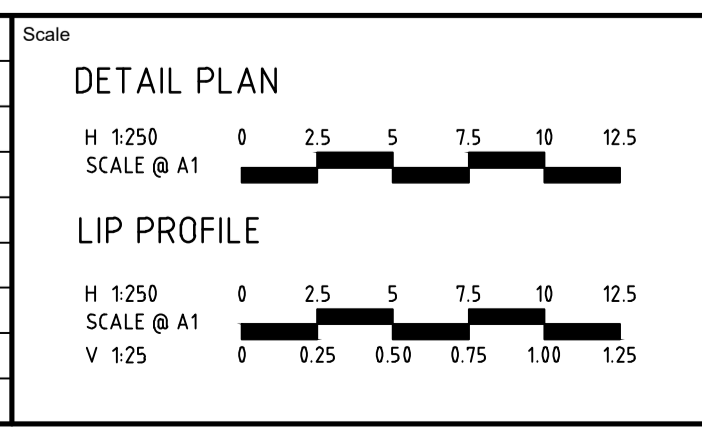
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D1- D2	8.600	13.080	11.855	2.369	-0.614



KERB RETURN SETOUT DETAIL

file name: 308894CR500.dwg, layout name: CR500, plotted by: Michael, Tracey, file location: G:\30\308894\Level\LAAD\plot.dwg, date: 24/08/2021 6:18 PM, Sheet 13 of 26 Sheets

Rev	Description	Approved	Date
A	ISSUED FOR APPROVAL	M.H	24/08/21
	Amendments		



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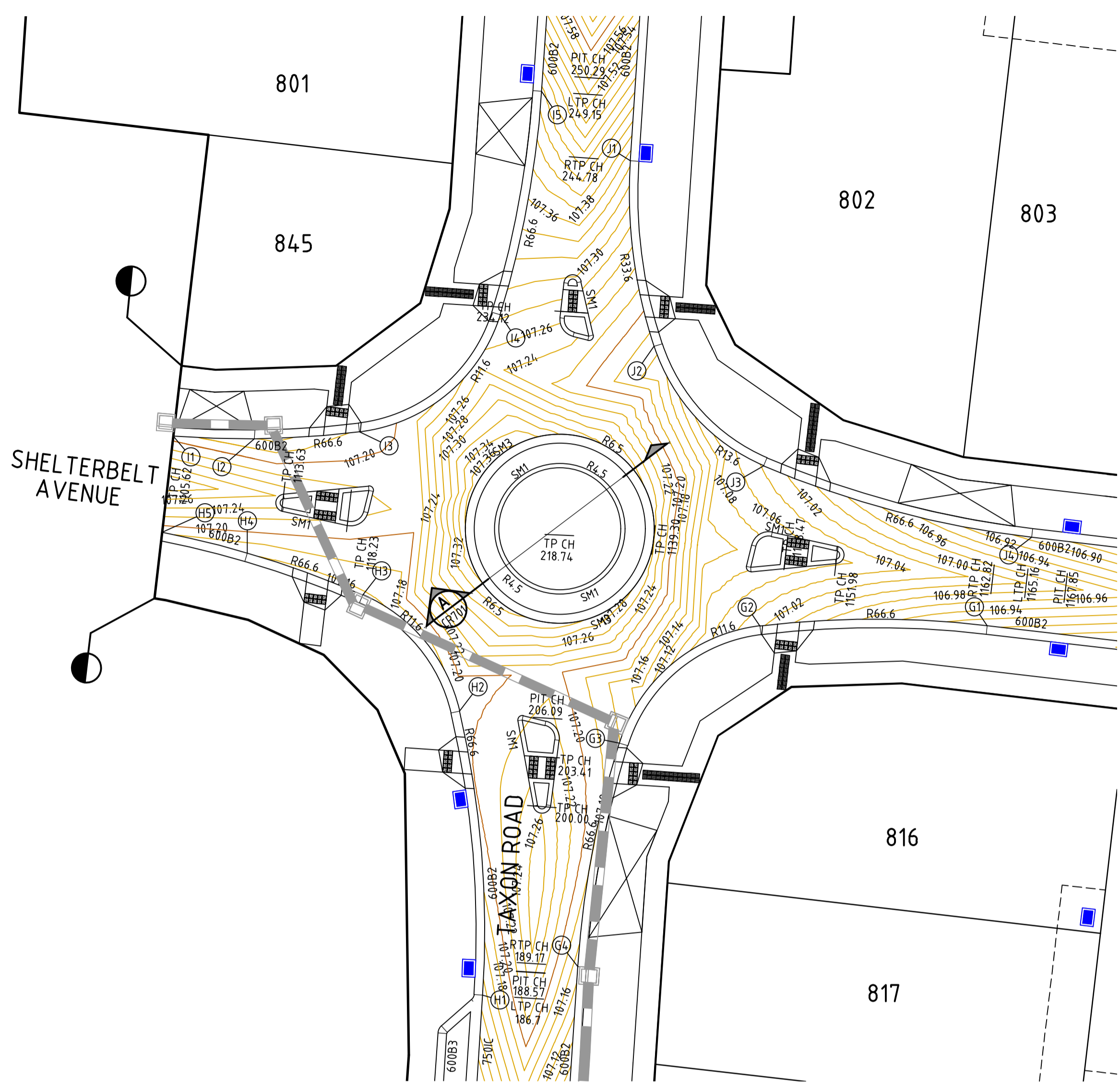
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Checked: -----  
Authorised: M.HOLMES  
Date: 24/08/21

**SEVENTH BEND  
STAGE 8  
ROAD AND DRAINAGE  
INTERSECTION DETAILS - SHEET 1**  
MELTON CITY COUNCIL  
EXFORD ROAD MANAGEMENT PTY LTD

**PRELIMINARY** Drg No: 308894CR500 Rev: A



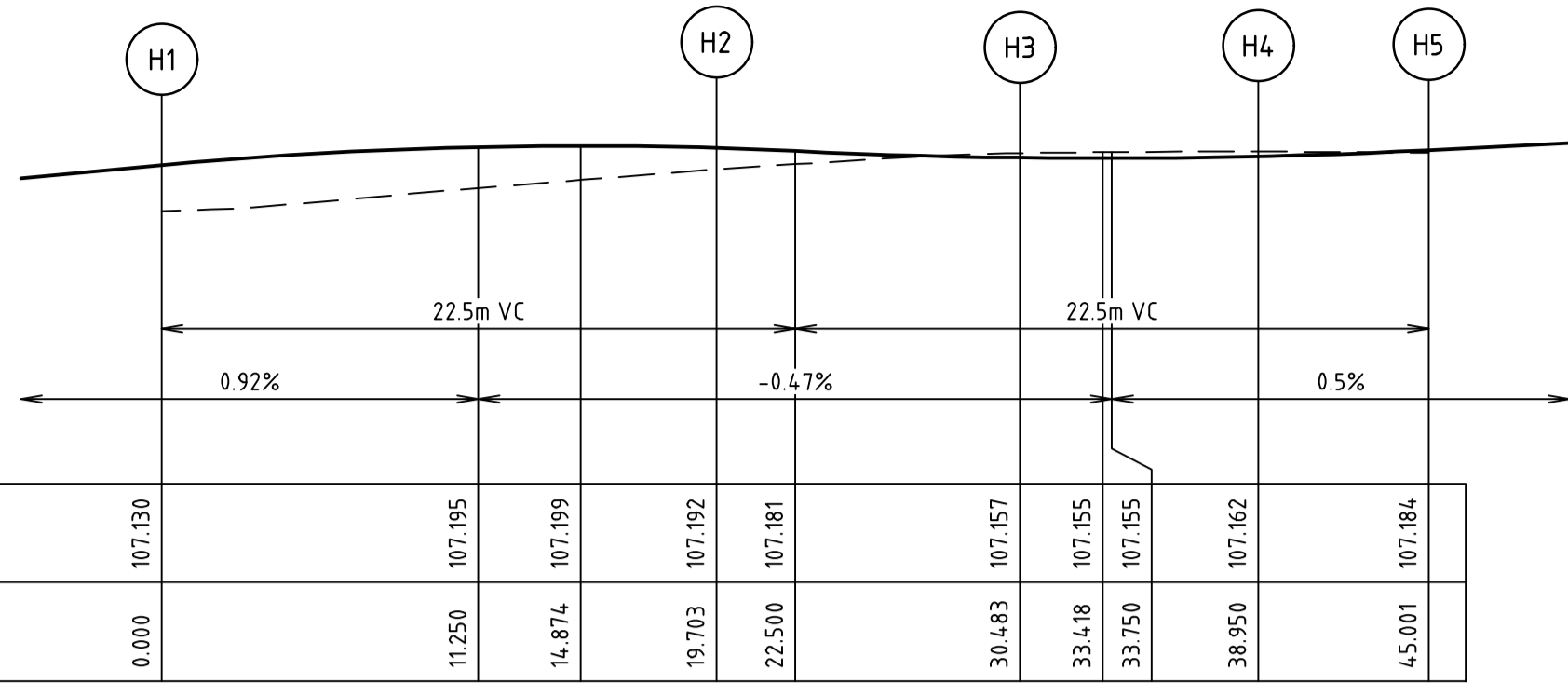
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 106.0

DESIGN LEVEL	107.130	107.195	107.199	107.192	107.181	107.157	107.155	107.155	107.162	107.184
CHAINAGE	0.000	11.250	14.874	19.703	22.500	30.483	33.418	33.750	38.950	45.001

ALIGNMENT H



ALIGNMENT H

POINT NO	EASTING	NORTHING	RL
H1	286519.984	5822244.325	107.130
1/4	286520.128	5822249.248	107.168
1/2	286519.908	5822254.167	107.191
3/4	286519.326	5822259.057	107.199
H2	286518.383	5822263.891	107.192
1/4	286517.472	5822266.421	107.181
1/2	286516.002	5822268.673	107.170
3/4	286514.054	5822270.526	107.162
H3	286511.731	5822271.881	107.157
1/4	286509.778	5822272.697	107.155
1/2	286507.800	5822273.451	107.156
3/4	286505.799	5822274.142	107.158
H4	286503.777	5822274.769	107.162
1/4	286502.321	5822275.177	107.166
1/2	286500.856	5822275.552	107.171
3/4	286499.382	5822275.894	107.177
H5	286497.902	5822276.202	107.184

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
H1-H2	66.600	19.703	19.631	0.727	-0.182
H2-H3	11.600	10.780	10.397	1.230	-0.312
H3-H4	66.600	8.468	8.462	0.135	-0.034
H4-H5	66.600	6.050	6.048	0.069	-0.017

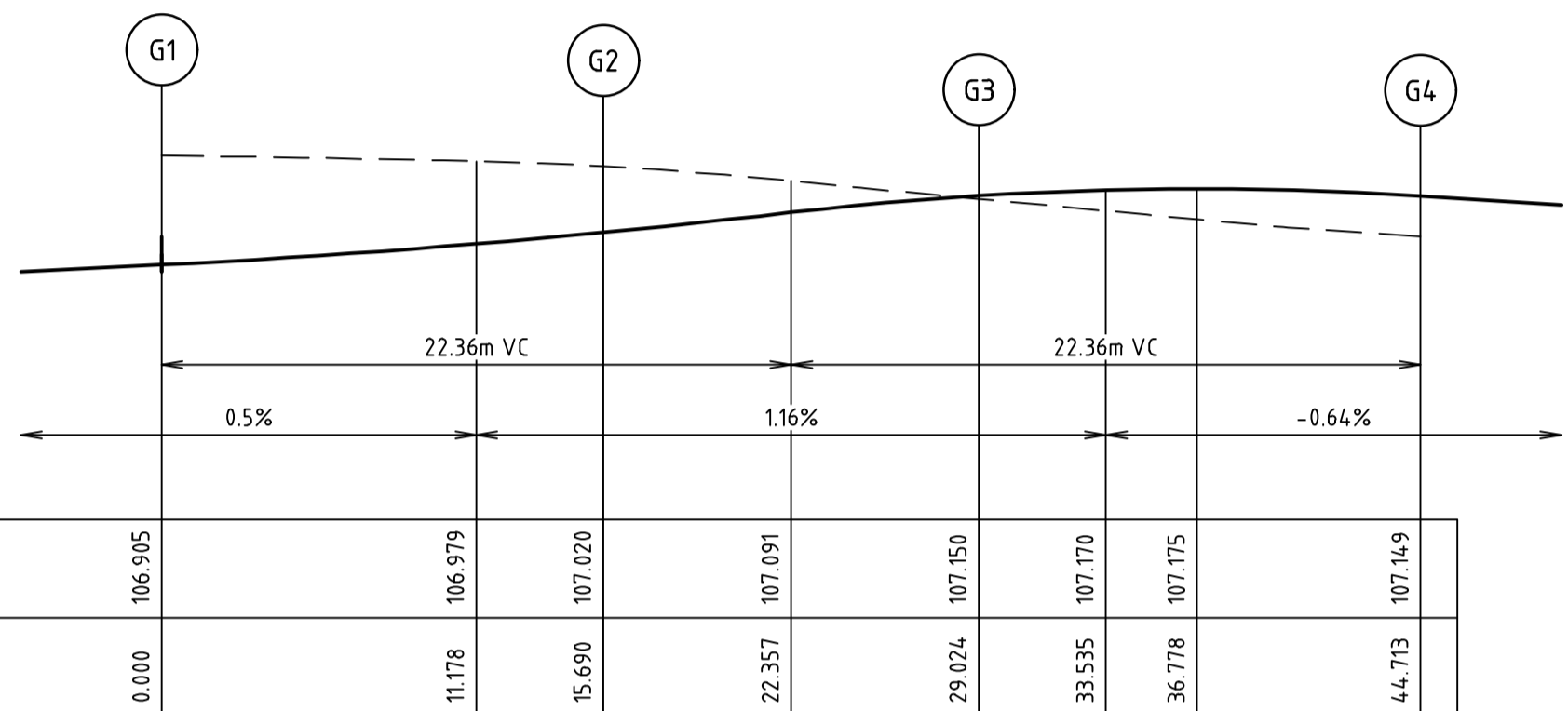
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 106.0

DESIGN LEVEL	106.905	106.979	107.020	107.091	107.150	107.170	107.175	107.149
CHAINAGE	0.000	11.178	15.690	22.357	29.024	33.535	36.778	44.713

ALIGNMENT G



ALIGNMENT G

POINT NO	EASTING	NORTHING	RL
G1	286554.740	5822269.776	106.905
1/4	286550.833	5822270.115	106.927
1/2	286546.912	5822270.224	106.953
3/4	286542.993	5822270.102	106.984
G2	286539.087	5822269.749	107.020
1/4	286535.879	5822268.885	107.054
1/2	286533.048	5822267.147	107.091
3/4	286530.825	5822264.678	107.125
G3	286529.393	5822261.680	107.150
1/4	286528.338	5822257.903	107.169
1/2	286527.507	5822254.070	107.175
3/4	286526.904	5822250.195	107.168
G4	286526.529	5822246.291	107.149

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
G1-G2	66.600	15.690	15.653	0.461	-0.115
G2-G3	11.600	13.334	12.612	1.864	-0.476
G3-G4	66.600	15.690	15.653	0.461	-0.115

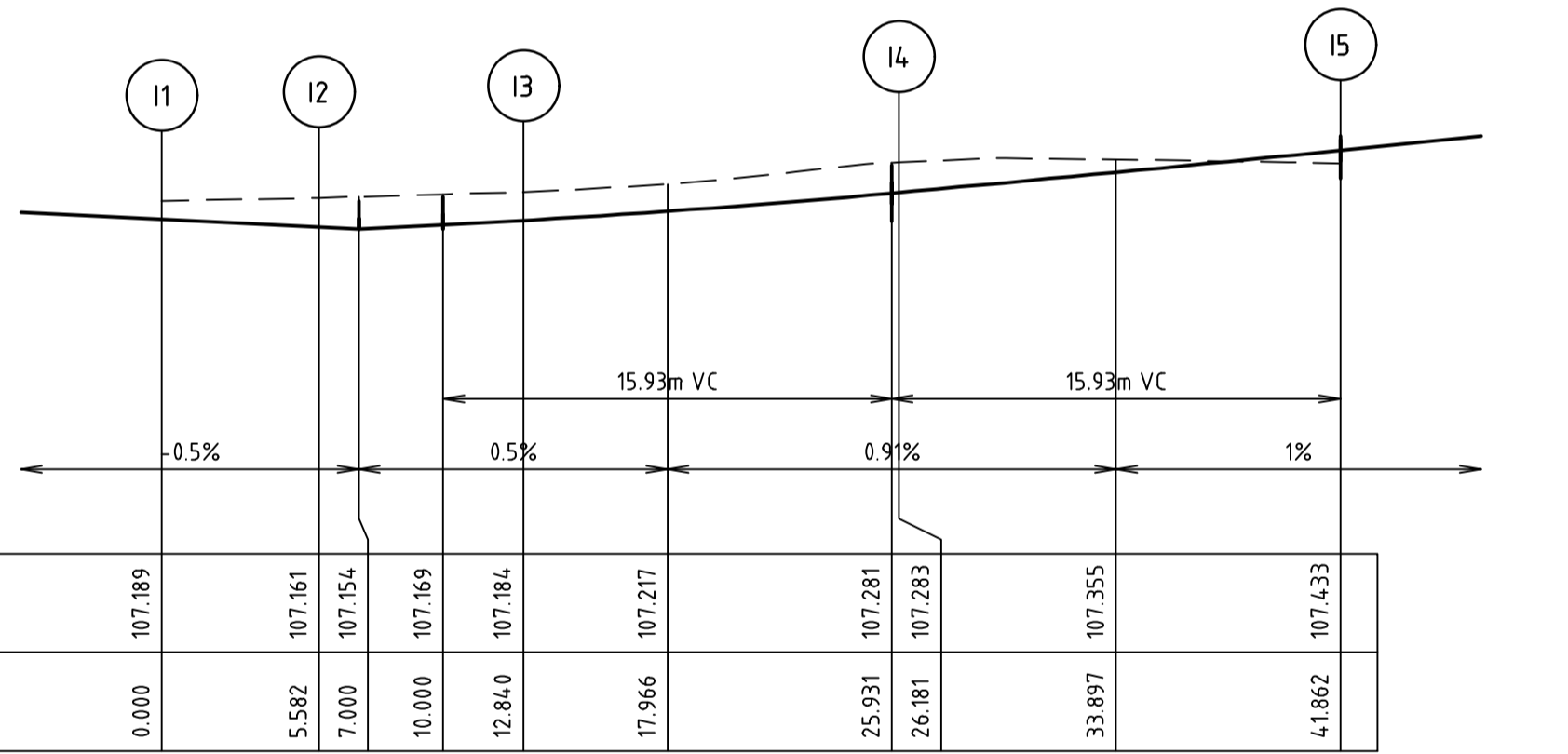
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 106.0

