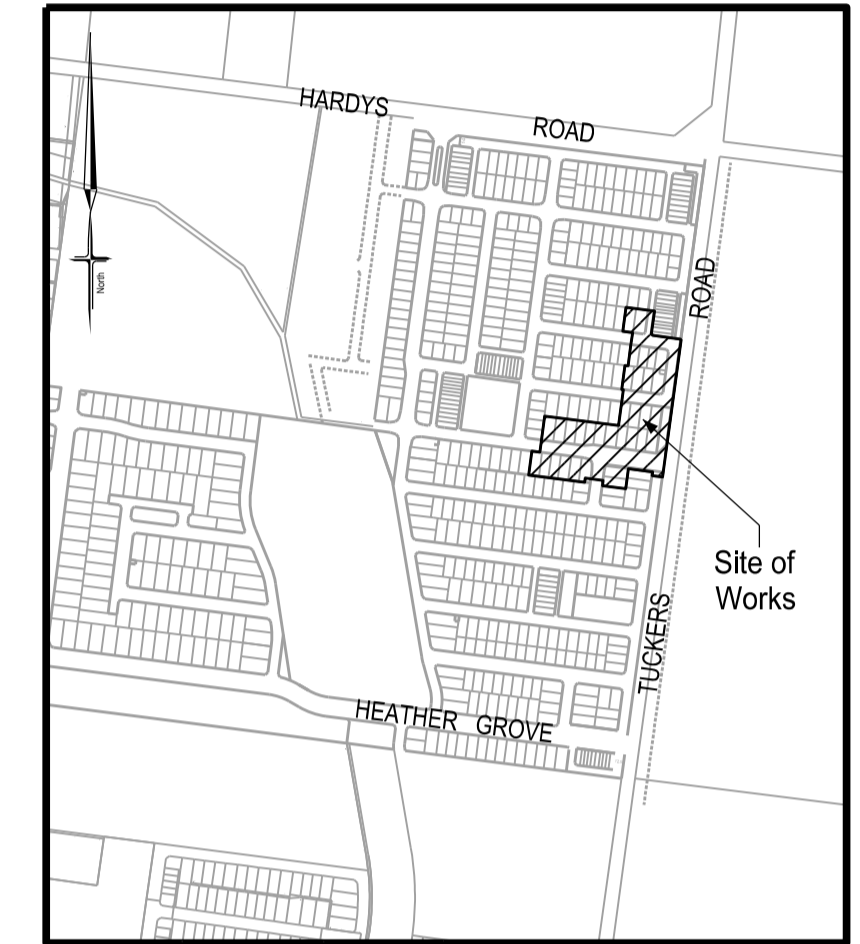


**SHEET INDEX**

SHT No.	VER	DESCRIPTION
1	P3	DETAIL PLAN, LOCALITY PLAN, SERVICES SCHEDULE & SHEET INDEX
2	P3	GENERAL NOTES & TYPICAL SECTIONS
3	P3	INTERSECTION DETAILS - Sheet 1
4	P3	INTERSECTION DETAILS - Sheet 2
5	P3	AZZAM STREET - LONGITUDINAL SECTION & CROSS SECTIONS
6	P3	AZZAM STREET - CROSS SECTIONS
7	P3	VIELO CIRCUIT - LONGITUDINAL SECTION & CROSS SECTIONS
8	P3	VIELO CIRCUIT - CROSS SECTIONS
9	P3	MAJORCA DRIVE - LONGITUDINAL SECTION & CROSS SECTIONS
10	P3	DRAINAGE LONGITUDINAL SECTIONS - Sheet 1
11	P3	DRAINAGE LONGITUDINAL SECTIONS - Sheet 2 & PIT SCHEDULE
12	P3	SIGNAGE & LINEMARKING PLAN



**LOCALITY PLAN**

SCALE: 1: 10,000  
MELWAYS: 135 C5

**SERVICES OFFSETS AND LOCATIONS**

Location	Gas	Water		Telecommunications		Electricity		BOK	Road Width	Joint Trenching	Street Classification
		NDW	DW	Cables	Pits	Cables	Poles				
VIELO CIRCUIT (Lots 1903-1906)	2.25 S	2.70 S	3.20 S	1.85 N	1.78 S	2.35 N	1.00 BOK	4.35 S 4.05 N	16.00	G&W, FTTH&E	STREET-LEVEL 1
VIELO CIRCUIT (Lots 1906-1908)	2.25 W	2.70 W	3.20 W	0.70 E	1.78 W	1.30 E	1.00 BOK	5.10 W 2.80 E	14.00	G&W, FTTH&E	STREET-LEVEL 1
VIELO CIRCUIT (Lots 1912-1915)	2.25 N	2.70 N	3.20 N	1.85 S	1.78 N	2.45 S	1.00 BOK	4.35 N 4.05 S	16.00	G&W, FTTH&E	STREET-LEVEL 1
AZZAM STREET (Lots 1927-1932)	1.80 S	2.20 S	2.70 S	1.85 N	1.20 S*	2.50 N	1.00 BOK	4.35 N 4.05 S	16.00	G&W, FTTH&E	STREET-LEVEL 1
AZZAM STREET (Lots 1916-1921)	1.80 N	2.20 N	2.70 N	0.30 S	1.20 N*	2.50 S	1.00 BOK	4.20 N 2.20 S	20.00	G&W, FTTH&E	STREET-LEVEL 1
MAJORCA DRIVE	2.25 E	2.70 E	3.20 E	1.85 W	1.78 E	2.55 W	1.00 BOK	4.35 E 4.05 W	16.00	G&W, FTTH&E	STREET-LEVEL 1

NOTE: a) At the curb level where water and gas mains pass, the watermain offset is to be increased by 0.5 metres.  
b) \* Indicates offsets from back of kerb where services do not run parallel to title boundary.  
c) \* Indicates Telecommunication pits placed within concrete footpath.

**SYMBOL LEGEND**

Drains	Prop	Prev Stage	Ex/Natural/FS Level	-28.57	-NS28.57	-FS28.57
Sewer < 3000	S		FS @ Building Line	-BL28.57		
Sewer ≥ 3000	S		Top/Toe of Batter	-TOP28.57	-TOE28.57	
Water (DW)	W		Top Ret. Wall Level	-TW28.57		
Water (NDW)	W		100yr Flood Level	-FL28.57		
House Drain	H		Fill Proposed (<0.3m/≥0.3m)			
Property Inlet	I		Cut Proposed			
Street Sign			Asphalt Surface Prop			
PSM			Concrete Surface Prop			
Rock Ret Wall			Concrete Surface Prop (Paths/Driveways/Slabs)			
Sleeper Ret Wall			Tree To Be Removed			
Conduits 50mm	GW	DW	Tree To Be Retained with Tree Protection Zone (TPZ)			
Conduits 100mm	GW	DW				
Street Tree without/with Passive Irrigation (Refer Detail)	GW	DW				
Ex Drains	Ex W	Ex G				
Ex Water DW/NDW	Ex S	Ex E				
Ex Sewer/Gas	Ex T	Ex I				
Ex Elect/Comm						

**WARNING**  
BEWARE OF UNDERGROUND SERVICES  
THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

- ATTENTION TO CONTRACTOR**
- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM COORDINATES SHOWN.
  - Contractor to ensure that the site is pegged and or set out checked by the licenced surveyor responsible for certifying the Plan of Subdivision prior to underground infrastructure being installed.
  - Where concrete works about a sewer access chamber surround or similar structure, an expansion joint of approved material shall be provided between the two faces.

**PLAN**

SCALE 1:500

SCALE 1:500 @ A1

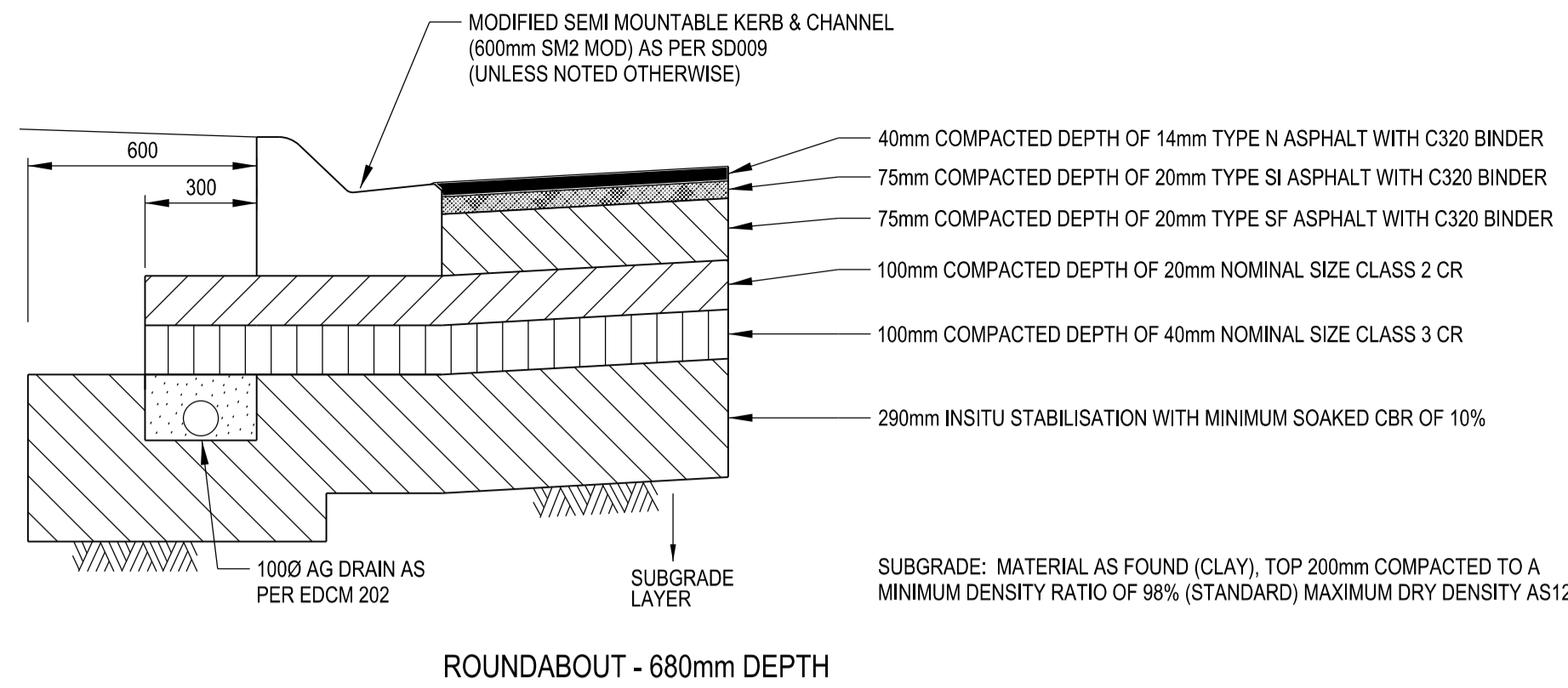


		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310
MELWAY REF.	135-B-5	<b>DELARAY ESTATE</b> <b>STAGE 19</b>
SURVEY	BPD	
DESIGN	GL	MUNICIPALITY CASEY
DRAWN	PG	REFERENCE 8974 <sup>E</sup> /19
VER	DATE	CHECKED
SCALE AS SHOWN		DATUM AHD
DATE AUG '20		SHEET 1 OF 12 P3

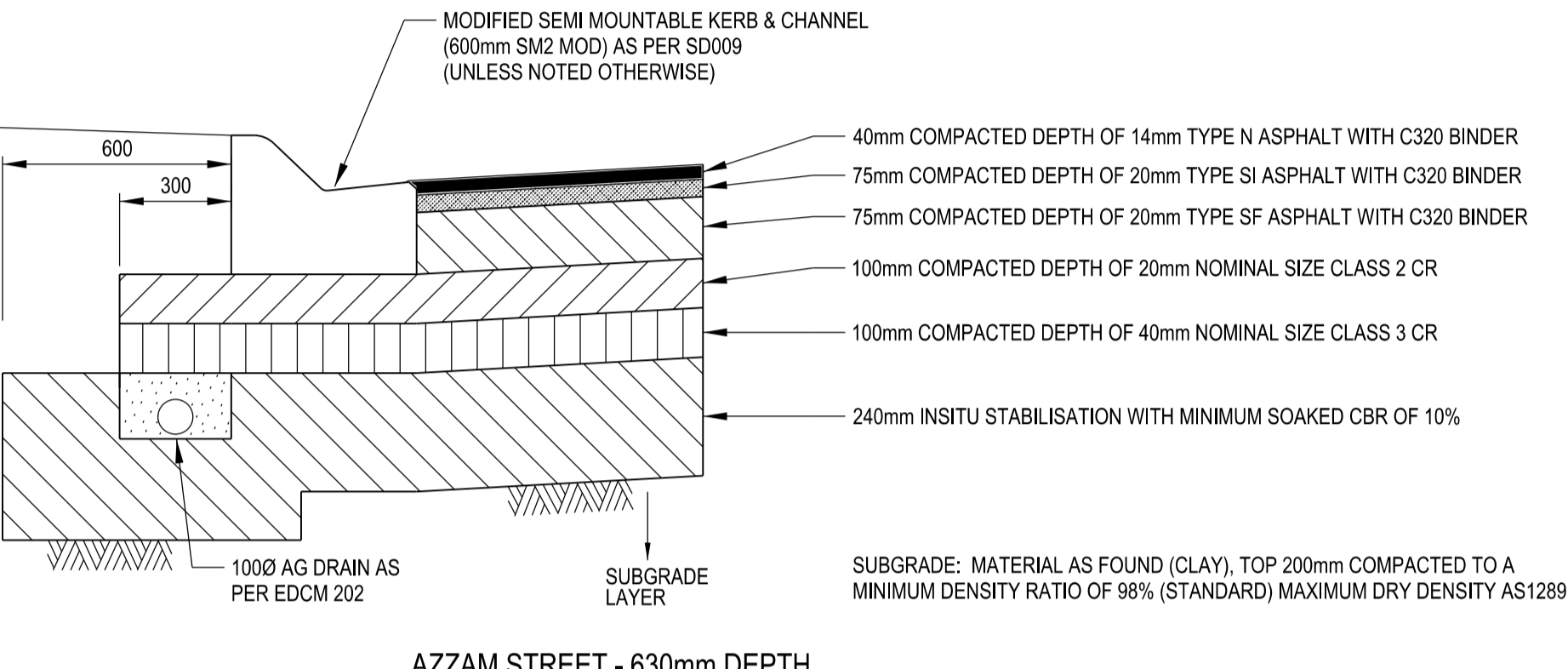
**NOTES**

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT AND THE CITY OF CASEY CURRENT SPECIFICATION AND STANDARD DRAWINGS AND TO THE SATISFACTION OF THE CITY OF CASEY WORKS SUPERVISOR.
- COUNCIL TO BE NOTIFIED TWO (2) CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
- DRAINAGE AND PITS TO BE SET OUT FROM OFFSETS SHOWN RATHER THAN FROM CENTRELINE PIPE CHAINAGES. CENTRELINE OF PITS AT TP's TO BE OFFSET 1.00 METRE.
- ALL 150mm DIA. PIPES TO BE P.V.C., 225mm DIA. TO BE P.V.C. OR R.C.(RRJ), 300mm TO 750mm DIA. TO BE R.C.(RRJ) AND 825mm DIA. AND GREATER TO BE R.C.(U). PIPES LAYED ON A CURVE TO BE RRJ.
- R.C. PIPES TO BE CLASS 2 & P.V.C PIPES TO BE CLASS SH UNLESS OTHERWISE SPECIFIED.
- WHERE DRAINAGE PIPES ARE LOCATED WITHIN NATURE STRIPS, THE TRENCH SHALL BE BACKFILLED WITH COMPACTED CLASS 3 F.C.R. UP TO A LEVEL WHERE THE 450mm INFLUENCE LINE FROM THE B.O.K. INTERSECTS WITH THE NEAREST TRENCH SIDE. PROVIDE CRUSHED ROCK BACKFILL WHERE DRAINAGE CROSSES BELOW FOOTPATHS.
- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO A RELATIVE COMPACTION OF 97% OF THE MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
  - BENEATH THE ROAD OR DRIVEWAY PAVEMENT TO THE UNDERSIDE OF THE PAVEMENT.
  - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM THE NEAR LOWER EDGE.
  - TRENCHES TO BE BACKFILLED IN LAYERS NOT EXCEEDING 200mm LOOSE.
- PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004, INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED. IN PARTICULAR, THE REQUIRED NOTIFICATIONS MUST BE CONVEYED TO THE VICTORIAN WORKCOVER AUTHORITY - HEALTH & SAFETY DIVISION WITH RESPECT TO TRENCHING OPERATIONS. DETAILS OF THE CONTRACTORS OCCUPATIONAL HEALTH & SAFETY PROCEDURES MUST BE LOGGED WITH THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.
- PROPERTY INLETS ARE TO BE PLACED 1.0m FROM THE LOW CORNER OF LOT UNLESS OTHERWISE SHOWN. MINIMUM COVER TO BE 500mm. REFER VPA STD DWGS EDMC703, EDMC702, EDMC703 & EDMC704.
- LOTS DENOTED THUS 25H ARE TO BE PROVIDED WITH A 100mm DIA. HOUSE DRAIN PLACED 5.0m FROM LOW CORNER OF LOT UNLESS OTHERWISE SHOWN. REFER VPA STD DWGS EDMC701 & EDMC703.
- AGRICULTURAL PIPE DRAINS, AS PER VPA STD DWG EDMC202, TO BE PLACED BEHIND ALL KERB AND CHANNEL AND BUFFER PITCHERS AND WHERE DIRECTED BY THE ENGINEER.
- ALL PROPOSED DRAINAGE STUBS TO BE BLANKED OFF AT END OF PIPE WITH TIMBER PLANKS TO THE SATISFACTION OF THE SUPERVISING ENGINEER.
- LOTS TO BE GRADED (1 IN 150 MIN SLOPE) & LEFT CLEAN TO THE SATISFACTION OF THE ENGINEER. FINISHED LEVELS TO BE COMPATIBLE WITH LOTS ADJOINING THIS STATE.
- ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL RUBBISH AND SPOIL FROM SITE. NO SURPLUS TREES, VEGETATION OR OTHER MATERIAL IS TO BE BURNT ON SITE.
- RESERVES TO BE FREE DRAINING AND TO BE LEFT IN A CONDITION SATISFACTORY TO THE CITY ENGINEER.
- FILL AREAS IN ALL PROPERTIES AND ROAD RESERVES TO BE STRIPPED OF TOPSOIL & VEGETABLE MATTER, FILLED USING APPROVED CLAY FILL, AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLANS. ALL FILLING TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS3798-2007, SECTION 8.2, LEVEL 1 ("GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS"), ON COMPLETION THE CONTRACTOR SHALL PRESENT A "LEVEL 1" TYPED REPORT, FROM A NATA REGISTERED SOIL TESTING LABORATORY, NOMINATING THE EXTENT OF FILL PLACED, ITS CONFORMANCE WITH THE SPECIFICATION AND ITS CLASSIFICATION AS "CONTROLLED FILL". IF ANY SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL PROPERLY COMPACTED TO COUNCIL REQUIREMENTS. A GEO-TECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
- 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 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERVISING ENGINEER.
- BATTERS TO BE 1 IN 6 FOR FILL AND 1 IN 4 FOR CUT UNLESS NOTED OTHERWISE.
- CUT BATTERS ARE TO BE GRASSED AND MULCHED WITH A MIXTURE OF CHOPPED GRASS, STRAW AND BITUMEN EMULSION.
- WHERE CUT BATTERS EXCEED 700mm AN ADDITIONAL 300mm BERM SHALL BE FORMED BEHIND FOOTPATH.
- ACCESS RAMPS ARE TO BE CONSTRUCTED WHERE CUT BATTERS EXCEED 1.0m. THEY ARE TO BE GRADED 1 IN 10 FOR THE FIRST 2.5m FROM THE BACK OF PATH AND THEN AT A MAXIMUM OF 1 IN 4 TO NATURAL SURFACE.
- ALL RESIDENTIAL FOOTPATHS SHALL BE 1.5m WIDE (MIN.) AND SHARED PEDESTRIAN/CYCLE PATHS SHALL BE 2.5m (MIN.). CONCRETE PATHS ARE TO BE 125mm THICK REINFORCED WITH SL72 PLACED CENTRALLY AND UNDERLAIN BY 50mm OF CLASS 3 CR. REFER VPA STD DWG EDMC401.
- PRAM CROSSINGS ARE TO BE CONSTRUCTED WHERE FOOTPATHS CONNECT TO THE BACK OF KERB & CHANNEL. REFER VPA STD DWG EDMC403.
- ALL NATIVE TREES AND SHRUBS TO BE RETAINED UNLESS ROAD CONSTRUCTION NECESSITATES THEIR REMOVAL OR REMOVAL IS DIRECTED BY THE ENGINEER. A TOWN PLANNING PERMIT IS REQUIRED FOR THE REMOVAL OF NATIVE TREES AND OR VEGETATION. THE REMOVAL OR RETENTION OF ANY EXISTING TREES MUST BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN, OR ELSE APPROVAL WILL BE REQUIRED FROM THE CASEY LANDSCAPE APPROVALS OFFICER.
- WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES THESE SERVICES ARE TO BE LOCATED AND THE VARIOUS AUTHORITIES NOTIFIED PRIOR TO THE COMMENCEMENT OF WORKS.
- THE WATER CONDUIT OFFSET FROM THE LOT BOUNDARY IS GIVEN ON THE WATER RETICULATION PLAN. THE CONTRACTOR MUST CONSTRUCT CONDUITS TO ACCORD WITH THE GIVEN OFFSET AND ENSURE THAT THE CONCRETE MARKS THE KERB AND FOOTPATH EXACTLY ABOVE THE CONDUIT.
- TELSTRANBN Co TO BE NOTIFIED SEVEN (7) DAYS PRIOR TO CONCRETE WORKS BEING PLACED.
- ELECTRICAL DISTRIBUTION PITS WITHIN FOOTPATHS ARE TO BE A MINIMUM OF 300mm WITHIN THE EDGE OF THE PATH. CONCRETE IS TO BE PLACED AROUND DISTRIBUTION PITS TO A MINIMUM DEPTH OF 200mm.
- ALL STREET SIGNS TO BE CONSTRUCTED AND ERECTED TO CURRENT CITY OF CASEY STANDARDS INCLUDING LOGO. COURT STREET NAMES ARE TO SHOW COURT NAME ONLY.
- TRAFFIC CONTROL SIGNS, MARKINGS & DELINEATORS TO BE INSTALLED IN ACCORDANCE WITH AS1742.2. ALL LINE MARKING IS TO BE LONG LIFE ROAD MARKING, WITH LONGITUDINAL LINES IN THERMOPLASTIC & TRANSVERSE MARKINGS IN COLD APPLIED.

