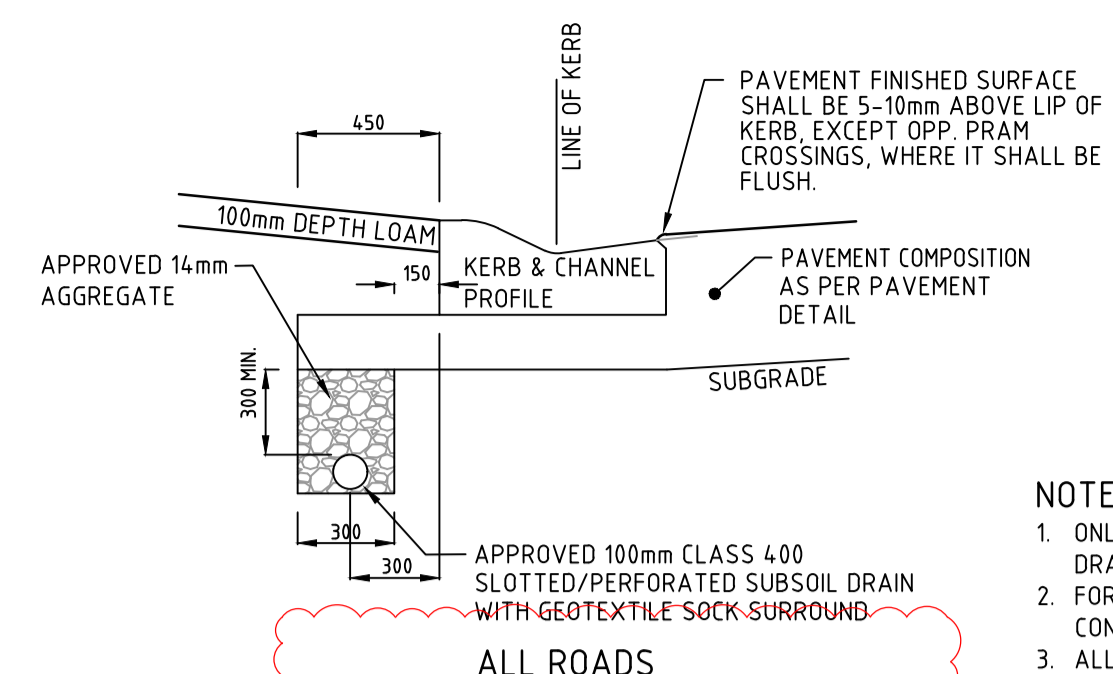


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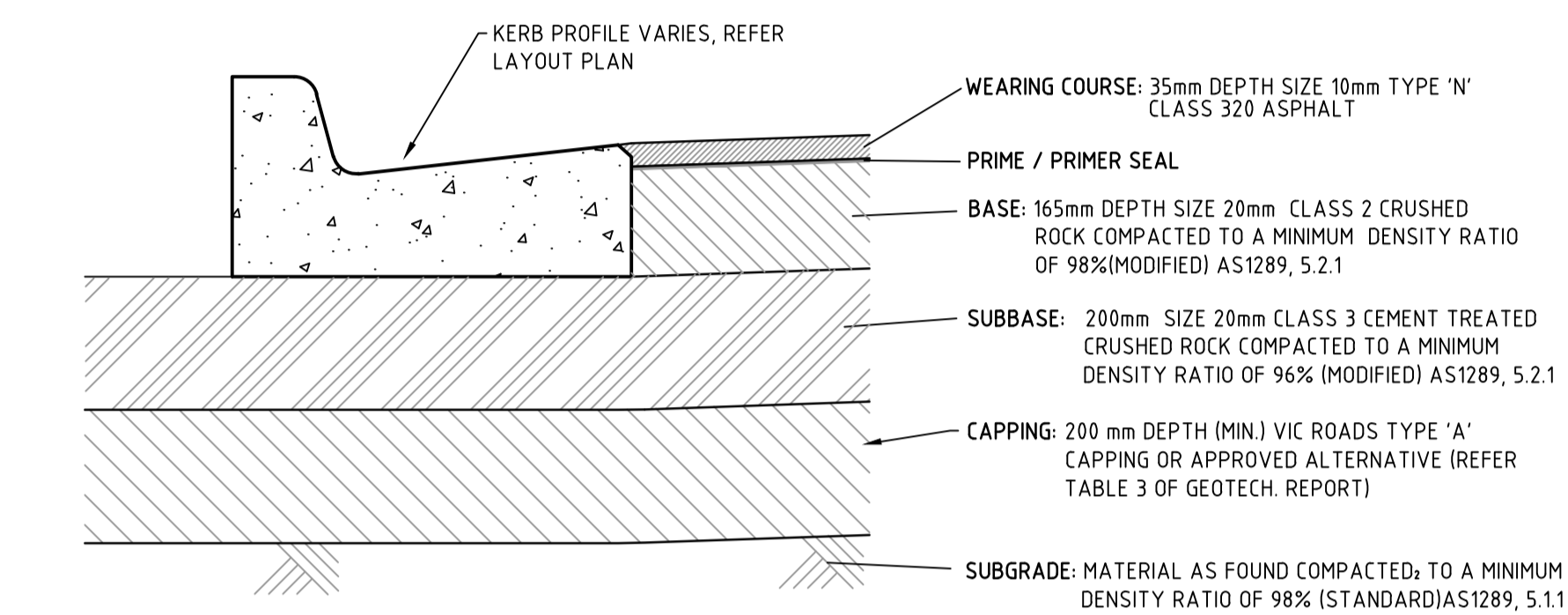
- THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS. WORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERVISING OFFICER.
- THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION. THEY SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.
- THE CONTRACTOR SHALL:
 - COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982.
 - NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 15 METRES OR DEEPER.
 - ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
- THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVANT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED FROM THE SITE PRIOR TO THE COMMENCEMENT OF WORKS. NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY EXISTING TREE UNTIL APPROVAL HAS BEEN GIVEN BY COUNCIL'S SUPERVISING OFFICER. THE REMOVAL OR RETENTION OF EXISTING TREES MUST BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLANS. OTHERWISE, APPROVAL WILL BE REQUIRED FROM THE LANDSCAPE APPROVAL OFFICER.
- ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHEADS, WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS, WRITTEN DIMENSIONS ONLY SHALL BE USED.
- CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT. CONDUITS TO BE PLACED A MINIMUM OF 5m FROM BOUNDARIES/EASEMENTS AND TO THE SATISFACTION OF THE SUPERINTENDENT. BOTH KERBS ARE TO BE MARKED WITH THE LETTERS G,W,E AND T ABOVE CONDUIT LOCATIONS AS SPECIFIED. TELSTRA CONDUITS WILL BE SUPPLIED BY TELSTRA AT TELSTRA'S EXPENSE, IN TRENCHES EXCAVATED AND BACKFILLED BY THE CONTRACTOR. TELSTRA SIZE VARIES - WHITE P.V.C. TELSTRA TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS. GAS AND WATER CONDUITS TO BE 50mm DIA. HEAVY DUTY P.V.C. LAID AT A MINIMUM DEPTH OF 600mm BELOW ROAD FINISHED SURFACE LEVELS.
- SUBSOIL DRAINS SHALL BE INSTALLED BEHIND ALL KERB AND CHANNEL AS PER COUNCIL SPECIFICATION AND STANDARD DRAWINGS.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
- THE CONTRACTOR SHALL CO-OPERATE WITH OTHER AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE. THE CONTRACTOR SHALL CHECK WITH THE SUPERINTENDENT THE EXACT LOCATION OF ALL SERVICES PRIOR TO THE INSTALLATION OF CONDUITS.
- ANY EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE COUNCIL REPRESENTATIVE.
- FILLING IN PROPERTIES AND ROAD RESERVE IS TO BE CARRIED OUT USING APPROVED CLAY FILL, TOPSOIL, AND ALL VEGETABLE MATTER TO BE STRIPPED FROM FILL SITE PRIOR TO FILLING. ALL FILLING TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED TO 95% OF MAX. DRY DENSITY UNDER THE STANDARD AASHTO TEST. ALL FILLING TO COMPLY WITH AS 3798/1996, APPENDIX B, LEVEL 1. INDIVIDUAL LOT CERTIFICATES ARE TO BE PROVIDED TO THE SUPERINTENDENT. IF ANY EXISTING SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE, IT MUST BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL COMPACTED TO COUNCIL REQUIREMENTS. A GEOTECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
- THE NATURE STRIPS AND CUT OR FILLED AREAS ARE TO BE TOPSOILED WITH 75mm OF APPROVED MATERIAL. IF THE LOCAL SOIL IS NOT SUITABLE, APPROVED SOIL SHALL BE IMPORTED AT THE CONTRACTOR'S EXPENSE.
- UNLESS OTHERWISE SHOWN, BATTERS INTO ALLOTMENTS SHALL NOT BE STEEPER THAN 1 IN 3 CUT AND 1 IN 6 FILL. CUT BATTERS ARE TO BE GRASSED AND MULCHED WITH A MIXTURE OF CHOPPED GRASS, STRAW AND BITUMEN EMULSION.
- LOTS SHALL BE GRADED TO ENSURE A MINIMUM GRADE OF 1 IN 150 ON THE LOWEST SIDE BOUNDARY TO THE POINT OF DRAINAGE.
- ALL 150Ø PIPES TO BE PVC (S110), 225Ø TO BE PVC (S110), RRJ R.C., STORMPRO OR BLACKMAX, 300Ø TO 600Ø INCLUSIVE TO BE RRJ R.C. ALL R.C. PIPES TO BE RUBBER RING JOINTED CLASS 2 UNLESS NOTED OTHERWISE.

- ALL PIPES UNDER ROAD PAVEMENT ARE TO BE CLASS 3 RRJ R.C.
- STORMWATER DRAINS UNDER PAVEMENTS, FOOTPATHS AND DRIVEWAYS TO BE BACKFILLED AS PER BALLARAT SD-D8-1, OPTION A. ROAD PAVEMENT, UNLESS SHOWN OTHERWISE.
 - STORMWATER DRAINS BEHIND KERB TO BE BACKFILLED AS PER BALLARAT SD-D8-1, OPTION B. ROAD SHOULDER, UNLESS SHOWN OTHERWISE.
 - TERRA FIRMA OR FIBREGLASS TYPE LIDS ARE REQUIRED FOR ALL DRAINAGE PITS AND ALL GRATES ARE TO BE CLASS D TO COMPLY WITH AS3996.
 - HOUSE DRAINS ARE TO BE CONNECTED DIRECTLY TO AN UNDERGROUND DRAIN OR PIT, IN COMPLIANCE WITH IDM STANDARD DRAWINGS SD515 OR SD516.
- ALL HOUSE DRAIN STORMWATER POINTS DISCHARGING TO THE FRONT OF THE ALLOTMENTS ARE TO BE LOCATED IN THE LOWEST CORNER OF THE ALLOTMENT AT AN OFFSET OF 0.6m FROM THE SIDE TITLE BOUNDARY.
- PROPERTY INLET PITS ARE TO BE LOCATED 1.0m FROM LOW SIDE BOUNDARY UNLESS OTHERWISE SHOWN. INVERT LEVEL OF PROPERTY INLET IS TO BE A MINIMUM OF 500mm BELOW FINISHED/EXISTING SURFACE LEVEL. A PROPERTY INLET GULLY BASIN IS NOT REQUIRED AT PROPERTY INLET POINTS.

- COUNCIL'S INFRASTRUCTURE WORKS SUPERVISION TO BE NOTIFIED TWO (2) CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
- A CCTV INSPECTION OF ALL DRAINAGE LINES IS TO BE UNDERTAKEN BY THE CONTRACTOR TO THE SATISFACTION OF COUNCIL'S WORK SUPERVISOR.
- DRIVEWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL'S STANDARDS. DRIVEWAYS TO BE LOCATED 1.2m FROM BUILDING LINE, BE CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TREES.
- ALL FOOTPATHS AND SHARED PEDESTRIAN/BICYCLE PATHS ARE TO BE 125mm THICK CONCRETE AS PER IDM SD 205. TACTILE GROUND SURFACE INDICATORS (TGSII) ARE TO BE INSTALLED AT ALL PRAM CROSSINGS AND PEDESTRIAN CROSS POINTS IN ACCORDANCE WITH AS1428.
- ALL STREET SIGNS ARE TO BE CURRENT CITY OF BALLARAT COUNCIL STANDARDS, INCLUDING PROVISION OF LOGO. NAME BLADES ARE TO COMPLY WITH CITY OF BALLARAT STANDARD DRAWING SD-501.
- SIGNS, PAVEMENT MARKINGS AND DELINEATORS ARE TO BE INSTALLED AS APPLICABLE IN ACCORDANCE WITH AS1742.2. ALL PAVEMENT MARKINGS TO BE LONG LIFE ROAD MARKING WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.
- NO SURPLUS TREES, VEGETATION OR OTHER MATERIALS IS TO BE BURNT ON SITE.
- ANY SOFT ROCK USED IS TO CONFORM TO THE CITY OF BALLARAT COUNCIL SPECIFICATION FOR RIPPED ROCK.
- APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.
- CONCRETE TO BE PLACED AROUND ELECTRICAL DISTRIBUTION PITS TO A MINIMUM DEPTH OF 200mm. DISTRIBUTION PITS TO BE A MINIMUM OF 300mm FROM EDGE OF FOOTPATHS.
- UPON COMPLETION OF CONSTRUCTION, THE WHOLE SITE SHALL BE CLEANED UP AND GRADED OVER. ALL RUBBISH IS TO BE REMOVED AND THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
- APPROVAL WILL BE REQUIRED FROM COUNCIL'S CONSERVATION OFFICER FOR ALTERATION, REMOVAL OR EXCAVATION OF ANY SIGNIFICANT EXISTING FEATURES, BUILDINGS, STRUCTURES OR VEGETATION.