DESIGN LEVEL	107.189	107.161	107.154	107.169	107.184	107.217	107.281	107.283	107.355	107.433
CHAINAGE	0.000	5.582	7.000	10.000	12.840	17.966	25.931	26.181	33.897	41.862

ALIGNMENT I

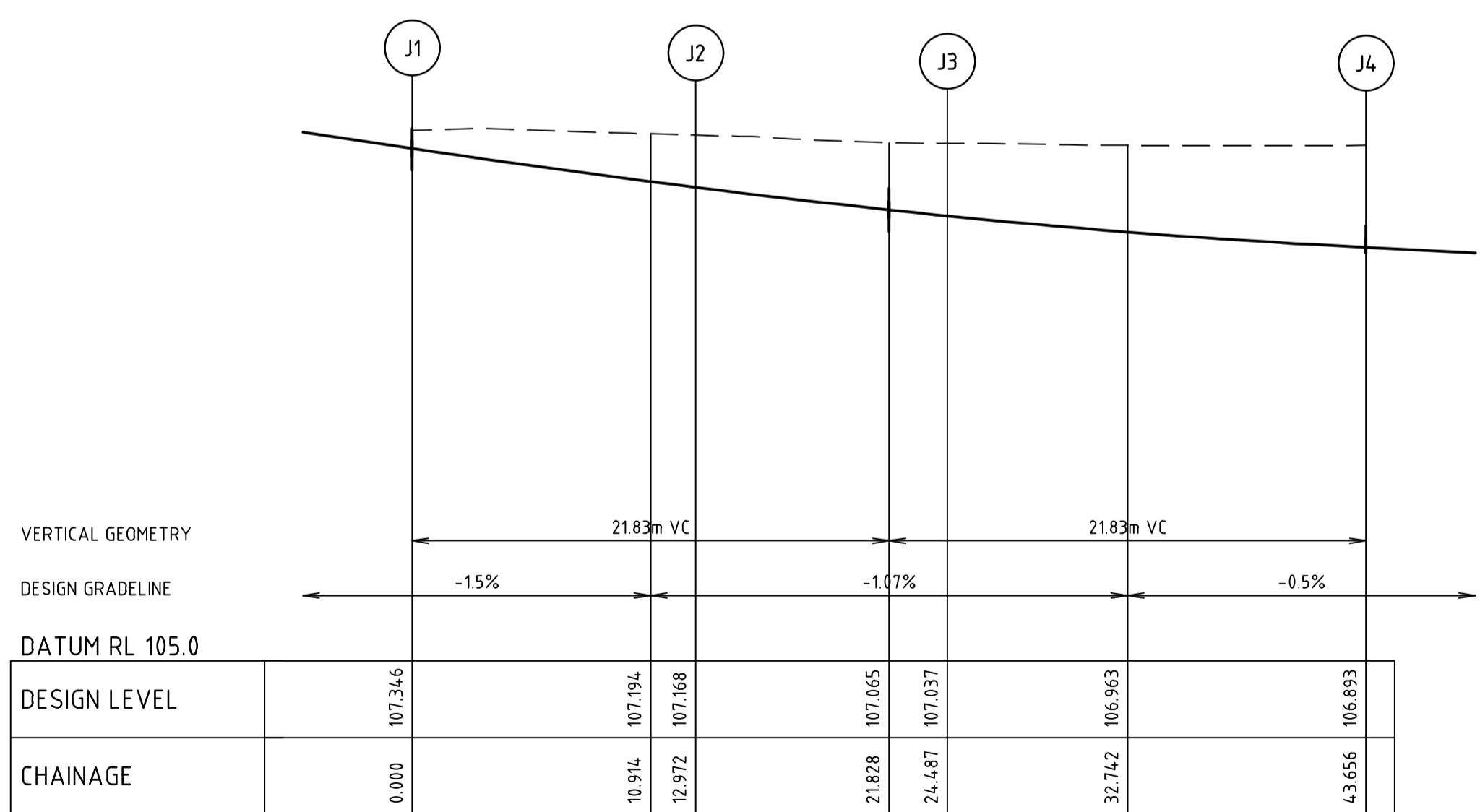


ALIGNMENT I

POINT NO	EASTING	NORTHING	RL
I1	286498.673	5822282.820	107.189
1/4	286500.066	5822282.732	107.182
1/2	286501.461	5822282.673	107.175
3/4	286502.856	5822282.644	107.168
I2	286504.251	5822282.643	107.161
1/4	286506.065	5822282.687	107.156
1/2	286507.877	5822282.780	107.150
3/4	286509.686	5822282.922	107.144
I3	286511.490	5822283.114	107.138
1/4	286514.700	5822283.978	107.205
1/2	286517.532	5822285.717	107.228
3/4	286519.755	5822288.188	107.254
I4	286521.186	5822291.188	107.283
1/4	286522.239	5822294.964	107.319
1/2	286523.068	5822298.795	107.356
3/4	286523.670	5822302.668	107.394
I5	286524.043	5822306.570	107.433

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
I1-I2	66.600	5.582	5.581	0.058	-0.015
I2-I3	66.600	7.258	7.254	0.099	-0.025
I3-I4	11.600	13.341	12.618	1.866	-0.476
I4-I5	66.600	15.681	15.645	0.461	-0.115

ROUNDBOUT OF SHELTERBELT AVENUE & TAXON ROAD



ALIGNMENT J

VERTICAL GEOMETRY

DESIGN GRADELINE

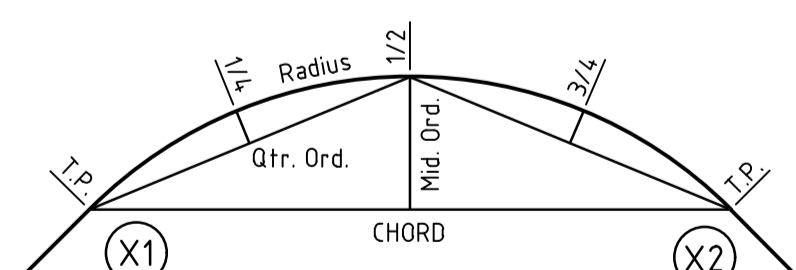
DATUM RL 105.0

DESIGN LEVEL	107.346	107.194	107.168	107.065	107.037	106.963	106.893
CHAINAGE	0.000	10.914	12.972	21.828	24.487	32.742	43.656

ALIGNMENT J

POINT NO	EASTING	NORTHING	RL
J1	286530.141	5822301.786	107.346
1/4	286530.084	5822298.545	107.298
1/2	286530.339	5822295.313	107.253
3/4	286530.905	5822292.121	107.209
J2	286531.776	5822288.999	107.168
1/4	286532.963	5822286.382	107.133
1/2	286534.674	5822284.074	107.099
3/4	286536.831	5822282.176	107.067
J3	286539.339	5822280.774	107.037
1/4	286543.810	5822279.050	106.992
1/2	286548.393	5822277.653	106.953
3/4	286553.064	5822276.588	106.920
J4	286557.800	5822275.862	106.893

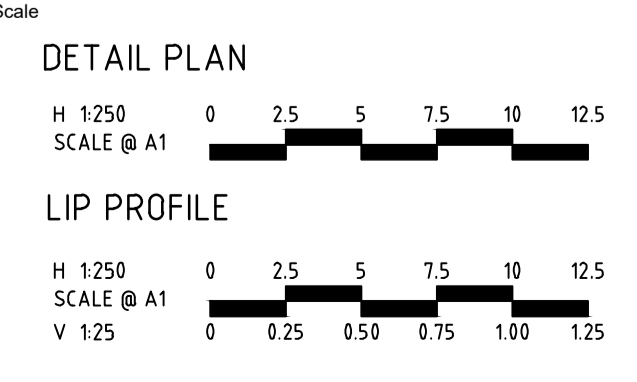
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
J1-J2	33.600	12.972	12.891	0.624	-0.156
J2-J3	13.600	11.515	11.174	1.201	-0.304
J3-J4	66.600	19.169	19.103	0.688	-0.172



KERB RETURN SETOUT DETAIL

file name: 308894.CRS00.dwg, layout name: CRS01, plotted by: Michael Truong  
 file location: G:\30308894\civil\CAD\plot\date: 24/08/2021 16:18 Plot Sheet 14 of 26 Sheets

Rev	Issued For Approval	M.H	24/08/21



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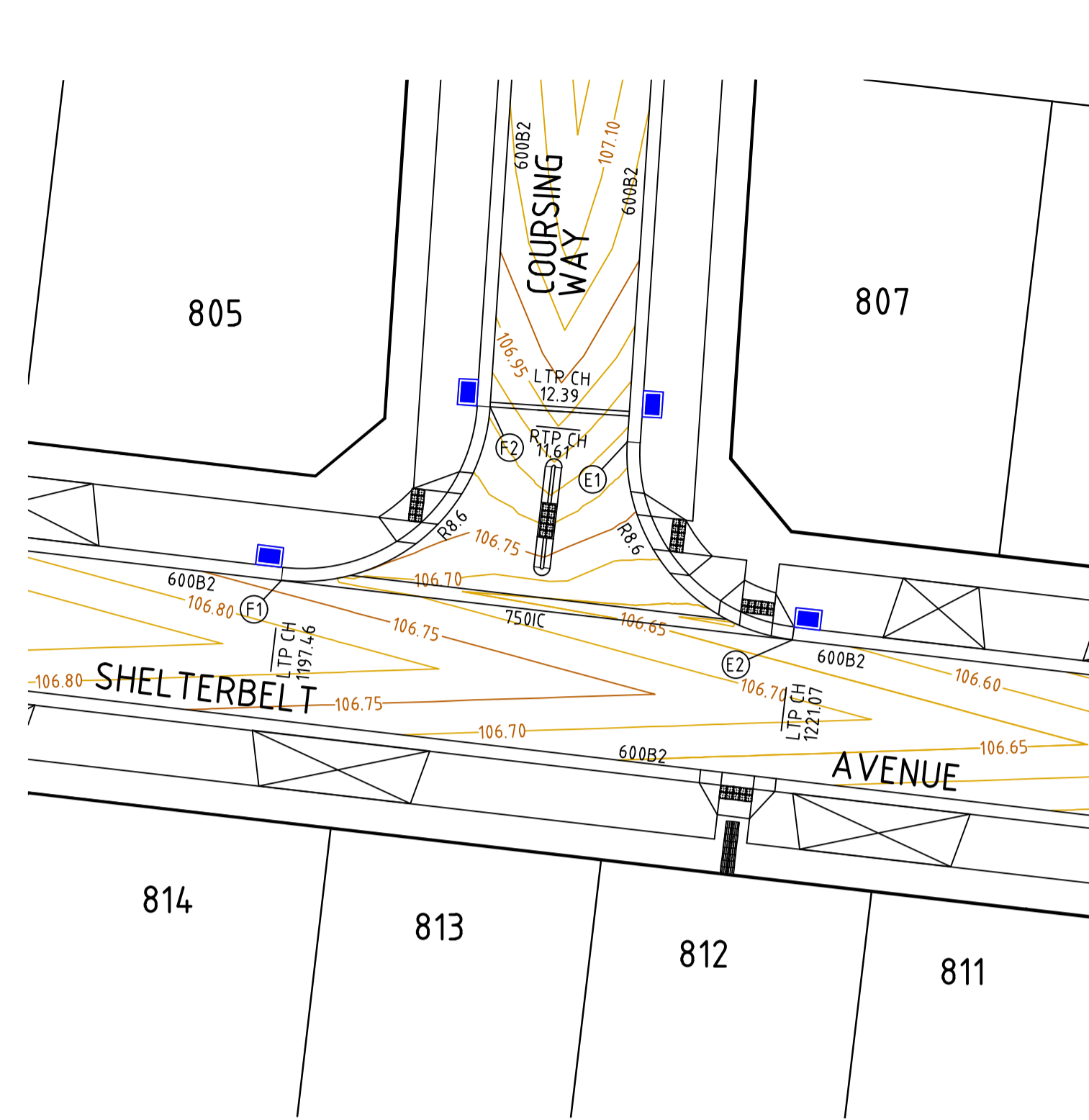
Designed: M.TRUONG  
 Authorised: M.HOLMES  
 Checked: -----  
 Date: 24/08/21

**SEVENTH BEND**  
**STAGE 8**  
**ROAD AND DRAINAGE**  
**INTERSECTION DETAILS - SHEET 2**  
 MELTON CITY COUNCIL  
 EXFORD ROAD MANAGEMENT PTY LTD