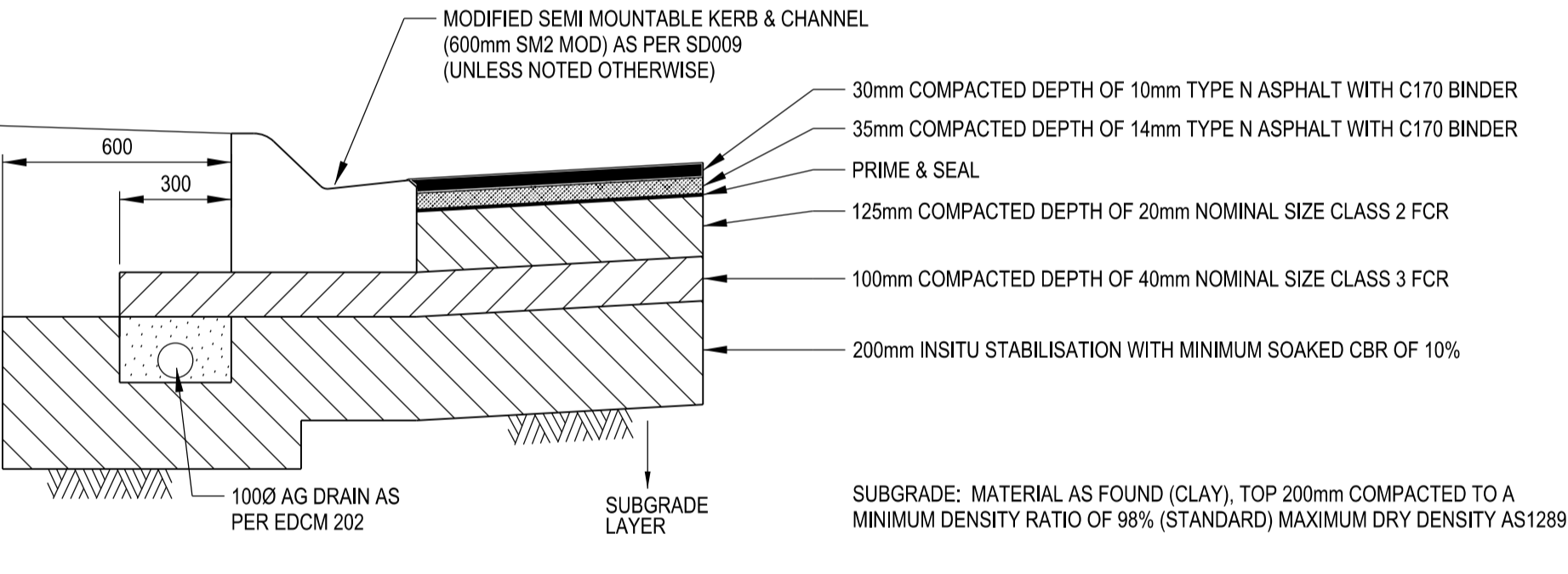
- ALL DRIVEWAYS ARE TO BE OFFSET 0.75m FROM SIDE BOUNDARIES AND EASEMENTS UNLESS OTHERWISE SHOWN, AND CONSTRUCTED AS PER VPA STD DWGS EDMC501 & EDMC502.
- ALL ROADS TO BE CONSTRUCTED WITH ??? KERB & CHANNEL. REFER VPA STD DWGS EDMC301 & EDMC302.
- KERB TRANSITION TO TAKE PLACE IN THE MINOR STREET OVER A 2.0m LENGTH FROM EITHER THE TANGENT POINT OR TP PIT.
- EXISTING ROAD WORKS TO BE RECONSTRUCTED AS REQUIRED TO PROVIDE, WITHOUT DISCONTINUITY, A CONNECTION IN ACCORDANCE WITH DESIGN LEVELS AND GRADES.
- PAVEMENT TO CONSIST OF:  
REFER TO PAVEMENT COMPOSITION DETAILS.  
ALL PAVEMENTS SHOULD EXTEND 150mm BEHIND KERB AND CHANNEL.
- IF POOR SUBGRADE IS NOT ENCOUNTERED AND STABILIZATION NOT REQUIRED, THE SUBBASE CRUSHED ROCK LAYER MAY BE INCREASED SUBJECT TO INSTRUCTION FROM THE SUPERVISING ENGINEER.
- MODIFICATION OF THE PAVEMENT REQUIRES APPROVAL BY THE CITY OF CASEY WORKS SUPERVISOR.
- TRAFFIC ISLAND & ROUNDABOUT INFILLS SHOWN THUS [Symbol] TO CONSIST OF:  
a) 200mm THICK 32MPa CHARCOAL COLOURED CONCRETE IN GREY CEMENT WITH 6% BLACK OXIDE COLOUR TO BE ADDED TO AGGREGATE PRIOR TO POURING CONCRETE SL72 MESH PLACED CENTRALLY.  
b) 100mm THICK COMPACTED FCR BEDDING OR TO ROAD BASE COURSE
- EXISTING DAM OR WATERCOURSES TO BE EXCAVATED TO A FIRM BASE AND BACKFILLED AS SPECIFIED. DEVELOPER'S CONSULTANT TO BE NOTIFIED WHEN THE DAM OR WATERCOURSES ARE EXCAVATED TO A FIRM BASE. NO FILLING IS TO BE PLACED PRIOR TO DAMS BEING INSPECTED AND LEVELS TAKEN. BACKFILLING IS TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL SUPERVISING ENGINEER.
- THE CONTRACTOR MUST COMPLETE A LEVEL CHECK BETWEEN ALL TBM'S TO VERIFY LEVEL VALUES BEFORE COMMENCEMENT OF WORKS. ALL TBM'S AND CONTROL POINTS ARE TO BE MAINTAINED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION. SHOULD ANY MARKS BE DISTURBED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE DEVELOPER'S CONSULTANT TO ARRANGE RE-INSTALLMENT AT THE CONTRACTORS EXPENSE.
- PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR MUST SUBMIT A SMP TO THE DEVELOPER'S CONSULTANT FOR APPROVAL. THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION No.275 "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" AND MW SITE ENVIRONMENTAL MANAGEMENT POLICY 3.8.2. APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.
- PROVIDE PAINTED PALING FENCE ALONG ANY BOUNDARY COMMON TO LOTS & MUNICIPAL RESERVES AS PER COUNCIL STD. DWG. S-706. PALINGS TO BE ON THE RESERVE SIDE.
- PROVIDE TEMPORARY SAFETY BARRIER FENCE (FARM FENCE AS PER MW STD DWG 725/14/203) ALONG EXTENT OF OUTFALL DRAIN WHERE THE DRAIN IS GREATER THAN 1.5m IN DEPTH AND SIDE SLOPES ARE STEEPER THAN 1 IN 3. SAFETY FENCE TO REMAIN UNTIL PERMANENT UNDERGROUND DRAINAGE IS INSTALLED.
- A TEMPORARY FENCE SHALL BE ERECTED AND MAINTAINED AROUND EXISTING TREES, NOMINATED TO BE RETAINED, AT ALL TIMES DURING CONSTRUCTION. FOR FENCING DETAILS AND CONSTRUCTION WORKS WITHIN THE "TREE PROTECTION ZONE" REFER TO THE ARBORICULTURAL INSPECTION REPORT BY A & R TREE SURGEONS (18th MARCH 2003).
- CONTRACTOR TO REMOVE EXISTING IRRIGATION AND DRAINAGE PIPES AND PITS ENCOUNTERED ON SITE. TRENCHES TO BE BACKFILLED IN ACCORDANCE WITH NOTES 16 & 17.
- TACTILE GROUND SURFACE INDICATORS (TGS) ARE TO BE INSTALLED AT ALL PRAM CROSSINGS AND PEDESTRIAN CROSS POINTS. REFER VPA STD DWG EDMC403.



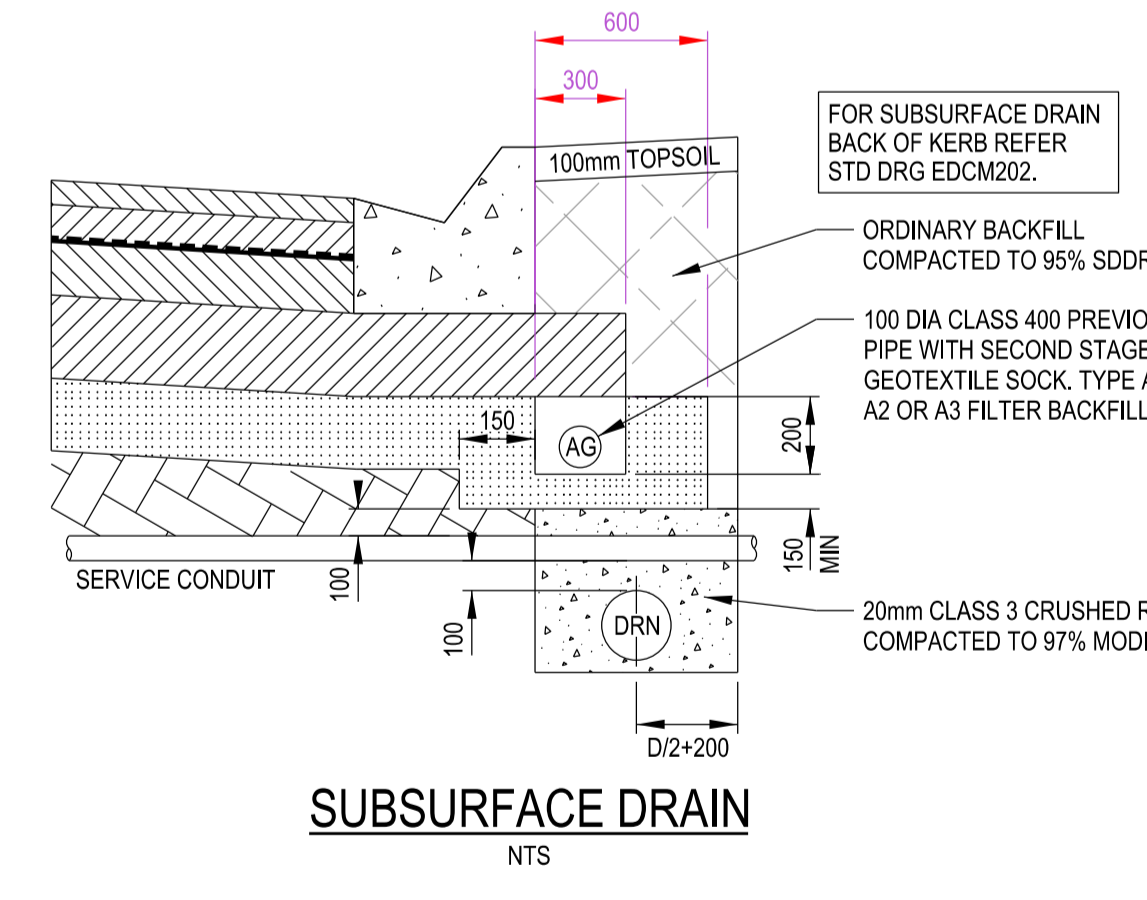
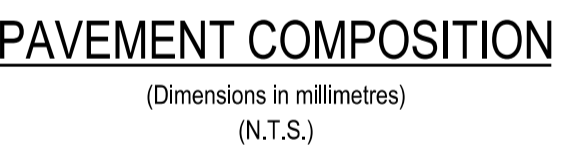
ROUNDABOUT - 680mm DEPTH



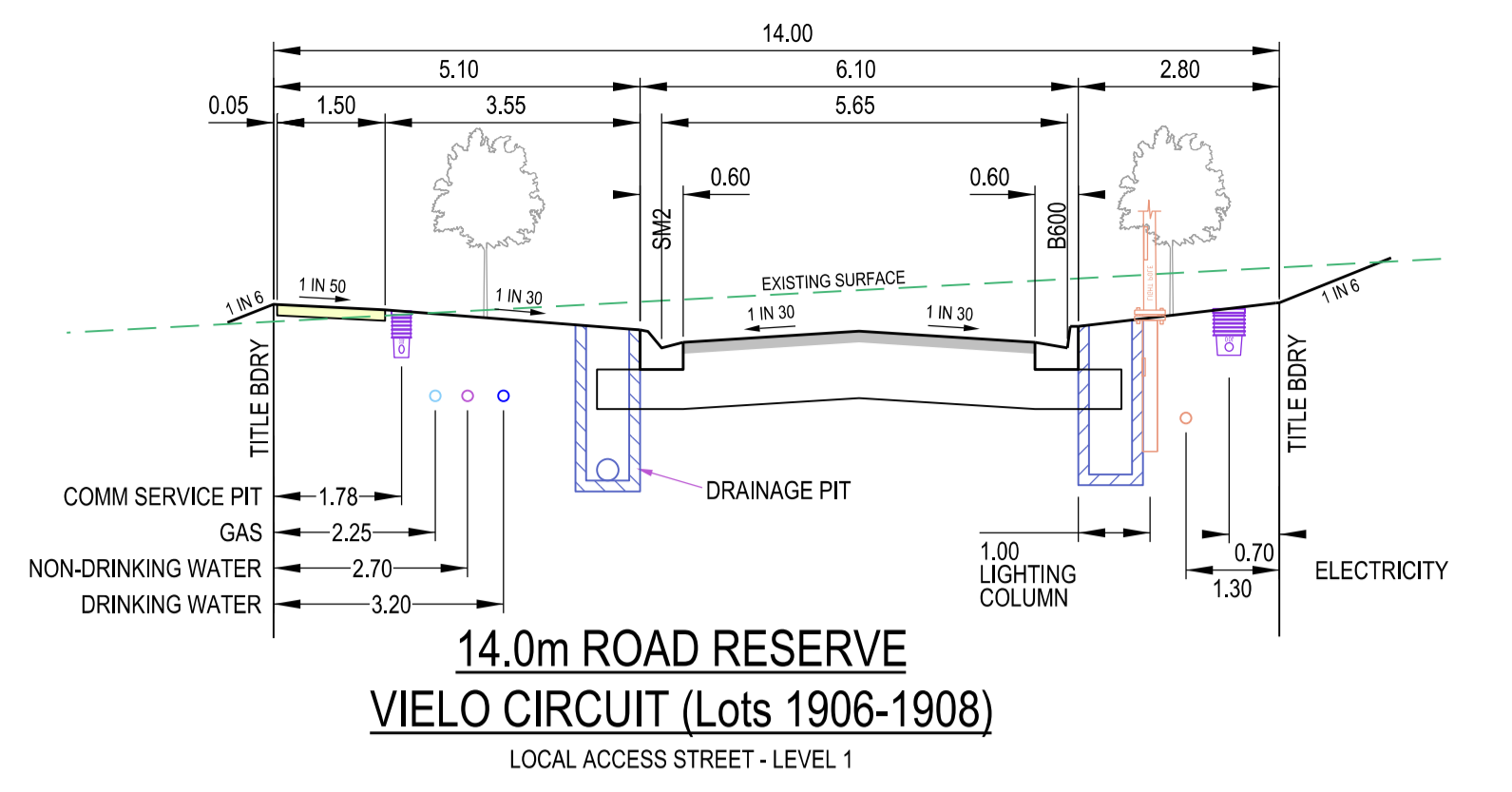
AZZAM STREET - 630mm DEPTH



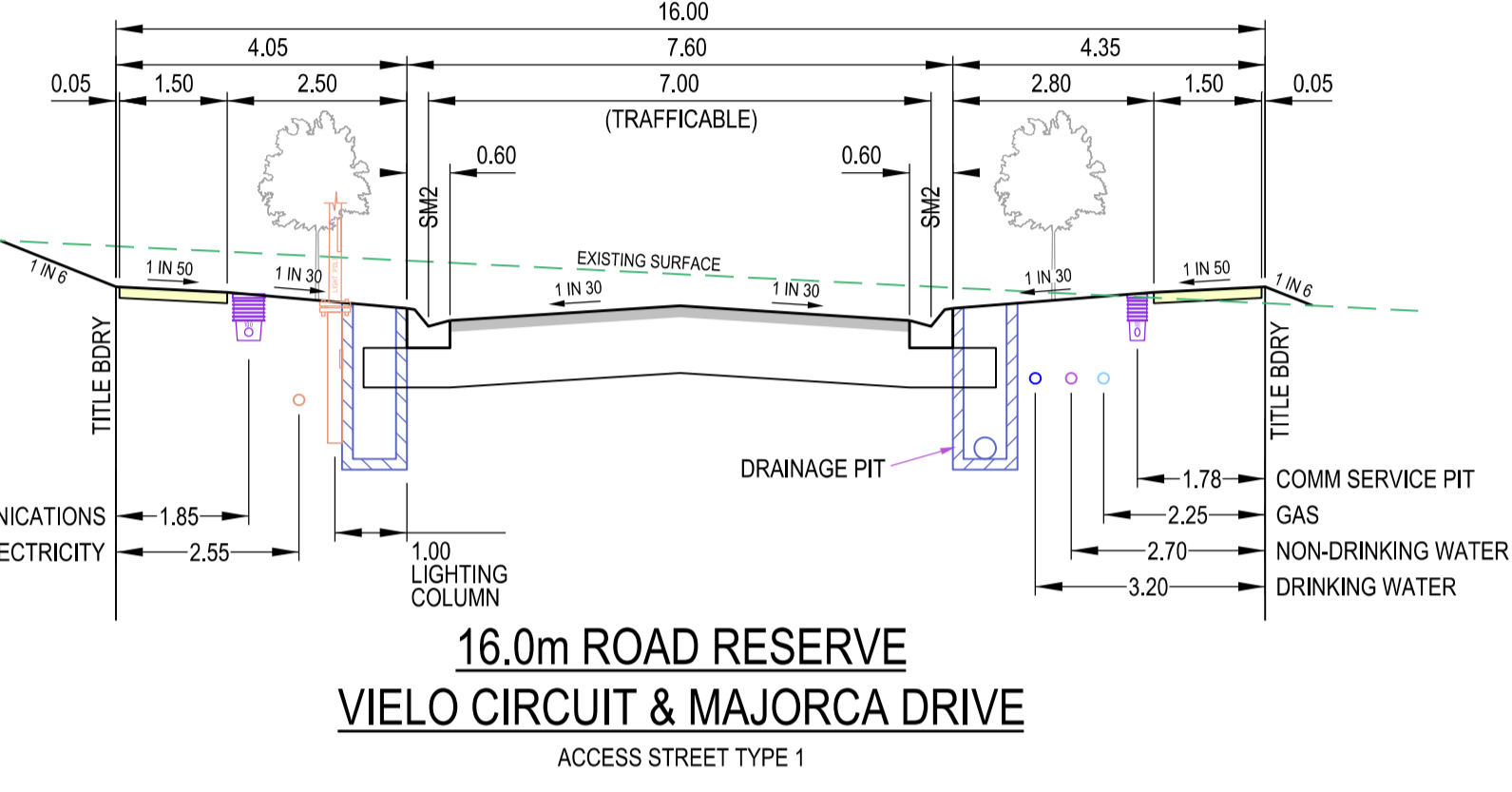
VIELO CIRCUIT & MAJORCA DRIVE - 490mm DEPTH



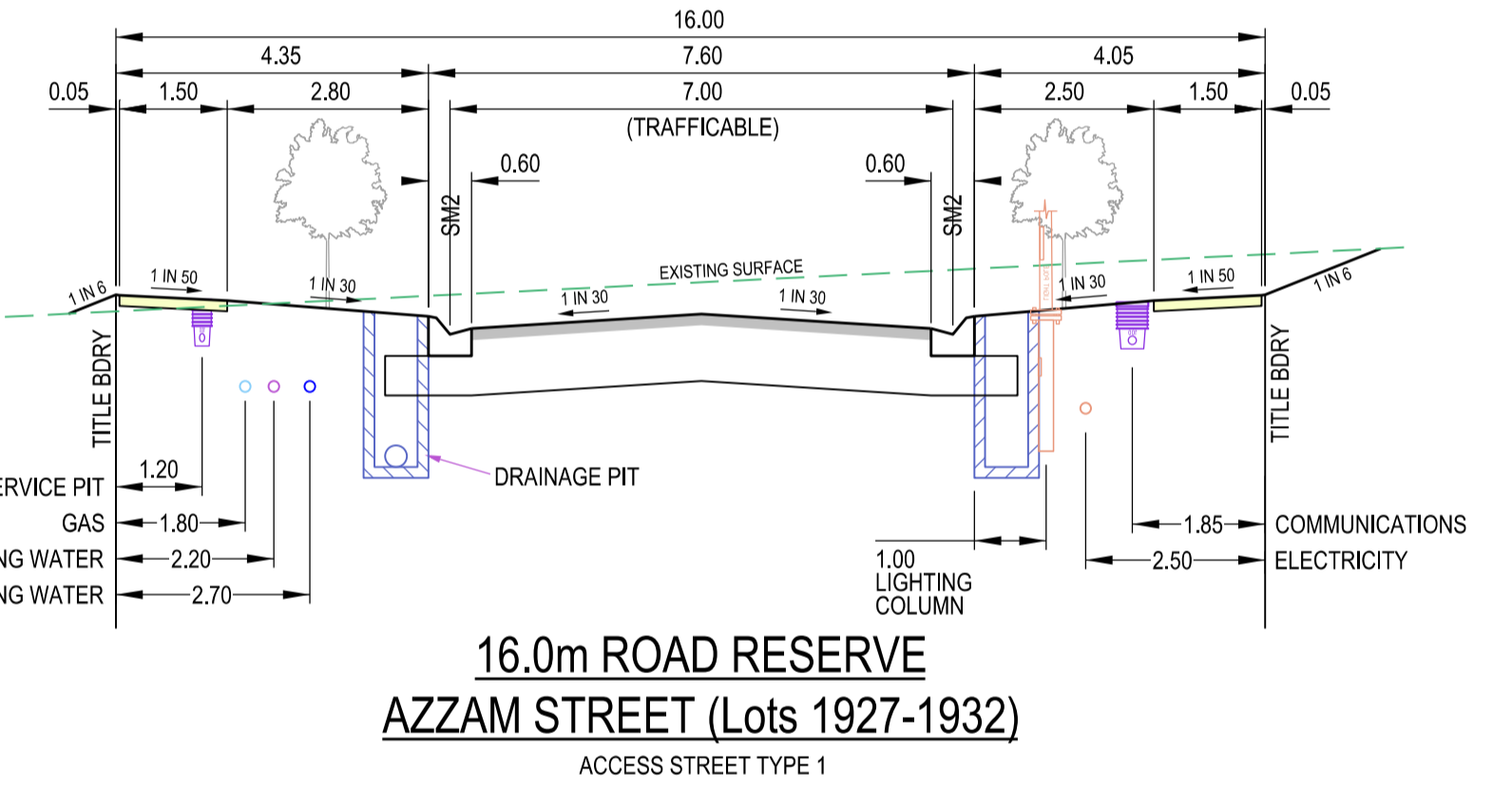
SUBSURFACE DRAIN NTS



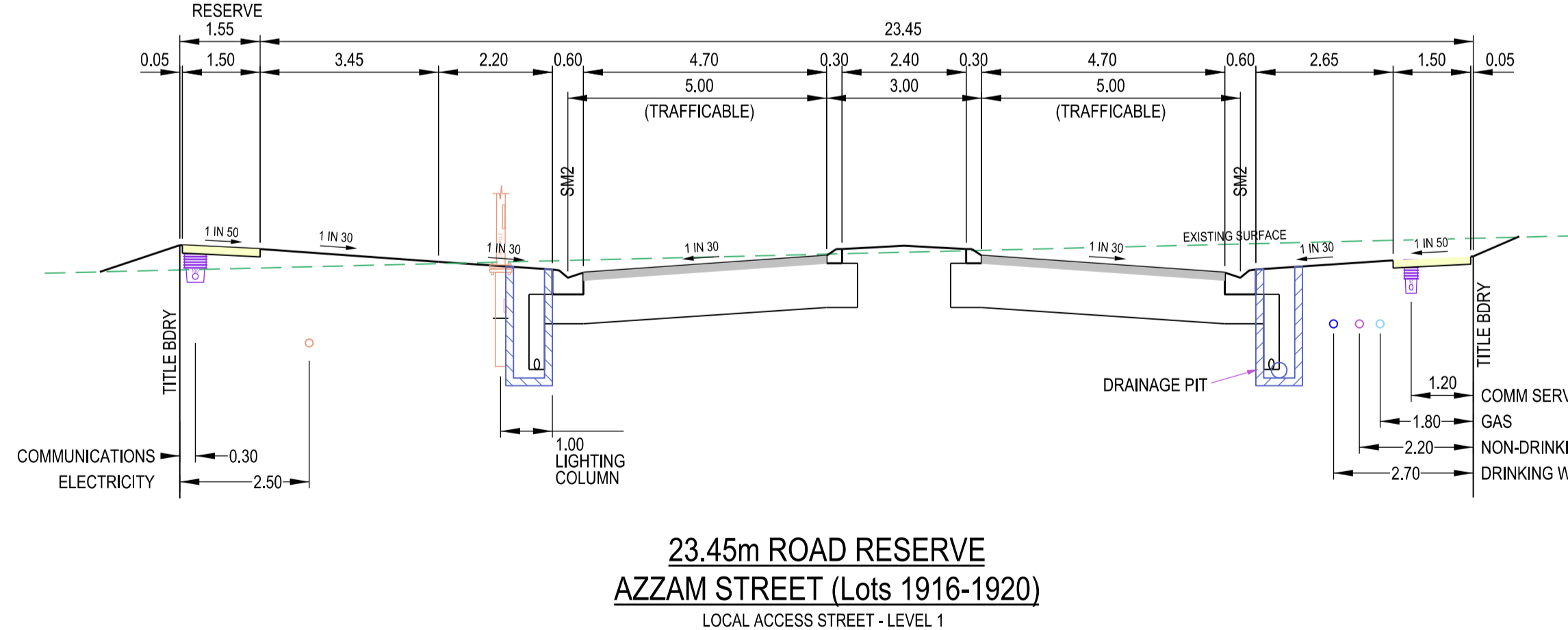
14.0m ROAD RESERVE VIELO CIRCUIT (Lots 1906-1908) LOCAL ACCESS STREET - LEVEL 1