PAVEMENT/SUBSOIL DRAIN DETAILS
TYPICAL DETAILS
NOT TO SCALE



CONNEWARRE AVENUE, STONY DRIVE & RUTLEDGE WAY
600mm TOTAL DEPTH (TO SUBGRADE)

PAVEMENT NOTES

- PAVEMENT DEPTHS SHALL BE MODIFIED IF DIRECTED BY THE SUPERINTENDENT.
- ANY CHANGE TO THE ABOVE PAVEMENTS SHALL BE APPROVED IN WRITING BY COUNCIL'S SUPERINTENDENT.
- INSPECTION AND TESTING OF PAVEMENTS SHALL BE CARRIED OUT TO COUNCIL SPECIFICATIONS.
- DEPTHS SHOWN ARE CONSOLIDATED THICKNESSES IN MILLIMETRES.

LEGEND

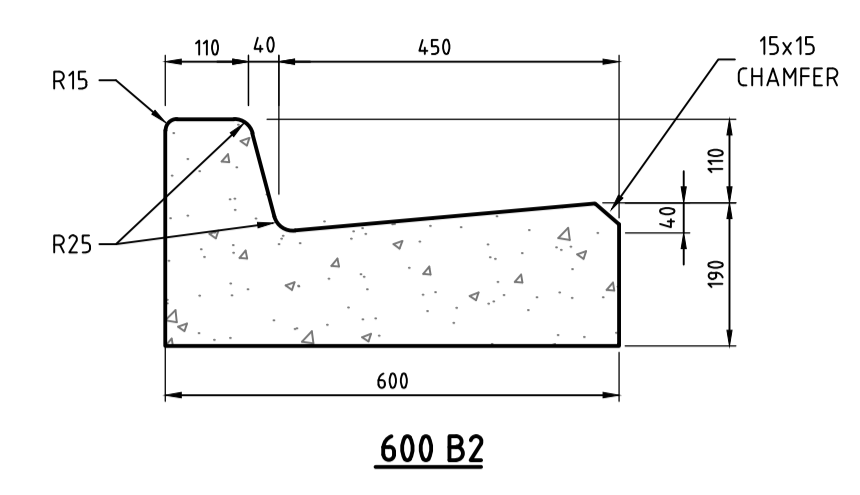
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12	FUTURE STAGE NUMBER
4	EXISTING STAGE NUMBER
5	PROPOSED STAGE NUMBER

TBM DATA

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2	-	-	-	-
3	-	-	-	-

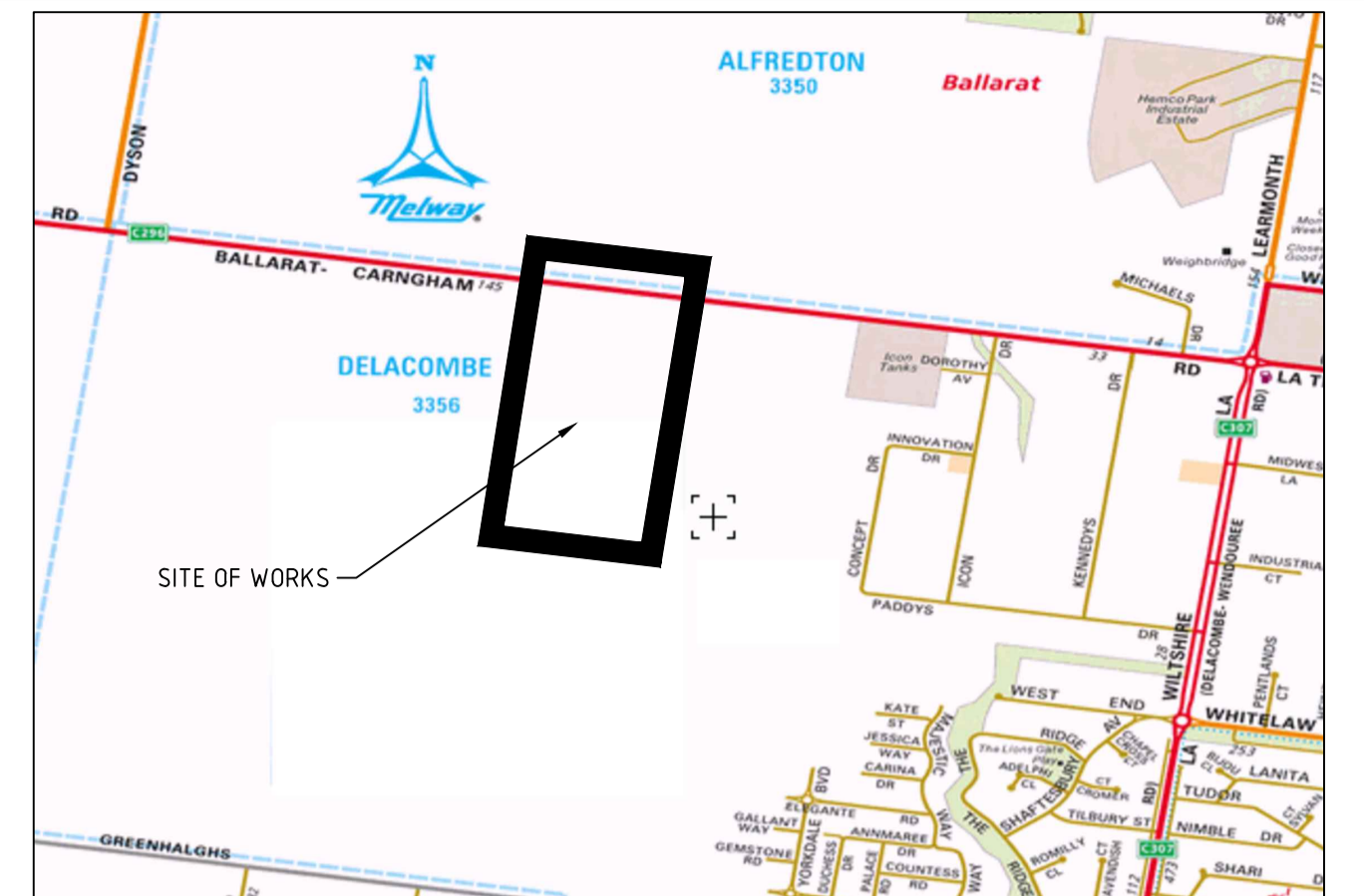
SERVICES CONTACTS

SERVICE	AUTHORITY	TELEPHONE
GAS	AUSNET SERVICES	136707
WATER/SEWERS	CENTRAL HIGHLANDS WATER	1800 061 514
ELECTRICITY	CITIPOWER	132 206
TELECOMMUNICATION	TELSTRA VIC/TAS	1800 653 935
PAVEMENTS AND DRAIN	CITY OF BALLARAT	(03) 5320 5500



600 B2

- NOTES:**
- ONLY PROVIDE AG DRAIN WHERE THERE ARE NO STORMWATER DRAINAGE PIPE RUNNING BEHIND THE BACK OF KERB.
 - FOR SUB-SOIL DRAINS UNDER TRAFFICKED AREAS NO FINES CONCRETE TRENCH BACKFILL SHALL BE USED.
 - ALL OTHER DETAILS SHALL CONFORM TO IDM SD 14.5.



LOCALITY PLAN



SITE PLAN

0 25 50 100
Scale 1:2500 @ A1

DRAWING INDEX

SHEET NO.	DRAWING TITLE
SR1	GENERAL NOTES, LOCALITY PLAN & DRAWING INDEX
SR2	LAYOUT PLAN
SR3	RUTLEDGE WAY: LONGITUDINAL & CROSS SECTIONS - 1
SR4	RUTLEDGE WAY: CROSS SECTIONS - 2
SR5	CONNEWARRE AVENUE: LONGITUDINAL AND CROSS SECTIONS
SR6	STONY DRIVE: LONGITUDINAL & CROSS SECTIONS
SR7	INTERSECTION DETAILS & LIP PROFILES
SR8	DRAINAGE LONG SECTION - 1
SR9	DRAINAGE LONG SECTION - 2
SR10	DRAINAGE PIT SCHEDULE
SR11	SIGNS & LINEMARKING PLAN

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

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VERSION	REMARKS	DATE	BY
C	AMENDMENT AS PER COUNCIL COMMENTS	10.01.23	LP
B	DRAINAGE BACKFILL	24.06.22	LP
A	ISSUE TO COUNCIL	16.06.22	LP

DRAWN BY	DESIGNED BY	CHECKED BY	AUTHORISED BY
N. ROBINSON	M. WEE	L. PHAN	H. DAY

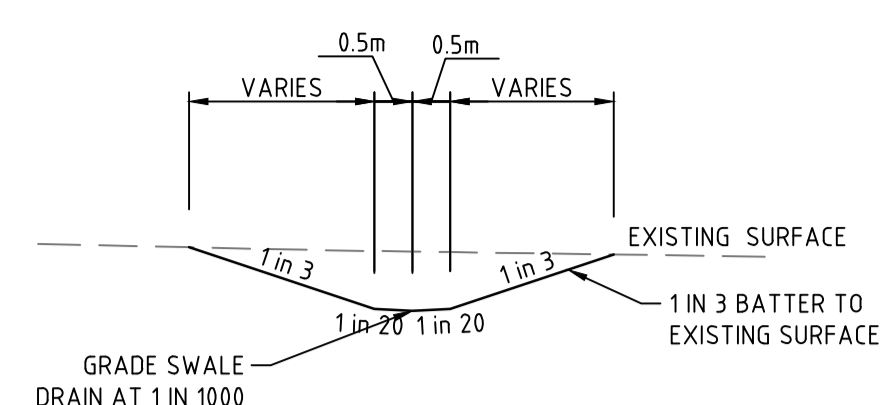
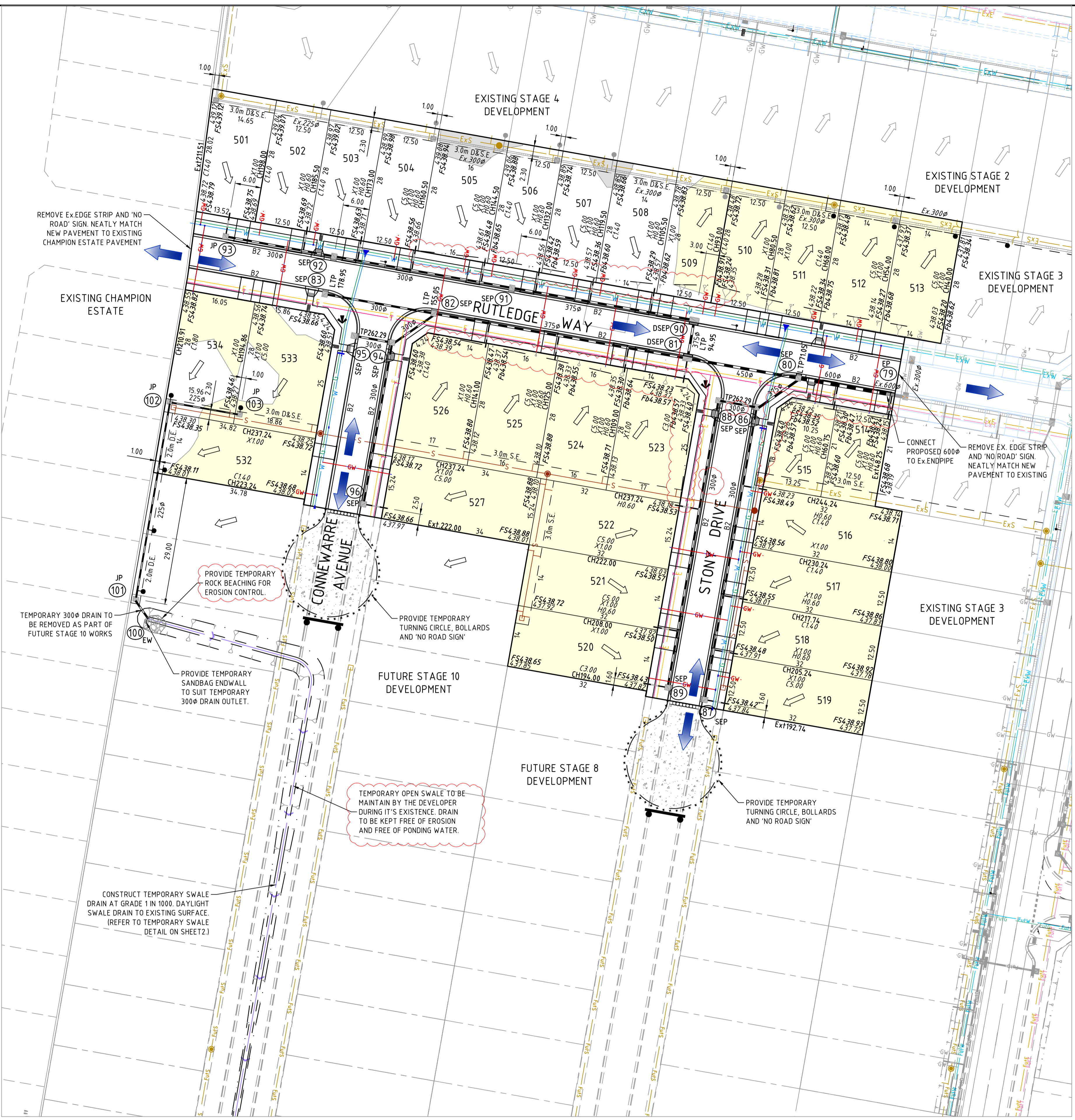
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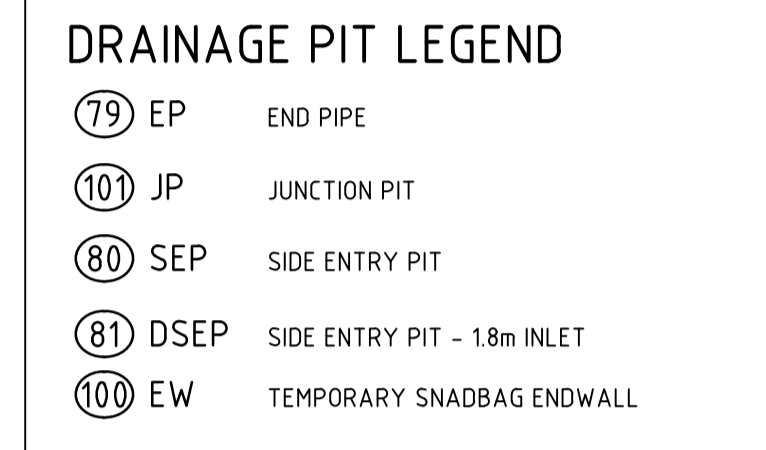
CITY OF BALLARAT
ALLUVIUM ESTATE, WINTER VALLEY
STAGE 5
GENERAL NOTES, LOCALITY PLAN
& DRAWING INDEX