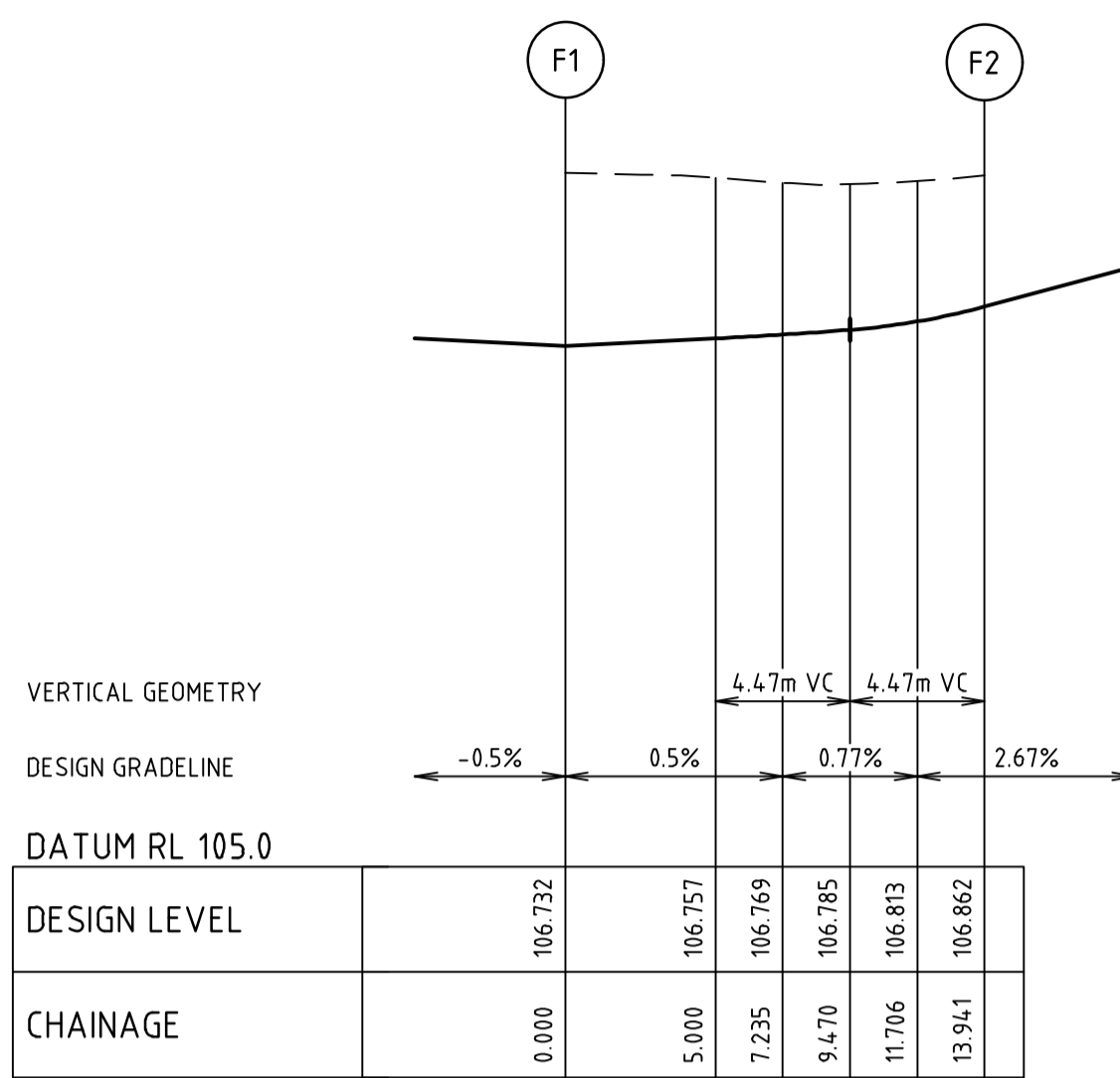
**PRELIMINARY**

Dwg No: 308894CR501  
 Rev: A





INTERSECTION OF SHELTERBELT AVENUE AND COURSING WAY

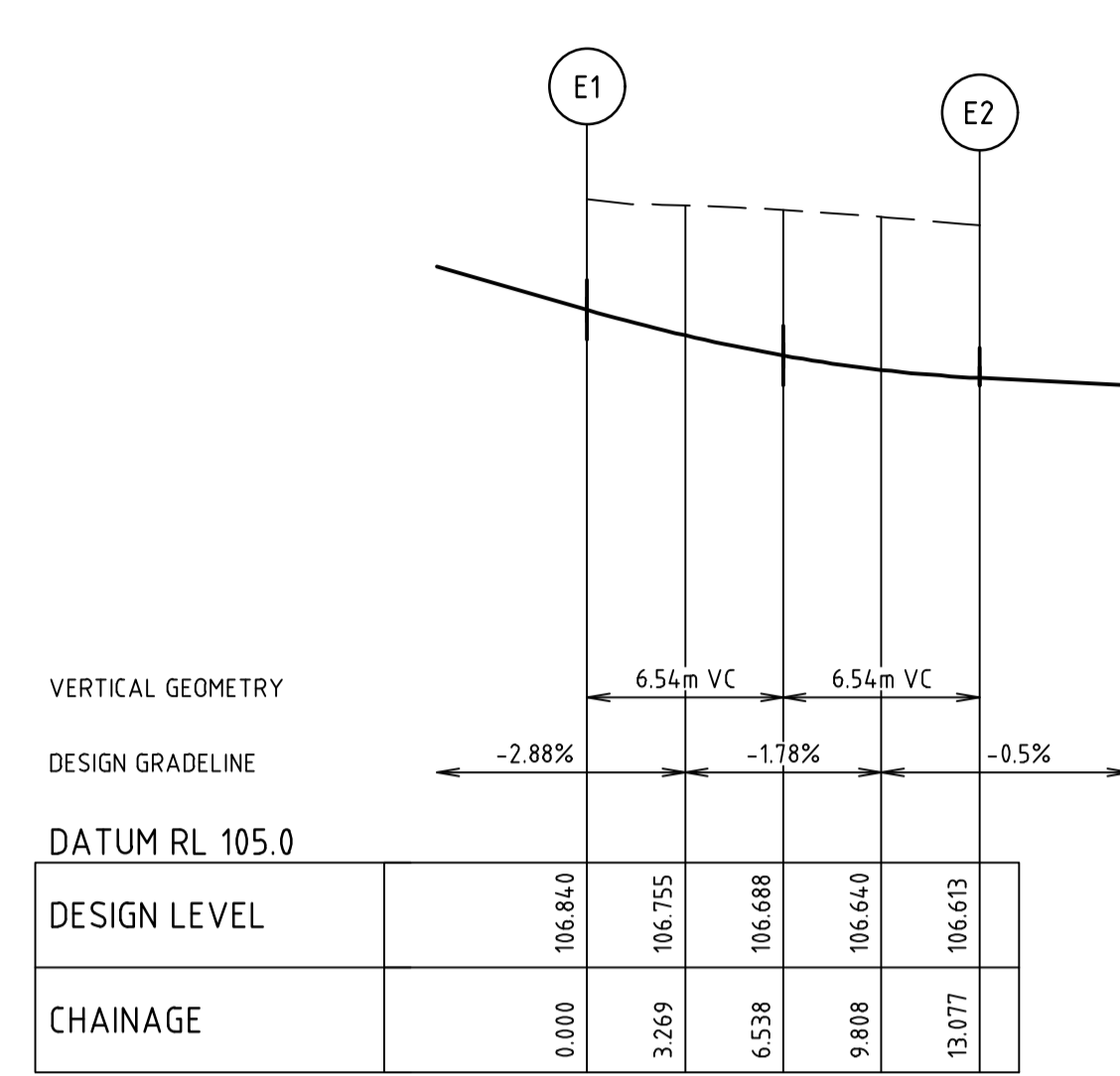


ALIGNMENT F

ALIGNMENT F

POINT NO	EASTING	NORTHING	RL
F1	286589.886	5822272.120	106.732
1/4	286593.334	5822272.419	106.749
1/2	286596.385	5822274.053	106.768
3/4	286598.545	5822276.758	106.795
F2	286599.463	5822280.096	106.862

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
F1 - F2	8.600	13.941	12.464	2.674	-0.697

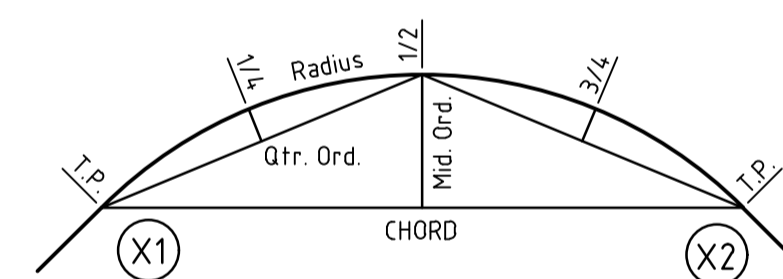


ALIGNMENT E

ALIGNMENT E

POINT NO	EASTING	NORTHING	RL
E1	286605.771	5822278.490	106.840
1/4	286606.174	5822275.266	106.755
1/2	286607.744	5822272.421	106.688
3/4	286610.258	5822270.362	106.640
E2	286613.356	5822269.382	106.613

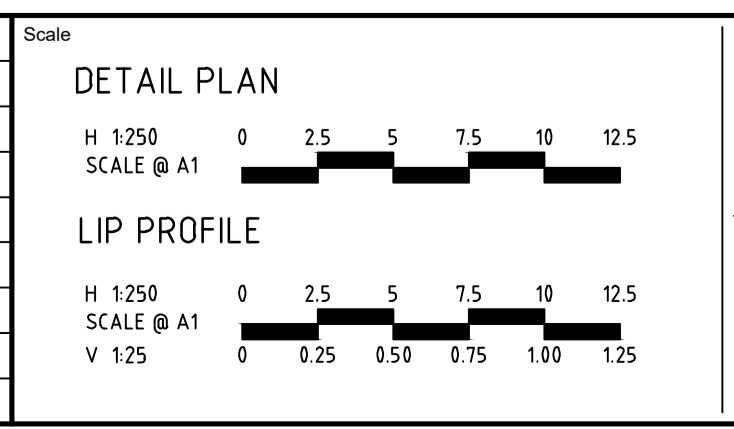
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
E1 - E2	8.600	13.077	11.853	2.368	-0.614



KERB RETURN SETOUT DETAIL

file name: 308894CR503.dwg, layout name: CR503, plotted by: Michael Truong, file location: G:\308894\Level\A\CAD\plot.dwg, 24/08/2021 6:18 PM, Sheet 16 of 26 Sheets

Rev	Amendments	Approved	Date
A	ISSUED FOR APPROVAL	M.H	24/08/21



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Authorised: M.HOLMES  
Checked: -----  
Date: 24/08/21

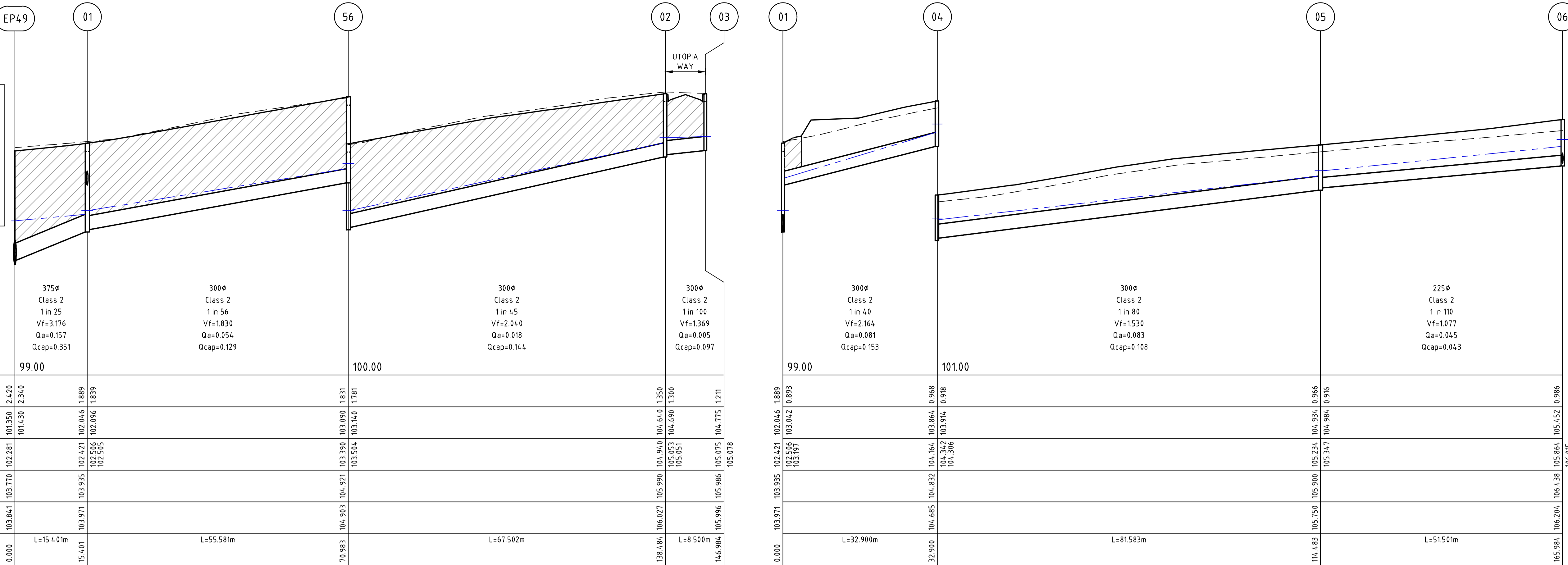
**SEVENTH BEND  
STAGE 8  
ROAD AND DRAINAGE  
INTERSECTION DETAILS - SHEET 4**  
MELTON CITY COUNCIL  
EXFORD ROAD MANAGEMENT PTY LTD

**PRELIMINARY** Drg No: 308894CR503 Rev: A

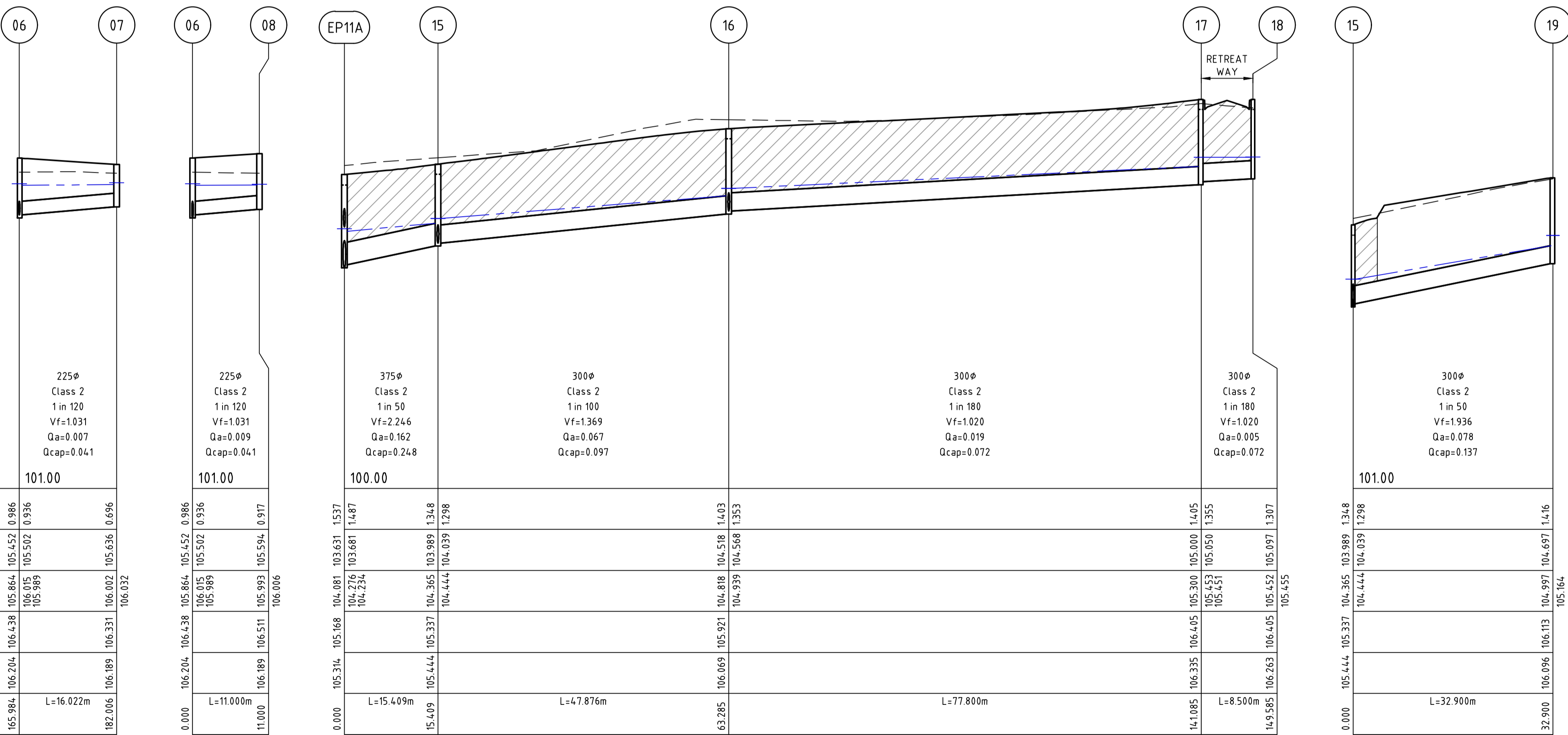
**CRUSHED ROCK BACKFILL**  
 CRB INDICATES CRUSHED ROCK BACKFILL  
 COMPACTED IN ACCORDANCE WITH  
 MELTON CITY COUNCIL STANDARDS &  
 SPECIFICATION CLASS 2 UNDER ROAD  
 PAVEMENT & CLASS 3 BEHIND KERB

- 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.