16.0m ROAD RESERVE VIELO CIRCUIT & MAJORCA DRIVE ACCESS STREET TYPE 1



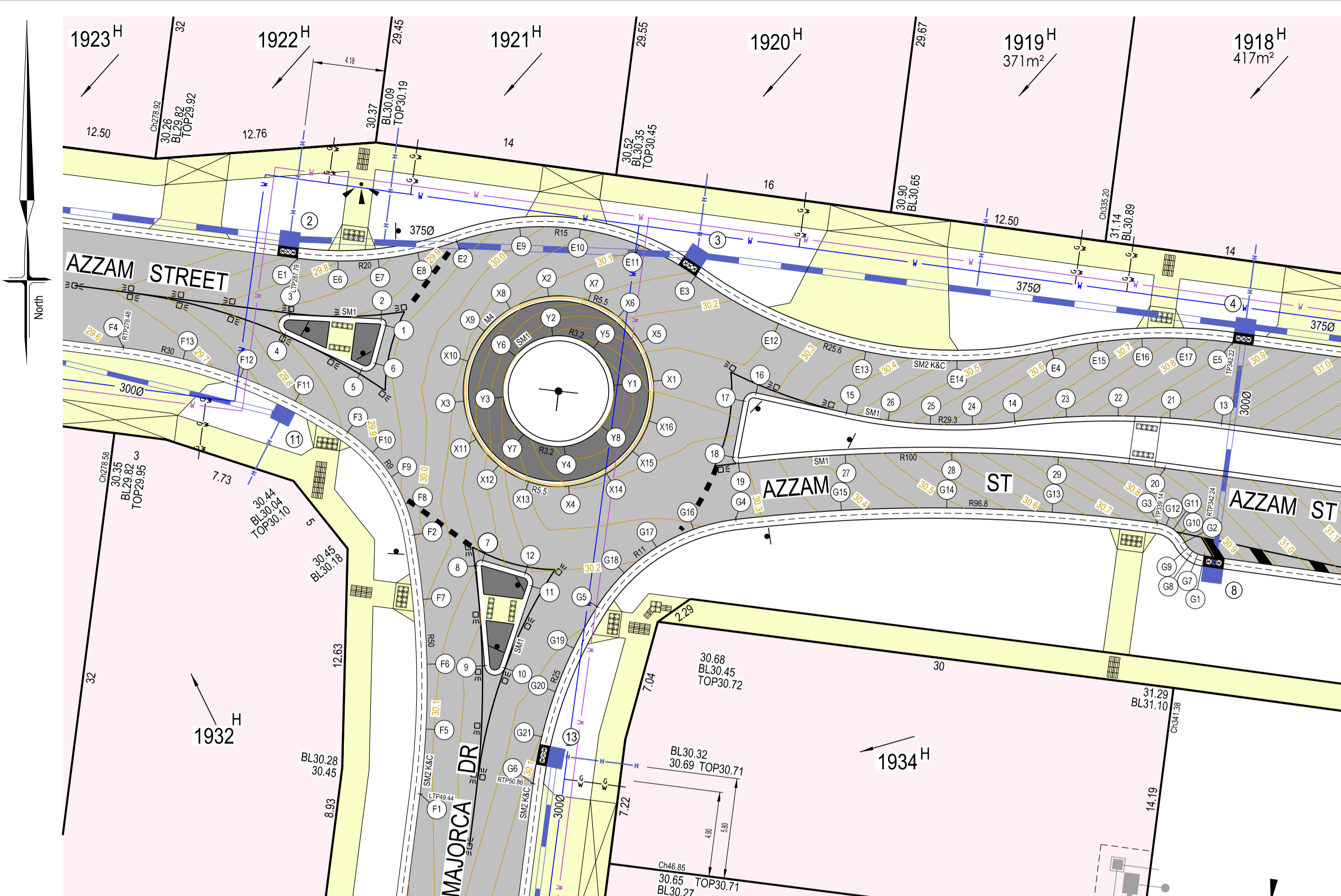
16.0m ROAD RESERVE AZZAM STREET (Lots 1927-1932) ACCESS STREET TYPE 1



23.45m ROAD RESERVE AZZAM STREET (Lots 1916-1920) LOCAL ACCESS STREET - LEVEL 1

TYPICAL ROAD CROSS SECTIONS SCALE HORIZONTAL 1:100 VERTICAL 1:50

		 land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
				MELWAY REF. 135-B-5 SURVEY BPD DESIGN GL DRAWN PG	
AMENDMENTS					
VER	DATE	REMARKS		CHECKED	SCALE AS SHOWN DATUM AHD DATE AUG '20 SHEET 2 OF 12 P3



**INTERSECTION DETAIL**

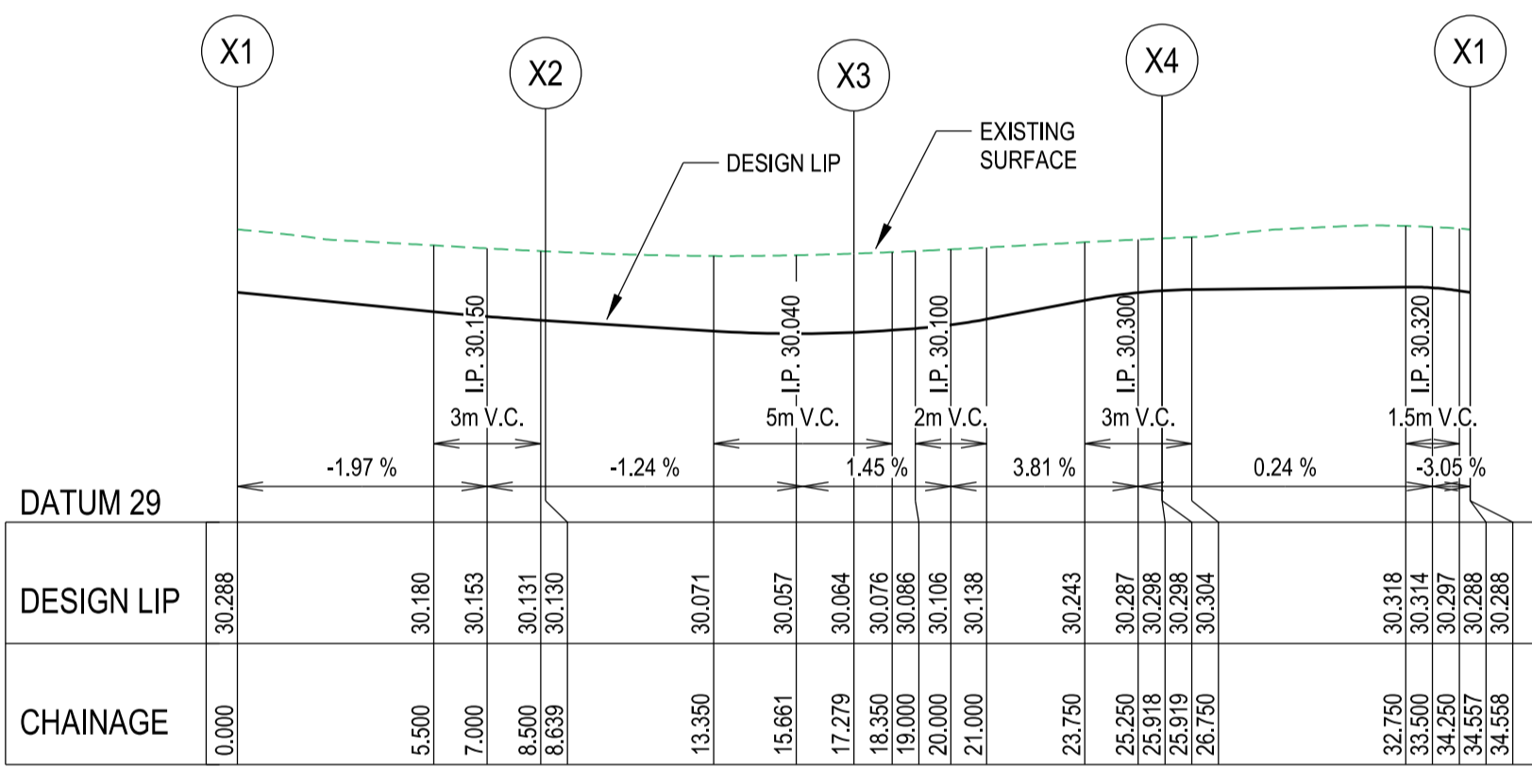
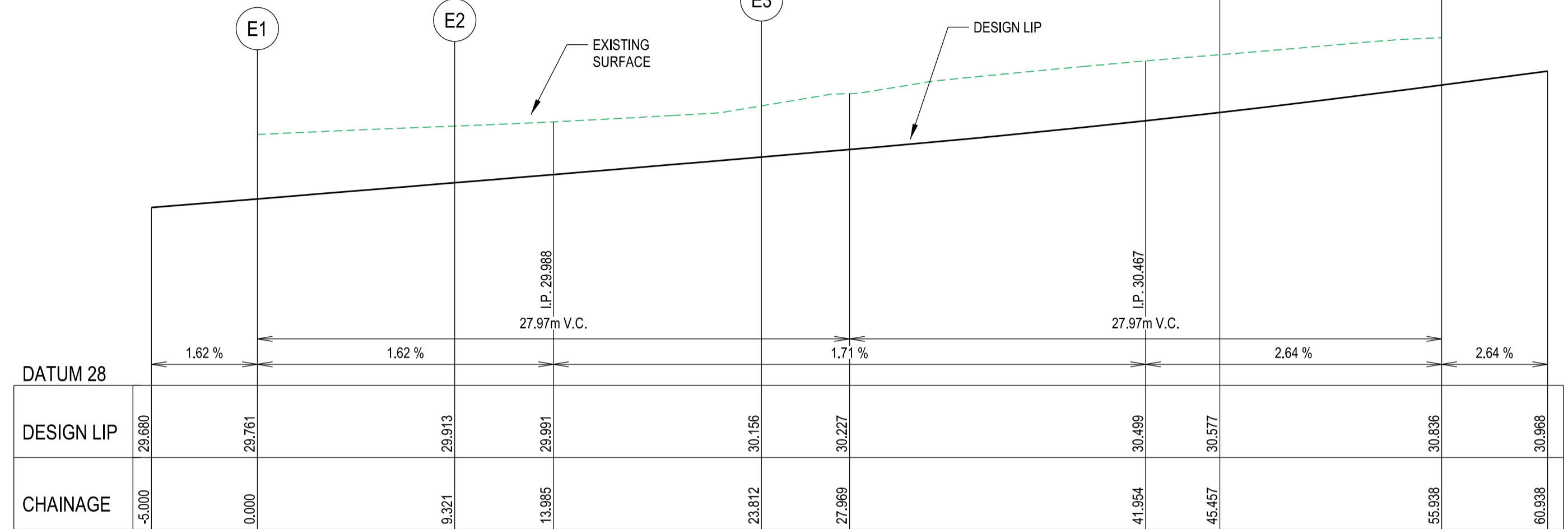
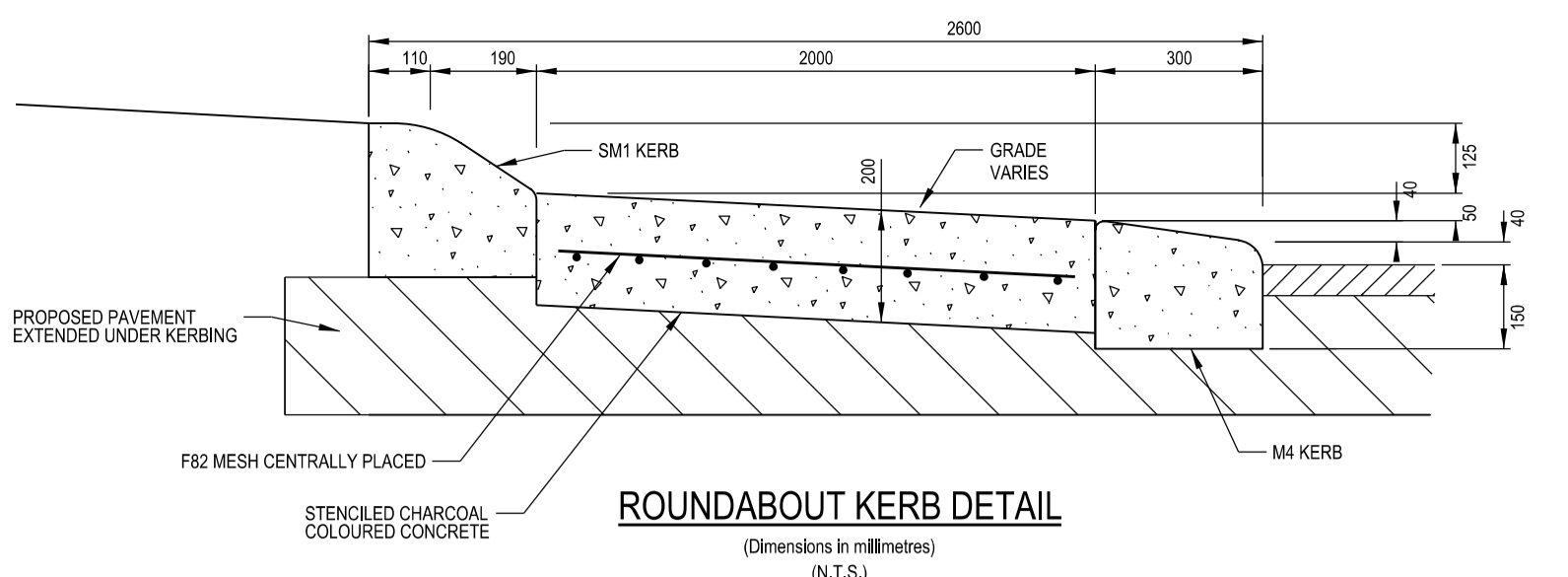
SCALE 1:200

SCALE 1:200 @ A1

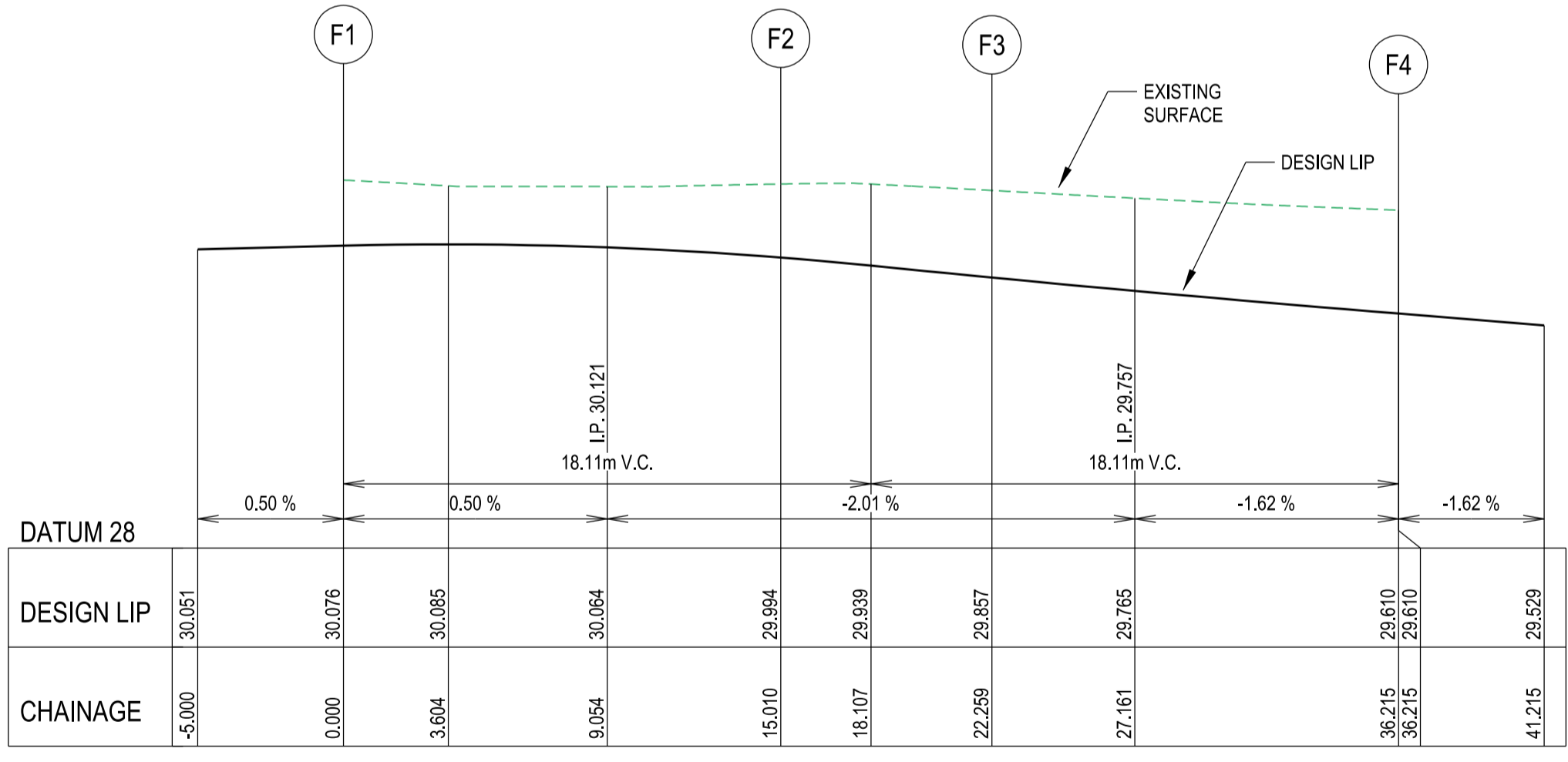


FOR ROUNDABOUT APRON  
DETAIL REFER TO SHEET 4

ALL SETOUT DETAILS  
ARE PROVIDED  
AT LIP OF KERB

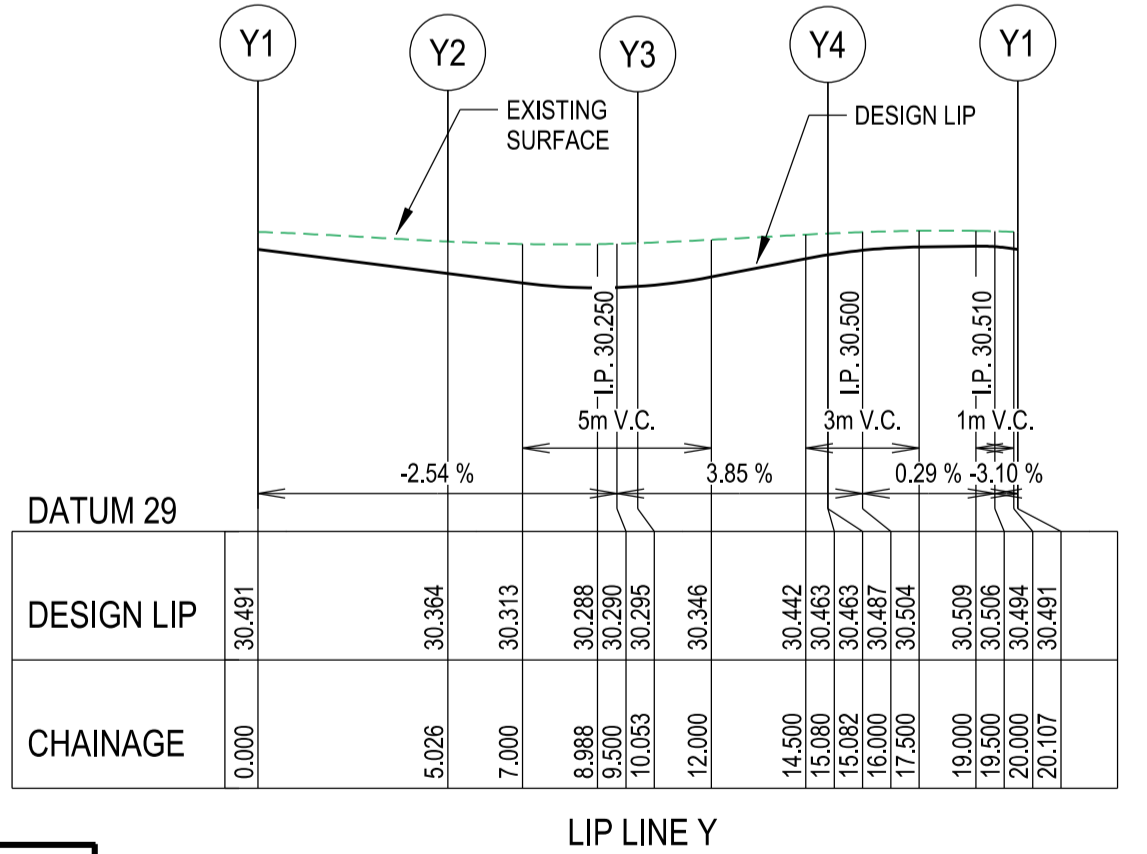


Lip Line X				Lip Line E			
Point no	Eastings	Northing	RL	Point no	Eastings	Northing	RL
X 1	1831.024	1140.240	30.288	E 1	1810.497	1147.332	29.761
X 2	1824.978	1145.134	30.130	E 2	1818.683	1148.304	29.913
X 3	1820.084	1139.088	30.064	E 3	1833.471	1146.298	30.156
X 4	1826.130	1134.194	30.298	E 4	1854.039	1142.027	30.577
X 5				E 5	1864.457	1142.460	30.836
X 6	1830.302	1142.439	30.242	E 6	1812.836	1147.170	29.799
X 7	1823.014	1143.939	30.203	E 7	1815.147	1147.280	29.837
X 8	1817.429	1147.657	29.875	E 8	1817.429	1147.657	29.875
X 9	1823.318	1149.095	29.975	E 9	1823.318	1149.095	29.975
X 10	1822.778	1144.412	30.101	E 10	1826.824	1148.999	30.034
X 11	1820.331	1141.389	30.058	E 11	1830.212	1148.952	30.063
X 12	1820.805	1136.888	30.097	E 12	1838.286	1143.556	30.251
X 13	1822.093	1135.389	30.161	E 13	1843.297	1141.956	30.349
X 14	1823.528	1134.441	30.237	E 14	1848.349	1141.421	30.456
X 15	1828.330	1134.915	30.307	E 15	1856.629	1142.481	30.639
X 16	1829.829	1136.203	30.312	E 16	1859.229	1142.704	30.702
X 17	1830.776	1137.938	30.317	E 17	1861.838	1142.698	30.767



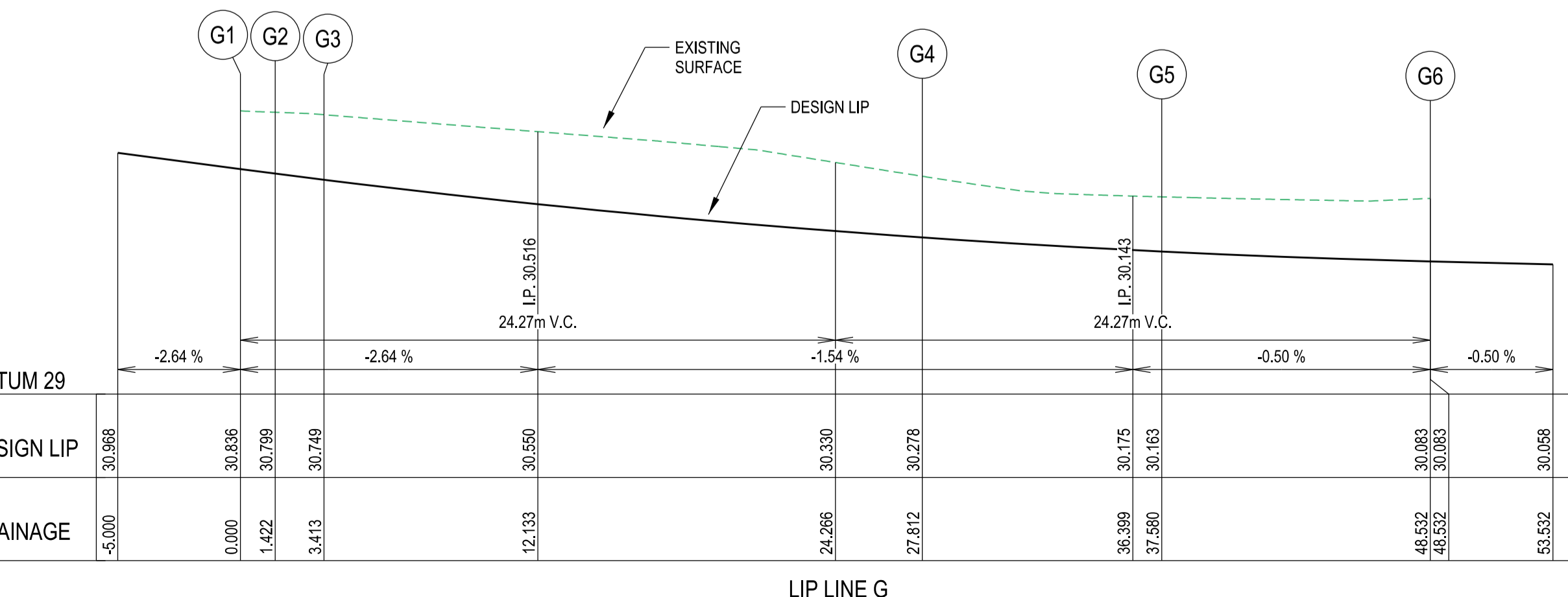
Lip Line F			
Point no	Eastings	Northing	RL
F 1	1817.565	1116.425	30.076
F 2	1817.228	1131.376	29.994
F 3	1813.390	1137.294	29.857
F 4	1800.447	1142.168	29.610
F 5	1817.903	1120.173	30.085
F 6	1817.359	1123.913	30.074
F 7	1817.735	1127.648	30.044
F 8	1816.726	1133.152	29.963
F 9	1815.913	1134.727	29.928
F 10	1814.807	1138.111	29.863
F 11	1810.368	1139.082	29.791
F 12	1807.203	1140.487	29.728
F 13	1803.697	1141.519	29.668