DRAWING No.	VERSION
5R1	C
REFERENCE	22558E
SHEET	1 OF 11

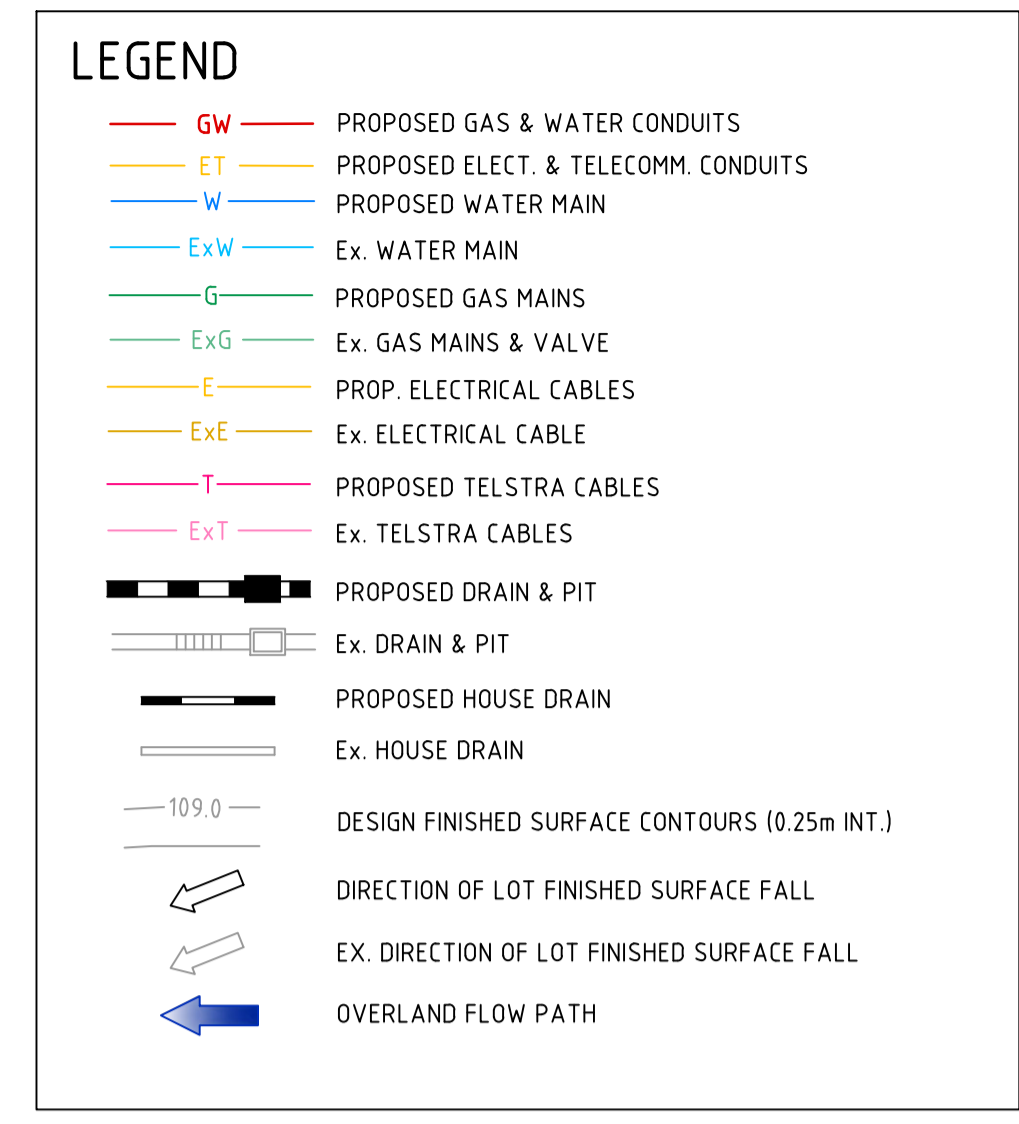
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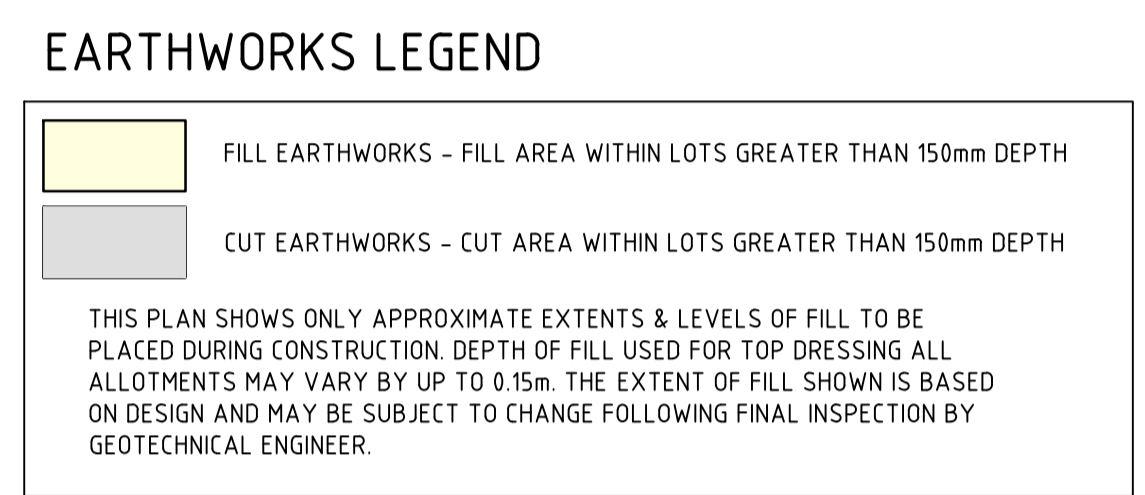
TEMPORARY SWALE DRAIN
N.T.S.



DRAINAGE PIT LEGEND



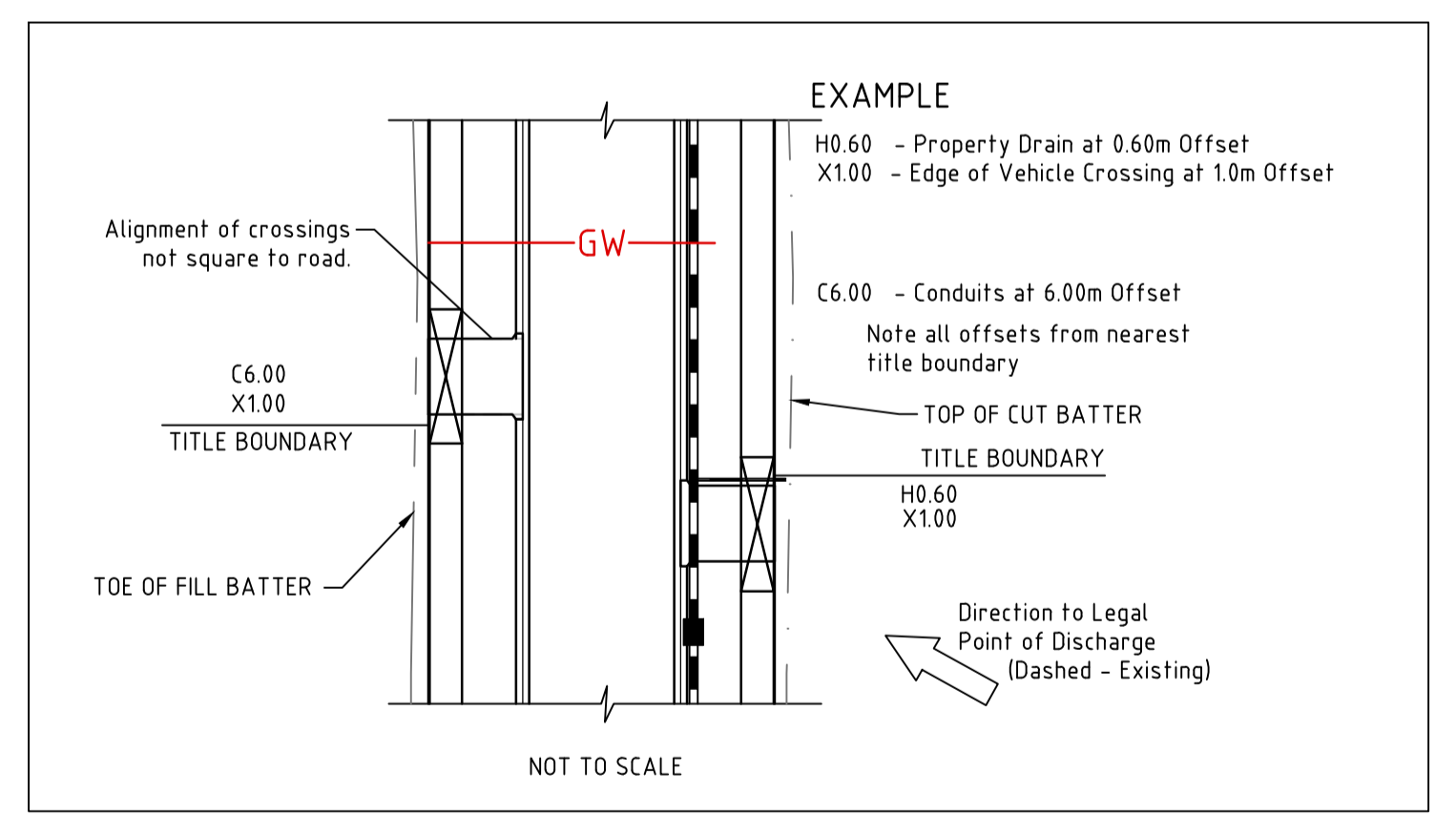
LEGEND



EARTHWORKS LEGEND

SERVICES SCHEDULE							
STREET NAME	GAS	D-WATER	TELSTRA	ELECT.	SEWER	TREES BOTH SIDES	ROAD RESERVE
RUTLEDGE WAY	2.25 N	2.85 N	1.85 S	2.60 S	N/A	1.00 B.O.K.	18.00
CONNEWARRE AVE.	2.10 W	2.60 W	1.85 E	2.60 E	N/A	1.00 B.O.K.	18.00
STONY DRIVE	2.10 E	2.60 E	1.85 W	2.60 W	N/A	1.00 B.O.K.	18.00

* DENOTES EXISTING SERVICE EXACT LOCATION TO BE PROVEN ON SITE BY CONTRACTOR. ALL OFFSETS ARE REFERENCED TO NEAREST BL.