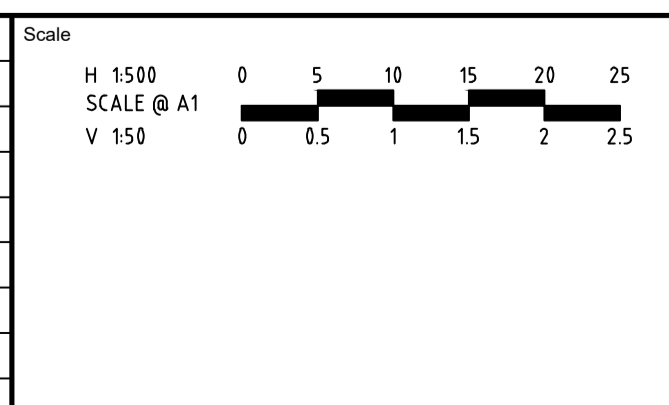
Pipe Diameter  
 Pipe Class  
 Pipe Grade  
 Velocity (m/s)  
 Pipe Flow (m3/s)  
 Pipe Capacity (m3/s)



Pipe Diameter  
 Pipe Class  
 Pipe Grade  
 Velocity (m/s)  
 Pipe Flow (m3/s)  
 Pipe Capacity (m3/s)



file name: 308894CR600.dwg, layout name: CR600, plotted by: Michael Truong, plot date: 24/08/2021, 16:18 PM, Sheet 17 of 26 Sheets



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Designed: M.TRUONG  
 Authorised: M.HOLMES  
 Checked: -----  
 Date: 24/08/21

**SEVENTH BEND**  
**STAGE 8**  
**ROAD AND DRAINAGE**  
**DRAINAGE LONG SECTIONS - SHEET 1**  
 MELTON CITY COUNCIL  
 EXFORD ROAD MANAGEMENT PTY LTD

Drg No: **308894CR600**  
 Rev: **A**

Rev	Amendments	Approved	Date
A	ISSUED FOR APPROVAL	M.H	24/08/21





### DESIGN PAVEMENT PROFILE

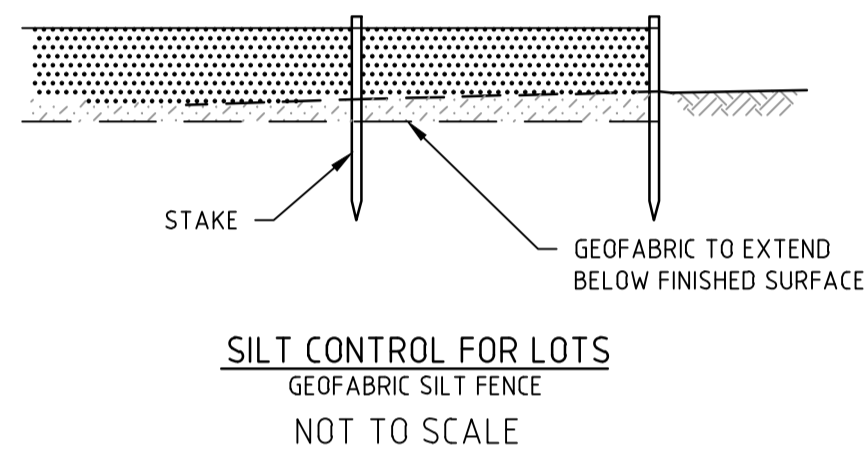
PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)		
		TYPE A*	TYPE B*	TYPE C*
WEARING COURSE ASPHALT	TYPE L SIZE 7mm (CLASS 320 BINDER)	20		
	TYPE L SIZE 10mm (CLASS 320 BINDER)		30	
	TYPE N SIZE 10mm (CLASS 320 BINDER)			30
BASE COURSE ASPHALT SAMI	TYPE N SIZE 10mm (CLASS 320 BINDER)	30	30	30
	SIZE 10 SAMI S18R	10	10	10
PRIME OR PRIMESEAL		Y	Y	Y
BASE	CLASS 2 CRUSHED ROCK (SIZE 20mm) COMPACTED TO A DENSITY OF 100% (MODIFIED) AS1289.5.2.1	14.0	13.0	13.0
	UPPER PAVEMENT TOTAL	200	200	200
SUBBASE	CLASS 3 CRUSHED ROCK (SIZE 20mm) COMPACTED TO A DENSITY OF 98% (MODIFIED) AS1289.5.2.1	100	120	120
LOWER SUBBASE	CLASS 4 CRUSHED ROCK (SIZE 20mm) COMPACTED TO A DENSITY OF 98% (MODIFIED) AS1289.5.2.1	0	0	100
CAPPING LAYER	TYPE A FILL OR EQUIVALENT (CBR ≥ 8% - PERMEABILITY ≤ 5.0x10 <sup>-9</sup> m/sec AND % SWELL ≤ 15%, MAX PARTICLE 25mm)	150	150	150
CONSTRUCTION LAYER	TYPE A FILL OR EQUIVALENT (CBR ≥ 8% - PERMEABILITY ≤ 5.0x10 <sup>-9</sup> m/sec AND % SWELL ≤ 15%, MAX PARTICLE 40mm)	150	150	150
TOTAL PAVEMENT DEPTH		600	620	720

\* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES  
 TYPE A = ACCESS LANE (LOWER RANGE) 300 VEH/DAY  
 TYPE B = ACCESS PLACE (UPPER RANGE) 1000 VEH/DAY  
 TYPE C = ACCESS STREET LEVEL 1 (UPPER RANGE) 2000 VEH/DAY

### 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 OR SEALING WITH PLASTIC SHEETING.
- 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 GRADE 250R STEEL BARS, 450mm LONG AND PLACED AT 300mm CENTRES. REFER CCAA - "CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS" FOR DOWEL DIAMETERS. 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.
- ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.

ROAD NAME	TYPE
PARKING BAY	A
UTOPIA WAY	B
RETREAT WAY	B
COURSING WAY	B
SANDERBELT AVENUE	B
TAXON ROAD	C



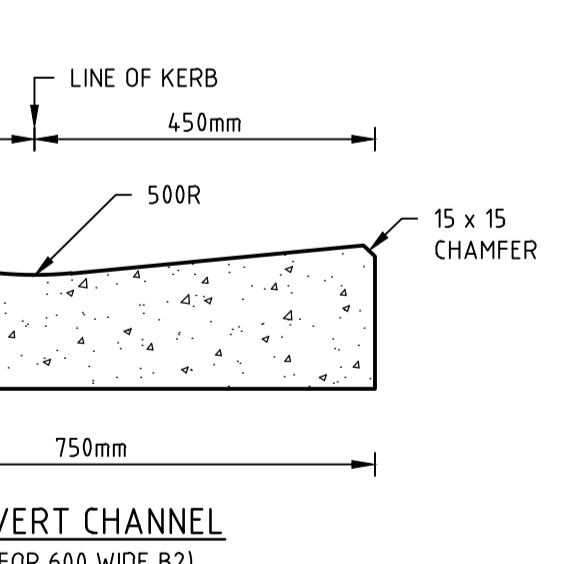
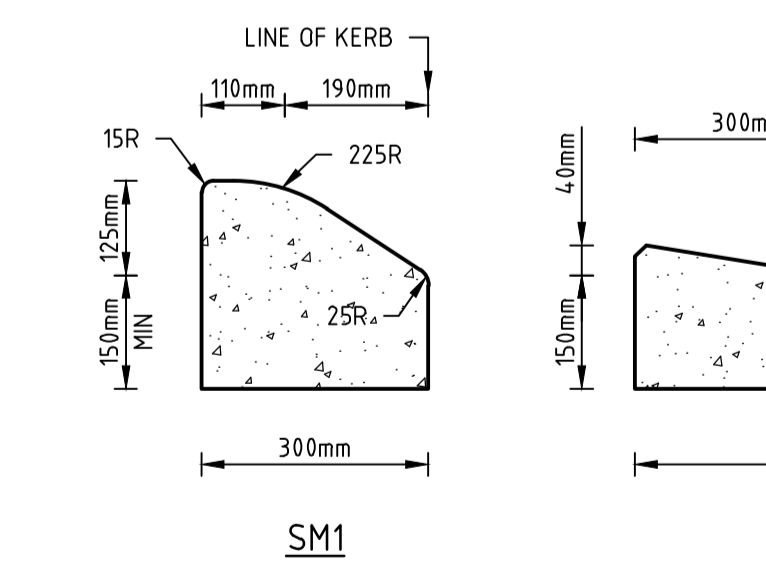
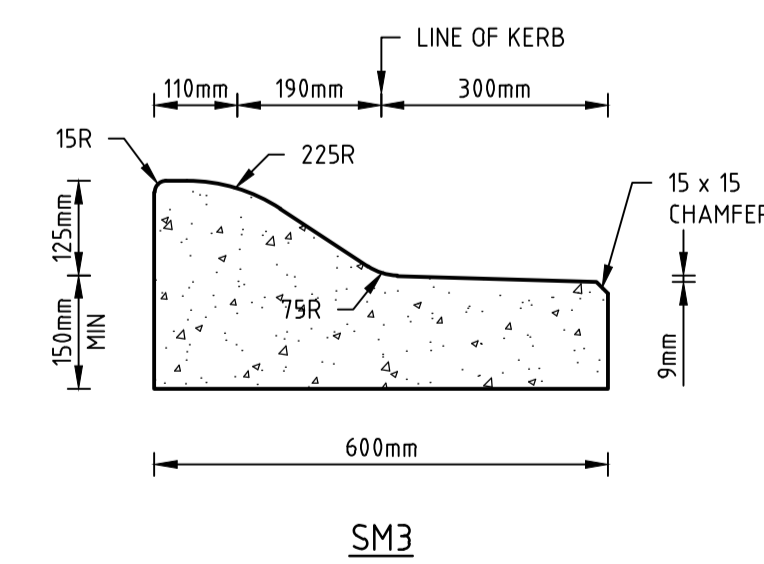
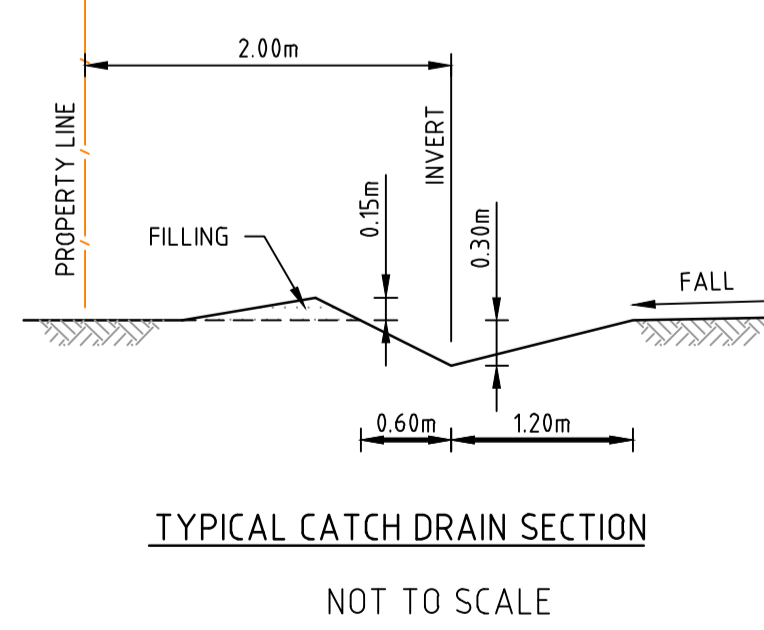
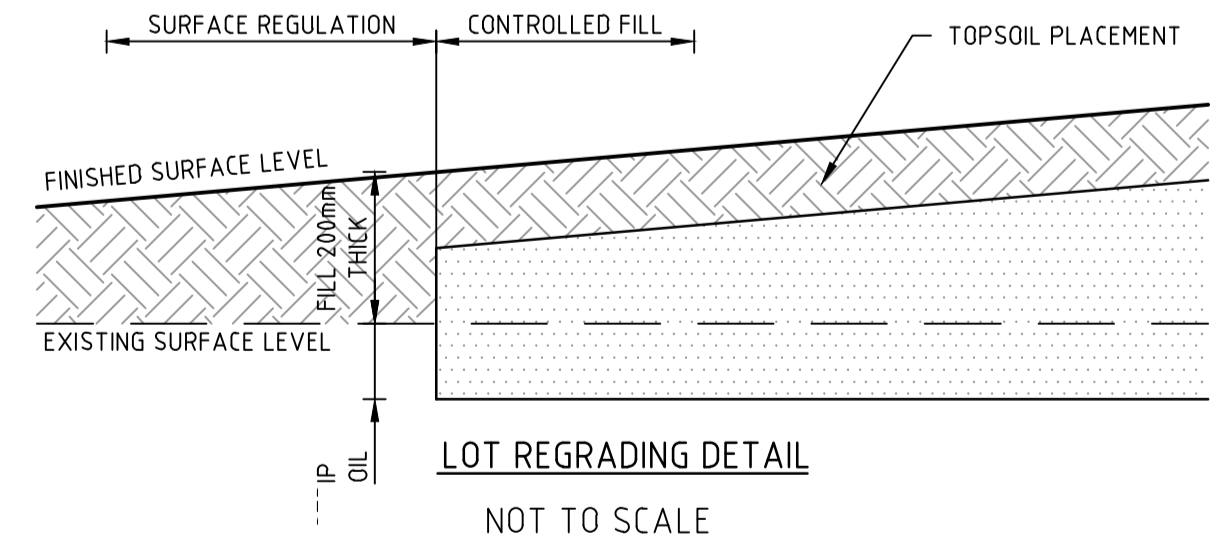
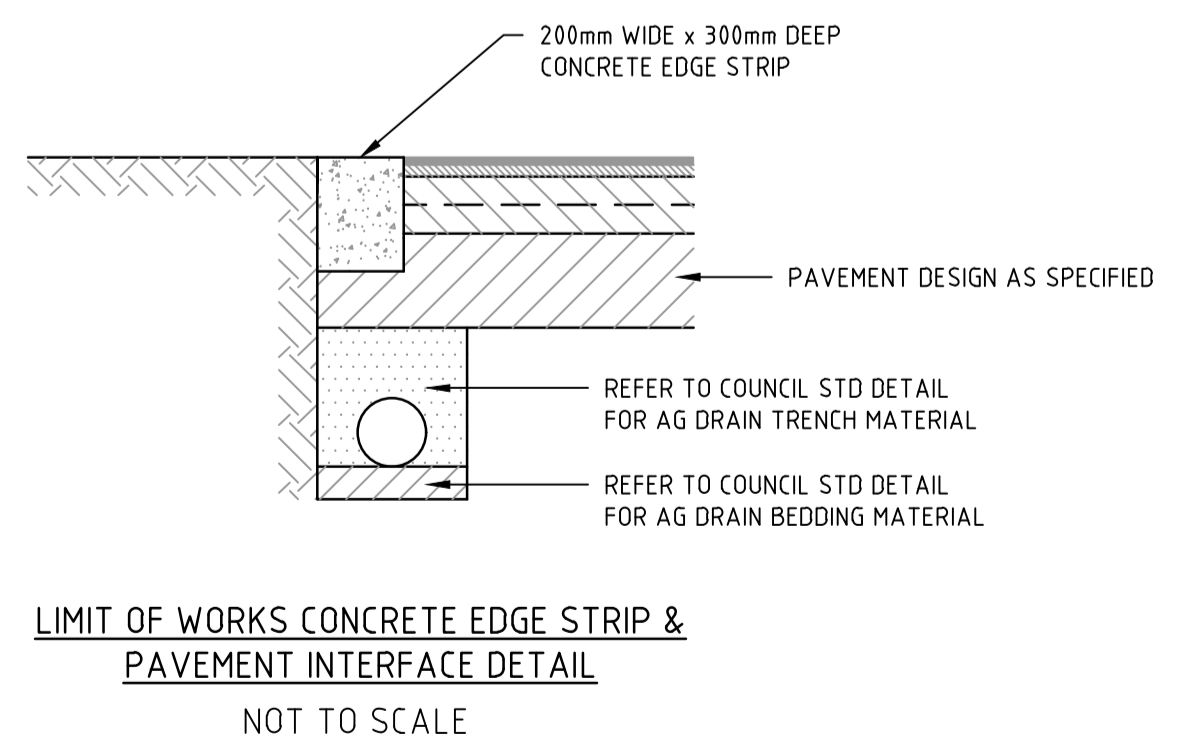
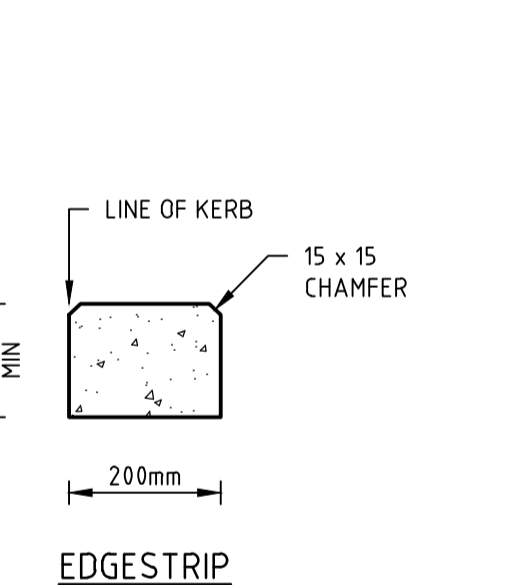
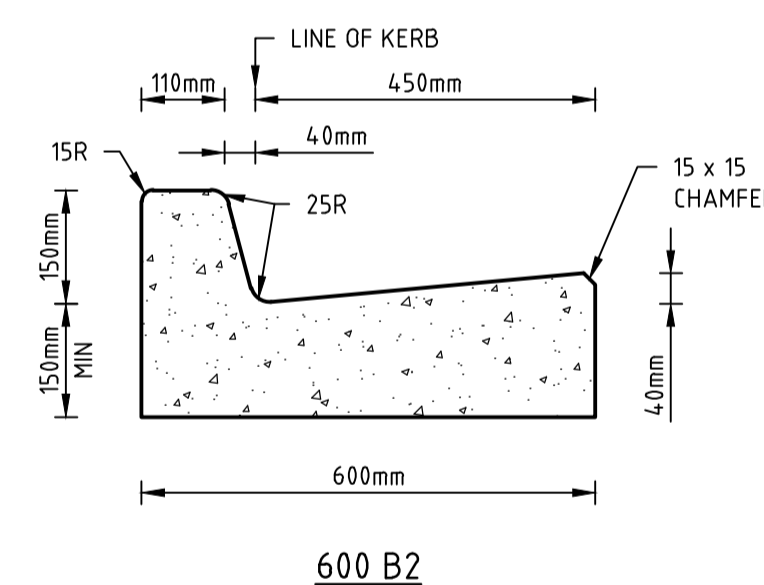
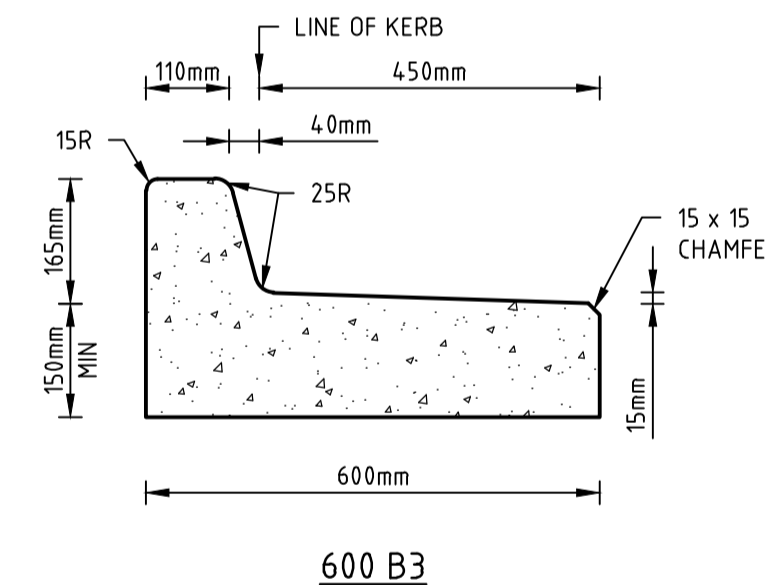
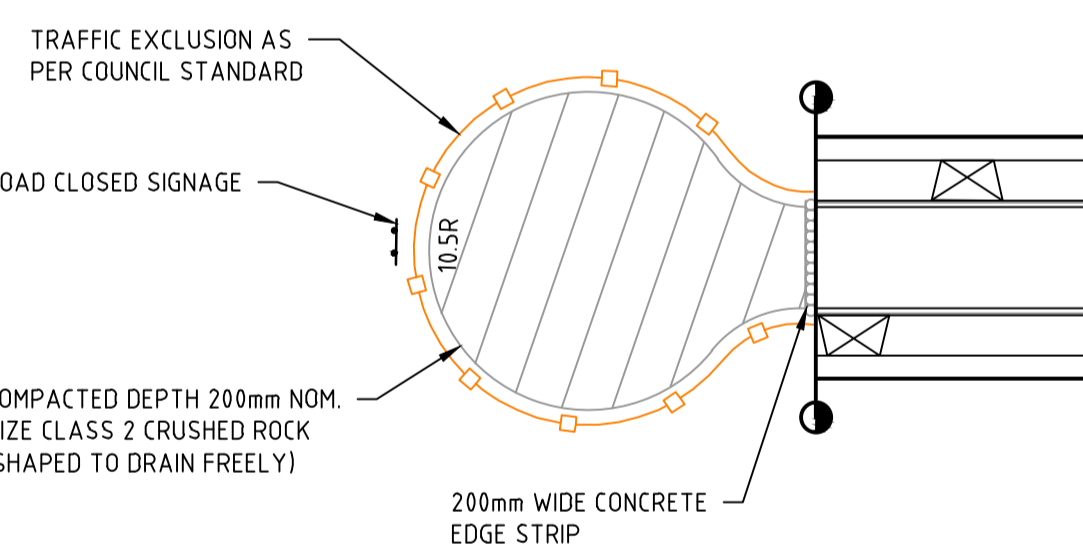
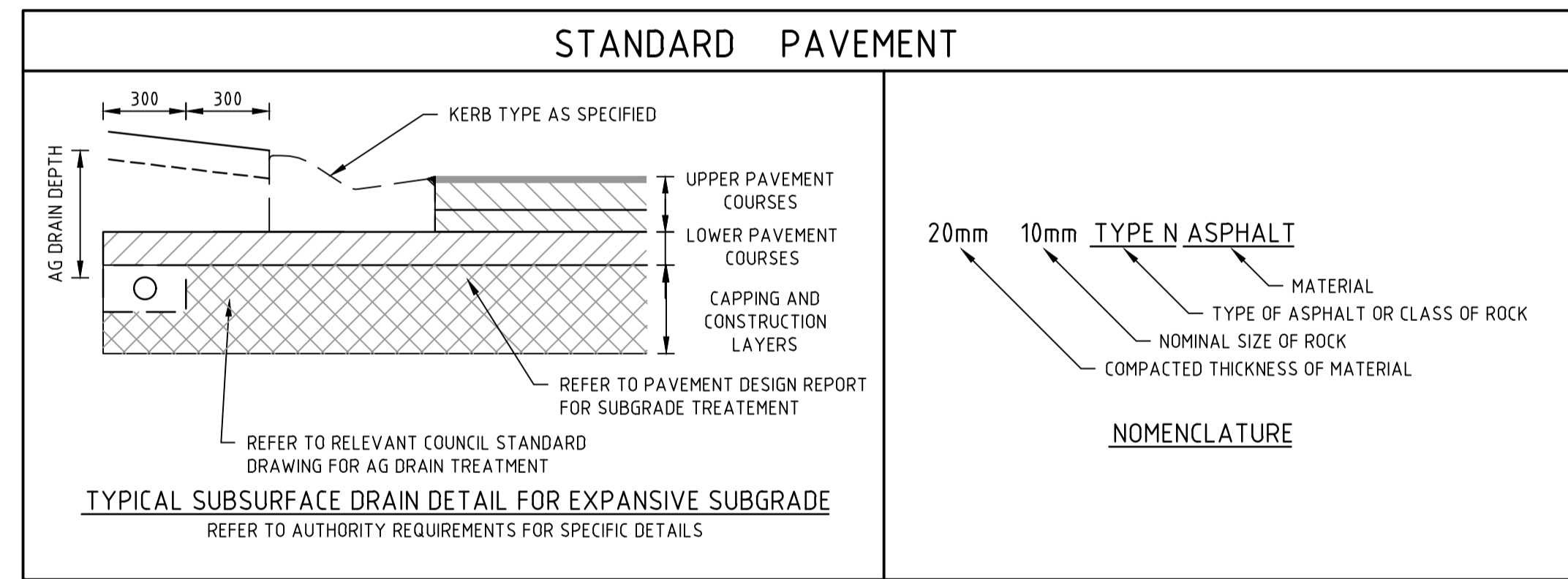
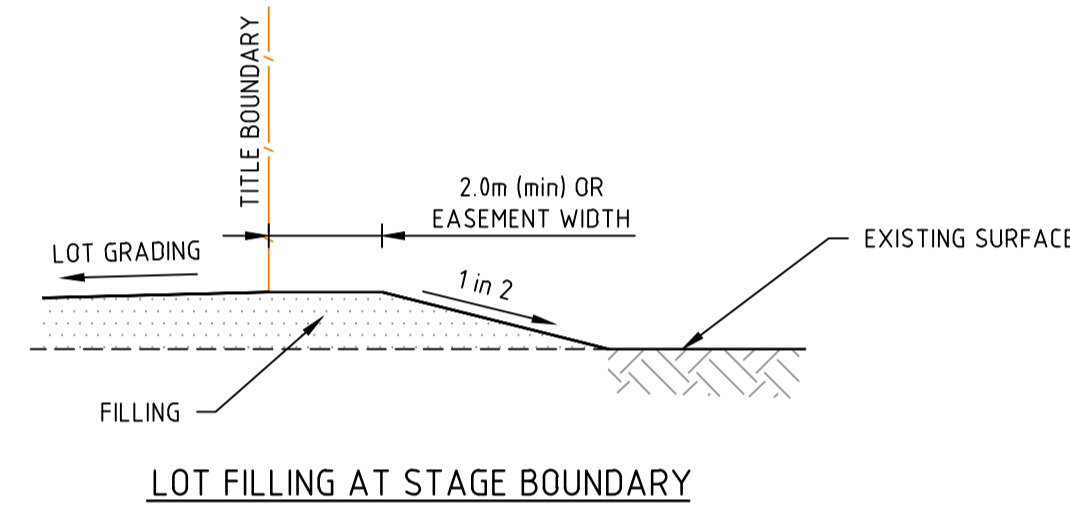
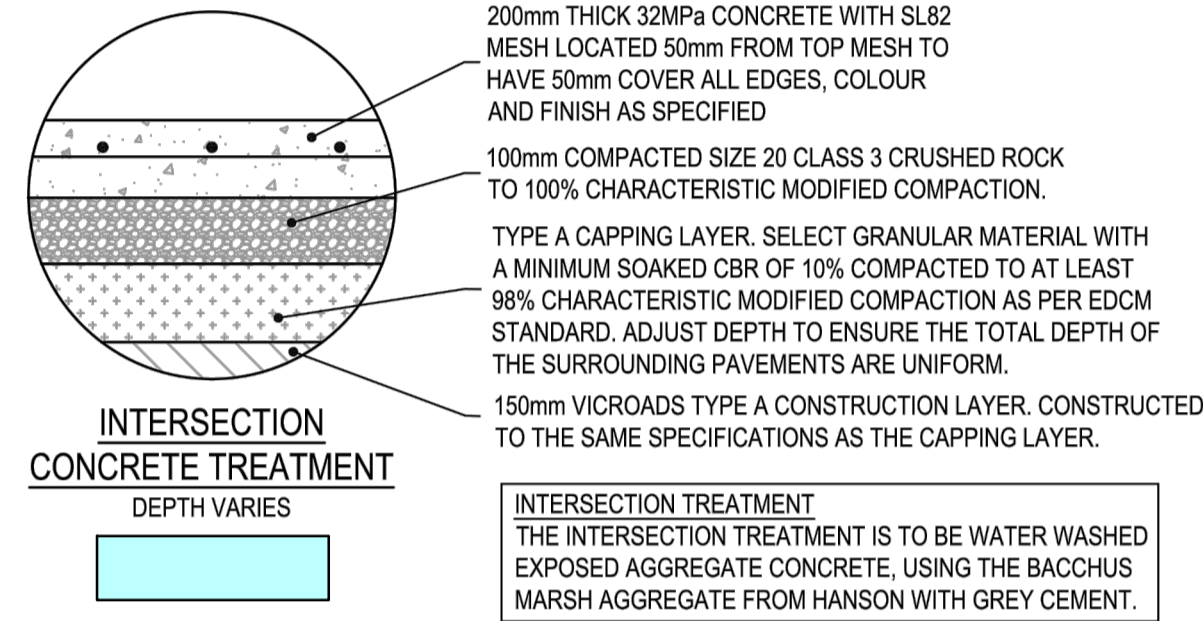
### PAVEMENT DETAILS

THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY GROUND SCIENCE PTY LTD WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF NAME OF GEOTECHNICAL ENGINEERS.

THE DESIGN HAS BEEN EXTRACTED FROM THE PRELIMINARY GEOTECHNICAL INVESTIGATION PROPOSED SUBDIVISION AT SEVENTH BEND ESTATE (PRECINCTS 2 & 3) SOUTH MELTON REPORT REF:G3696.1AB DATED 10 September 2020 ON "GEOTECHNICAL INVESTIGATION FOR SEVENTH BEND ESTATE" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

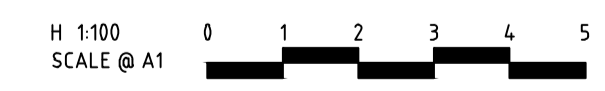
A COPY OF THE DOCUMENT WILL BE PROVIDED ON REQUEST.

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### STANDARD KERB PROFILES

NOTE: ALL KERB & CHANNEL AS PER GAA STD DRAWING EDMC 301



file name: 308894CR700.dwg, layout name: CD700, plotted by: Michael Tranter, file location: G:\303\308894\CD700\308894.dwg, LACAD plot date: 24/08/2021 6:18 PM, Sheet 20 of 26 Sheets

Rev	ISSUED FOR APPROVAL	M.H	24/08/21
	Amendments	Approved	Date

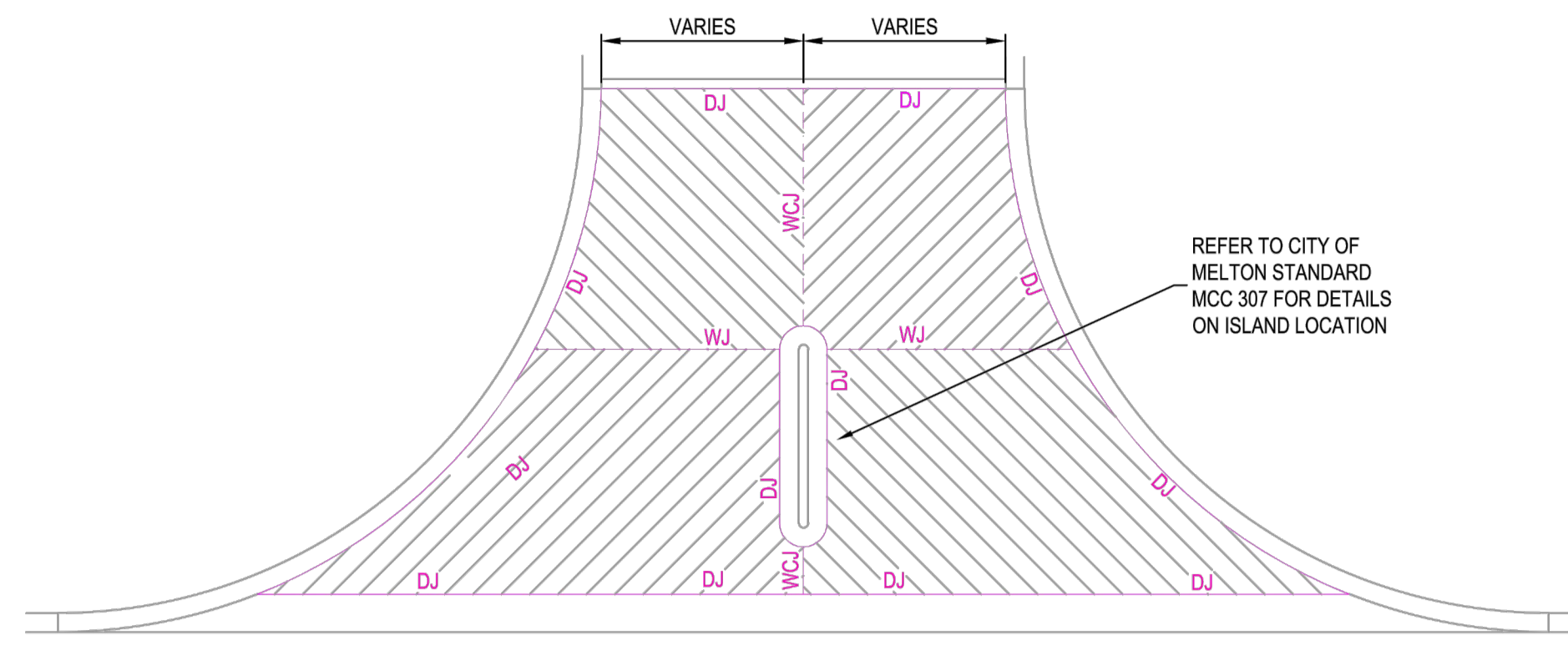
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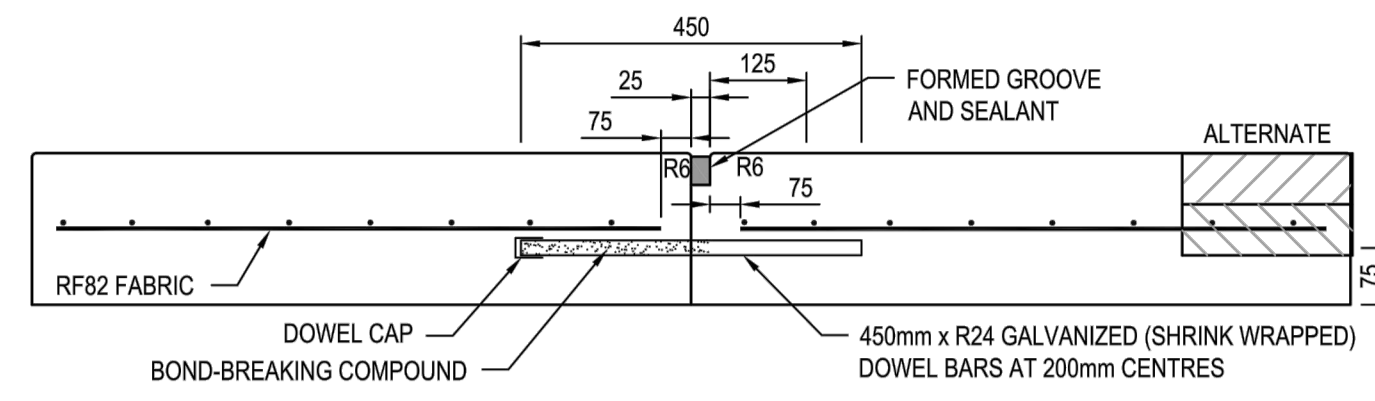
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 M.TRUONG  
 Authorised  
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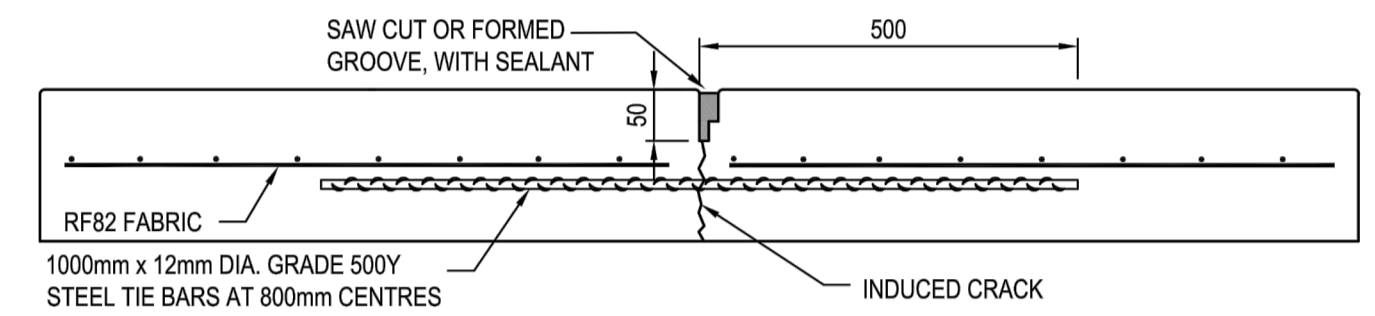
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**STAGE 8**  
**ROAD AND DRAINAGE**  
**PAVEMENT AND TYPICAL DETAILS - SHEET 1**  
 MELTON CITY COUNCIL  
 EXFORD ROAD MANAGEMENT PTY LTD  
**PRELIMINARY** Drg No 308894CR700 Rev A