Lip Line G			
Point no	Eastings	Northing	RL
G 1	1862.815	1130.169	30.836
G 2	1861.692	1130.953	30.799
G 3	1860.119	1132.049	30.749
G 4	1835.785	1132.254	30.278
G 5	1827.784	1127.236	30.183
G 6	1824.094	1117.017	30.083
G 7	1862.462	1130.262	30.827
G 8	1862.159	1130.425	30.818
G 9	1861.901	1130.654	30.809
G 10	1861.399	1131.371	30.786
G 11	1861.038	1131.891	30.774
G 12	1860.613	1131.919	30.762
G 13	1854.041	1132.679	30.606
G 14	1847.959	1132.924	30.480
G 15	1841.874	1132.787	30.371
G 16	1833.354	1131.892	30.245
G 17	1831.217	1130.652	30.116
G 18	1829.353	1129.178	30.189
G 19	1826.439	1124.833	30.138
G 20	1825.377	1123.229	30.117
G 21	1824.594	1119.724	30.098



Lip Line Y			
Point no	Eastings	Northing	RL
Y 1	1828.736	1139.999	30.491
Y 2	1825.219	1142.846	30.364
Y 3	1822.371	1138.330	30.295
Y 4	1825.890	1136.482	30.463
Y 5	1827.567	1142.151	30.427
Y 6	1823.066	1141.677	30.302
Y 7	1823.540	1137.176	30.368
Y 8	1828.041	1137.650	30.505
Y 9	1828.736	1139.999	30.491
Y 10	1822.456	1142.846	30.364
Y 11	1824.038	1128.413	30.200
Y 12	1823.638	1129.179	30.187
Y 13	1833.917	1137.604	30.392
Y 14	1851.889	1137.917	30.701
Y 15	1842.170	1138.413	30.432
Y 16	1836.955	1139.567	30.269
Y 17	1836.236	1139.044	30.281
Y 18	1835.620	1135.858	30.284
Y 19	1835.948	1135.504	30.287
Y 20	1860.349	1135.220	30.916
Y 21	1860.838	1138.113	30.916
Y 22	1857.857	1138.235	30.842
Y 23	1854.874	1138.170	30.771
Y 24	1849.444	1137.738	30.542
Y 25	1847.009	1137.759	30.579
Y 26	1844.584	1137.984	30.507
Y 27	1842.105	1136.003	30.436
Y 28	1848.257	1136.121	30.919
Y 29	1854.406	1135.861	30.760

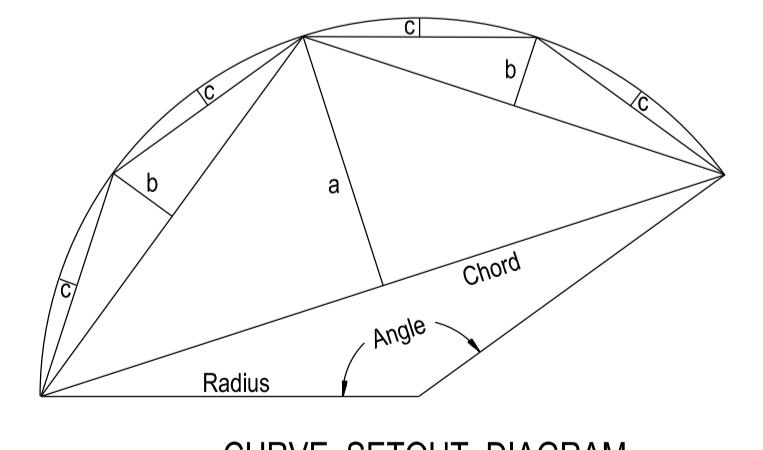
Roundabout Islands & Centre median					
Point no	Eastings	Northing	RL	Curve no	Radius
1	1815.599	1143.453	29.922	1	-20.000
2	1815.324	1143.831	29.917	2	15.000
3	1815.034	1144.077	29.866	3	-5.500
4	1809.753	1142.934	29.855	4	29.700
5	1814.171	1140.873	29.909	5	10.427
6	1815.003	1141.260	29.921	6	0.461
7	1821.177	1129.901	30.101	7	0.541
8	1820.794	1129.589	30.097	8	0.407
9	1821.290	1123.829	30.189	9	1.306
10	1822.456	1123.988	30.200	10	30.034
11	1824.038	1128.413	30.200	11	1.708
12	1823.638	1129.179	30.187	12	0.347
13	1833.917	1137.604	30.392	13	30.702
14	1851.889	1137.917	30.701	14	0.088
15	1842.170	1138.413	30.432	15	0.478
16	1836.955	1139.567	30.269	16	0.144
17	1836.236	1139.044	30.281	17	0.168
18	1835.620	1135.858	30.284	18	0.104
19	1835.948	1135.504	30.287	19	0.401
20	1860.349	1135.220	30.916	20	0.478
21	1860.838	1138.113	30.916	21	0.144
22	1857.857	1138.235	30.842	22	0.182
23	1854.874	1138.170	30.771	23	0.122
24	1849.444	1137.738	30.542	24	0.057
25	1847.009	1137.759	30.579	25	0.087
26	1844.584	1137.984	30.507	26	0.182
27	1842.105	1136.003	30.436	27	0.122
28	1848.257	1136.121	30.919	28	0.057
29	1854.406	1135.861	30.760	29	0.087



**SYMBOL LEGEND**

- Prop / Prev Stage
- Drains: Sewer < 3000, Sewer ≥ 3000, Water (DW), Water (NDW), House Drain, Property Inlet, Street Sign, PSM, Rock Ret Wall, Sleeper Ret Wall, Conduits 50mm, Conduits 100mm, Street Tree without/with Passive Irrigation (Refer Detail)
- Ex Natural/FS Level, FS @ Building Line, Top/Toe of Batter, Top Ret. Wall Level, 100yr Flood Level, Fill Proposed (<0.3m/≥0.3m), Cut Proposed, Asphalt Surface Prop, Concrete Surface Prop (Paths/Driveways/Slabs), Tree To Be Removed, Tree To Be Retained with Tree Protection Zone (TPZ)

**LIP OF KERB PROFILES**  
SCALE - HORIZONTAL 1:200  
VERTICAL 1:40



**breese pitt dixon pty. ltd.**  
land surveyors civil engineers

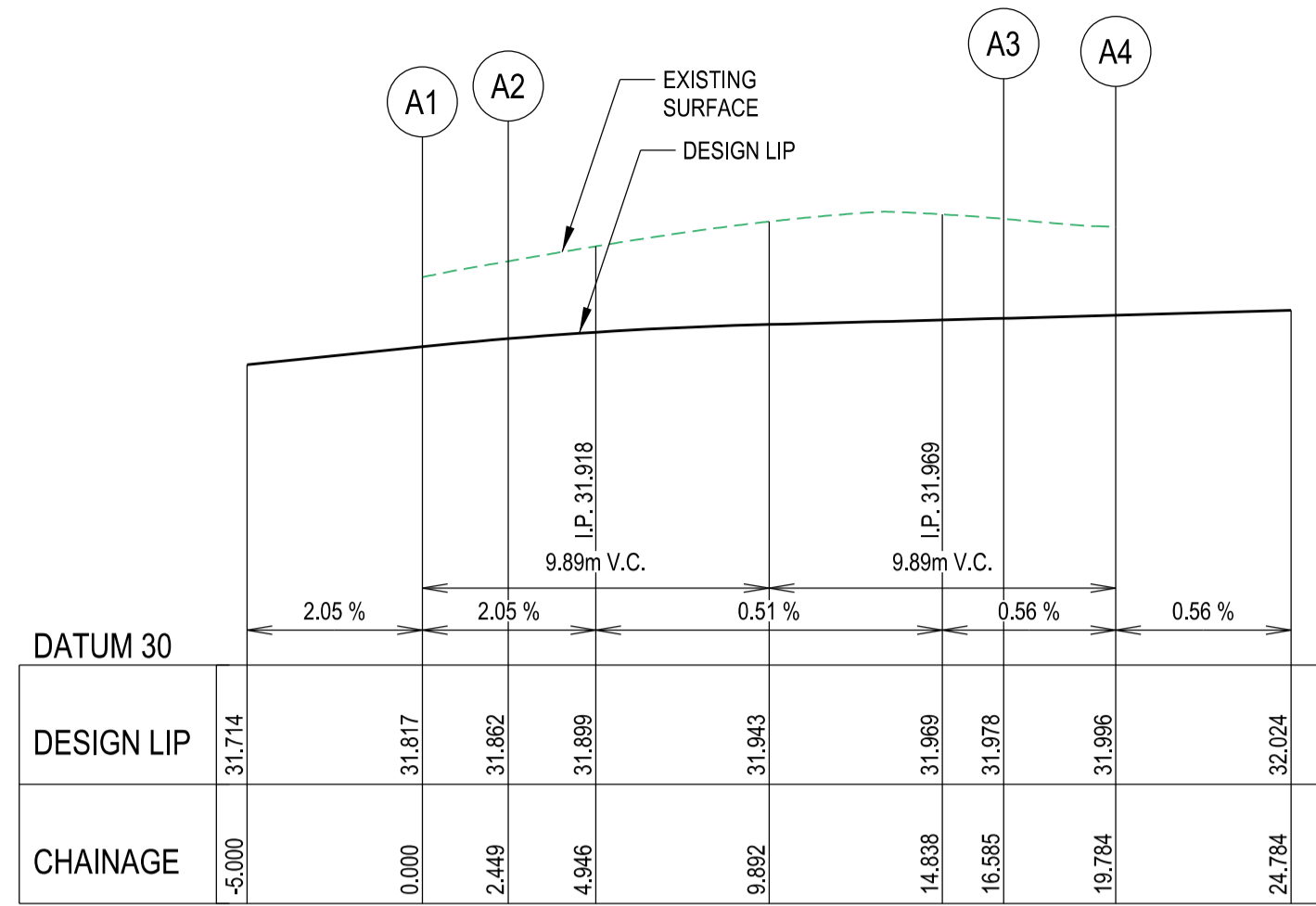
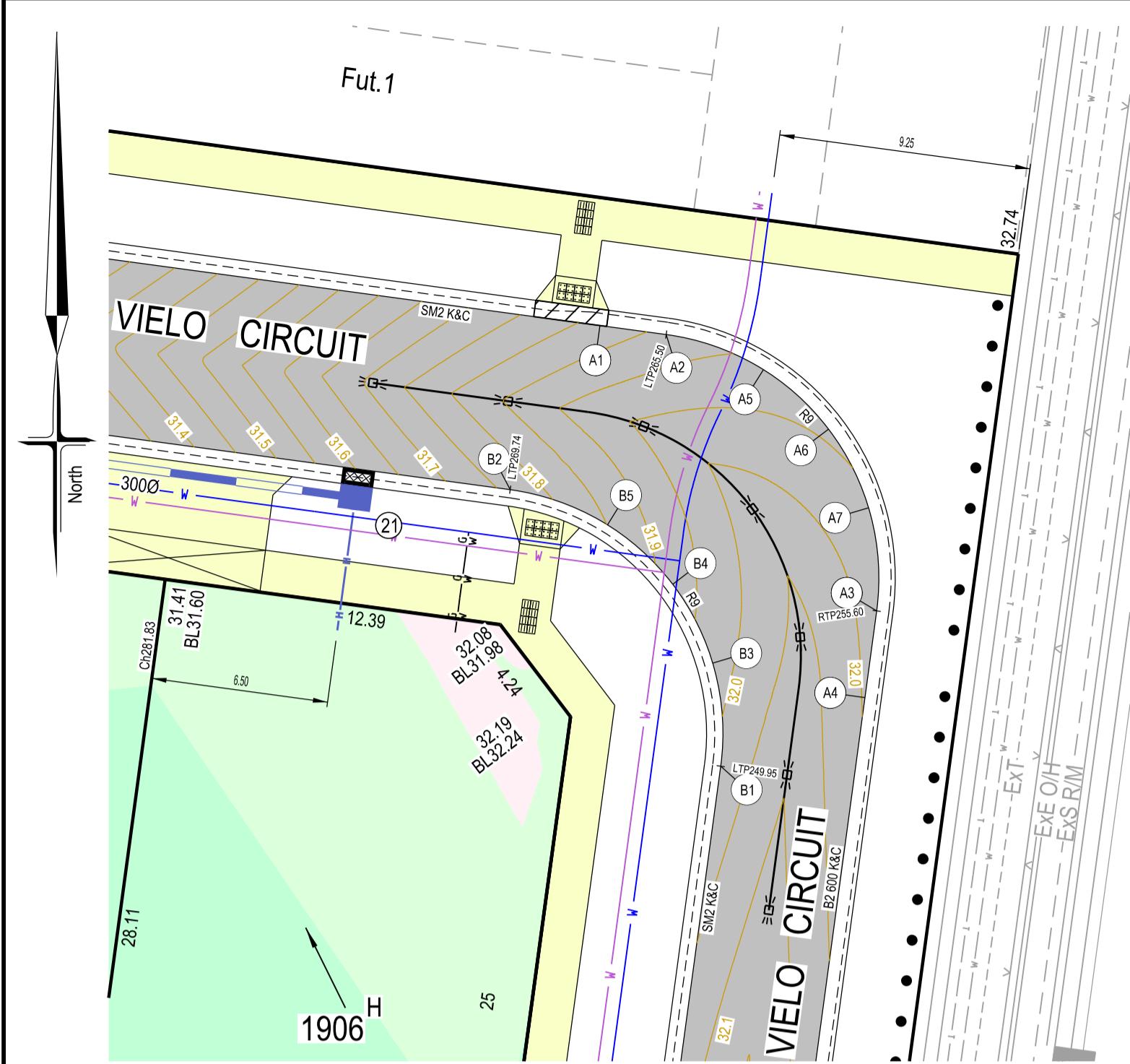
1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310

**DELARAY ESTATE STAGE 19**

MELWAY REF. 135-B-5  
SURVEY BPD  
DESIGN GL  
DRAWN PG

MUNICIPALITY CASEY  
REFERENCE 8974 E/19

SCALE AS SHOWN DATUM AHD  
DATE AUG '20 SHEET 3 OF 12 P3

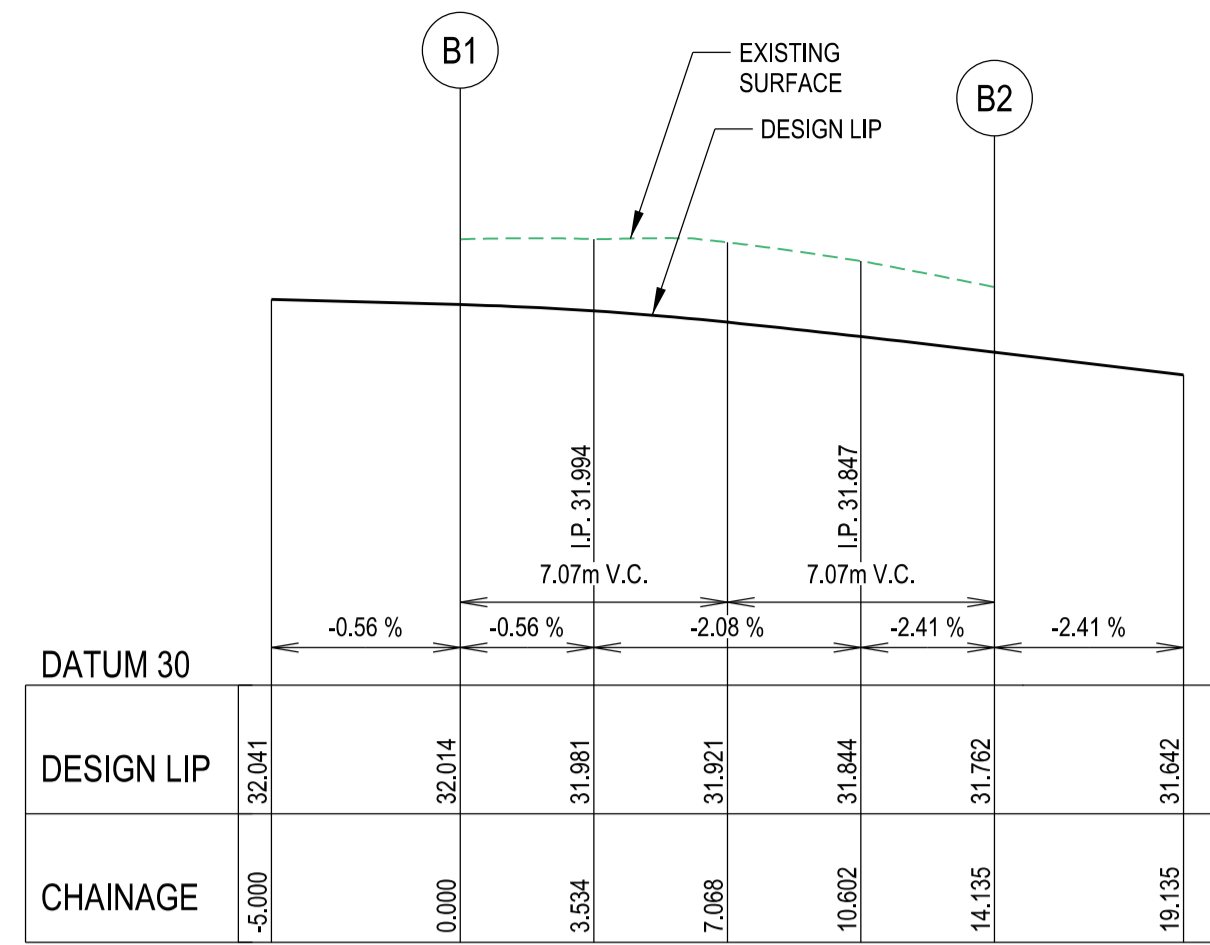


Alignment A

Point no	Easting	Northing	RL
A 1	1915.634	1291.129	31.817
A 2	1918.061	1290.801	31.862
A 3	1925.774	1290.677	31.978
A 4	1926.346	1277.507	31.968
A 5	1921.624	1289.515	31.915
A 6	1924.014	1287.336	31.941
A 7	1925.480	1284.453	31.958

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
A 0 3	9.000	12.727	2.635	2.054	31.941

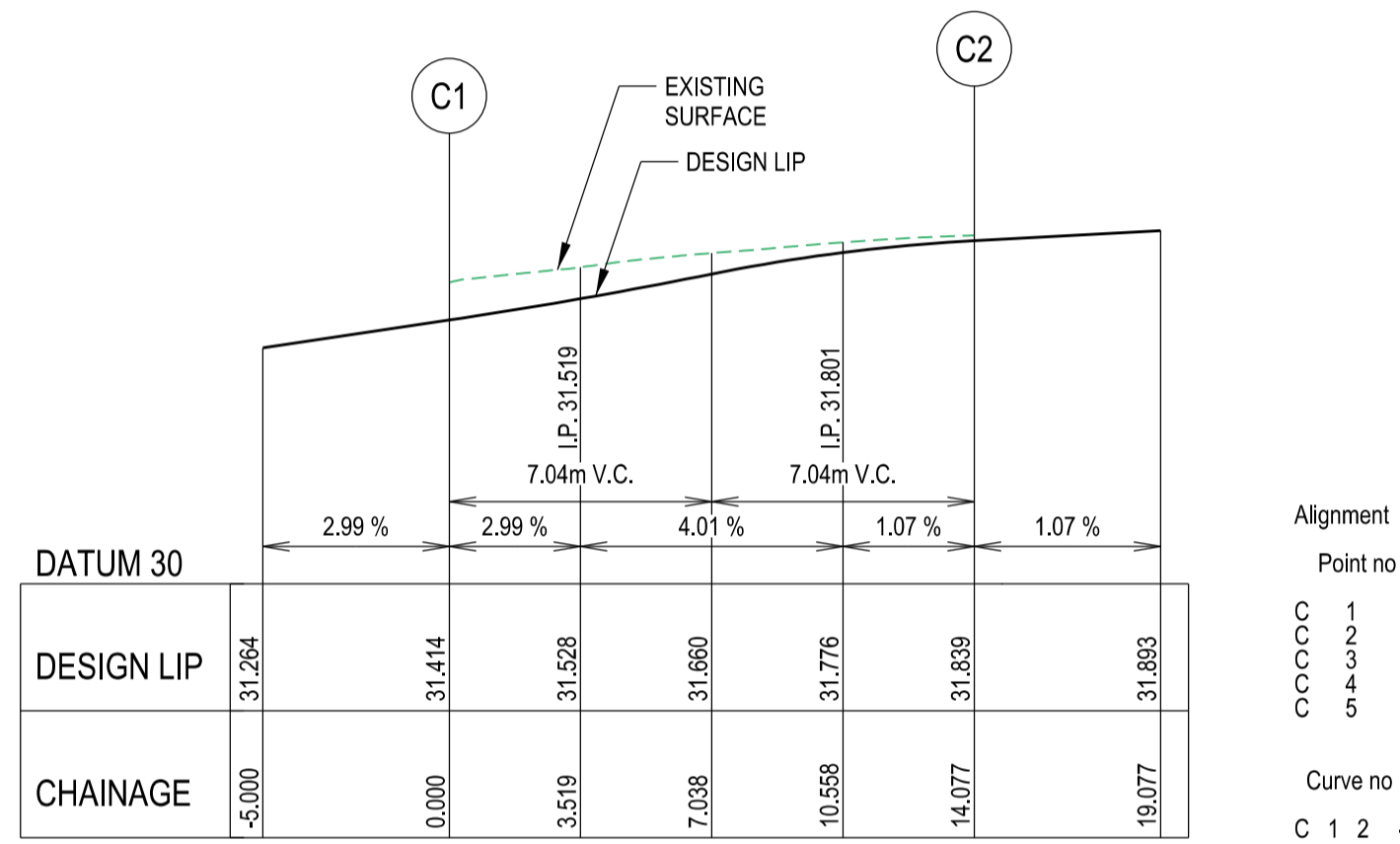
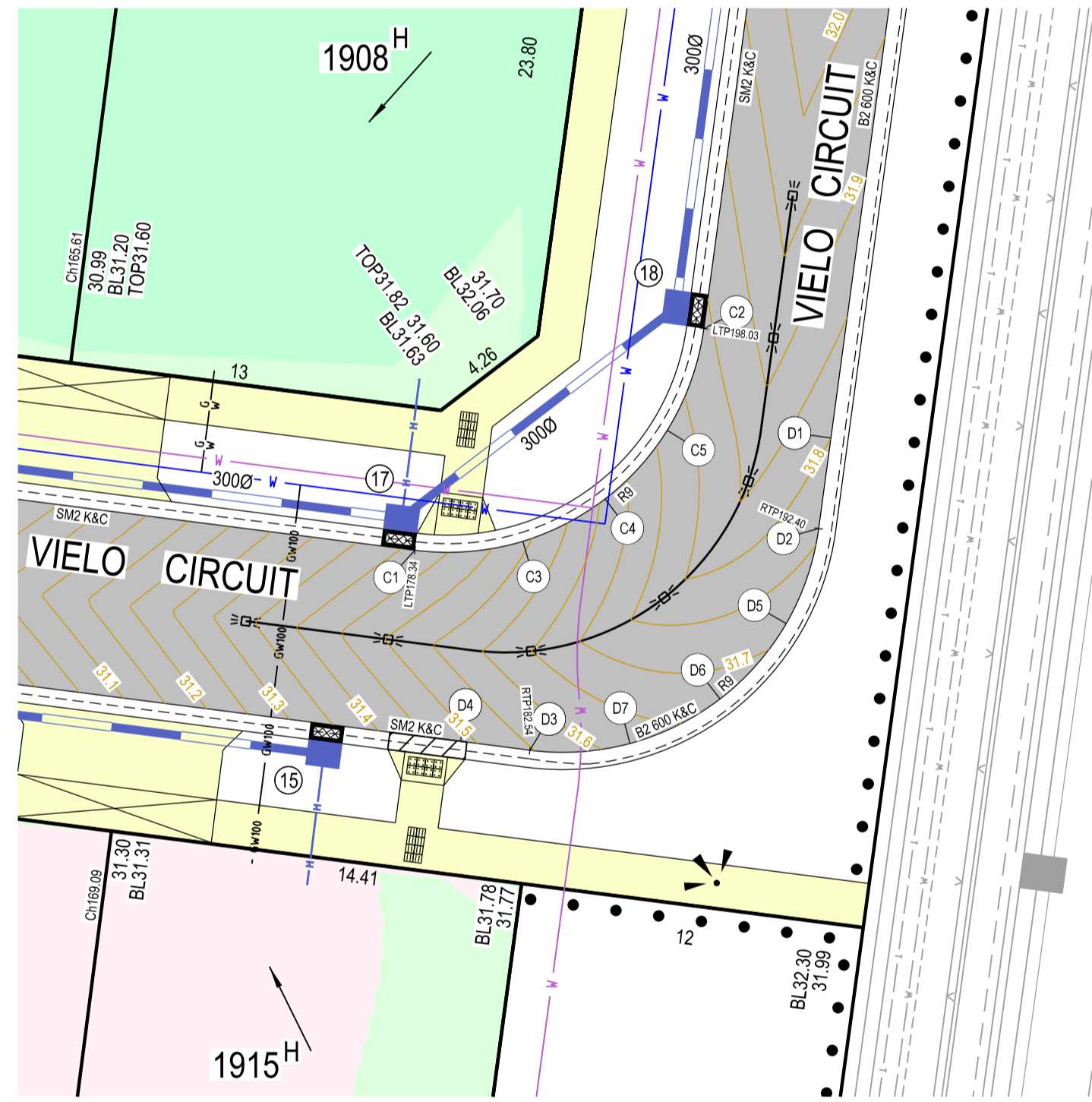