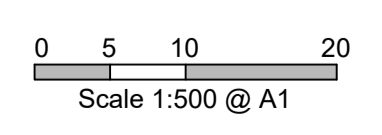
TYPICAL NOTATIONS - EXAMPLE

WARNING
BEWARE OF UNDERGROUND SERVICES
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B	AMENDMENT AS PER COUNCIL COMMENTS	10.01.23	LP
A	ISSUE TO COUNCIL	16.06.22	LP



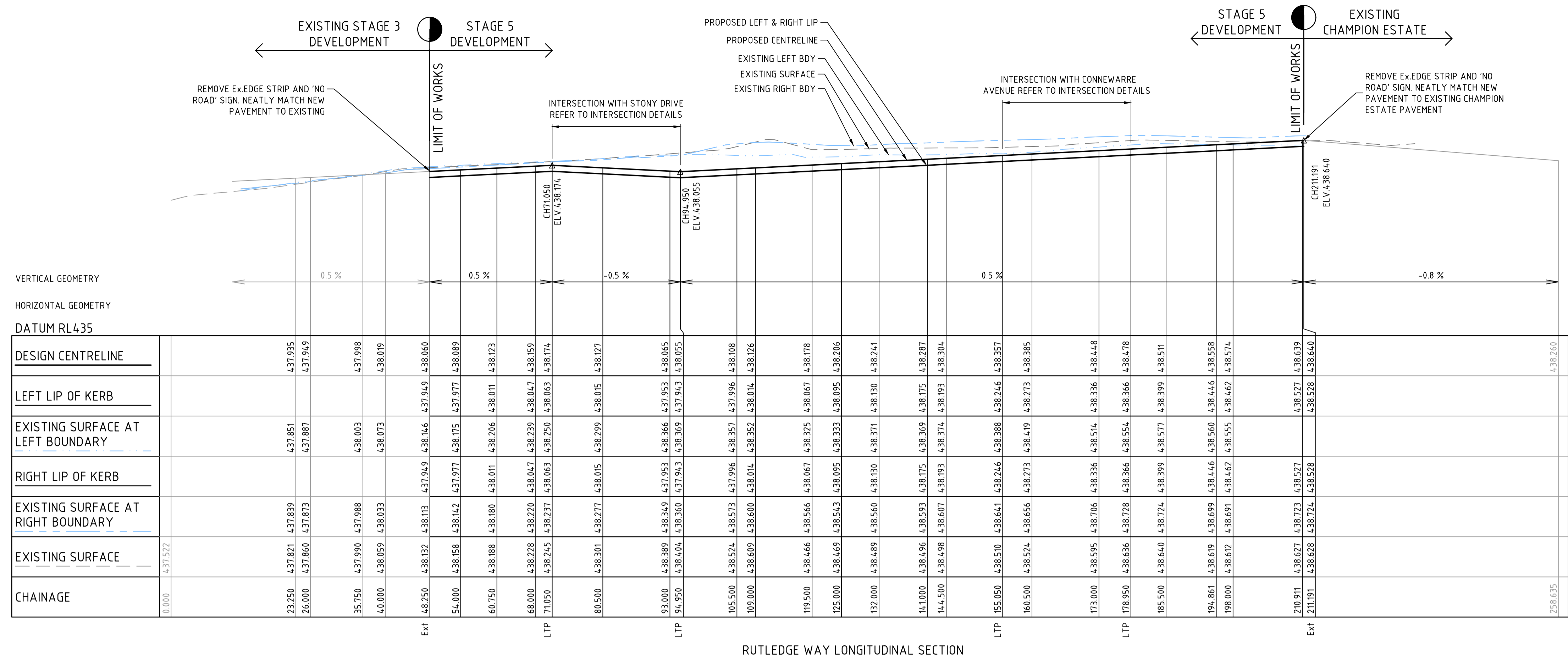
DRAWN BY	N. ROBINSON	DESIGNED BY	M. WEE
MELWAY		CHECKED BY	L. PHAN
DATUM	AHD	AUTHORISED BY	H. DAY

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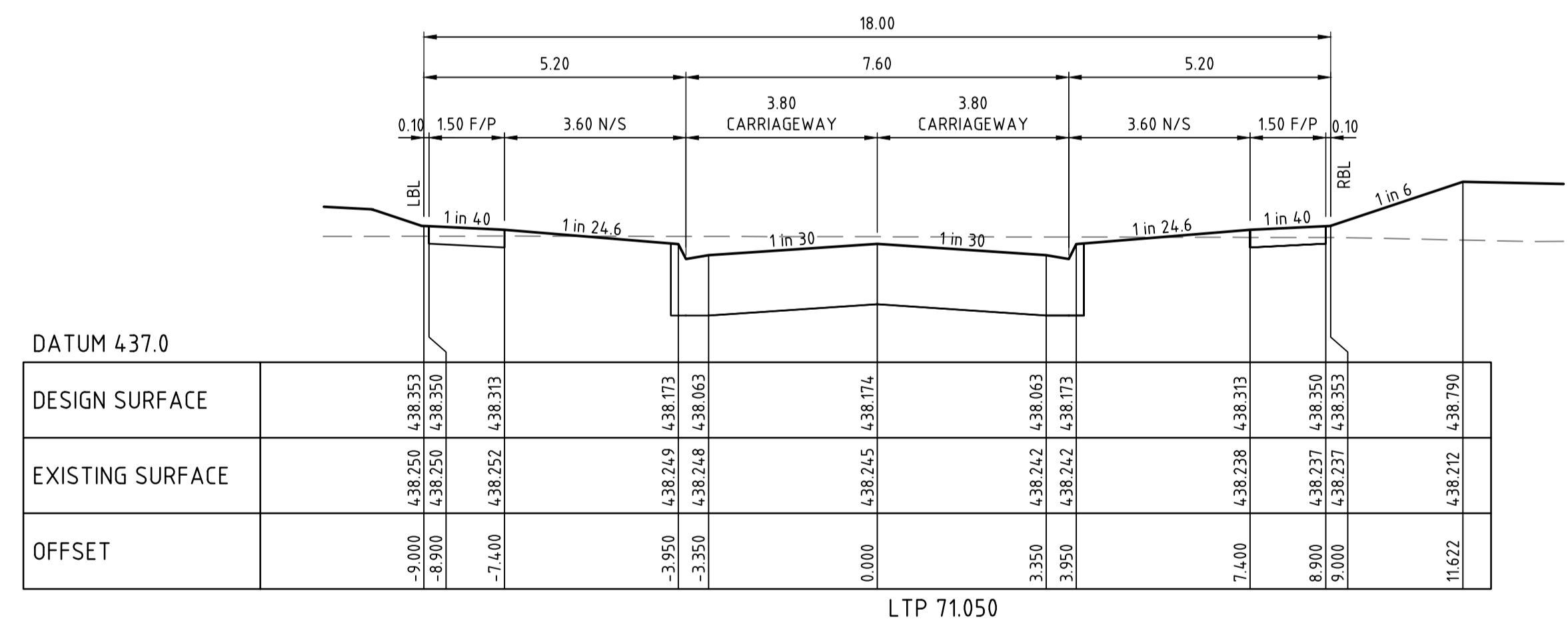
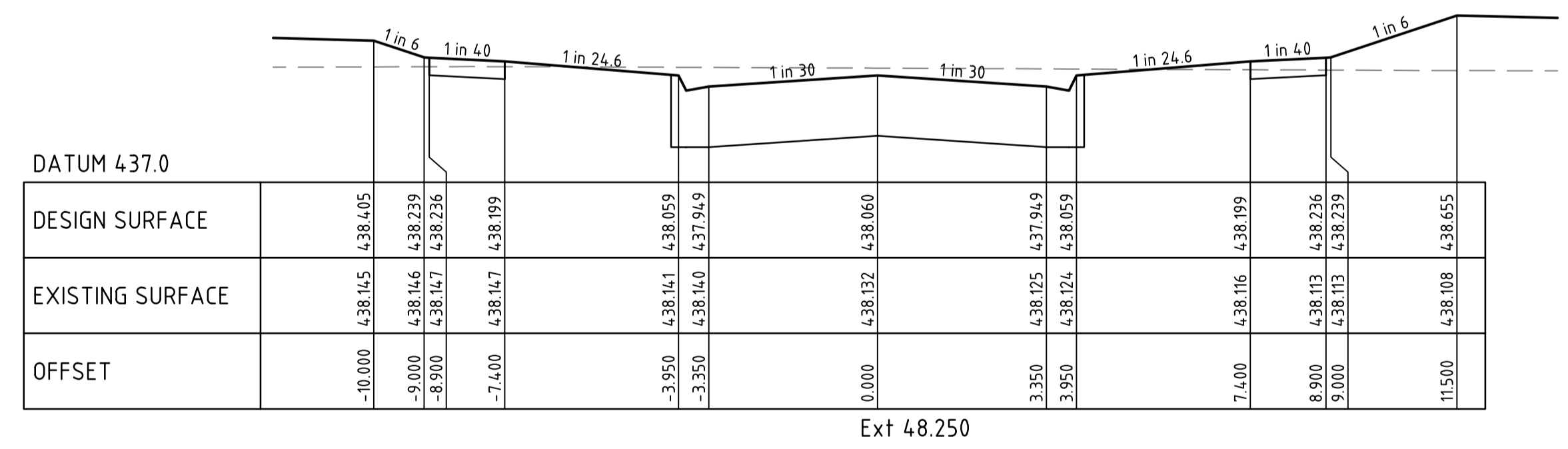
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CITY OF BALLARAT
ALLUVIUM ESTATE, WINTER VALLEY
STAGE 5
LAYOUT PLAN

DRAWING No.	5R2	VERSION	B
REFERENCE	22558E		
SHEET	5 OF 11		



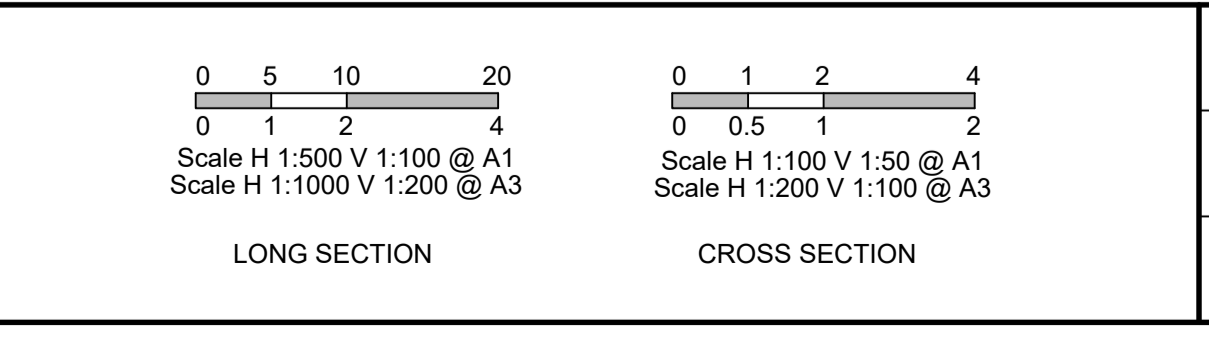
CHAINAGE	EXISTING SURFACE	EXISTING SURFACE AT RIGHT BOUNDARY	RIGHT LIP OF KERB	EXISTING SURFACE AT LEFT BOUNDARY	LEFT LIP OF KERB	DESIGN CENTRELINE
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23.250	437.821	437.839		437.851		437.935
26.000	437.860	437.873		437.867		437.949
35.750	437.990	437.988		438.003		437.998
40.000	438.059	438.033		438.073		438.019
48.250	438.132	438.113	437.949	438.116	437.949	438.060
54.000	438.158	438.142	437.977	438.175	437.977	438.089
60.750	438.188	438.180	438.011	438.206	438.011	438.123
68.000	438.228	438.220	438.047	438.239	438.047	438.159
71.050	438.245	438.237	438.063	438.250	438.063	438.174
80.500	438.301	438.277	438.015	438.299	438.015	438.127
93.000	438.389	438.349	437.953	438.366	437.953	438.065
94.950	438.404	438.380	437.943	438.369	437.943	438.055
105.500	438.524	438.573	437.996	438.357	437.996	438.108
109.000	438.609	438.600	438.014	438.352	438.014	438.126
119.500	438.466	438.566	438.067	438.325	438.067	438.178
125.000	438.469	438.543	438.095	438.333	438.095	438.206
132.000	438.489	438.560	438.130	438.371	438.130	438.241
141.000	438.496	438.593	438.175	438.369	438.175	438.287
144.500	438.498	438.607	438.193	438.374	438.193	438.304
155.050	438.510	438.641	438.246	438.388	438.246	438.357
160.500	438.524	438.656	438.273	438.419	438.273	438.385
173.000	438.595	438.706	438.336	438.514	438.336	438.448
178.950	438.636	438.728	438.366	438.554	438.366	438.478
185.500	438.640	438.724	438.399	438.577	438.399	438.511
194.861	438.619	438.699	438.446	438.560	438.446	438.558
198.000	438.612	438.691	438.462	438.555	438.462	438.574
210.911	438.627	438.773	438.577		438.577	438.639
211.191	438.628	438.774	438.528		438.528	438.640
256.055						438.260