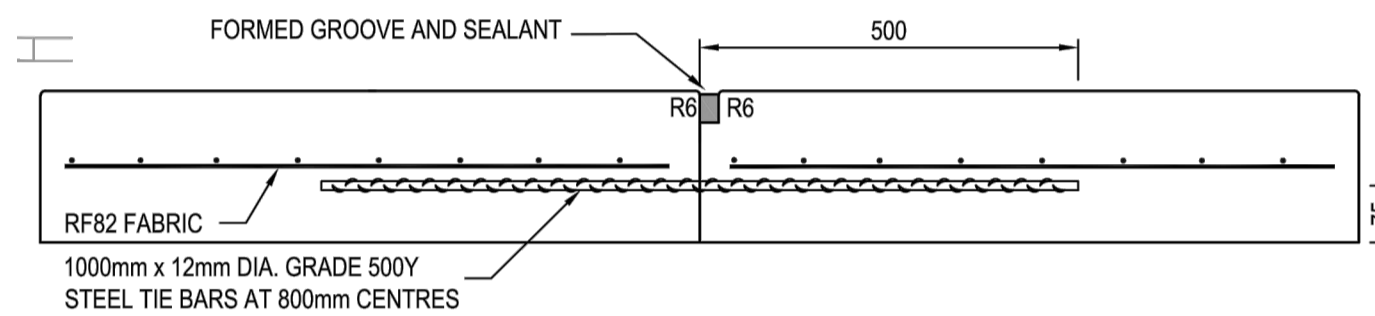
TYPICAL CONCRETE TREATMENT PAVEMENT DETAIL  
SCALE 1:100



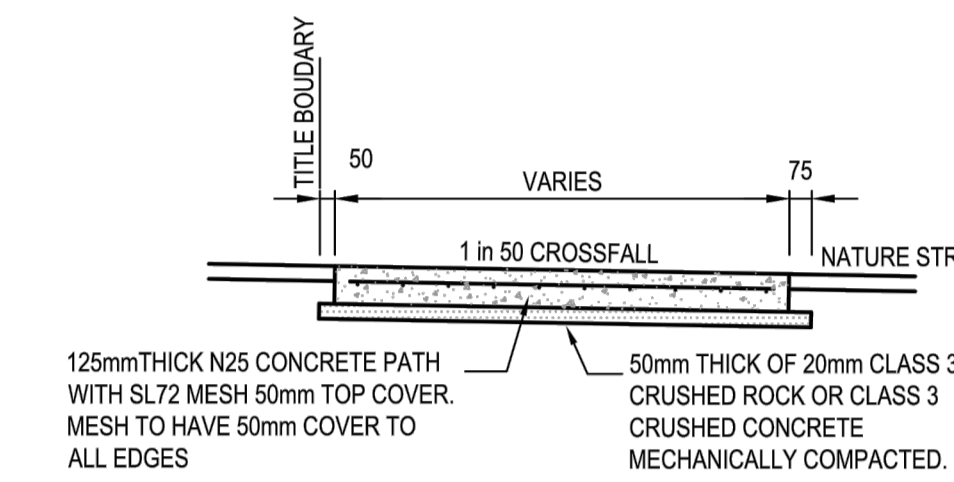
TRANSVERSE CONTRACTION JOINT DOWELLED BUTT JOINT AT CONSTRUCTION JOINT (DJ)



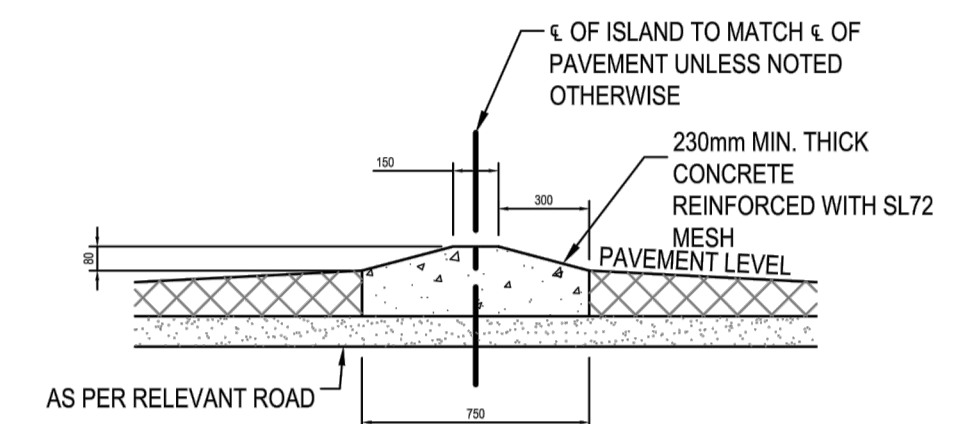
LONGITUDINAL WARPING JOINT WEAKENED PLANE JOINT (WJ)



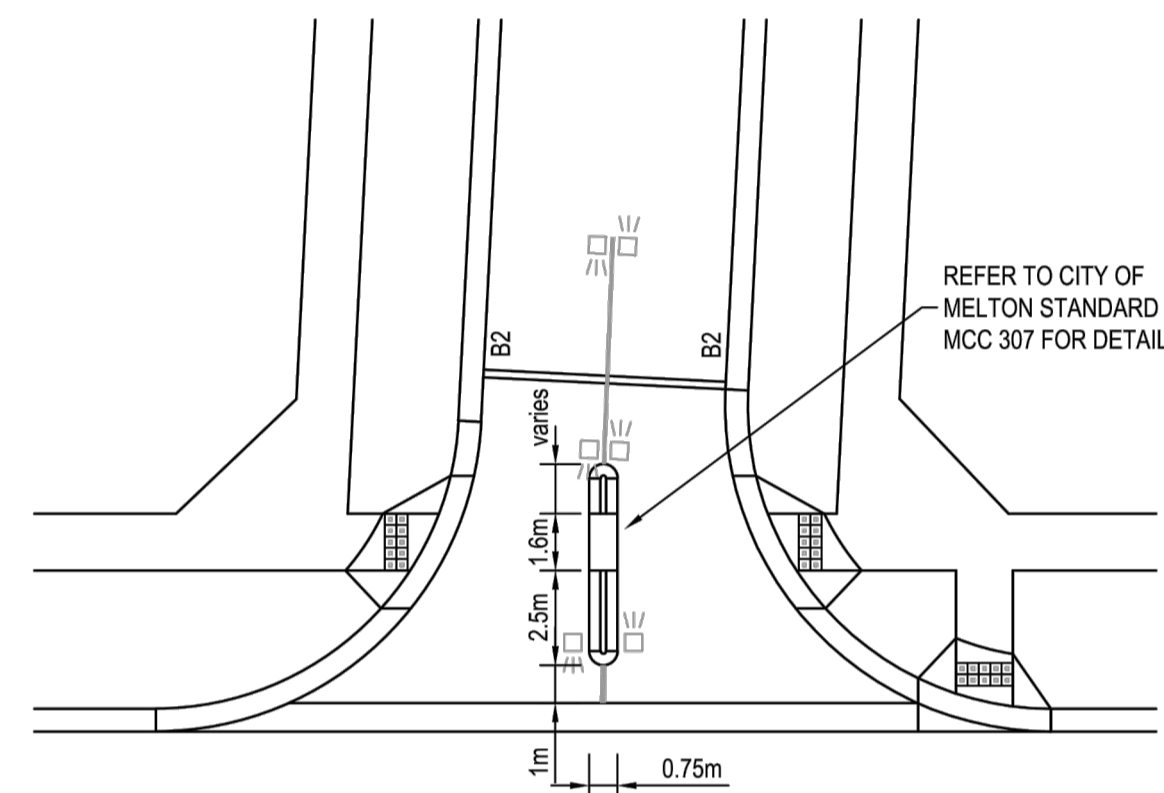
LONGITUDINAL WARPING JOINT CONSTRUCTION JOINT (WCJ)



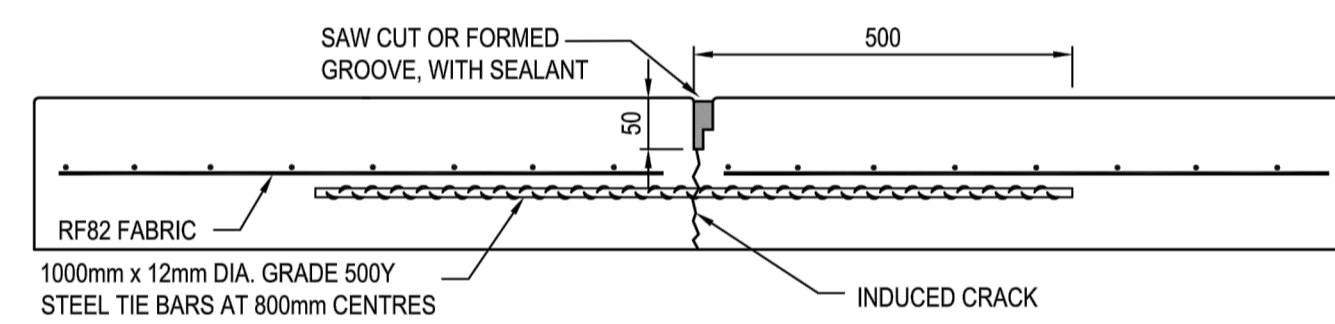
TYPICAL FOOTPATH CROSS SECTION  
NOT TO SCALE



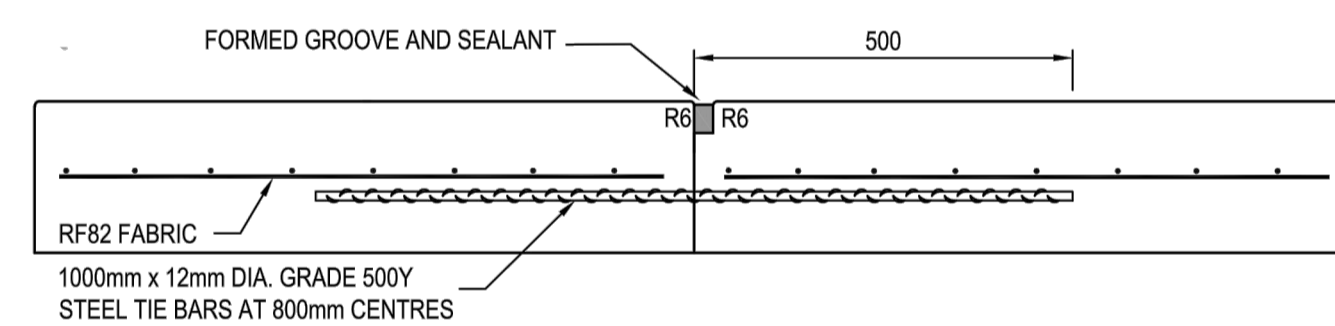
S13 ISLAND - TYPICAL CROSS SECTION  
NOT TO SCALE  
(REFER TO CITY OF MELTON STD DWG MCC307)



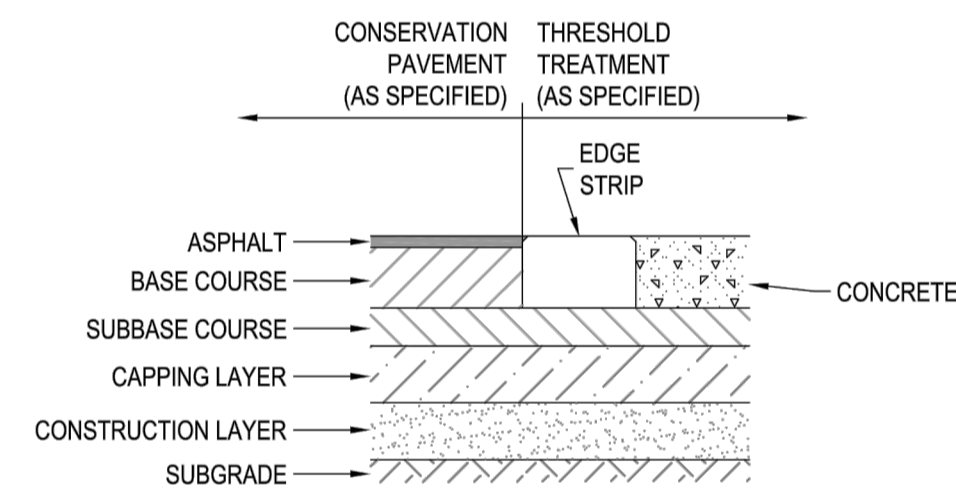
S13 ISLAND - TYPICAL LAYOUT  
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LONGITUDINAL WARPING JOINT WEAKENED PLANE JOINT (WJ)

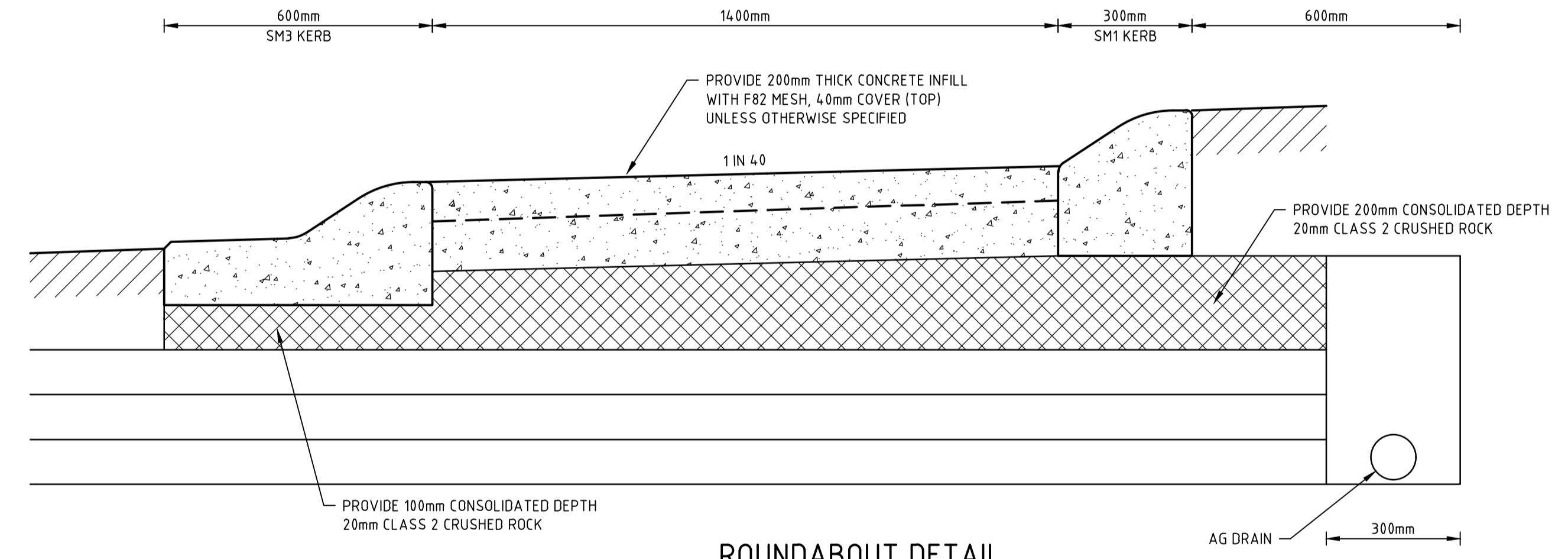


LONGITUDINAL WARPING JOINT CONSTRUCTION JOINT (WCJ)



JOINT DETAIL FOR ROAD PAVEMENT & INTERSECTION THRESHOLD TREATMENT  
NOT TO SCALE

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



ROUNDBABOUT DETAIL

SECTION A  
SCALE: 1:100@A1 CR501

file name: 308894CR701.dwg, layout name: CR701, plotted by: Michael Truong, file location: G:\308894\Level\A\CAD\plot.dwg, date: 24/08/2021, 6:18 PM, Sheet 21 of 26 Sheets

Rev	Description	Approved	Date
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	Amendments		