Alignment B

Point no	Easting	Northing	RL
B 1	1920.062	1274.992	32.014
B 2	1912.348	1285.115	31.782
B 3	1919.768	1278.767	31.977
B 4	1918.302	1281.650	31.921
B 5	1915.911	1283.829	31.851

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
B 1 2	-9.000	12.727	2.635	2.054	31.921

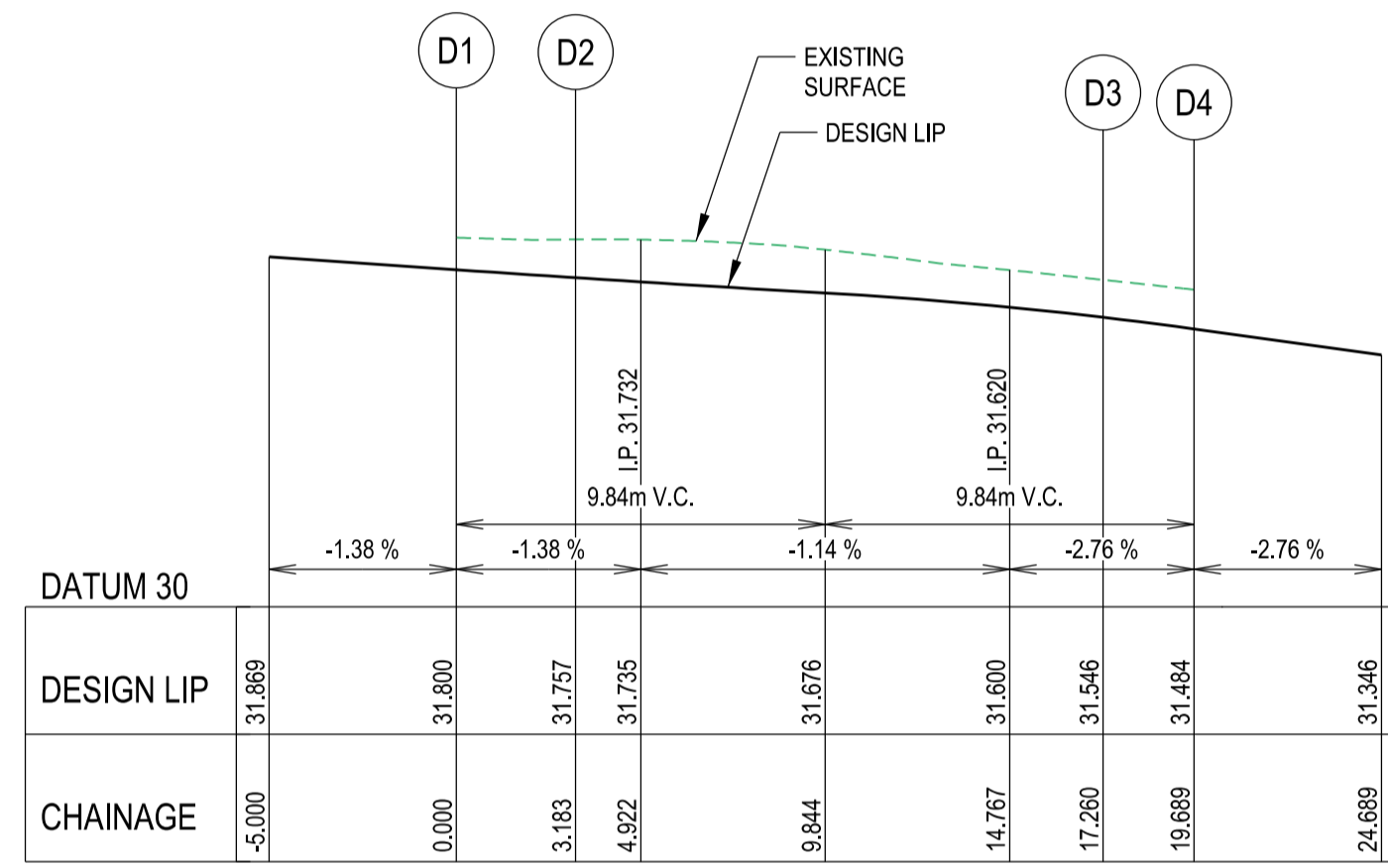


Alignment C

Point no	Easting	Northing	RL
C 1	1903.048	1215.813	31.414
C 2	1913.142	1223.535	31.839
C 3	1906.895	1216.127	31.538
C 4	1909.672	1217.600	31.660
C 5	1911.837	1219.988	31.768

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
C 1 2	-9.000	12.685	2.615	2.038	31.660



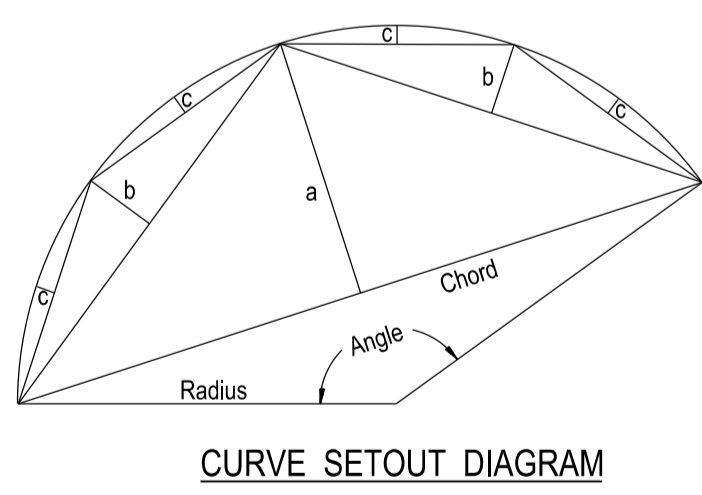
Alignment D

Point no	Easting	Northing	RL
D 1	1917.542	1219.724	31.800
D 2	1917.116	1216.570	31.757
D 3	1907.052	1208.847	31.546
D 4	1904.643	1209.156	31.464
D 5	1915.840	1213.022	31.710
D 6	1913.676	1210.634	31.671
D 7	1910.808	1209.161	31.624

Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
D 2 3	9.000	12.685	2.615	2.038	31.671

LIP OF KERB PROFILES  
SCALE - HORIZONTAL 1:200  
VERTICAL 1:40



INTERSECTION DETAIL

SCALE 1:200

SCALE 1:200 @ A1



ALL SETOUT DETAILS  
ARE PROVIDED  
AT LIP OF KERB

**SYMBOL LEGEND**

Drains	Prop	Prop Stage	Ex/Natural/FS Level	+28.57	+NS28.57	+FS28.57
Sewer < 300Ø	S	S	FS @ Building Line	+BL28.57		
Sewer ≥ 300Ø	S	S	Top/Toe of Batter	+TOP28.57		+TOE28.57
Water (DW)	W	W	Top Ret. Wall Level	+TW28.57		
Water (NDW)	W	W	100yr Flood Level	+FL28.57		
House Drain	H	H	Fill Proposed (<0.3m/≥0.3m)			
Property Inlet	I	I	Cut Proposed			
Street Sign	S	S	Asphalt Surface Prop			
PSM	PSM	PSM	Concrete Surface Prop (Paths/Driveways/Slabs)			
Rock Ret Wall	R	R	Tree To Be Removed			
Sleeper Ret Wall	S	S	Tree To Be Retained with Tree Protection Zone (TPZ)			
Conduits 50mm	GW	GW				
Conduits 100mm	W100	W100				
Street Tree without/with Passive Irrigation (Refer Detail)	T	T				
Ex Drains	Ex W	Ex W				
Ex Water DW/NDW	Ex S	Ex S				
Ex Sewer/Gas	Ex G	Ex G				
Ex Elect/Comm	Ex E	Ex E				

AMENDMENTS										
VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD	DATE AUG '20	SHEET 4 OF 12	P3		

**breese pitt dixon pty. ltd.**  
land surveyors civil engineers

1/19 cato street  
hawthorn east, 3123  
telephone 8823 2300  
fax no. 8823 2310

MELWAY REF. 135-B-5

SURVEY BPD

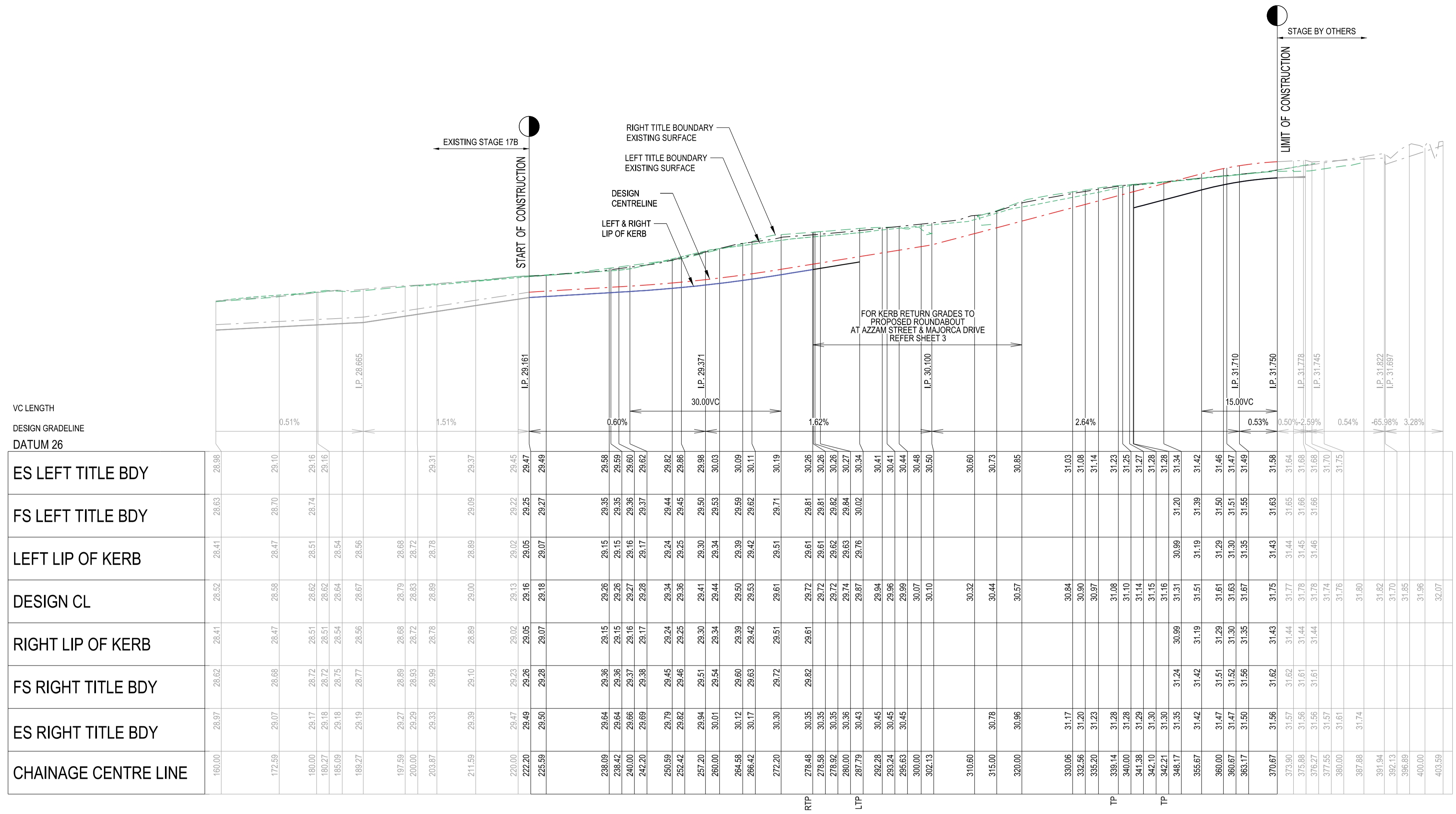
DESIGN GL

DRAWN PG

**DELARAY ESTATE  
STAGE 19**

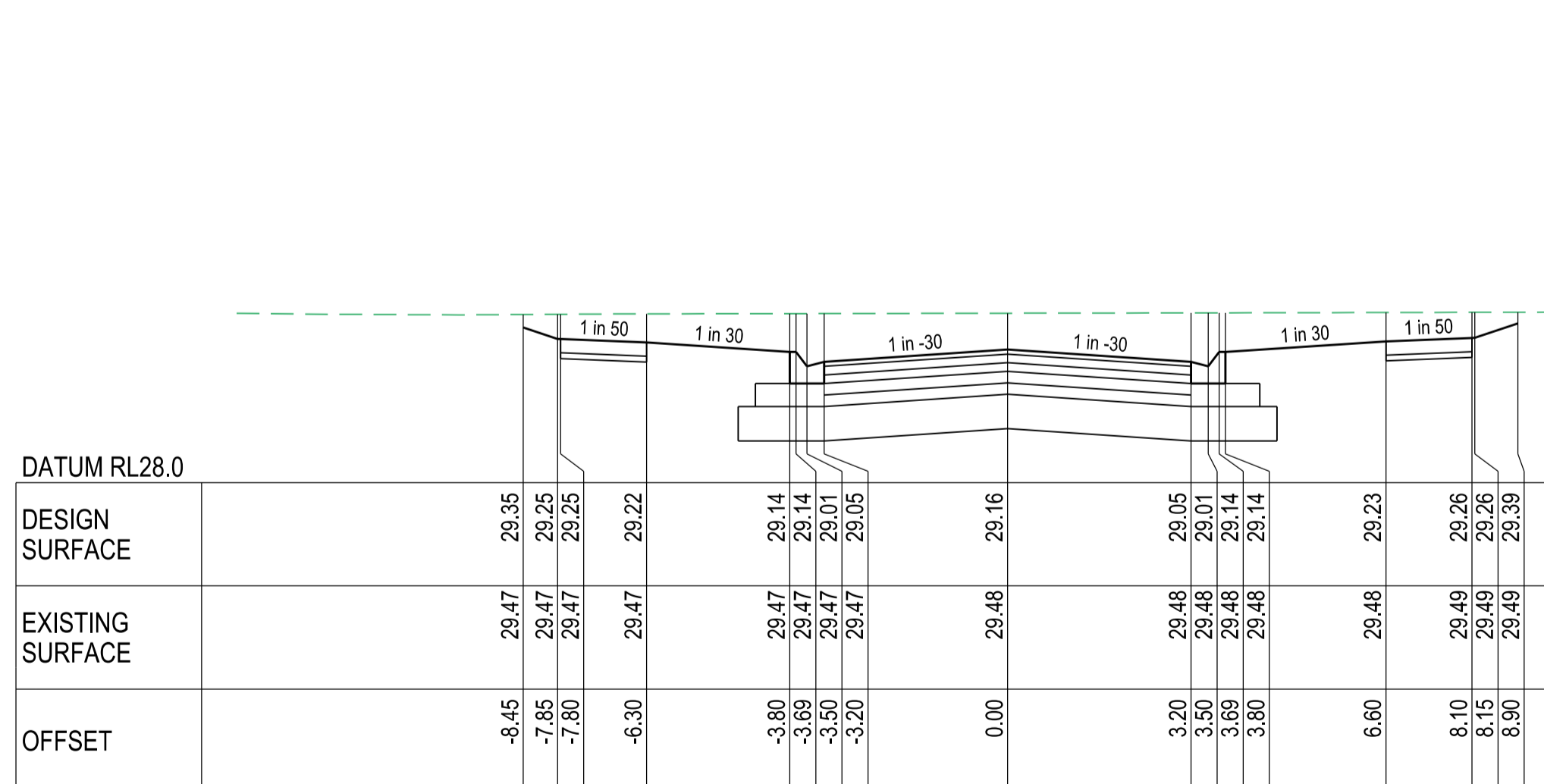
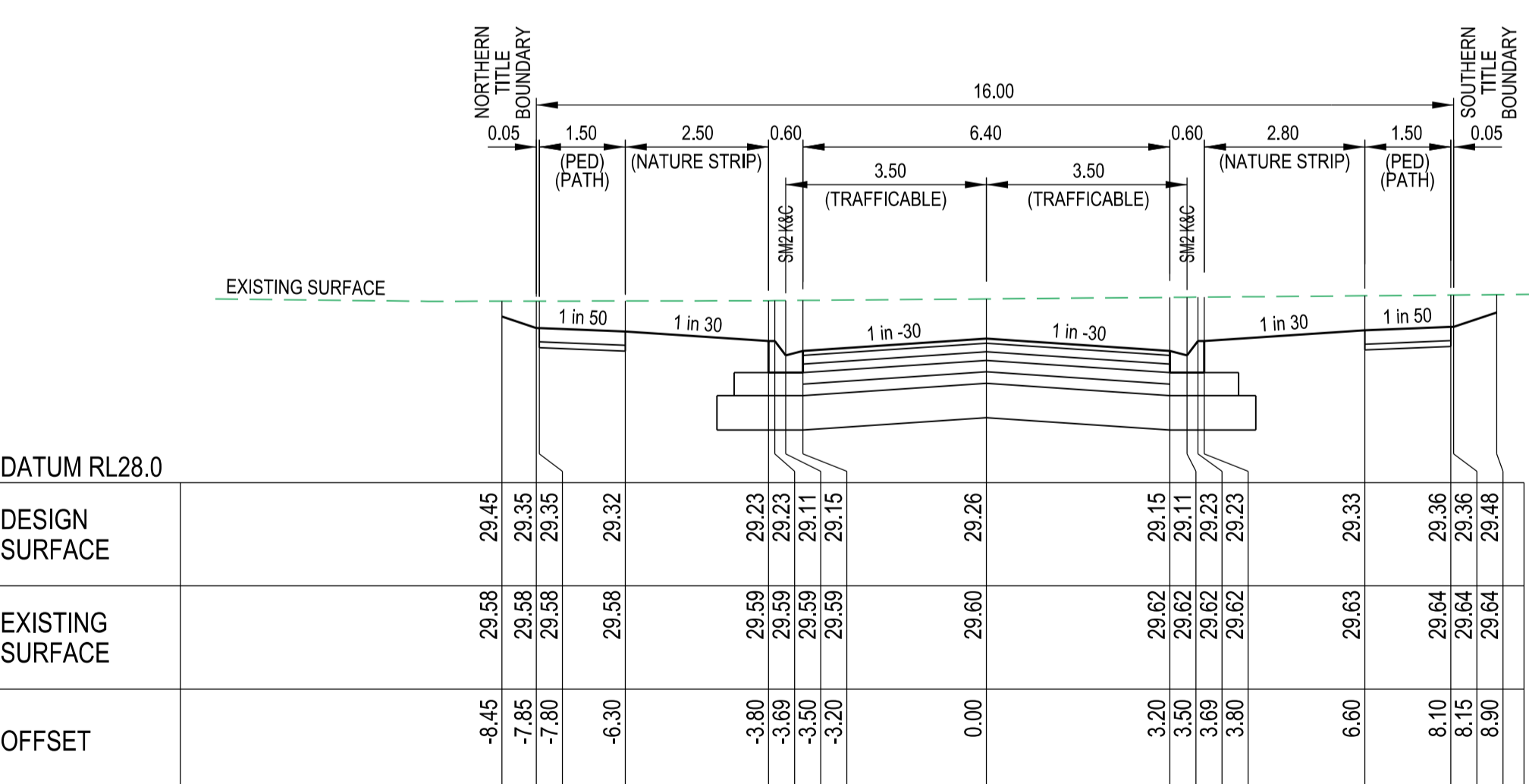
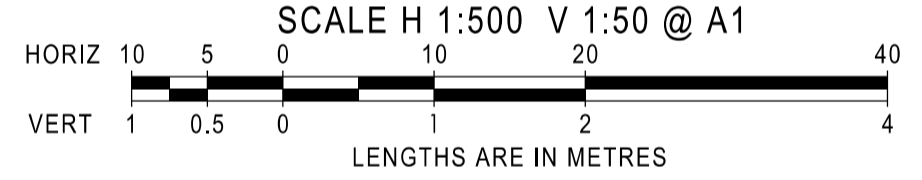
REFERENCE  
8974 E/19

MUNICIPALITY  
CASEY

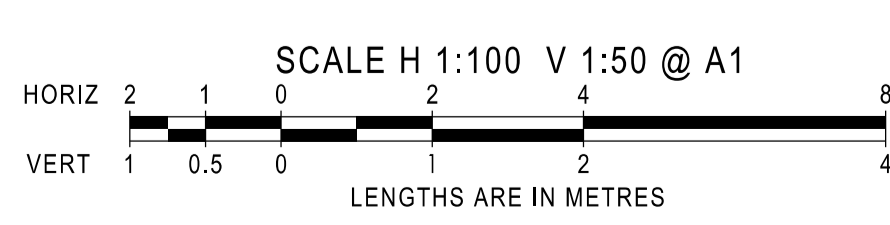


VC LENGTH	DESIGN GRADELINE	DATUM 26	ES LEFT TITLE BDY	FS LEFT TITLE BDY	LEFT LIP OF KERB	DESIGN CL	RIGHT LIP OF KERB	FS RIGHT TITLE BDY	ES RIGHT TITLE BDY	CHAINAGE CENTRE LINE
			28.98	28.63	28.41	28.52	28.41	28.62	28.97	160.00
	0.51%			28.70	28.47	28.58	28.47	28.68	29.07	172.59
			28.16	28.74	28.51	28.62	28.51	28.72	29.17	180.00
			29.10		28.54	28.62	28.51	28.72	29.18	180.27
					28.56	28.67	28.56	28.77	29.19	189.27
					28.68	28.79	28.68	28.89	29.27	197.59
					28.72	28.83	28.72	28.83	29.28	200.00
	1.51%		29.31		28.78	28.89	28.78	28.89	29.33	203.87
			29.37	29.09	28.89	29.00	28.89	29.10	29.39	211.59
			29.45	29.22	29.22	29.13	29.02	29.13	29.42	220.00
			29.47	29.25	29.25	29.16	29.05	29.16	29.49	222.20
			29.49	29.27	29.27	29.18	29.07	29.18	29.50	225.59
	0.60%		29.58	29.35	29.15	29.26	29.15	29.36	29.64	238.09
			29.59	29.36	29.15	29.26	29.15	29.36	29.64	238.42
			29.60	29.36	29.16	29.27	29.16	29.37	29.66	240.00
			29.62	29.37	29.17	29.28	29.17	29.38	29.69	242.20
			29.66	29.44	29.24	29.34	29.24	29.45	29.79	250.59
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	252.42
	30.00VC		29.66	29.45	29.25	29.35	29.25	29.46	29.82	257.20
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	260.00
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	264.58
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	266.42
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	272.20
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	278.58
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	278.58
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	280.00
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	287.79
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	292.28
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	293.24
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	295.63
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	300.00
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	302.13
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	310.60
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	315.00
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	320.00
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	330.06
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	332.56
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	335.20
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	339.14
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	340.00
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	341.38
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	342.10
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	342.21
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	348.17
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	355.67
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	360.00
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	360.67
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	363.17
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	370.67
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	373.90
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	375.88
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	376.27
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	377.50
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	380.00
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	387.88
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	391.94
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	392.13
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	398.88
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	400.00
			29.66	29.45	29.25	29.35	29.25	29.46	29.82	403.59