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REMARKS			



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MELWAY	565, N10	CHECKED BY	L. PHAN
DATUM	AHD	AUTHORISED BY	H. DAY

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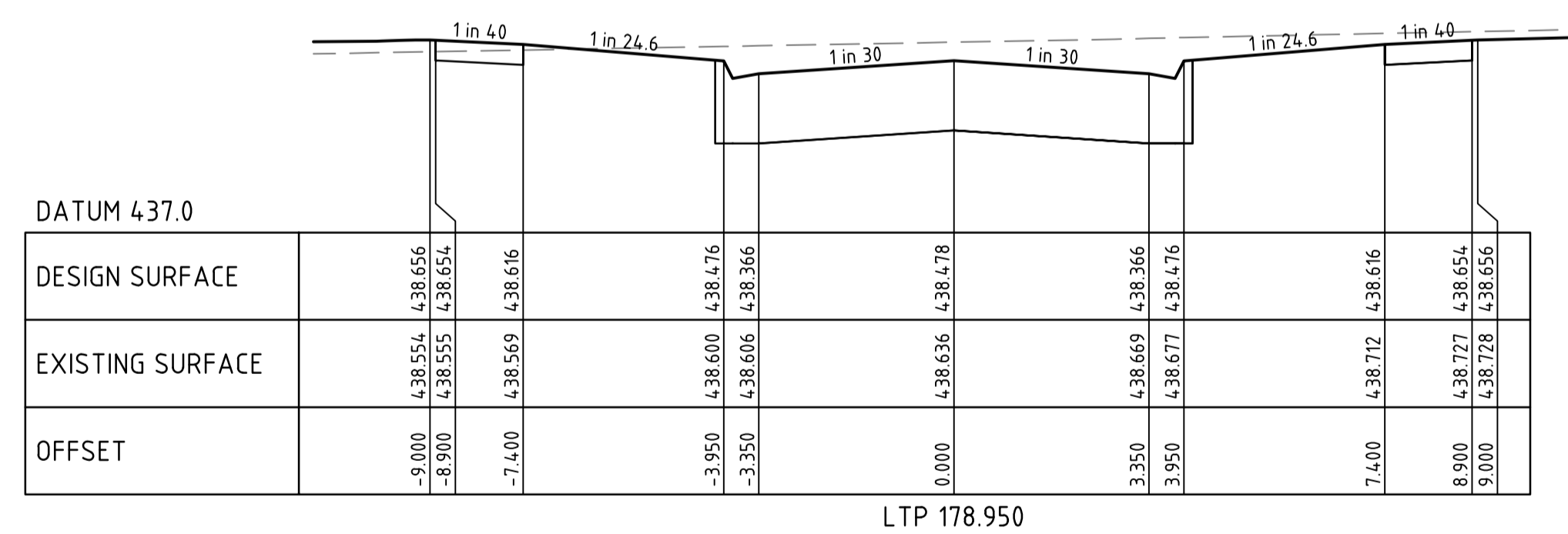
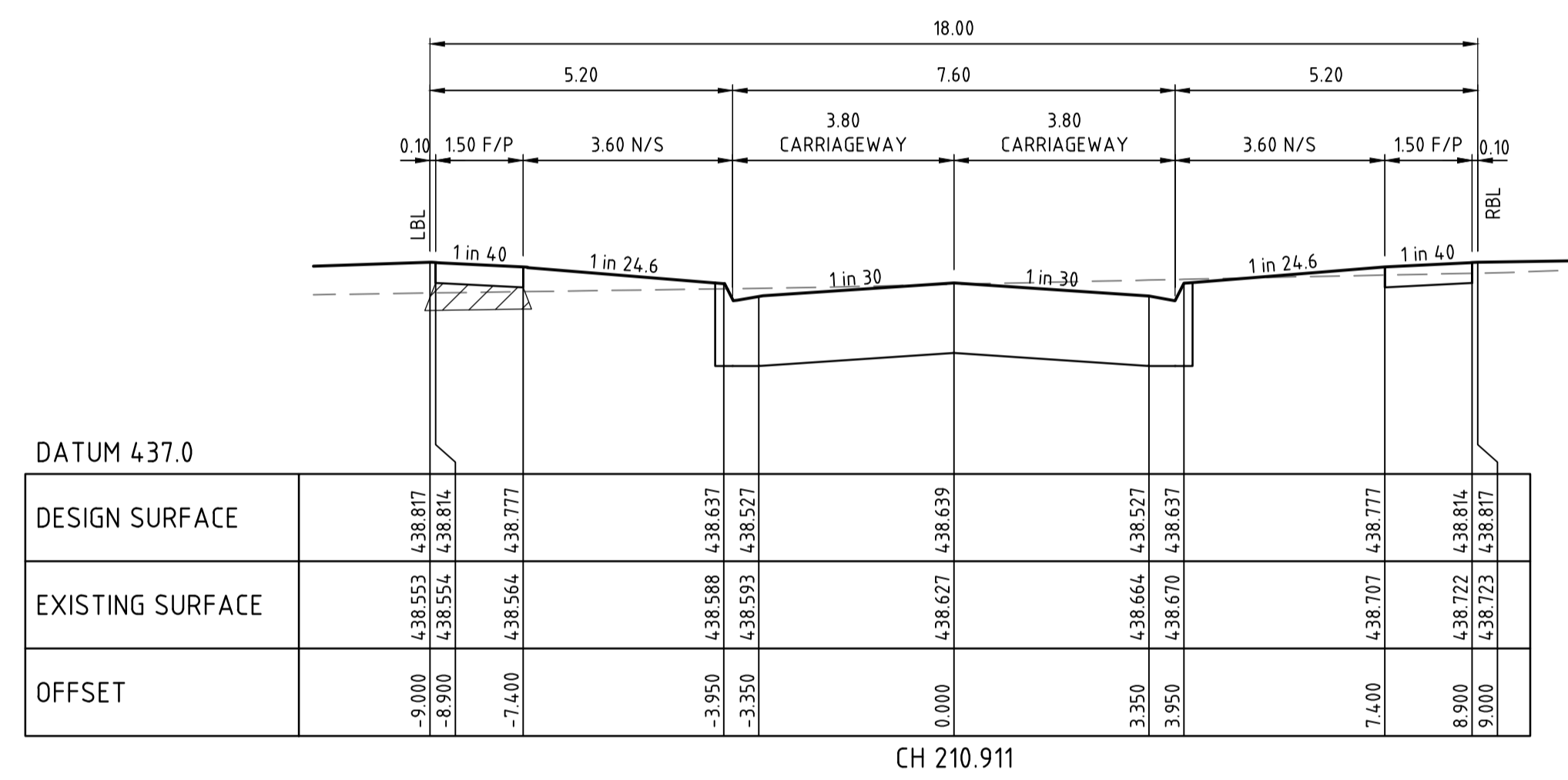
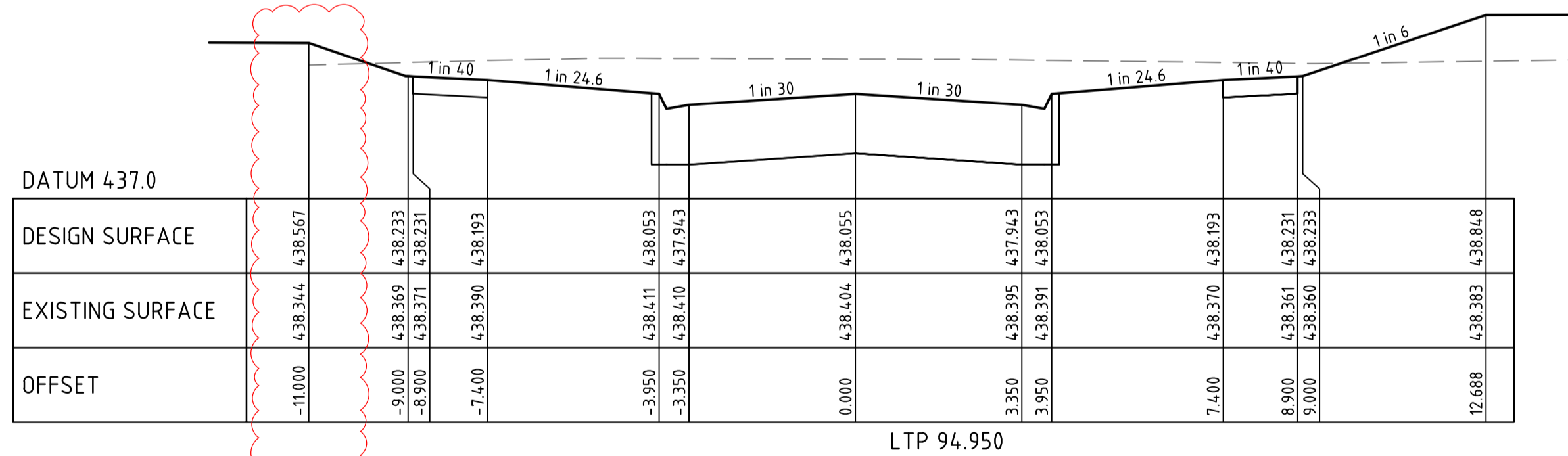
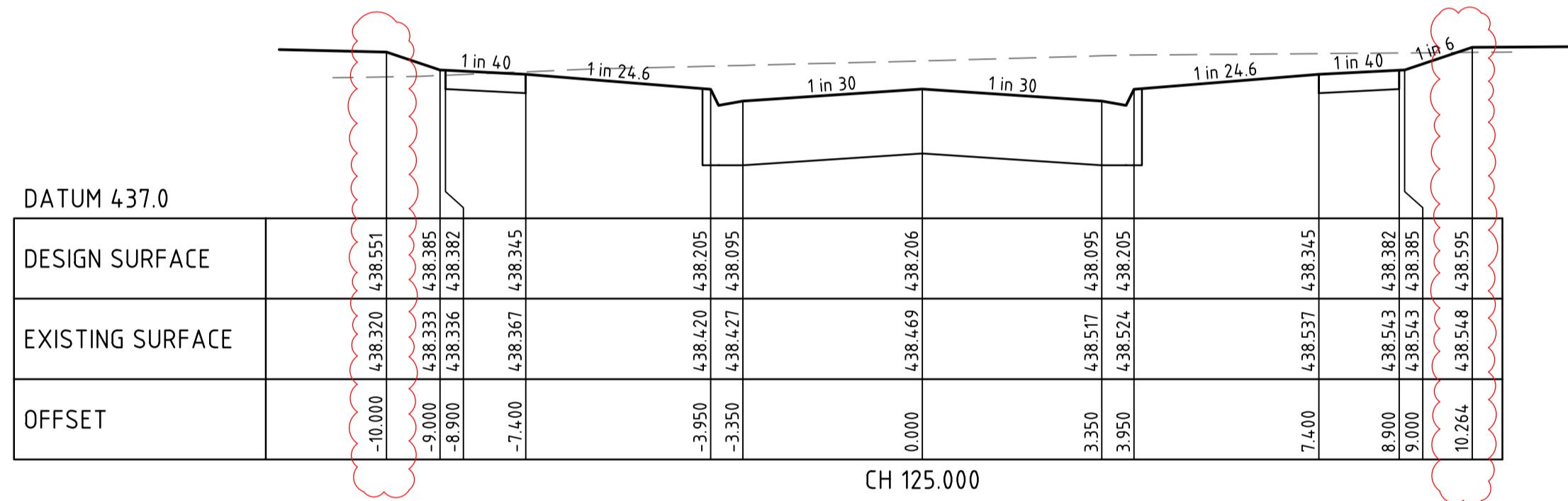
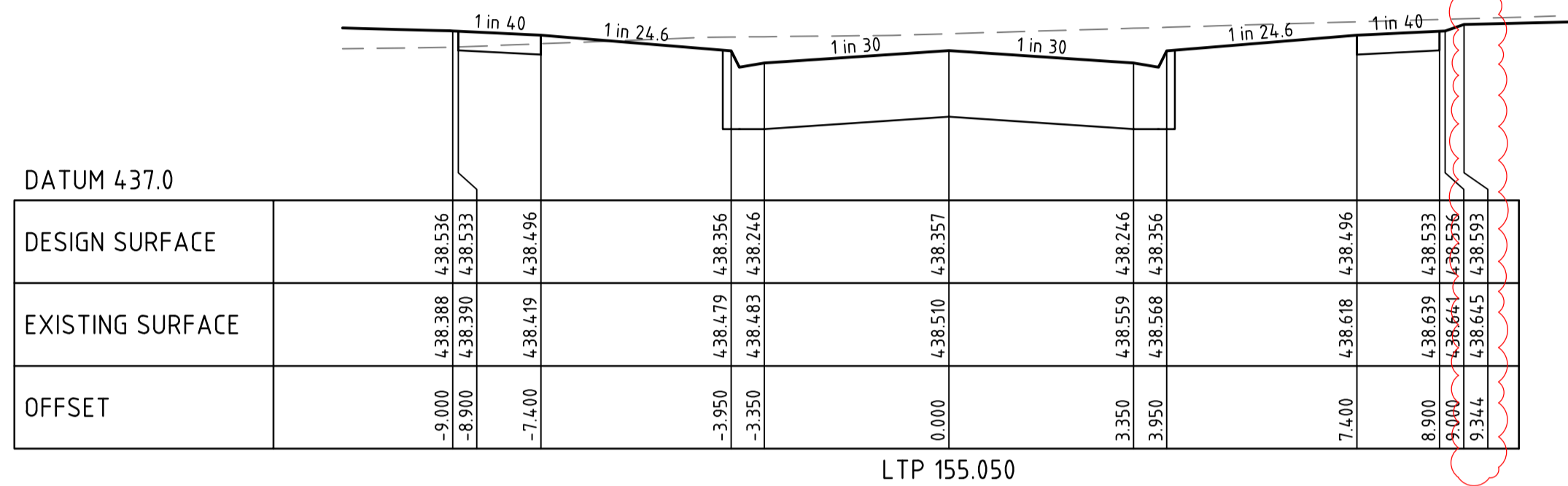
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CITY OF BALLARAT
ALLUVIUM ESTATE, WINTER VALLEY
STAGE 5
RUTLEDGE WAY
LONGITUDINAL & CROSS SECTIONS - 1