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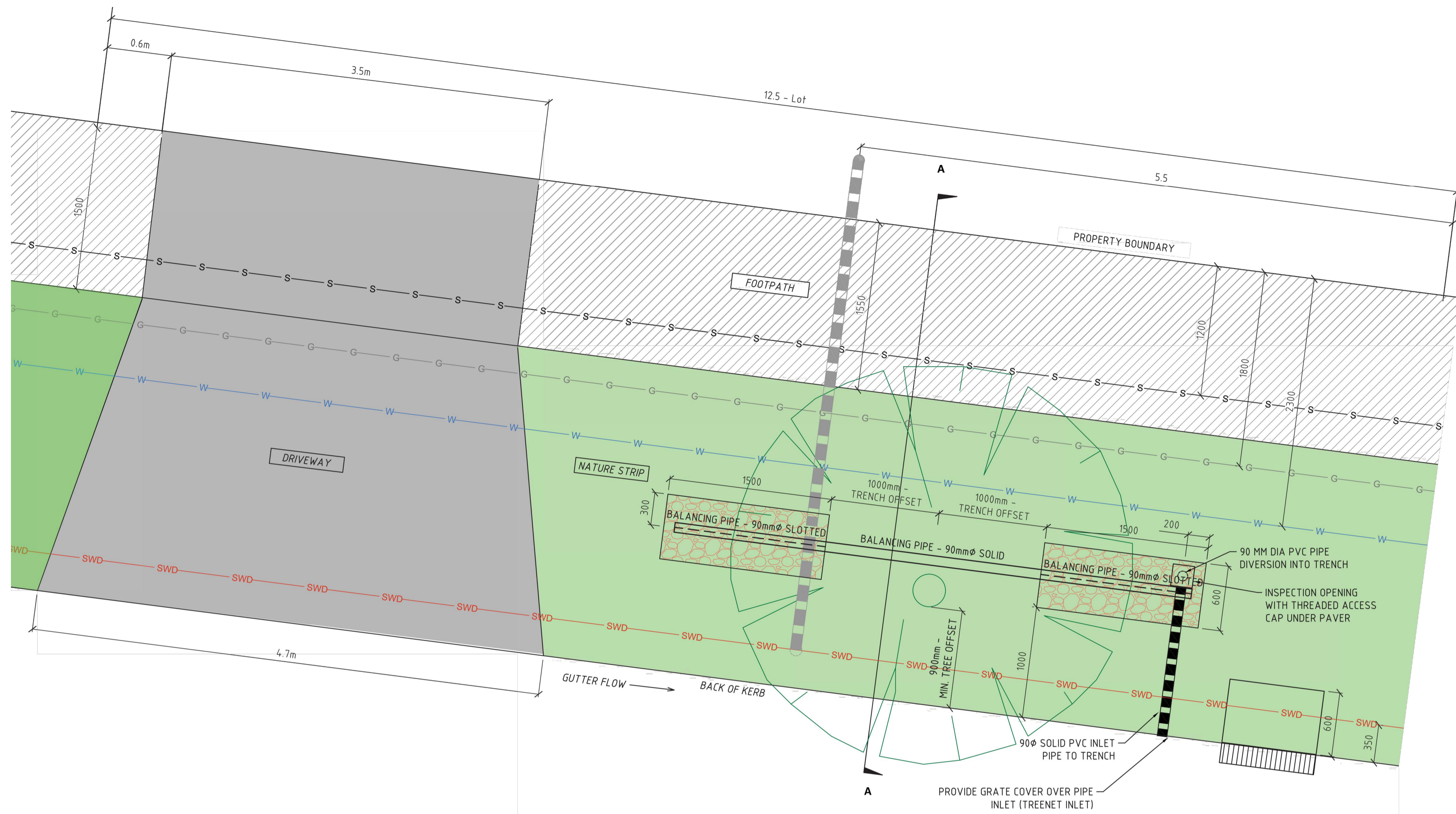
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 M.TRUONG
   
 Authorised  
 M.HOLMES

Checked  
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 Date  
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**SEVENTH BEND**  
**STAGE 8**  
**ROAD AND DRAINAGE**  
**PAVEMENT AND TYPICAL DETAILS - SHEET 2**  
 MELTON CITY COUNCIL  
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**PRELIMINARY**

 Dwg No  
**308894CR701**

 Rev  
**A**



LEGEND	
S	SEWER
G	GAS
W	POTABLE WATER
SWD	STORM WATER DRAIN
	GRAVEL TRENCH - (rail ballast nominal size 50mm)
	BALANCING PIPE - 90mm $\phi$ (slotted section within gravel trench)
	BALANCING PIPE - 90mm $\phi$ (solid pipe section between gravel trenches)

file name: 308894CR702.dwg, Location: Home, C:\Users\Michael.Truong\Documents\308894\308894.dwg, Date: 24/08/2021 6:18 PM, Sheet: 22 of 26 Sheets

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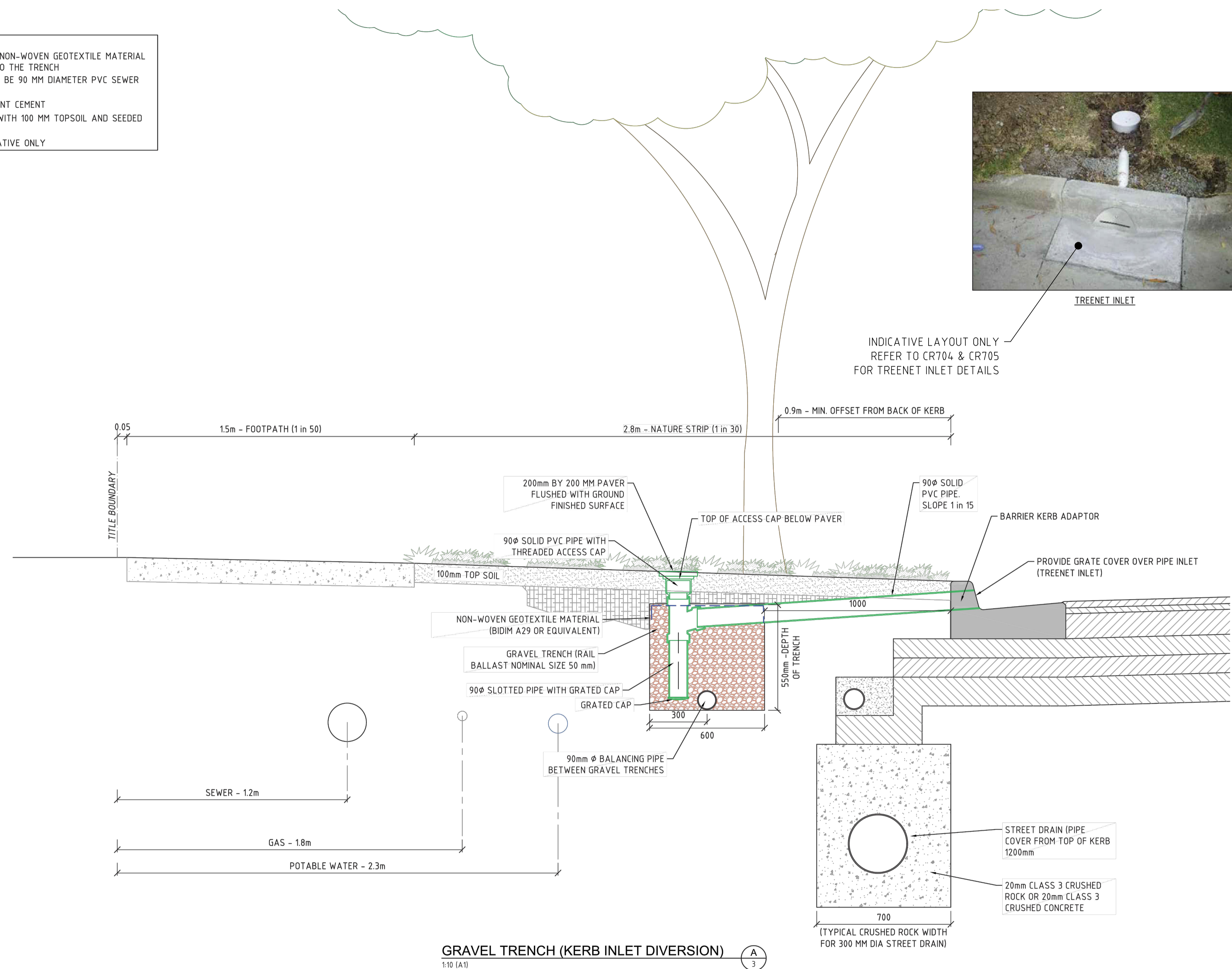
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Authorised	M.HOLMES	Date	24/08/21

**SEVENTH BEND**  
**STAGE 8**  
**ROAD AND DRAINAGE**  
**WSUD DETAILS - SHEET 1 OF 4**  
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 EXFORD ROAD MANAGEMENT PTY LTD

**PRELIMINARY**

Dwg No: 308894CR702 Rev: A

NOTES:  
 TOP OF GRAVEL TRENCH TO BE LINED WITH NON-WOVEN GEOTEXTILE MATERIAL AS SHOWN TO PREVENT FINE MIGRATION INTO THE TRENCH  
 PASSIVE IRRIGATION PIPES AND FITTINGS TO BE 90 MM DIAMETER PVC SEWER CLASS  
 ALL PVC JOINTS TO BE SEALED WITH SOLVENT CEMENT  
 ALL GRASSED AREAS TO BE TOP DRESSED WITH 100 MM TOPSOIL AND SEEDED AS SPECIFIED  
 SERVICE DEPTHS AND LOCATIONS ARE INDICATIVE ONLY



INDICATIVE LAYOUT ONLY  
 REFER TO CR704 & CR705  
 FOR TREENET INLET DETAILS

GRAVEL TRENCH (KERB INLET DIVERSION) A  
 1:10 (A1) 3

file name: 308894CR704.dwg, layout name: CR703, plotted by: Michael Truong  
 file location: G:\308894\Level\A\CAD\plot date: 24/08/2021 6:18 PM, Sheet 23 of 26 Sheets

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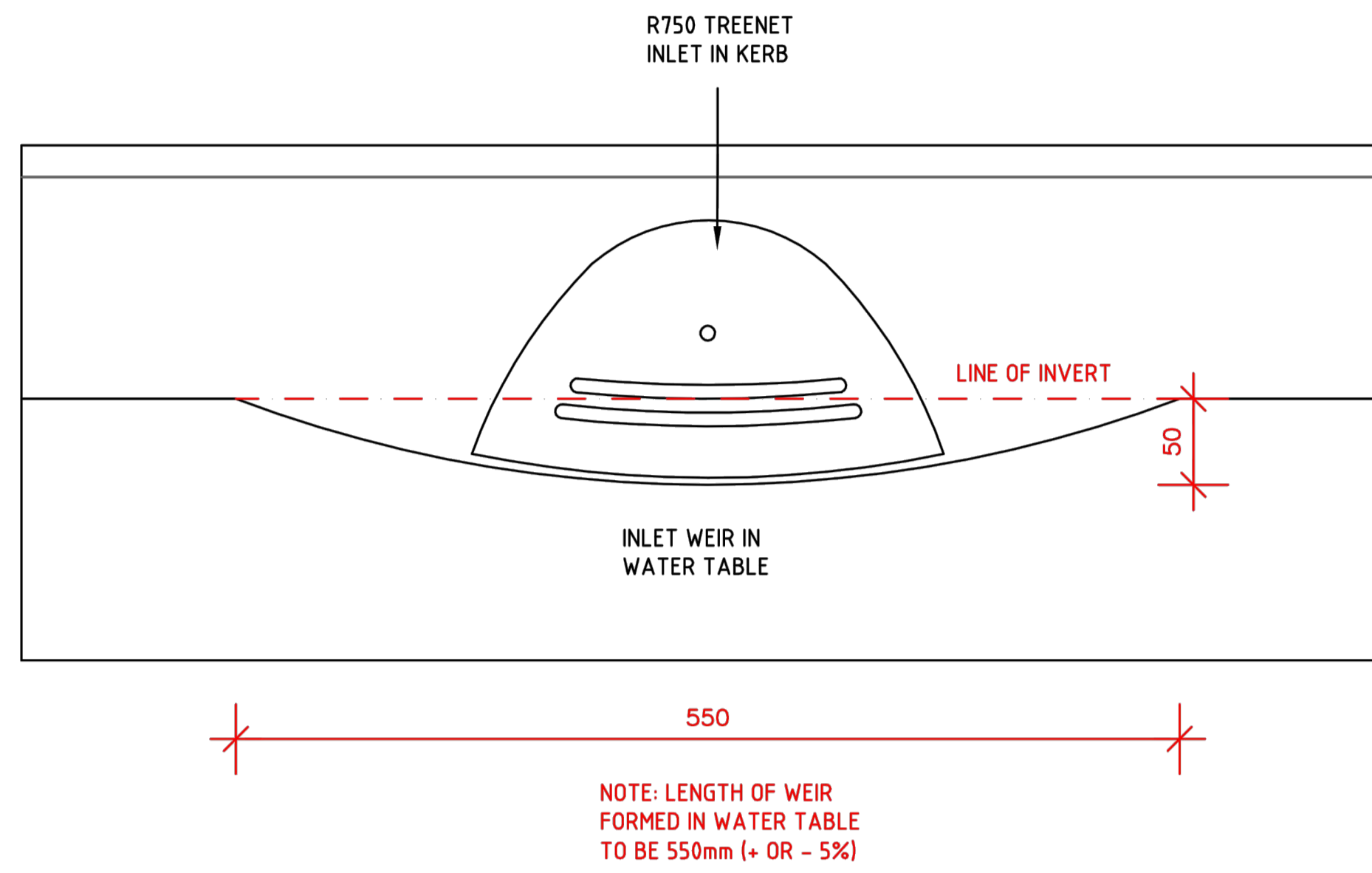
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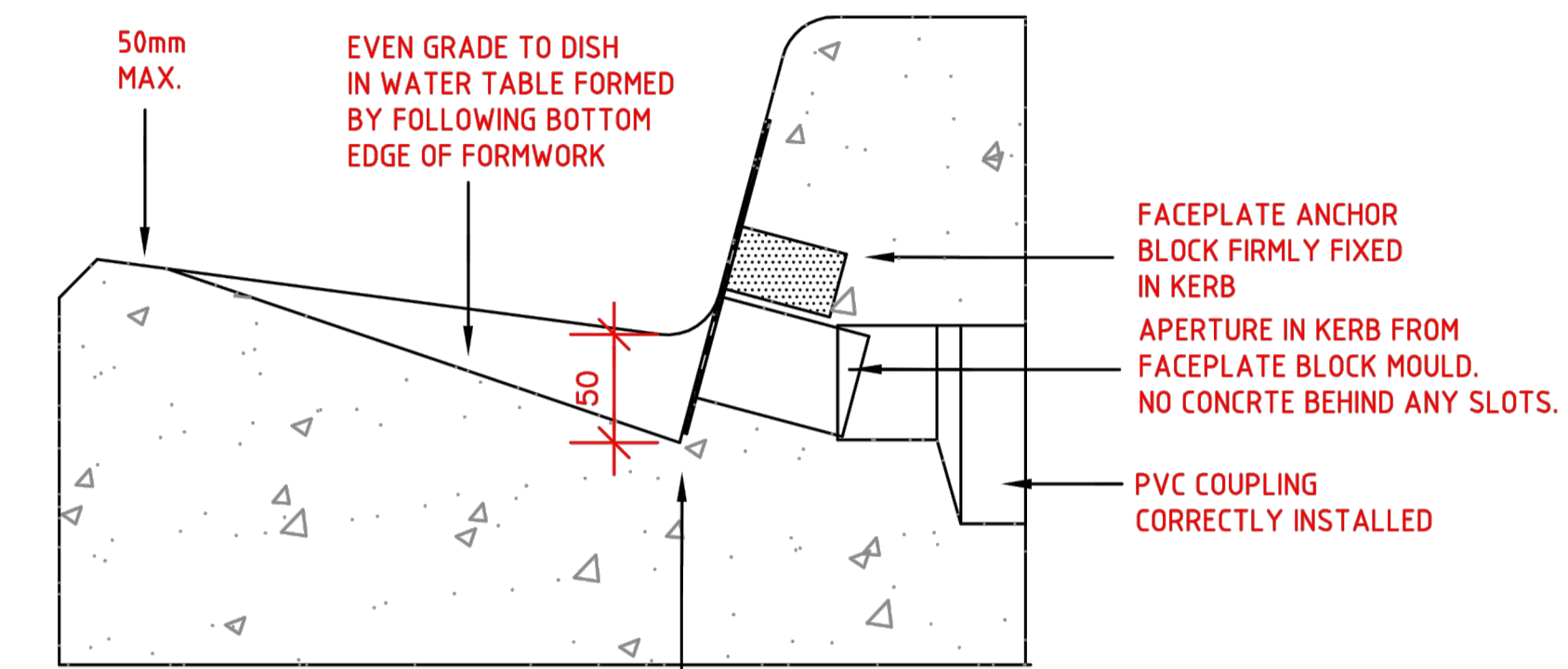
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 Authorised: M.HOLMES  
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 Date: 24/08/21