**AZZAM STREET**  
LONGITUDINAL SECTION



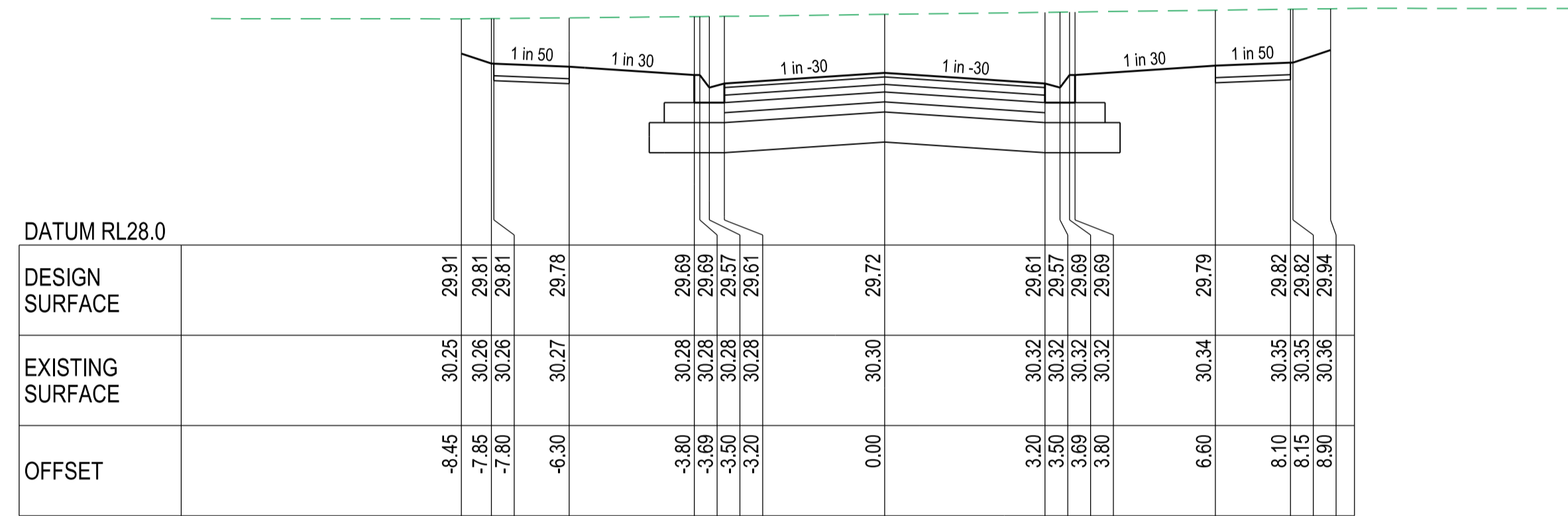
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CROSS SECTIONS



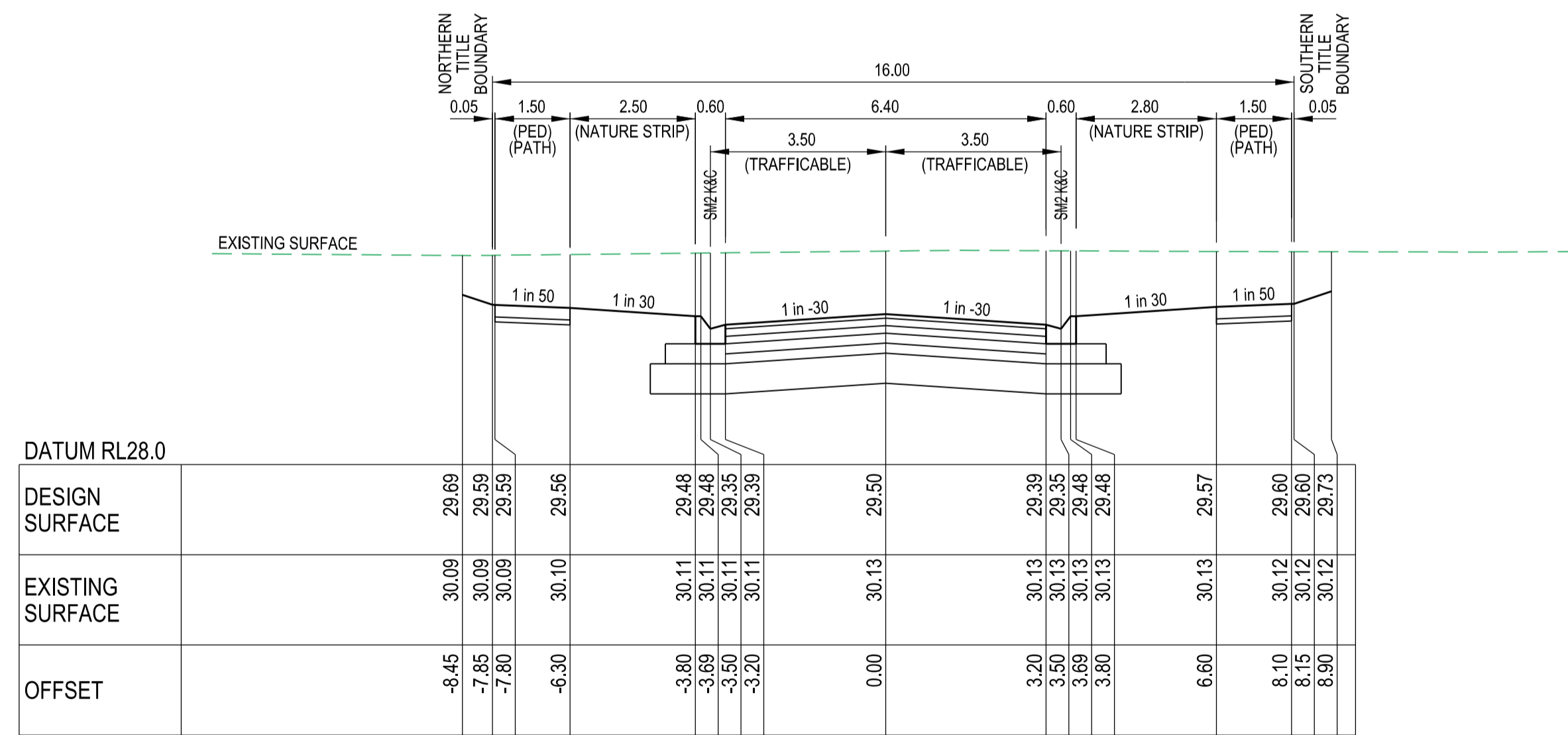
**LEGEND**

- EXISTING SURFACE
- DESIGN SURFACE
- ▨ TYPE A SELECTED MATERIAL FILL

		<b>breese pitt dixon pty. ltd.</b> land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 135-B-5 SURVEY BPD DESIGN GL DRAWN PG		<b>DELARAY ESTATE</b> STAGE 19		MUNICIPALITY CASEY	
CHECKED				REFERENCE 8974 <sup>E</sup> /19	
VER	DATE	REMARKS	SCALE AS SHOWN	DATUM AHD	DATE AUG '20
			SHEET 5 OF 12	P3	



RTP Ch 278.48

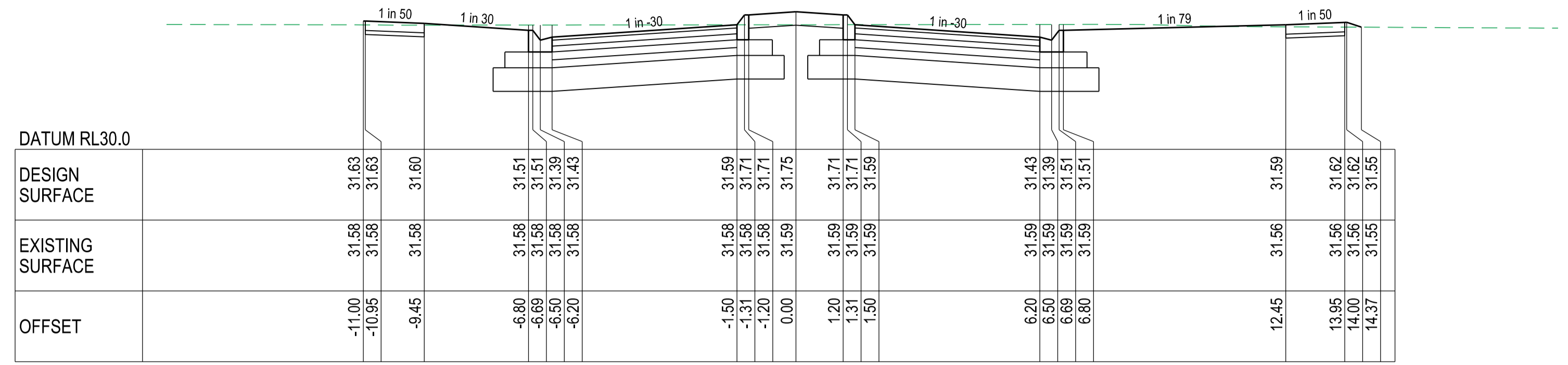
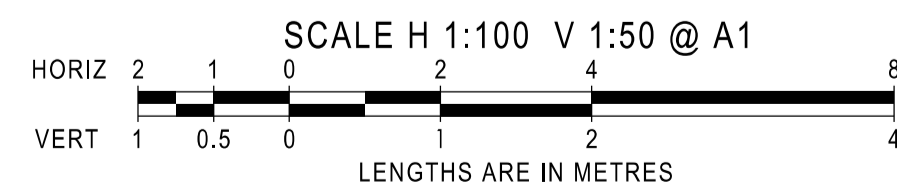


Ch 264.58

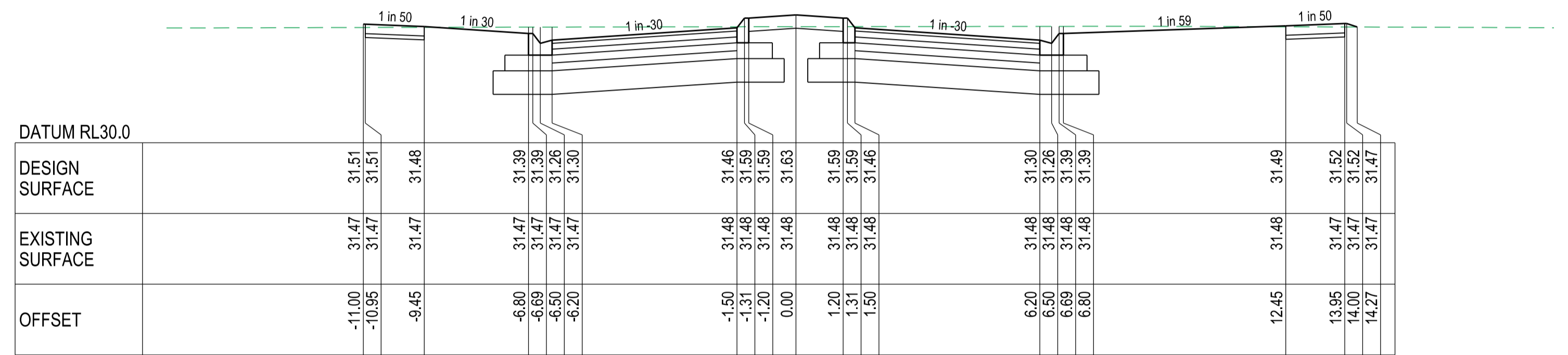
**AZZAM STREET**

**CROSS SECTIONS**

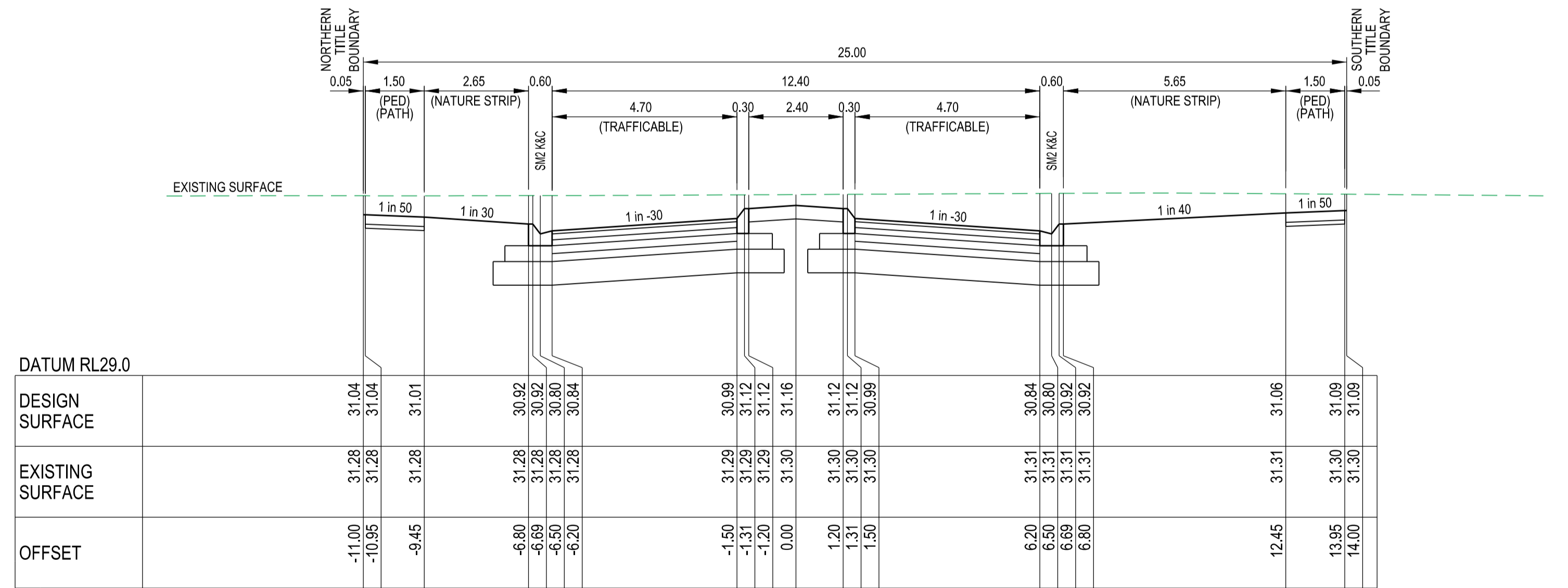
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VERTICAL 1:50



Ch 370.67



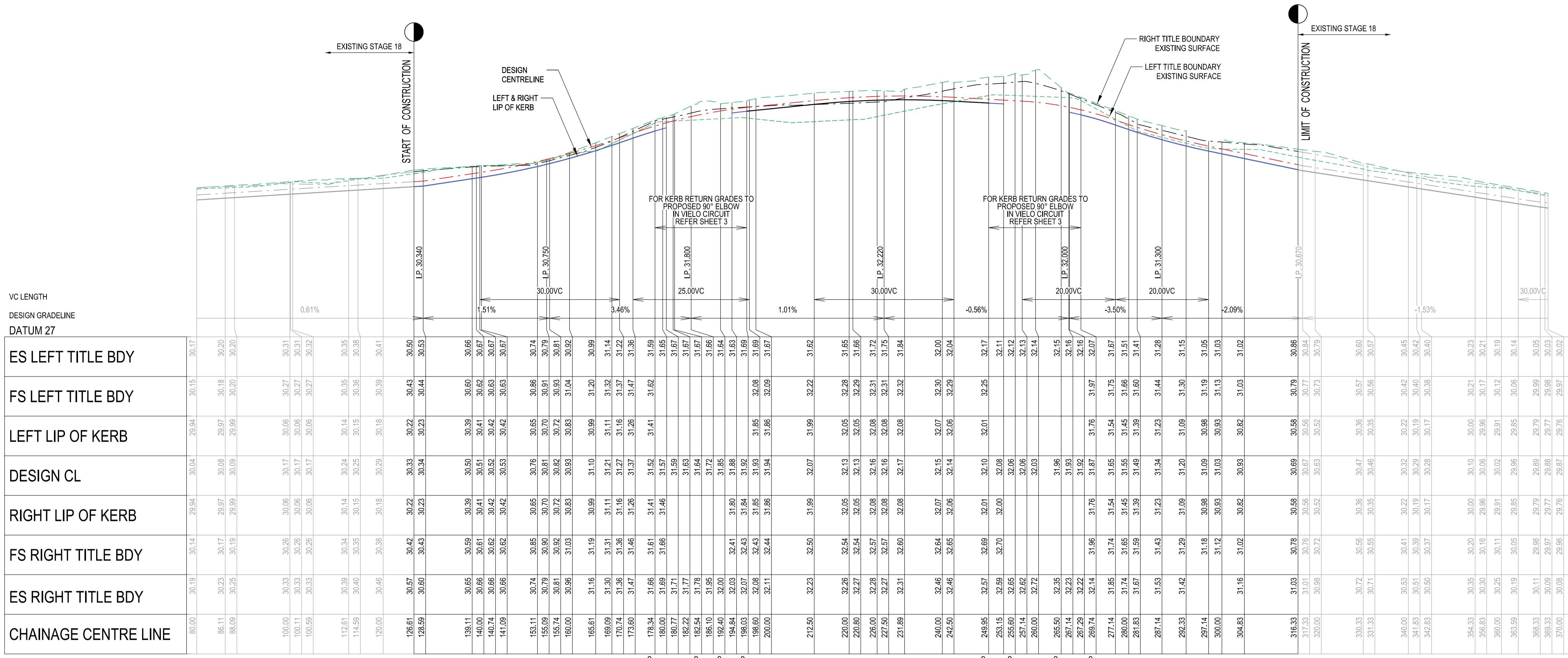
Ch 360.67



TP Ch 342.24

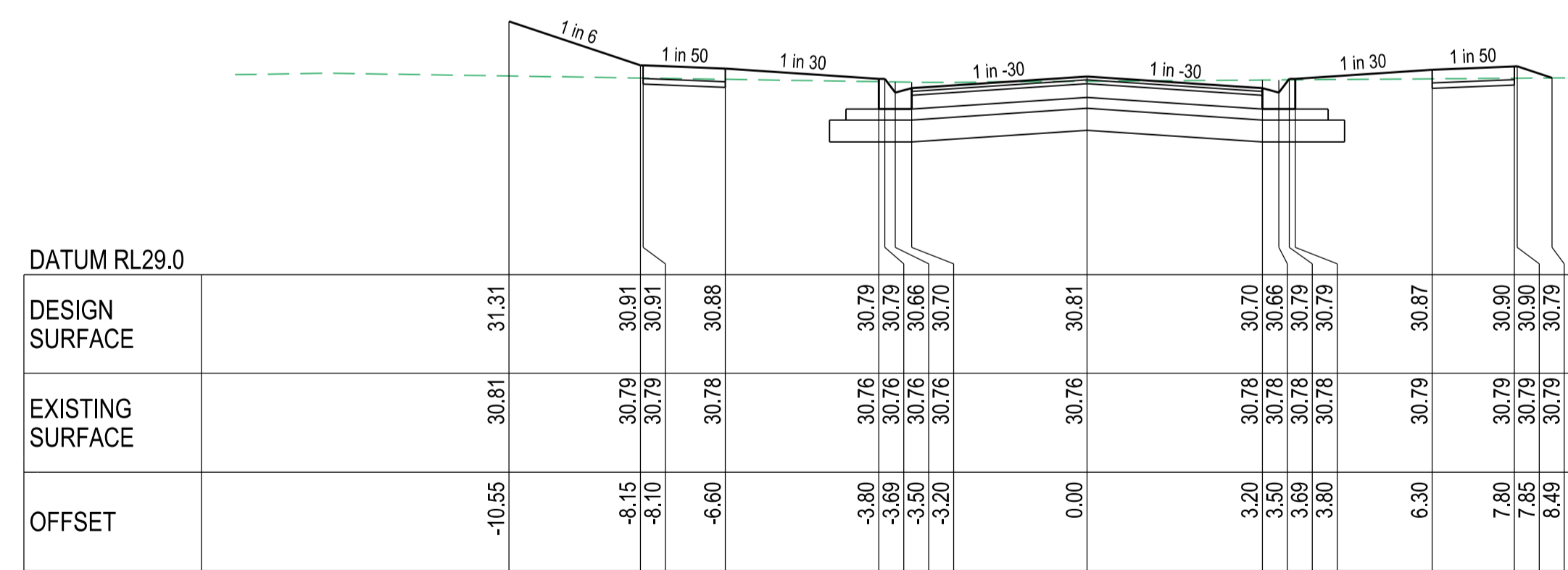
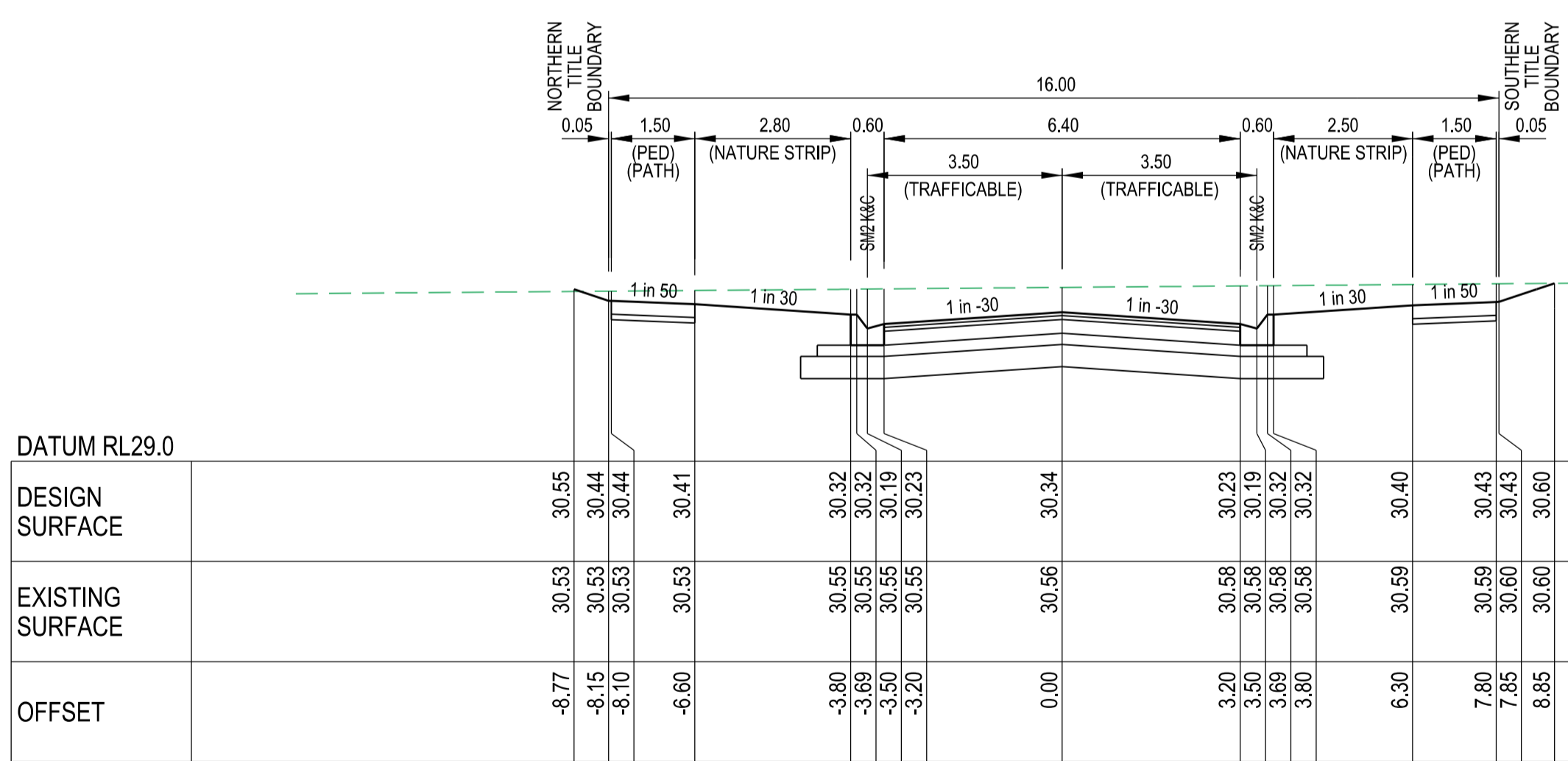
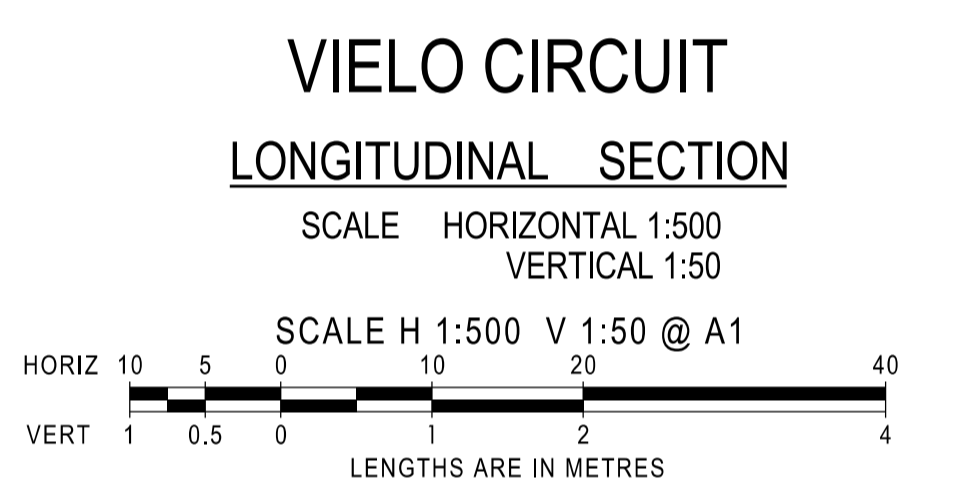
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	TYPE A SELECTED MATERIAL FILL