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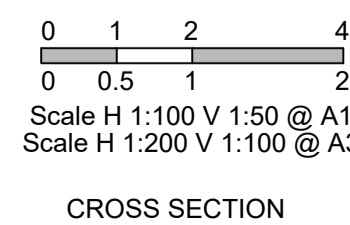
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REFERENCE	22558E		
SHEET	3	OF	11

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MELWAY		CHECKED BY	L. PHAN
DATUM	AHD	AUTHORISED BY	H. DAY



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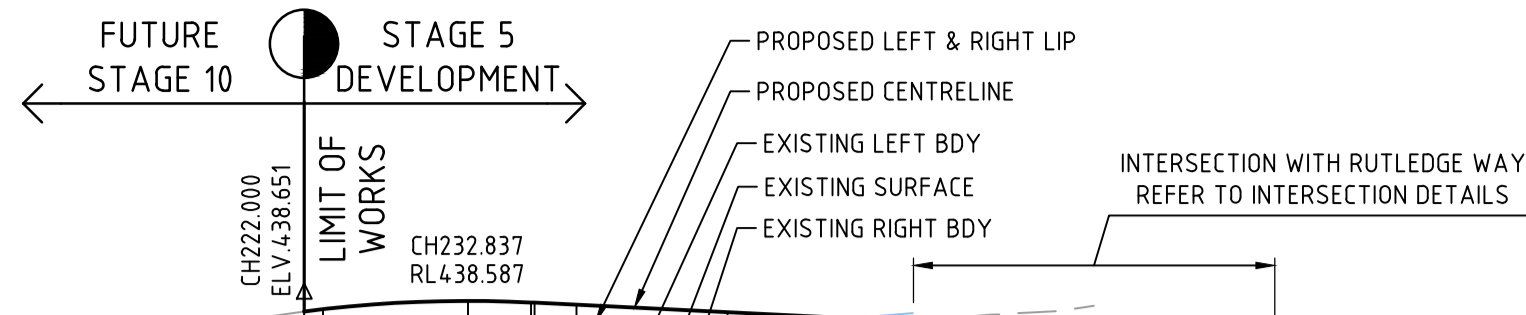
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CITY OF BALLARAT
ALLUVIUM ESTATE, WINTER VALLEY
STAGE 5
RUTLEDGE WAY
CROSS SECTIONS - 2

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CONSTRUCTION

DRAWING No.	VERSION
5R4	B
REFERENCE	
22558E	
SHEET	4 OF 11

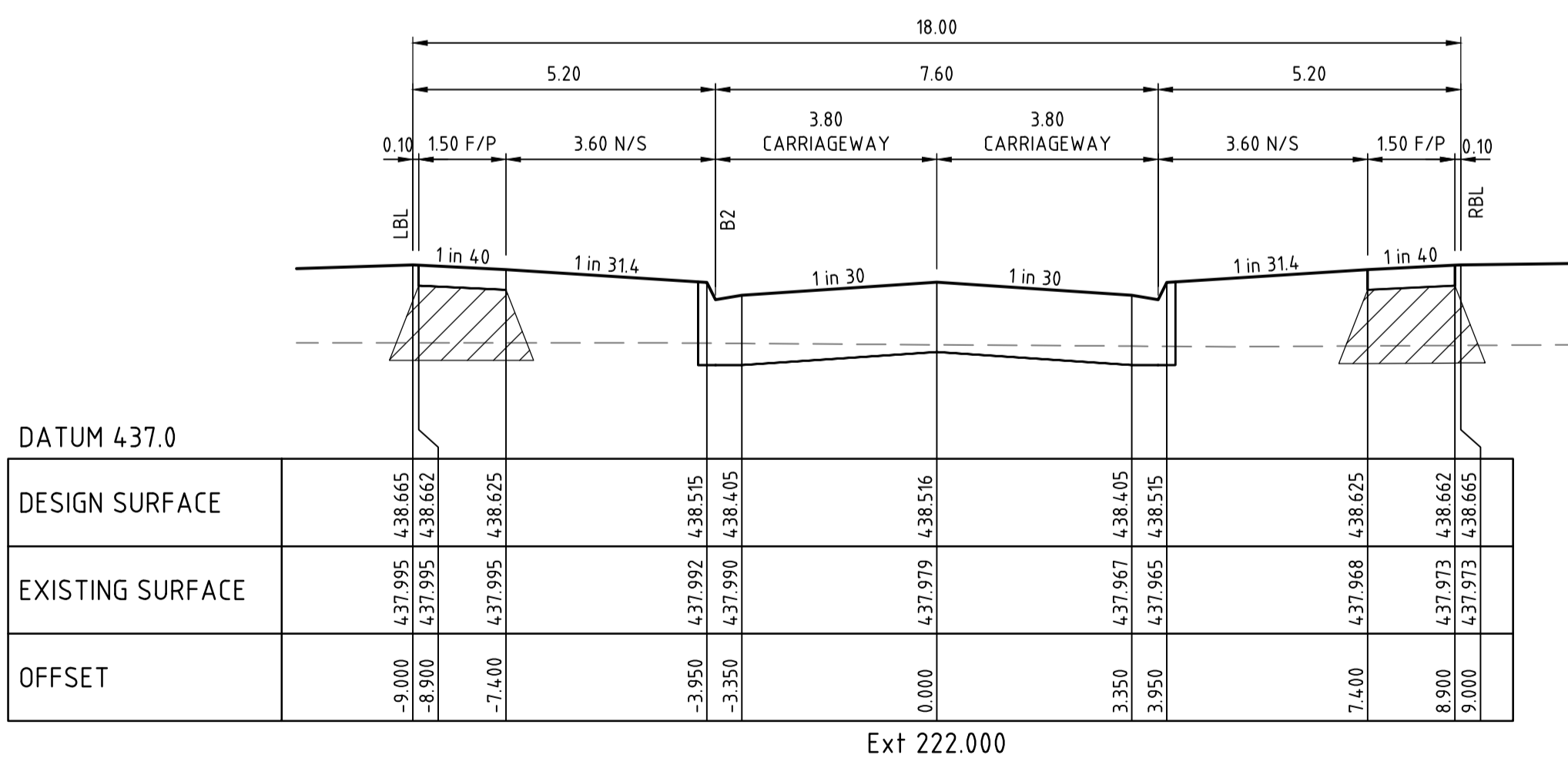


VERTICAL GEOMETRY
HORIZONTAL GEOMETRY

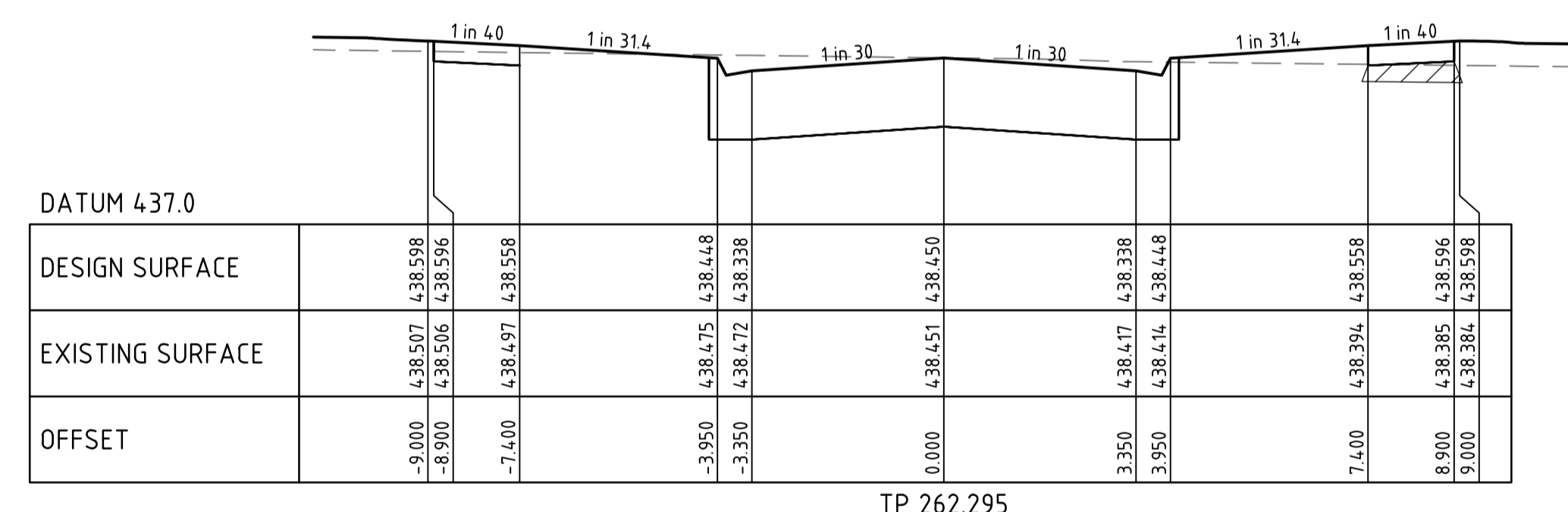
DATUM RL434

DESIGN CENTRELINE	LEFT LIP OF KERB	EXISTING SURFACE AT LEFT BOUNDARY	RIGHT LIP OF KERB	EXISTING SURFACE AT RIGHT BOUNDARY	EXISTING SURFACE	CHAINAGE
130.000	436.850	436.902	437.298	436.865	437.410	130.000
137.500	436.934	436.985	437.336	436.882	437.447	137.500
139.245	436.953	437.005	437.344	436.901	437.456	139.245
150.000	437.082	437.141	437.398	437.034	437.510	150.000
153.245	437.121	437.176	437.414	437.073	437.526	153.245
164.000	437.228	437.278	437.468	437.170	437.580	164.000
167.245	437.255	437.307	437.484	437.193	437.596	167.245
177.000	437.329	437.385	437.533	437.264	437.645	177.000
181.245	437.367	437.445	437.562	437.313	437.674	181.245
192.000	437.578	437.675	437.708	437.489	437.817	192.000
194.000	437.622	437.719	437.744	437.532	437.855	194.000
195.245	437.649	437.733	437.769	437.552	437.881	195.245
207.000	437.762	437.887	438.074	437.726	438.186	207.000
208.000	437.765	437.890	438.104	437.729	438.216	208.000
209.245	437.769	437.894	438.141	437.733	438.252	209.245
220.000	437.940	437.955	438.376	437.949	438.488	220.000
222.000	437.979	437.973	438.405	437.995	438.516	222.000
223.245	438.003	437.996	438.420	438.024	438.532	223.245
232.837	438.143	438.119	438.475	438.190	438.587	232.837
237.000	438.191	438.167	438.465	438.245	438.576	237.000
237.245	438.194	438.170	438.464	438.248	438.575	237.245
240.000	438.226	438.199	438.450	438.285	438.561	240.000
250.000	438.338	438.275	438.400	438.400	438.511	250.000
260.000	438.431	438.369	438.350	438.487	438.461	260.000
262.295	438.451				438.450	262.295
274.245	438.553					274.245