**SEVENTH BEND**  
**STAGE 8**  
 ROAD AND DRAINAGE  
 WSUD DETAILS - SHEET 2 OF 4  
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**PRELIMINARY** Drg No: 308894CR703 Rev: A

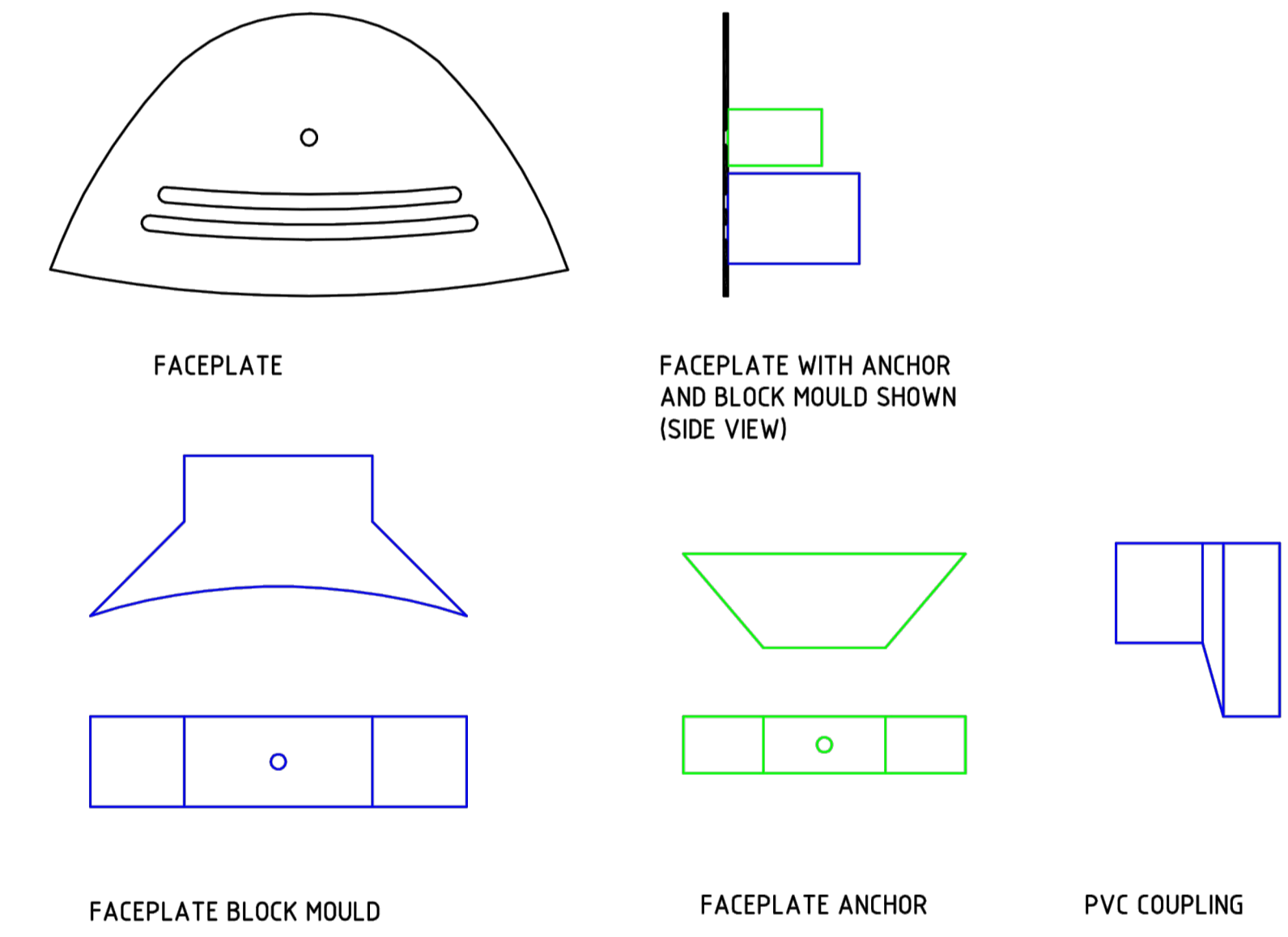
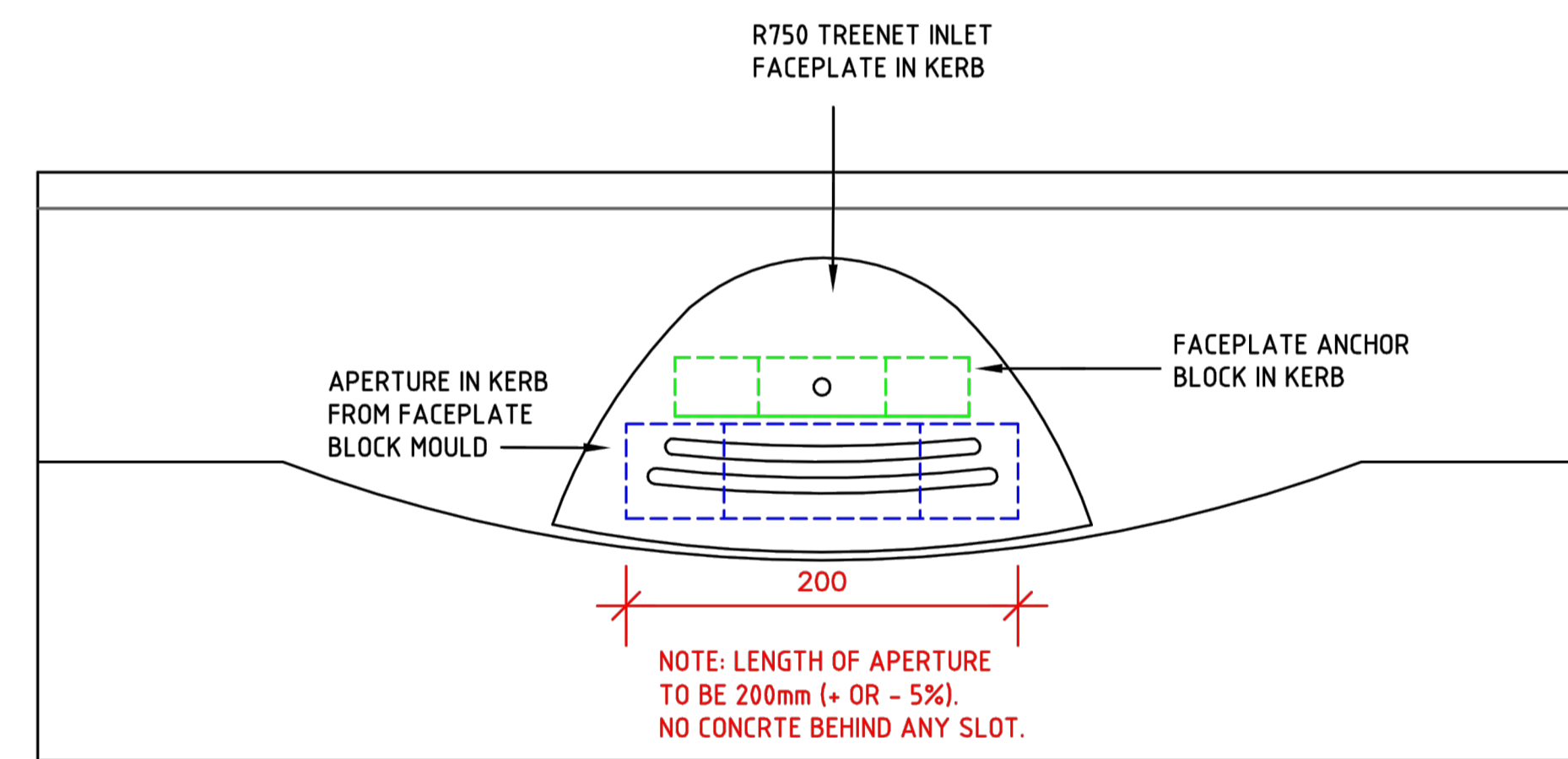


NOTE: DEPTH OF WEIR TO BE 50mm BELOW KERB INVERT (+ OR - 5%)



Section

Front elevations-showing critical requirements for installtion



Components

Note: This drawing illustrates the critical installation requirements for the R750 Treenet Inlet. These are to be met by contractors for approval of works.

CONTACT  
David Lawry OAM  
Director Space Down Under  
E: david@spacedownunder.com.au  
M: 0418 806 803

PROJECT R750 Treenet Inlet	DATE	JOB NO	DESIGN Martin Ely B.Arch. AILA Registered landscape architect E: martin-ely@hotmail.com
	13/06/2019		
DRAWING INSTALLATION CONTROL DRAWING	SCALE	DRAWING NO	
	1:5@A3	SK04	

file name: 308894CR704.dwg, layout name: CR704, plotted by: Michael Truong, file location: G:\308894\Level\A\CAD\plot date: 24/08/2021 6:18 PM, Sheet 24 of 26 Sheets

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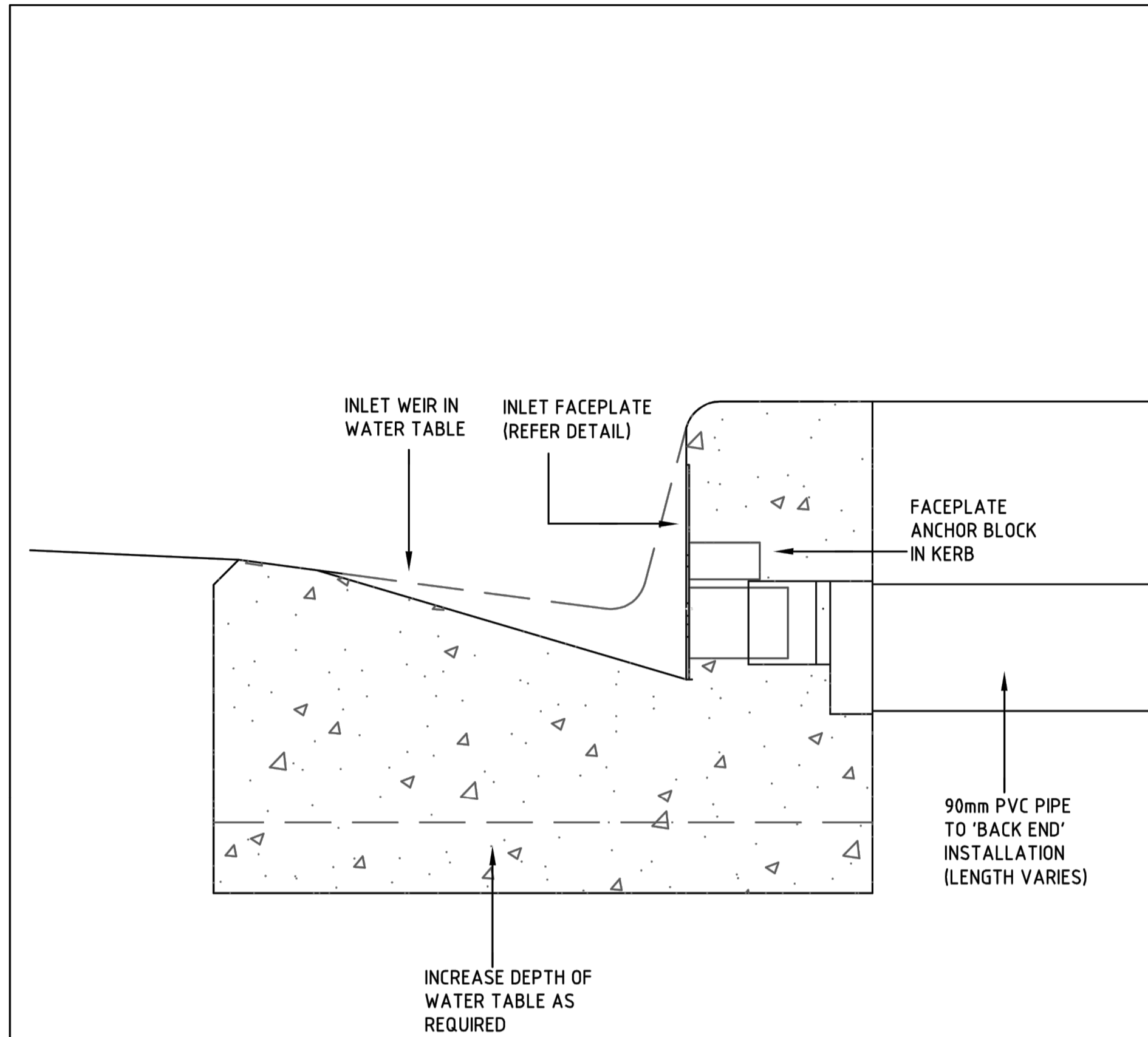
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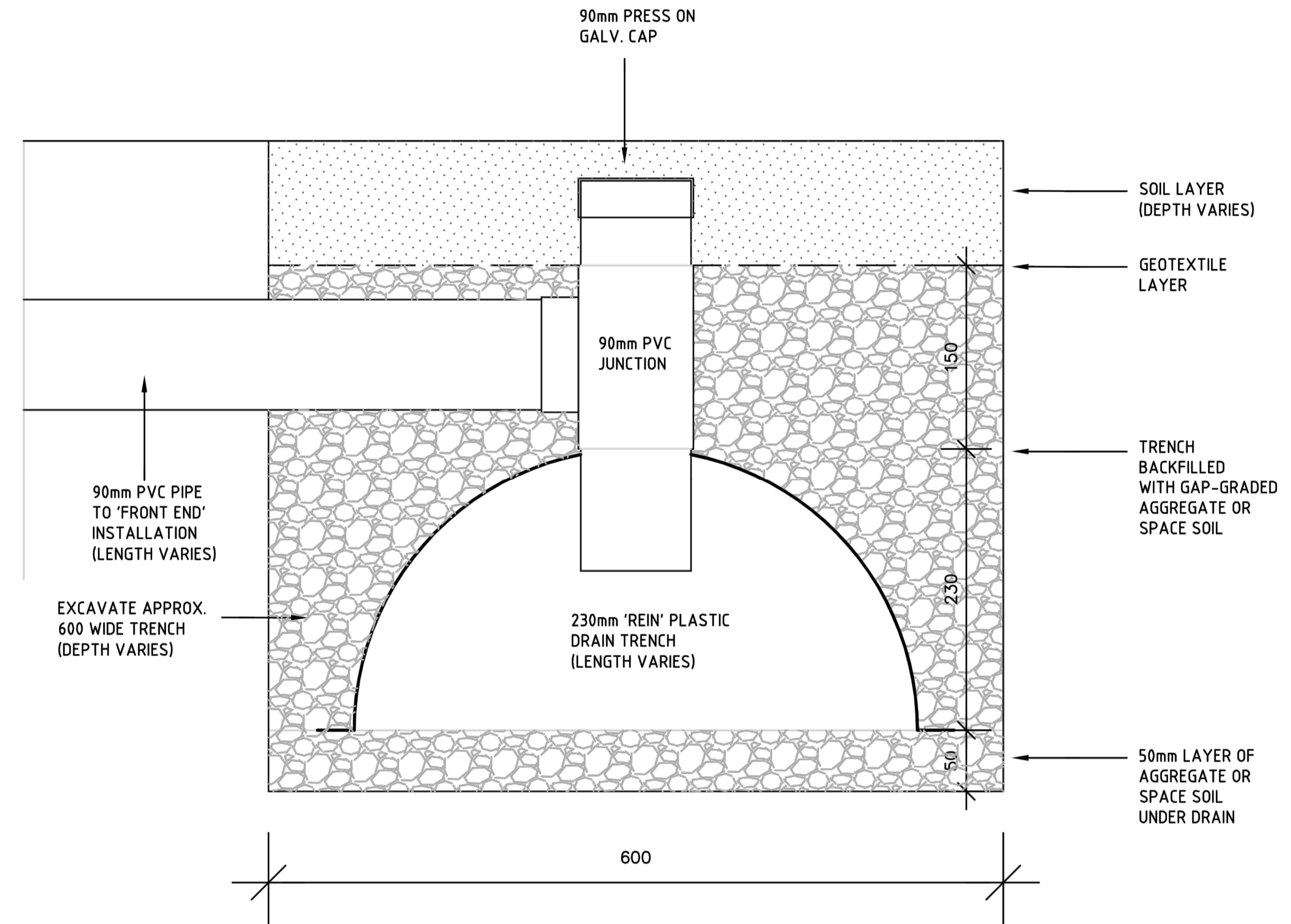
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**SEVENTH BEND**  
**STAGE 8**  
**ROAD AND DRAINAGE**  
**WSUD DETAILS - SHEET 3 OF 4**  
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'Front end' installation  
(Kerb inlet)



'Back end' installation (Infiltration trench or similar)  
230mm drain trench shown

Preliminary only

PROJECT	Treenet Inlet	DATE	01/04/2019	JOB NO		Martin Ely B.Arch. AILA Registered landscape architect E: martin-ely@hotmail.com M: 0407 809 984
DRAWING	Section details	SCALE	1:5@A3	DRAWING NO	SK00	

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**SEVENTH BEND**  
**STAGE 8**  
**ROAD AND DRAINAGE**  
**WSUD DETAILS - SHEET 4 OF 4**  
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**308894CR705**
  
Rev  
**A**