		<b>breese pitt dixon pty. ltd.</b> land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310				
MELWAY REF. 135-B-5 SURVEY BPD DESIGN GL DRAWN PG		<b>DELARAY ESTATE</b> <b>STAGE 19</b>		MUNICIPALITY <b>CASEY</b> REFERENCE <b>8974 E/19</b>				
VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD	DATE AUG '20	SHEET 6 OF 12	P3

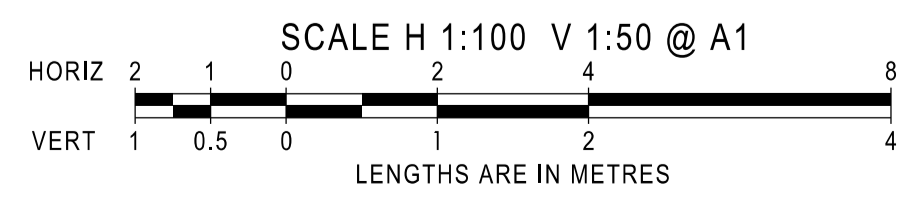


VC LENGTH	DESIGN GRADELINE	DATUM 27
ES LEFT TITLE BDY	30.17	30.17
FS LEFT TITLE BDY	30.15	30.15
LEFT LIP OF KERB	29.94	29.94
DESIGN CL	30.04	30.04
RIGHT LIP OF KERB	29.94	29.94
FS RIGHT TITLE BDY	30.14	30.14
ES RIGHT TITLE BDY	30.19	30.19
CHAINAGE CENTRE LINE	80.00	80.00

100.00	30.33	30.26	30.06	30.17	30.06	30.27	30.31	30.35	30.35
100.11	30.33	30.26	30.06	30.17	30.06	30.27	30.31	30.35	30.35
100.59	30.33	30.26	30.06	30.17	30.06	30.27	30.32	30.35	30.35
112.61	30.39	30.34	30.14	30.24	30.14	30.24	30.35	30.35	30.35
114.59	30.40	30.35	30.15	30.25	30.15	30.25	30.38	30.38	30.38
120.00	30.46	30.38	30.18	30.29	30.18	30.29	30.41	30.41	30.41
126.61	30.57	30.42	30.22	30.33	30.22	30.33	30.50	30.50	30.50
128.59	30.60	30.43	30.23	30.34	30.23	30.34	30.53	30.53	30.53
138.11	30.65	30.59	30.29	30.50	30.29	30.50	30.66	30.66	30.66
140.00	30.66	30.61	30.41	30.51	30.41	30.51	30.67	30.67	30.67
140.74	30.66	30.62	30.42	30.52	30.42	30.52	30.67	30.67	30.67
141.09	30.66	30.62	30.42	30.53	30.42	30.53	30.67	30.67	30.67
153.11	30.74	30.65	30.65	30.76	30.65	30.76	30.74	30.74	30.74
155.09	30.79	30.90	30.70	30.81	30.70	30.81	30.79	30.79	30.79
155.74	30.81	30.92	30.72	30.82	30.72	30.82	30.81	30.81	30.81
160.00	30.96	31.03	30.83	30.93	30.83	30.93	31.04	30.92	30.92
165.61	31.16	31.19	30.99	31.10	30.99	31.10	30.99	31.20	30.99
169.09	31.30	31.31	31.11	31.21	31.11	31.21	31.14	31.14	31.14
170.74	31.36	31.36	31.16	31.27	31.16	31.27	31.22	31.22	31.22
173.60	31.47	31.46	31.26	31.37	31.26	31.37	31.47	31.36	31.36
178.34	31.66	31.61	31.41	31.52	31.41	31.52	31.59	31.59	31.59
180.00	31.69	31.66	31.46	31.57	31.46	31.57	31.65	31.65	31.65
180.77	31.71	31.71	31.59	31.63	31.59	31.63	31.67	31.67	31.67
182.22	31.77	31.77	31.64	31.64	31.64	31.64	31.67	31.67	31.67
182.54	31.78	31.78	31.65	31.64	31.65	31.64	31.66	31.66	31.66
186.10	31.95	31.95	31.82	31.88	31.82	31.88	31.84	31.84	31.84
192.40	32.00	32.00	32.41	31.80	32.41	31.80	31.86	31.86	31.86
194.84	32.03	32.03	32.41	31.84	32.41	31.84	31.92	31.92	31.92
196.03	32.07	32.43	31.84	31.92	31.84	31.92	31.85	31.85	31.85
196.60	32.08	32.43	31.85	31.93	31.85	31.93	31.86	31.86	31.86
200.00	32.11	32.44	31.86	31.94	31.86	31.94	31.87	31.87	31.87
212.50	32.23	32.50	31.99	32.07	31.99	32.07	31.99	32.22	31.99
220.00	32.26	32.54	32.05	32.13	32.05	32.13	31.65	31.65	31.65
220.80	32.27	32.54	32.05	32.13	32.05	32.13	31.66	31.66	31.66
226.00	32.28	32.57	32.08	32.16	32.08	32.16	31.72	31.72	31.72
227.50	32.27	32.57	32.08	32.16	32.08	32.16	31.75	31.75	31.75
231.89	32.31	32.60	32.08	32.17	32.08	32.17	31.84	31.84	31.84
240.00	32.46	32.64	32.07	32.15	32.07	32.15	32.00	32.00	32.00
242.50	32.46	32.65	32.06	32.14	32.06	32.14	32.04	32.04	32.04
249.95	32.57	32.69	32.01	32.10	32.01	32.10	32.17	32.17	32.17
253.15	32.59	32.70	32.00	32.08	32.00	32.08	32.11	32.11	32.11
255.60	32.65	32.70	32.00	32.06	32.00	32.06	32.12	32.12	32.12
257.14	32.62	32.62	32.06	32.06	32.06	32.06	32.13	32.13	32.13
260.00	32.72	32.65	32.06	32.03	32.06	32.03	32.14	32.14	32.14
265.50	32.85	31.96	31.96	31.96	31.96	31.96	32.15	32.15	32.15
267.14	32.23	31.92	31.92	31.92	31.92	31.92	32.16	32.16	32.16
267.29	32.22	31.87	31.76	31.97	31.76	31.97	32.07	32.07	32.07
269.74	32.14	31.96	31.76	31.87	31.76	31.87	31.97	31.97	31.97
277.14	31.85	31.74	31.54	31.65	31.54	31.65	31.67	31.67	31.67
280.00	31.74	31.65	31.45	31.55	31.45	31.55	31.66	31.66	31.66
281.83	31.67	31.59	31.39	31.49	31.39	31.49	31.41	31.41	31.41
287.14	31.53	31.43	31.23	31.34	31.23	31.34	31.28	31.28	31.28
292.33	31.42	31.29	31.09	31.20	31.09	31.20	31.15	31.15	31.15
297.14	31.18	30.98	30.98	31.09	30.98	31.09	31.05	31.05	31.05
300.00	31.12	30.93	31.03	30.93	31.03	30.93	31.03	31.03	31.03
304.83	31.16	31.02	30.82	30.93	30.82	30.93	31.02	31.02	31.02
316.33	31.03	30.78	30.59	30.69	30.59	30.69	30.86	30.86	30.86
317.33	31.01	30.76	30.56	30.67	30.56	30.67	30.84	30.84	30.84
320.00	30.98	30.72	30.52	30.63	30.52	30.63	30.79	30.79	30.79
330.33	30.72	30.56	30.36	30.47	30.36	30.47	30.60	30.60	30.60
331.33	30.71	30.55	30.35	30.46	30.35	30.46	30.57	30.57	30.57
340.00	30.53	30.41	30.22	30.32	30.22	30.32	30.45	30.45	30.45
341.83	30.51	30.39	30.19	30.29	30.19	30.29	30.42	30.42	30.42
342.83	30.50	30.37	30.17	30.28	30.17	30.28	30.40	30.40	30.40
354.33	30.35	30.20	30.00	30.10	30.00	30.10	30.23	30.23	30.23
356.83	30.30	30.16	29.96	30.06	29.96	30.06	30.17	30.17	30.17
360.00	30.25	30.11	29.91	30.02	29.91	30.02	30.19	30.19	30.19
363.59	30.19	30.05	29.85	29.96	29.85	29.96	30.14	30.14	30.14
368.33	30.11	29.98	29.79	29.89	29.79	29.89	30.05	30.05	30.05
369.33	30.09	29.97	29.77	29.88	29.77	29.88	30.03	30.03	30.03
370.00	30.08	29.96	29.76	29.87	29.76	29.87	30.02	30.02	30.02



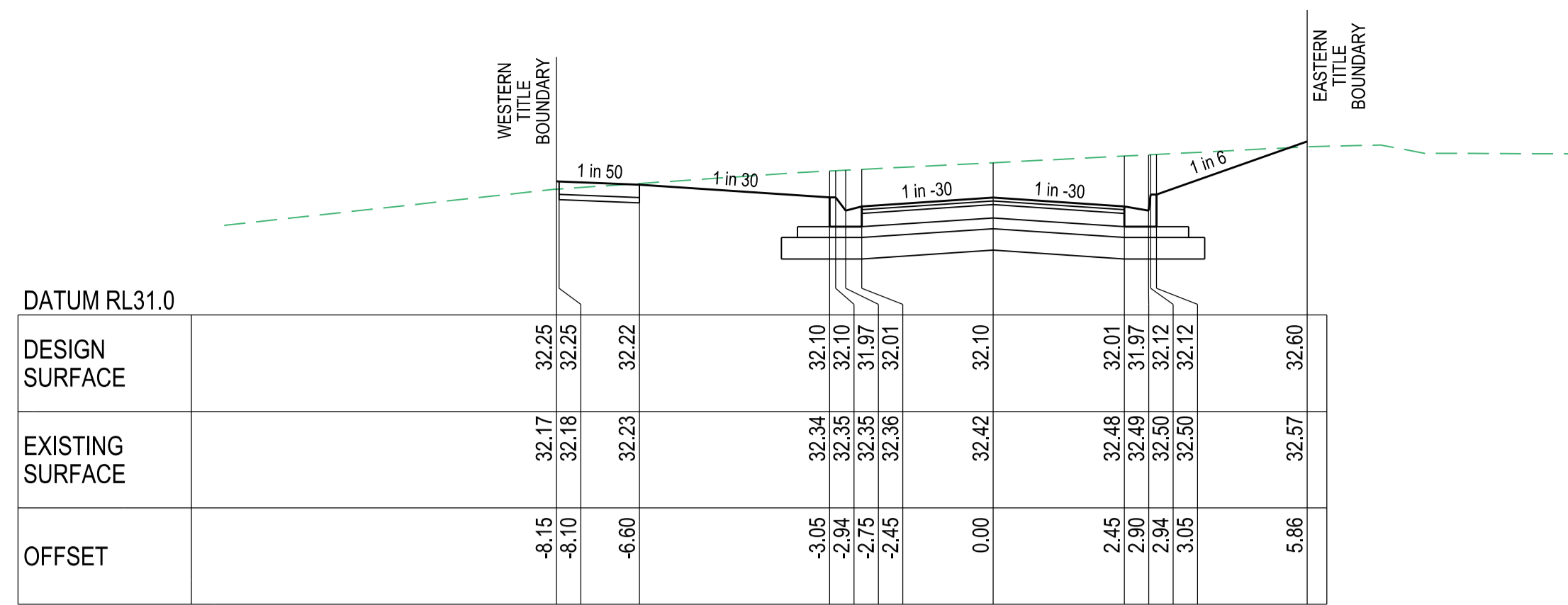
**VIELO CIRCUIT CROSS SECTIONS**  
 SCALE HORIZONTAL 1:100 VERTICAL 1:50



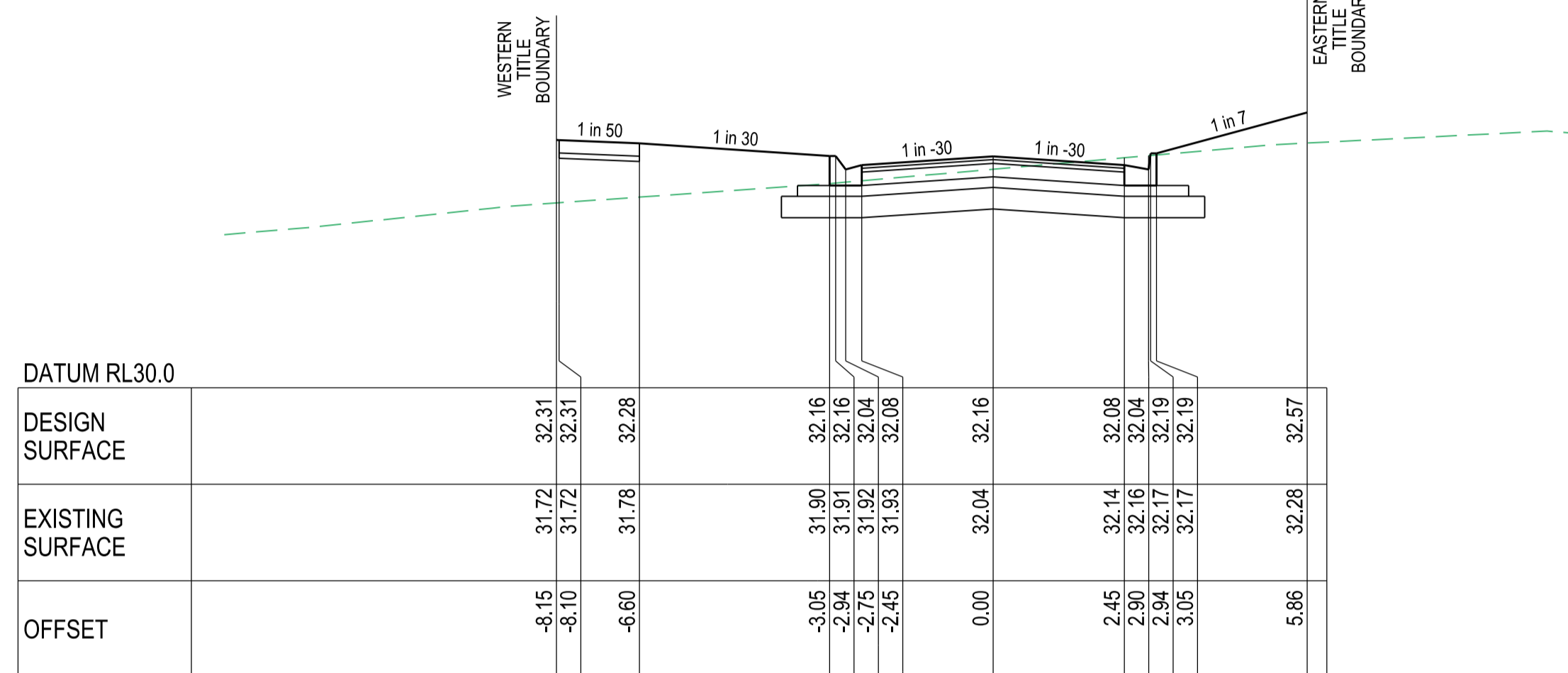
**LEGEND**

- EXISTING SURFACE
- DESIGN SURFACE
- TYPE A SELECTED MATERIAL FILL

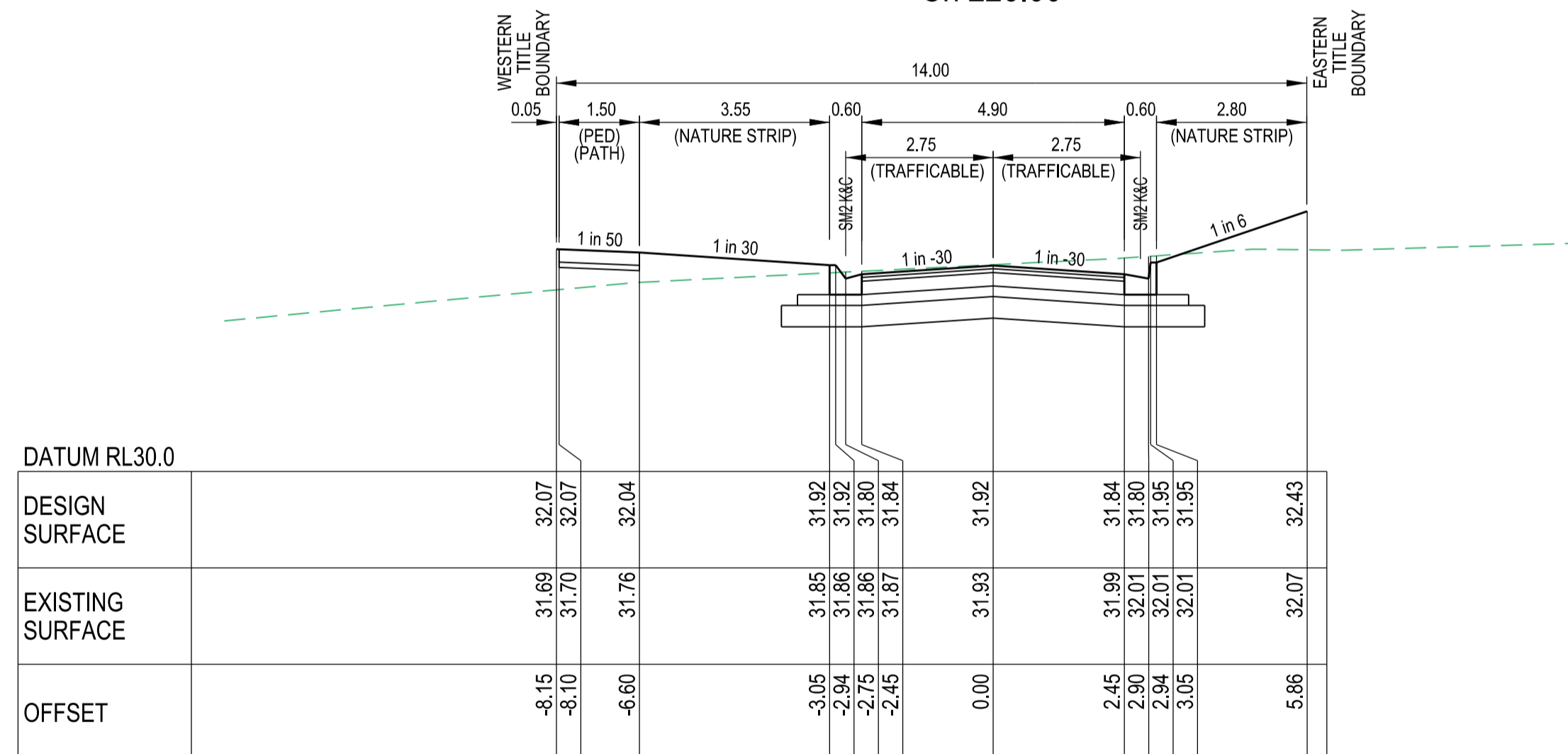
<b>breese pitt dixon pty. ltd.</b> land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
MELWAY REF. 135-B-5	<b>DELARAY ESTATE STAGE 19</b>		MUNICIPALITY CASEY
SURVEY BPD			REFERENCE 8974 <sup>E</sup> /19
DESIGN GL	CHECKED	SCALE AS SHOWN	DATUM AHD
DRAWN PG	DATE	DATE	DATE
VER	DATE	REMARKS	DATE



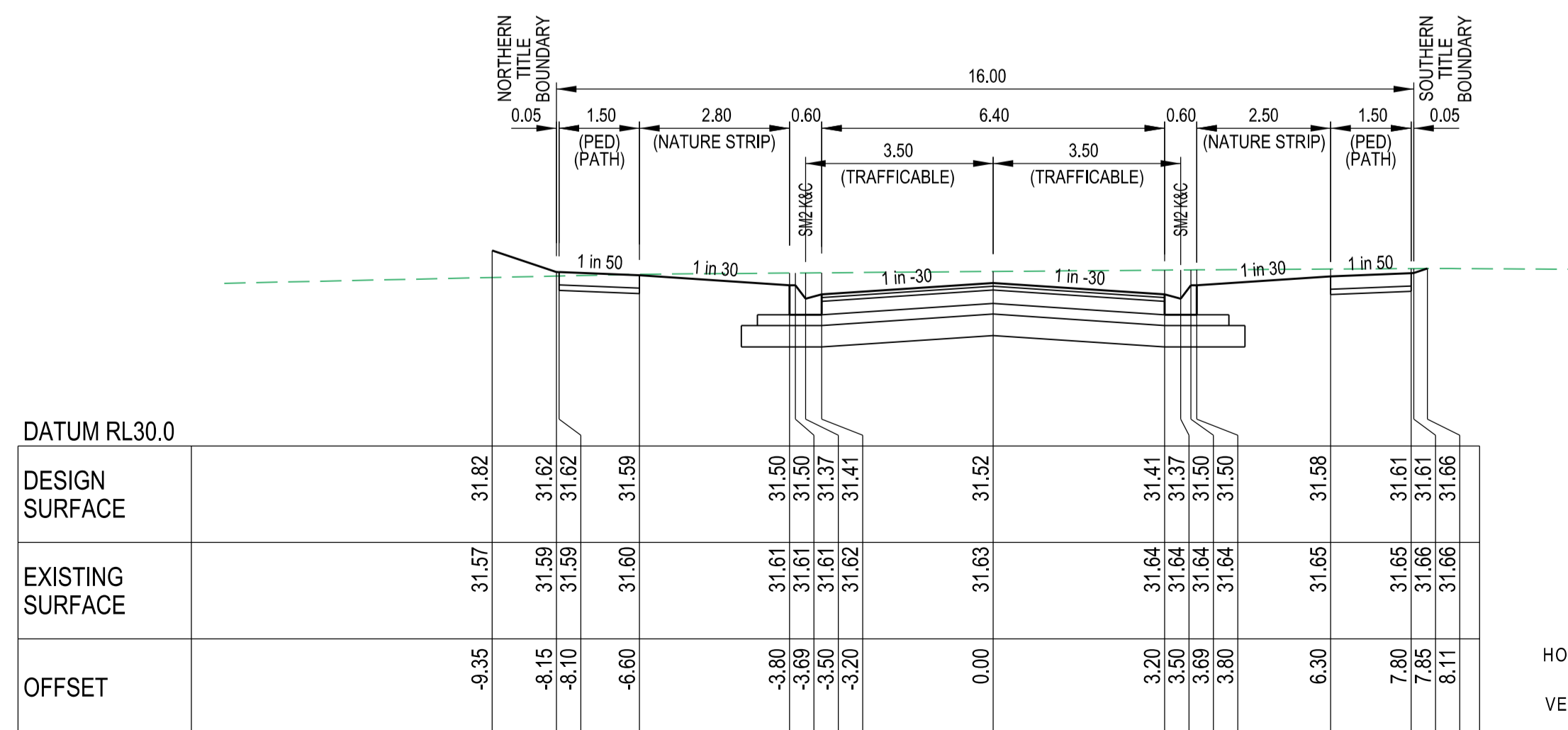
LTP Ch 249.95



Ch 226.00



LTP Ch 198.03

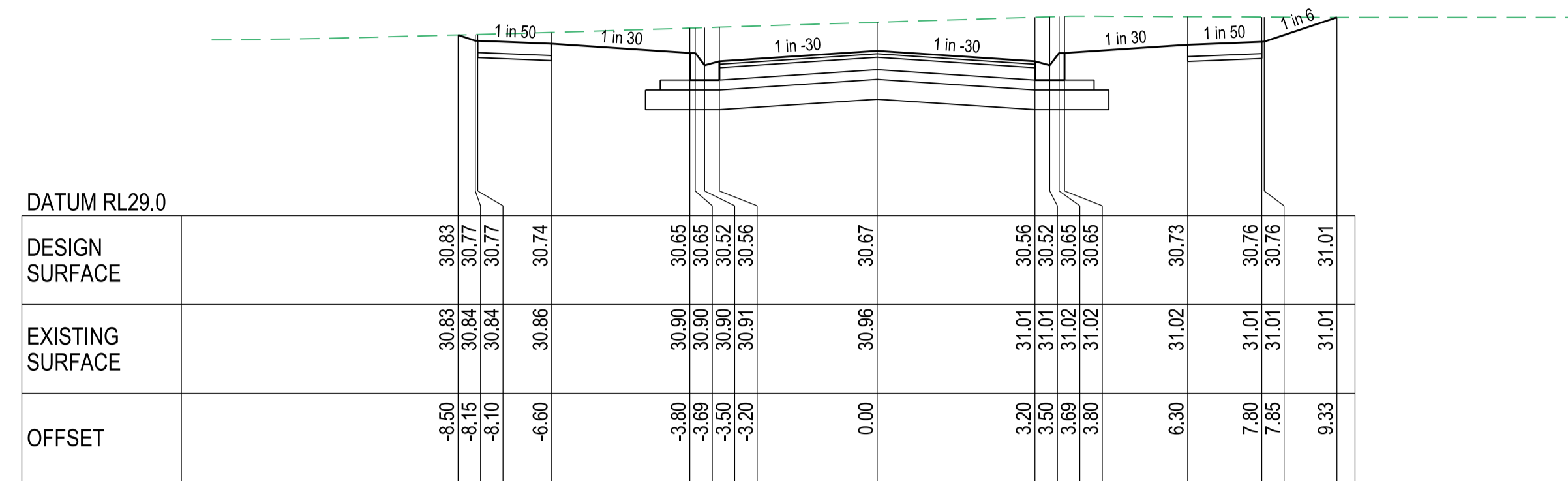
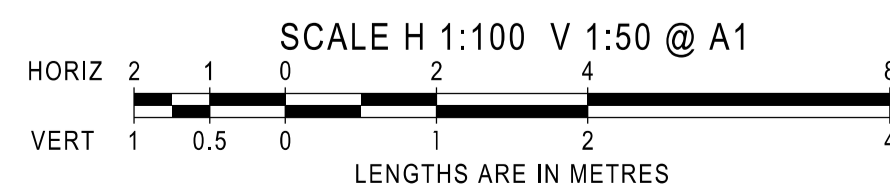