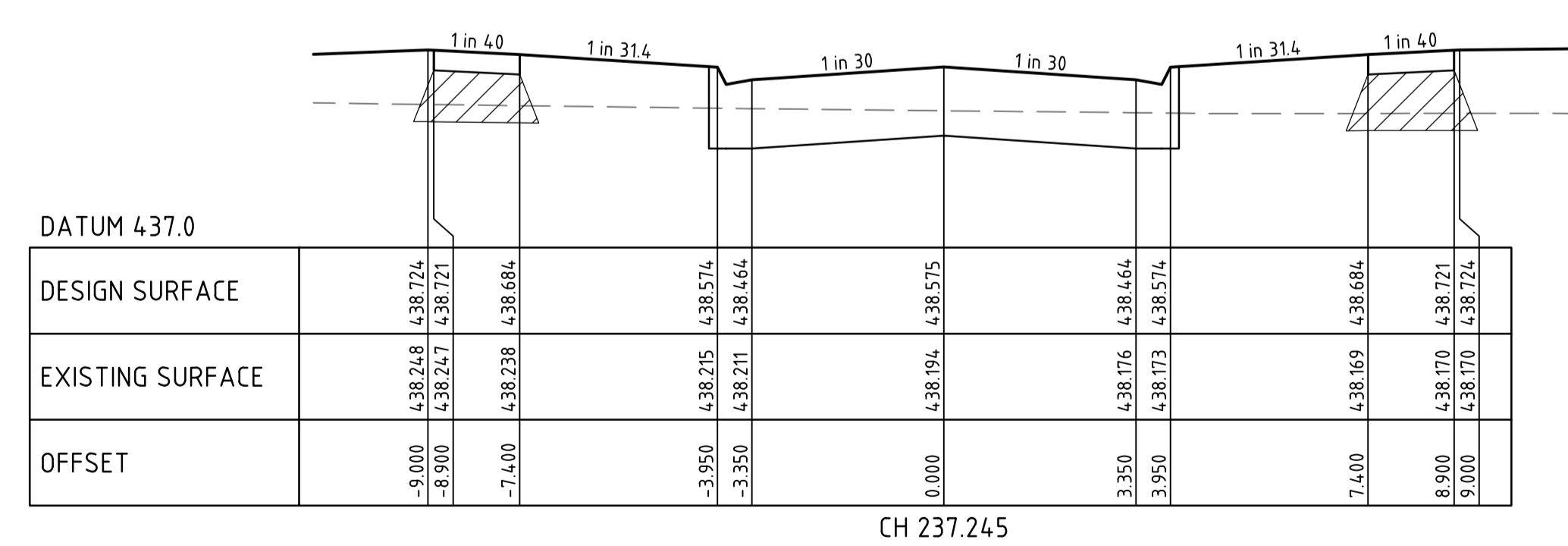
CONNEWARRE AVENUE LONGITUDINAL SECTION



Ext 222.000



TP 262.295

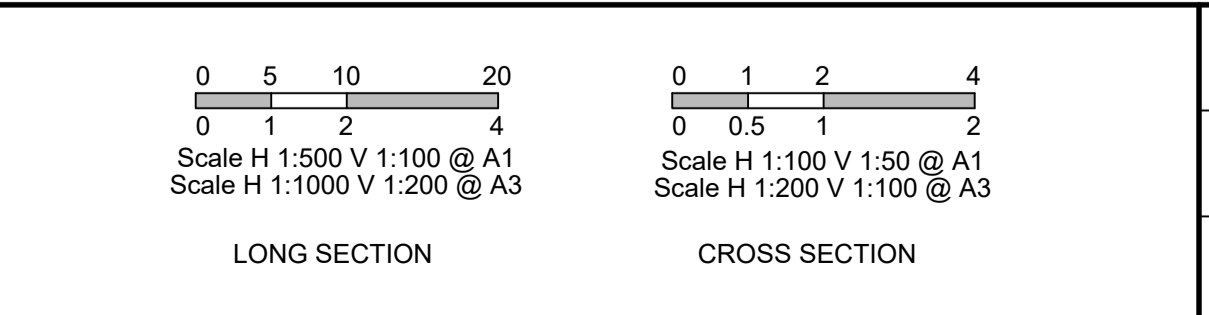


CH 237.245

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VERSION	ISSUE TO COUNCIL	REMARKS
A	16.06.22	LP



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MELWAY	565, N10	CHECKED BY	L. PHAN
DATUM	AHD	AUTHORISED BY	H. DAY

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CITY OF BALLARAT
ALLUVIUM ESTATE, WINTER VALLEY
STAGE 5
CONNEWARRE AVENUE
LONGITUDINAL & CROSS SECTIONS -1

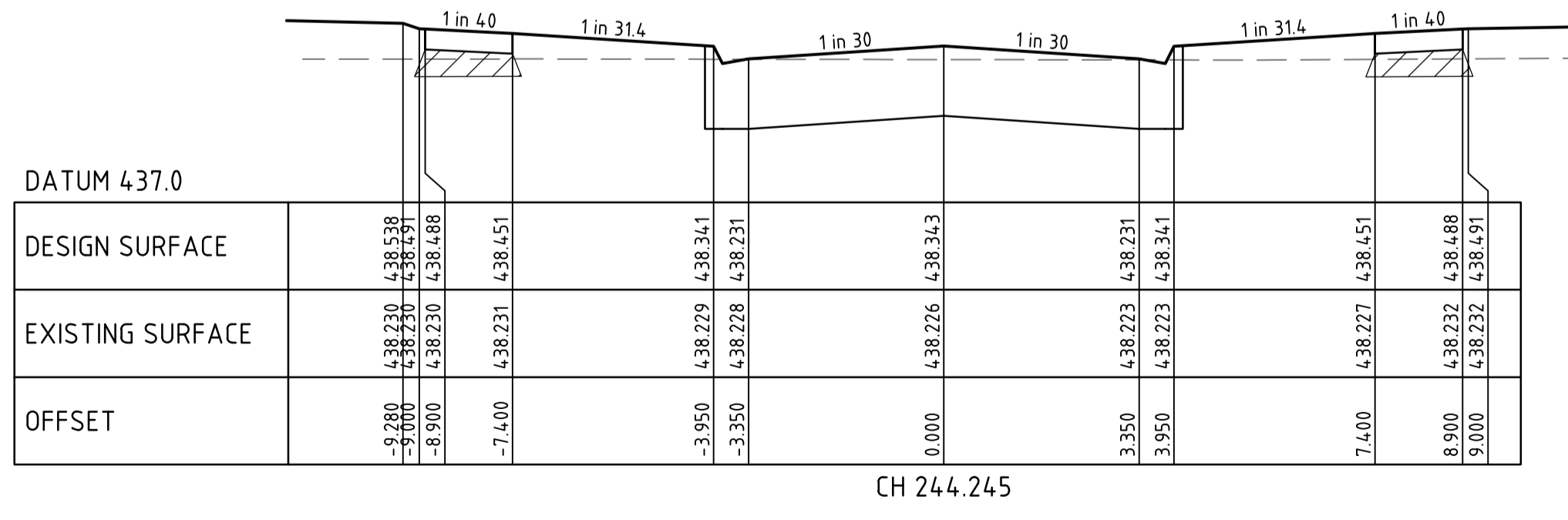
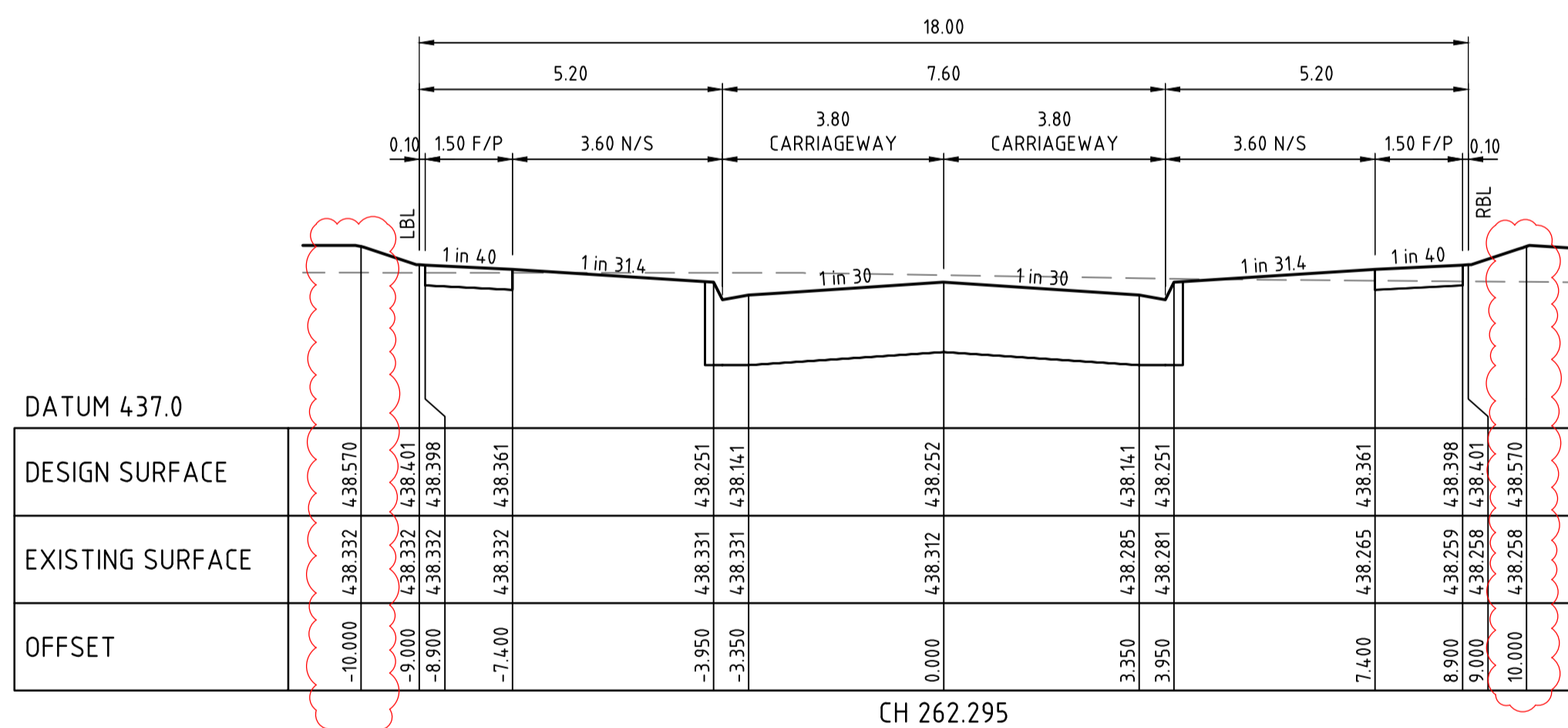
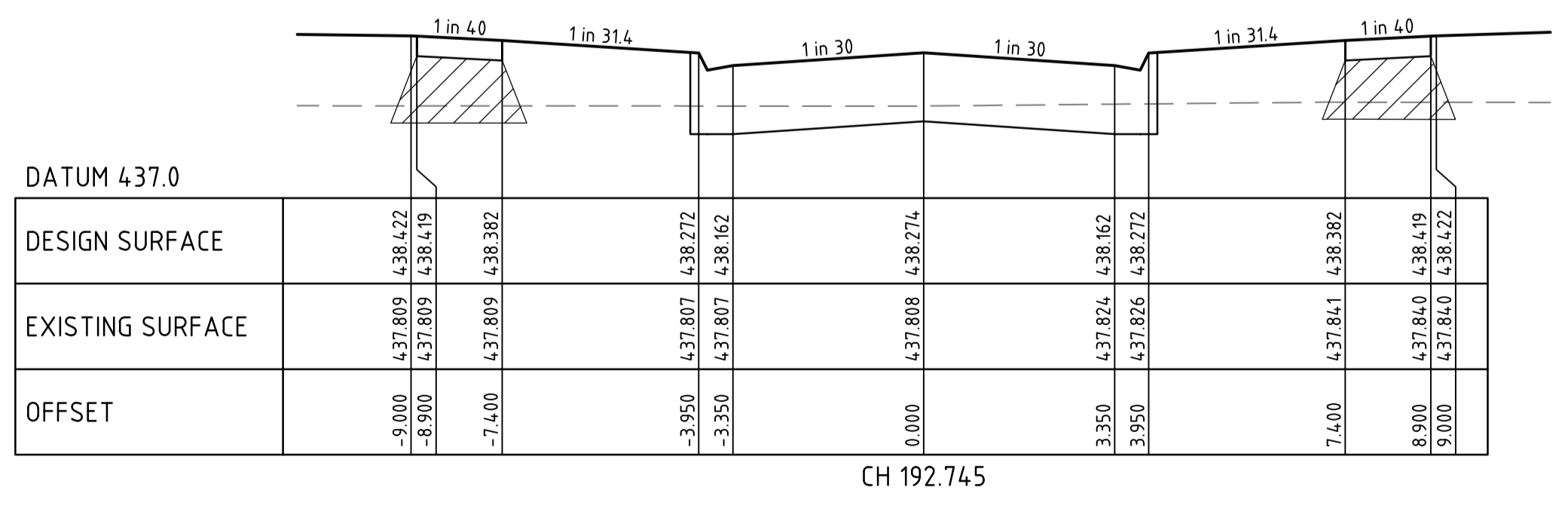
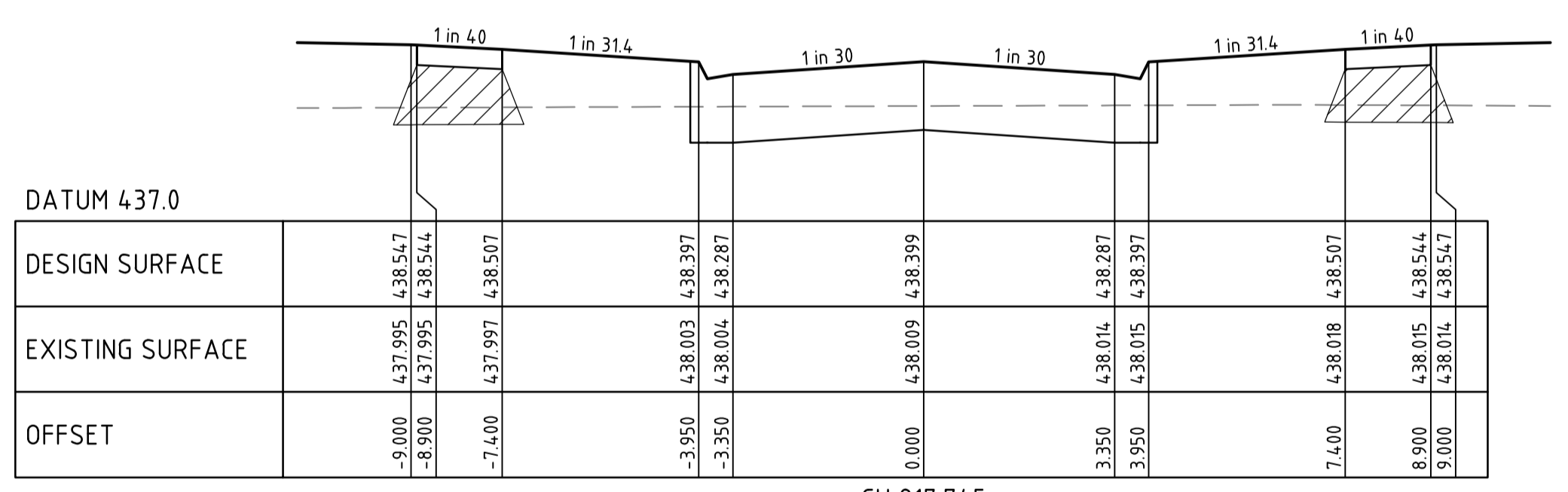
DRAWING No.	5R5	VERSION	A
REFERENCE	22558E		
SHEET	5 OF 11		