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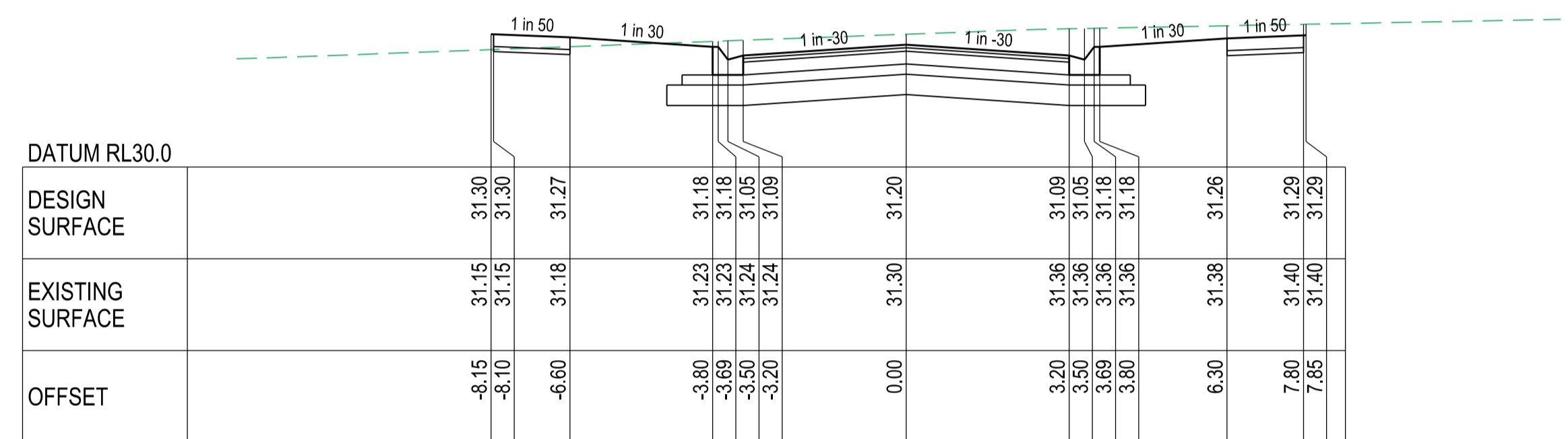
VIELO CIRCUIT

CROSS SECTIONS

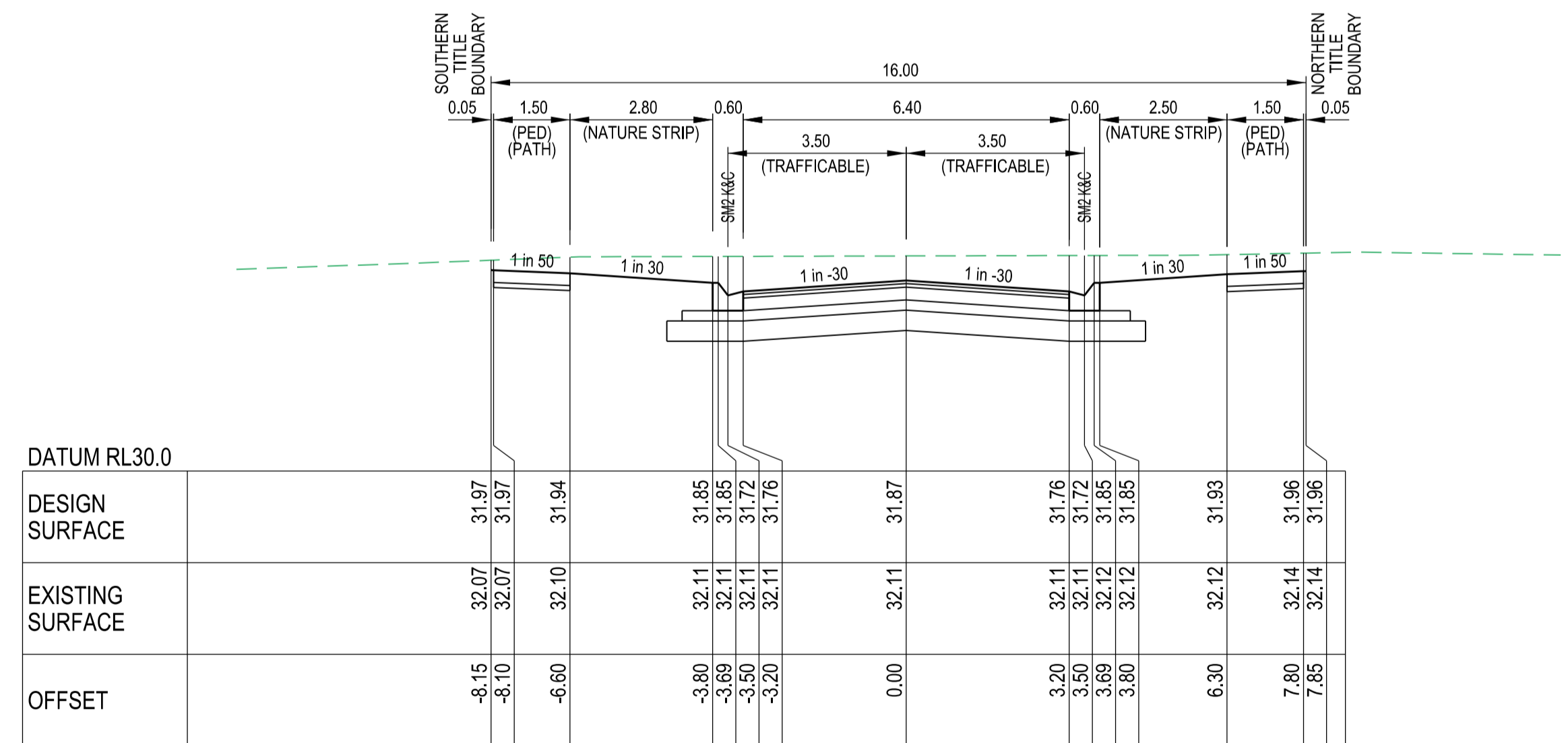
SCALE HORIZONTAL 1:100  
VERTICAL 1:50



Ch 317.33



Ch 292.33



LTP Ch 269.74

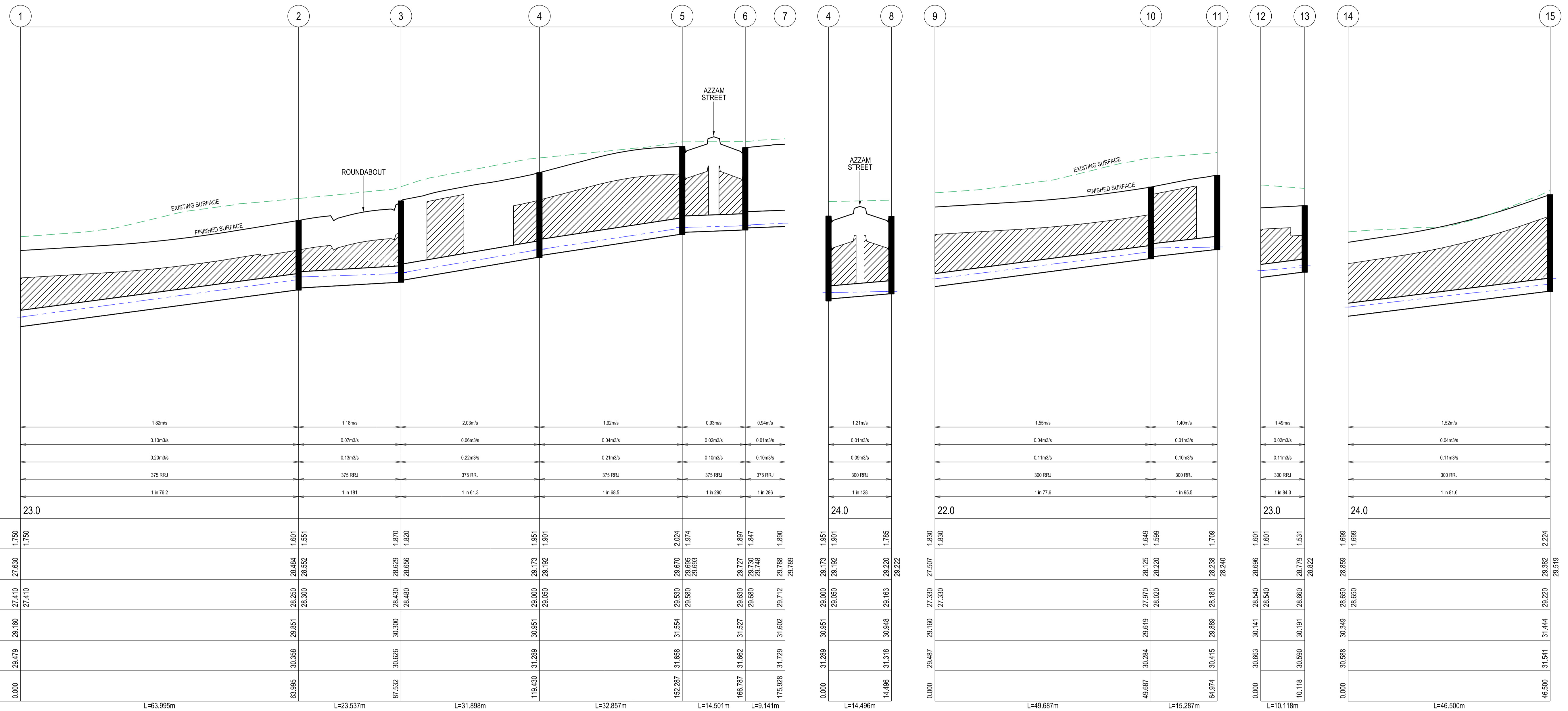
LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- ▨ TYPE A SELECTED MATERIAL FILL

AMENDMENTS		 breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		MELWAY REF. 135-B-5 SURVEY BPD DESIGN GL DRAWN PG		MUNICIPALITY <b>CASEY</b> REFERENCE 8974 E/19	
VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD
					DATE AUG '20
			SHEET 8 OF 12		P3

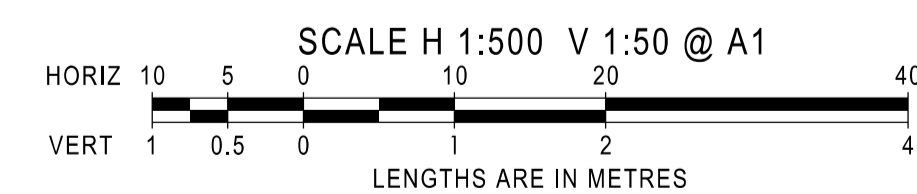






**DRAINAGE LONGITUDINAL SECTIONS**

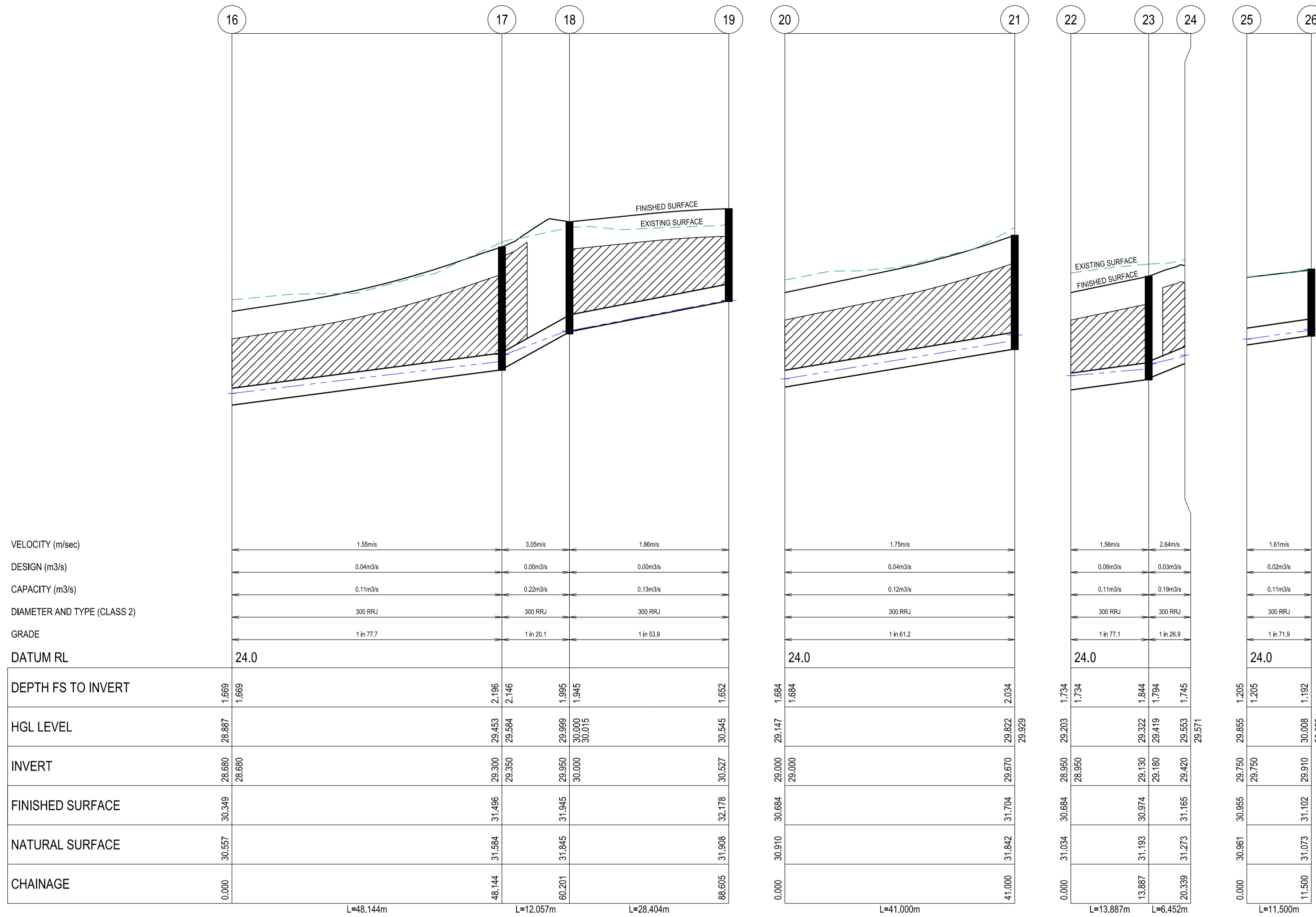
SCALE HORIZONTAL 1:500  
VERTICAL 1:50



- INDICATES CRUSHED ROCK BACKFILL
- INDICATES 5YR HGL
- INDICATES 100YR HGL

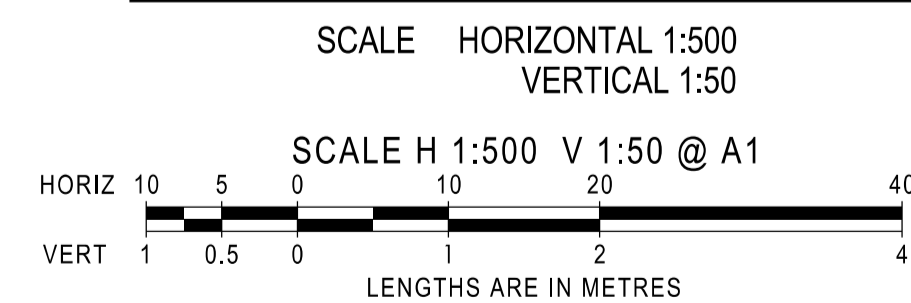
"LDA" INDICATES PIPES WITH LARGER DEFLECTION ANGLE TO BE ORDERED  
"SL" INDICATES PIPES WITH SACRIFICIAL LINING TO BE ORDERED

AMENDMENTS		 <b>breese pitt dixon pty. ltd.</b> land surveyors      civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		MELWAY REF. 135-B-5 SURVEY BPD DESIGN GL DRAWN PG		<b>DELARAY ESTATE STAGE 19</b>	
		CHECKED		MUNICIPALITY <b>CASEY</b>	
		SCALE AS SHOWN    DATUM AHD    DATE AUG '20		REFERENCE <b>8974 E/19</b>	
VER	DATE	REMARKS		SHEET 10 OF 12	P3



PIT SCHEDULE										
PIT No.	PIT TYPE	LENGTH	WIDTH	IN INVERT	IN DIA.	OUT INVERT	OUT DIA.	COVER RL	DEPTH	NOTES
1	ENDPIPE			27.41	375			29.16	1.75	CONNECT TO EX PIPE
2	GRATED ENTRY PIT (SM2)	900	600	28.30	375	28.25	375	29.85	1.60	VPASTD DWG EDCM 603
3	GRATED ENTRY PIT (SM2)	900	600	28.48	375	28.43	375	30.30	1.87	VPASTD DWG EDCM 603
4	GRATED ENTRY PIT (SM2)	900	600	29.05	375	29.00	375	30.95	1.95	VPASTD DWG EDCM 603
				29.05	300					
5	GRATED ENTRY PIT (SM2)	900	600	29.58	375	29.53	375	31.55	2.02	VPASTD DWG EDCM 603
6	GRATED ENTRY PIT (SM2)	900	600	29.68	375	29.63	375	31.53	1.90	VPASTD DWG EDCM 603
7	ENDPIPE					29.71	375	31.60	1.89	CONNECT TO EX PIPE
8	GRATED ENTRY PIT (SM2)	900	600			29.16	300	30.95	1.79	VPASTD DWG EDCM 603
9	ENDPIPE			27.33	300			29.16	1.83	
10	GRATED ENTRY PIT (SM2)	900	600	28.02	300	27.97	300	29.62	1.65	VPASTD DWG EDCM 603
11	JUNCTION PIT	900	600			28.18	300	29.89	1.71	VPASTD DWG EDCM 605
12	ENDPIPE			28.54	300			30.14	1.60	CONNECT TO EX PIPE
13	GRATED ENTRY PIT (SM2)	900	600			28.66	300	30.19	1.53	VPASTD DWG EDCM 603
14	ENDPIPE			28.65	300			30.35	1.70	CONNECT TO EX PIPE
15	GRATED ENTRY PIT (SM2)	900	600			29.22	300	31.44	2.22	VPASTD DWG EDCM 603
16	ENDPIPE			28.68	300			30.35	1.67	
17	GRATED ENTRY PIT (SM2)	900	600	29.35	300	29.30	300	31.50	2.20	VPASTD DWG EDCM 603
18	GRATED ENTRY PIT (SM2)	900	600	30.00	300	29.95	300	31.95	2.00	VPASTD DWG EDCM 603
19	JUNCTION PIT	900	600			30.53	300	32.18	1.65	VPASTD DWG EDCM 605
20	ENDPIPE			29.00	300			30.68	1.68	CONNECT TO EX PIPE
21	GRATED ENTRY PIT (SM2)	900	600			29.67	300	31.70	2.03	VPASTD DWG EDCM 603
22	ENDPIPE			28.95	300			30.68	1.73	CONNECT TO EX PIPE
23	GRATED ENTRY PIT (SM2)	900	600	29.18	300	29.13	300	30.97	1.84	
24	ENDPIPE					29.42	300	31.17	1.75	
25	ENDPIPE			29.75	300			30.96	1.21	CONNECT TO EX PIPE
26	JUNCTION PIT	900	600			29.91	300	31.10	1.19	VPASTD DWG EDCM 605

**DRAINAGE LONGITUDINAL SECTIONS**






- INDICATES CRUSHED ROCK BACKFILL
- INDICATES 5YR HGL
- INDICATES 100YR HGL
- "LDA" INDICATES PIPES WITH LARGER DEFLECTION ANGLE TO BE ORDERED
- "SL" INDICATES PIPES WITH SACRIFICIAL LINING TO BE ORDERED


AMENDMENTS		 <b>breese pitt dixon pty. ltd.</b> land surveyors civil engineers		MELWAY REF. 135-B-5		<b>DELARAY ESTATE</b> <b>STAGE 19</b>		MUNICIPALITY	
				SURVEY BPD				CASEY	
				DESIGN GL				REFERENCE	
				DRAWN PG				8974 <sup>E</sup> /19	
VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD	DATE AUG '20	SHEET 11 OF 12	P3	





**SIGNAGE LEGEND**

- [A] STREET SIGNS
- [B] STREET SIGNS (2 No) AT CENTRE OF ROUNDABOUT
- [C] ROUNDABOUT SIGN (R1-3A) - CLASS 1 
- [D] ROUNDABOUT AHEAD WARNING SIGN (W2-7A) CLASS 1 
- [E] KEEP LEFT (R2-3AL) - CLASS 1 

**NOTES**

- a) ALL SIGNS TO BE SLEEVED USING A SL27 SLEEVE WITH A MINIMUM OF 2 WEDGES.
- b) HAZARD / DIRECTIONAL TGS'S SHOWN THUS  AND FOOTPATH RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH VICROADS STD DWGS SD2031 TO SD2035. TGS'S SHALL CONFORM TO AS1428.4
- c) ALL SIGNS TO BE INSTALLED IN ACCORDANCE WITH MCC205

**SIGNAGE & LINE MARKING PLAN**  
 SCALE 1:500  
 SCALE 1:500 @ A1  
  
 LENGTHS ARE IN METRES

AMENDMENTS		 <b>breese pitt dixon pty. ltd.</b> land surveyors civil engineers		1/19 cato street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310	
		MELWAY REF. 135-B-5	<b>DELARAY ESTATE          STAGE 19</b>		MUNICIPALITY CASEY
		SURVEY BPD			REFERENCE 8974 E/19
		DESIGN GL			
		DRAWN PG	CHECKED	SCALE AS SHOWN	DATUM AHD
VER	DATE	REMARKS	CHECKED	SCALE AS SHOWN	DATUM AHD
				DATE AUG '20	SHEET 12 OF 12 P3