H:\22558\STAGE-5\CAD\DWG\SET\ROAD AND DRAINAGE\22558E_5R3-5R6.DWG

VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
DATUM RL 434

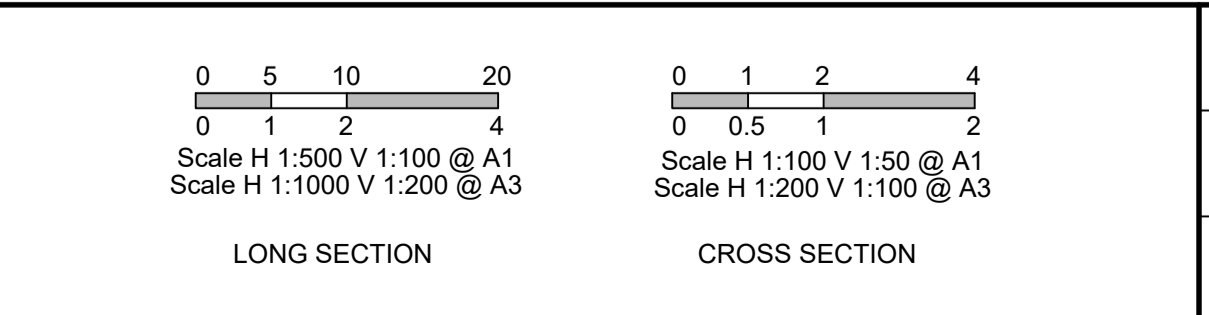
CHAINAGE	90.000	97.245	98.500	100.000	110.245	112.500	120.000	123.745	125.000	136.245	137.500	148.745	150.000	160.000	162.745	164.000	178.745	180.000	192.745	194.000	200.000	205.245	208.000	217.745	220.000	222.000	225.388	230.245	237.245	240.000	244.245	250.000	260.000	262.295	274.245
DESIGN CENTRELINE	437.760	437.796	437.802	437.810	437.866	437.872	437.910	437.929	437.935	437.991	437.997	438.054	438.060	438.110	438.124	438.130	438.204	438.210	438.274	438.280	438.310	438.336	438.350	438.399	438.410	438.420	438.437	438.413	438.378	438.364	438.343	438.314	438.264	438.252	438.193
LEFT LIP OF KERB	437.648	437.684	437.691	437.698	437.754	437.761	437.798	437.817	437.823	437.886	437.892	437.942	437.948	437.998	438.012	438.018	438.098	438.104	438.162	438.168	438.198	438.224	438.238	438.287	438.298	438.308	438.325	438.301	438.266	438.252	438.231	438.202	438.152	438.140	438.083
EXISTING SURFACE AT LEFT BOUNDARY	437.571	437.561	437.559	437.558	437.564	437.561	437.562	437.537	437.543	437.602	437.602	437.613	437.614	437.624	437.626	437.626	437.701	437.701	437.762	437.762	437.798	437.807	437.817	437.828	437.839	437.851	437.866	437.881	437.881	437.872	437.852	437.838	437.808	437.752	437.686
RIGHT LIP OF KERB	437.648	437.684	437.691	437.698	437.754	437.761	437.798	437.817	437.823	437.886	437.892	437.942	437.948	437.998	438.012	438.018	438.098	438.104	438.162	438.168	438.198	438.224	438.238	438.287	438.298	438.308	438.325	438.301	438.266	438.252	438.231	438.202	438.152	438.140	438.083
EXISTING SURFACE AT RIGHT BOUNDARY	437.748	437.743	437.744	437.740	437.727	437.724	437.710	437.720	437.725	437.796	437.796	437.794	437.791	437.786	437.786	437.785	437.848	437.848	437.909	437.909	437.935	437.944	437.954	437.966	437.977	437.989	438.006	438.021	438.032	438.032	438.026	438.012	437.992	437.952	437.896
EXISTING SURFACE	437.622	437.628	437.630	437.632	437.622	437.624	437.616	437.615	437.621	437.692	437.692	437.691	437.689	437.686	437.686	437.685	437.748	437.748	437.809	437.809	437.835	437.844	437.854	437.866	437.877	437.889	438.006	438.021	438.032	438.032	438.026	438.012	437.992	437.952	437.896

STONY DRIVE LONGITUDINAL SECTION



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B	AMENDMENT AS PER COUNCIL COMMENTS	10.01.23	LP
A	ISSUE TO COUNCIL	16.06.22	LP



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CHECKED BY	L. PHAN	AUTHORISED BY	H. DAY
DATUM	AHD		

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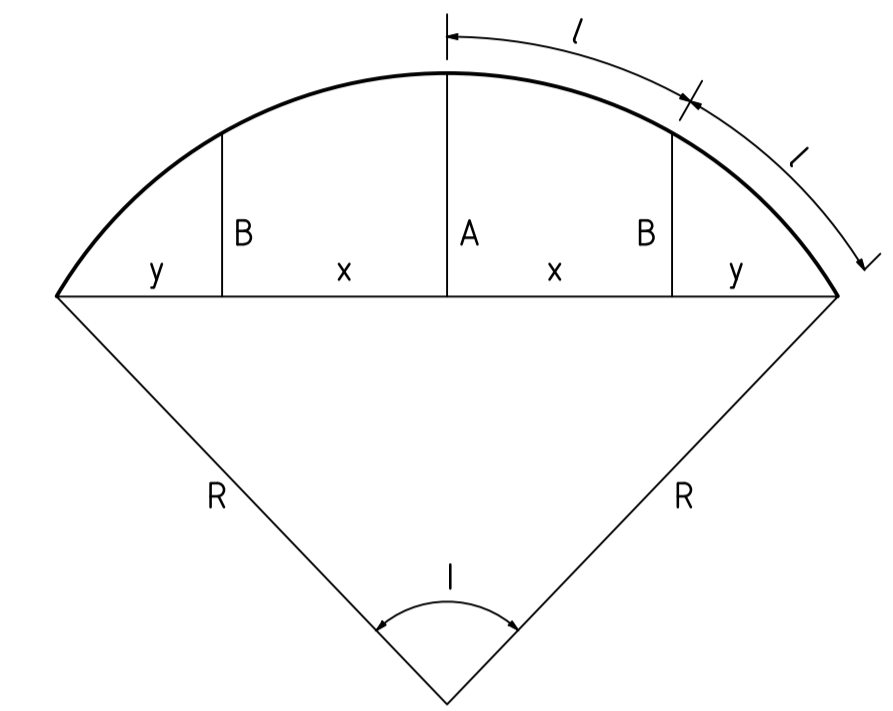
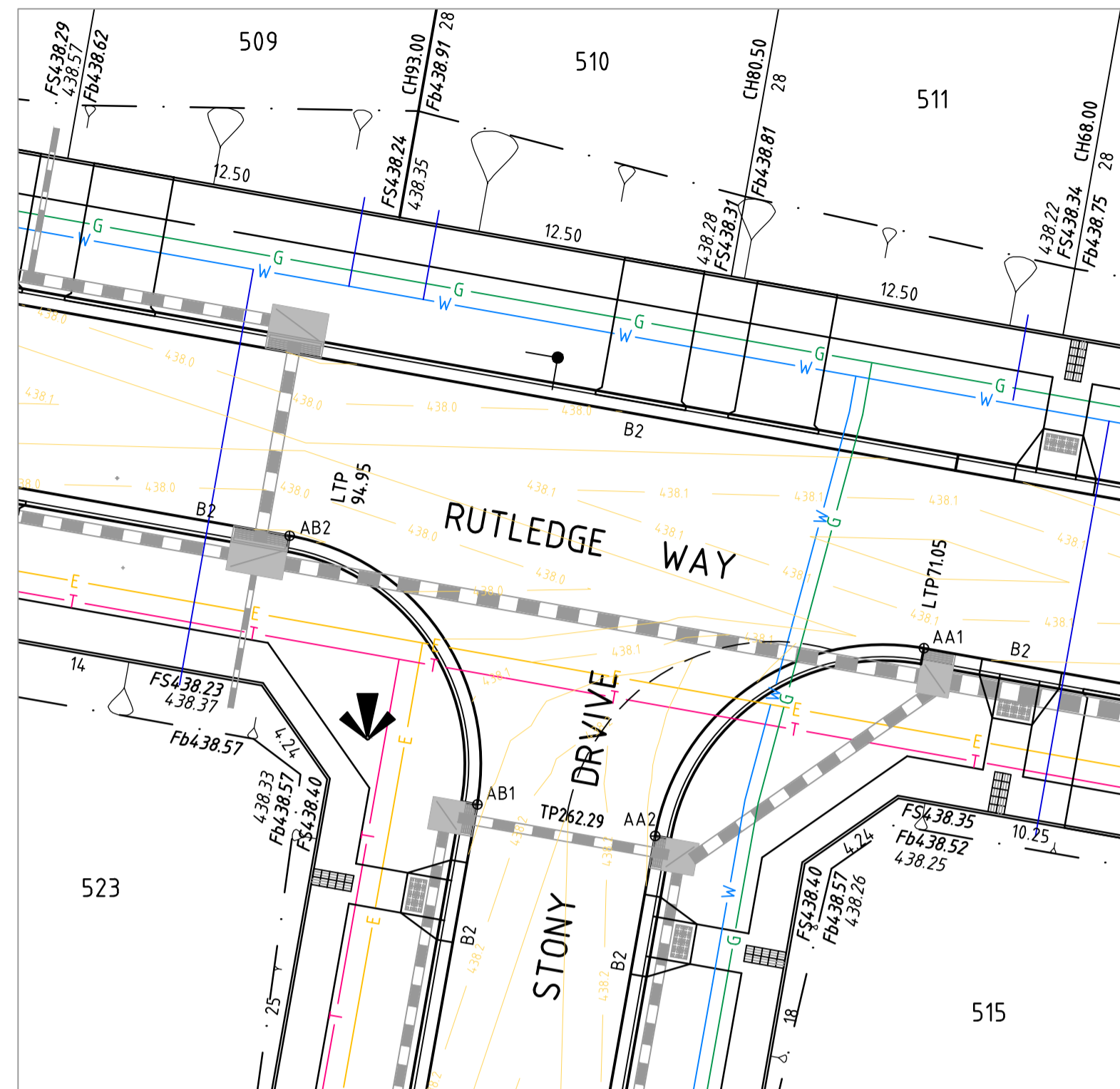
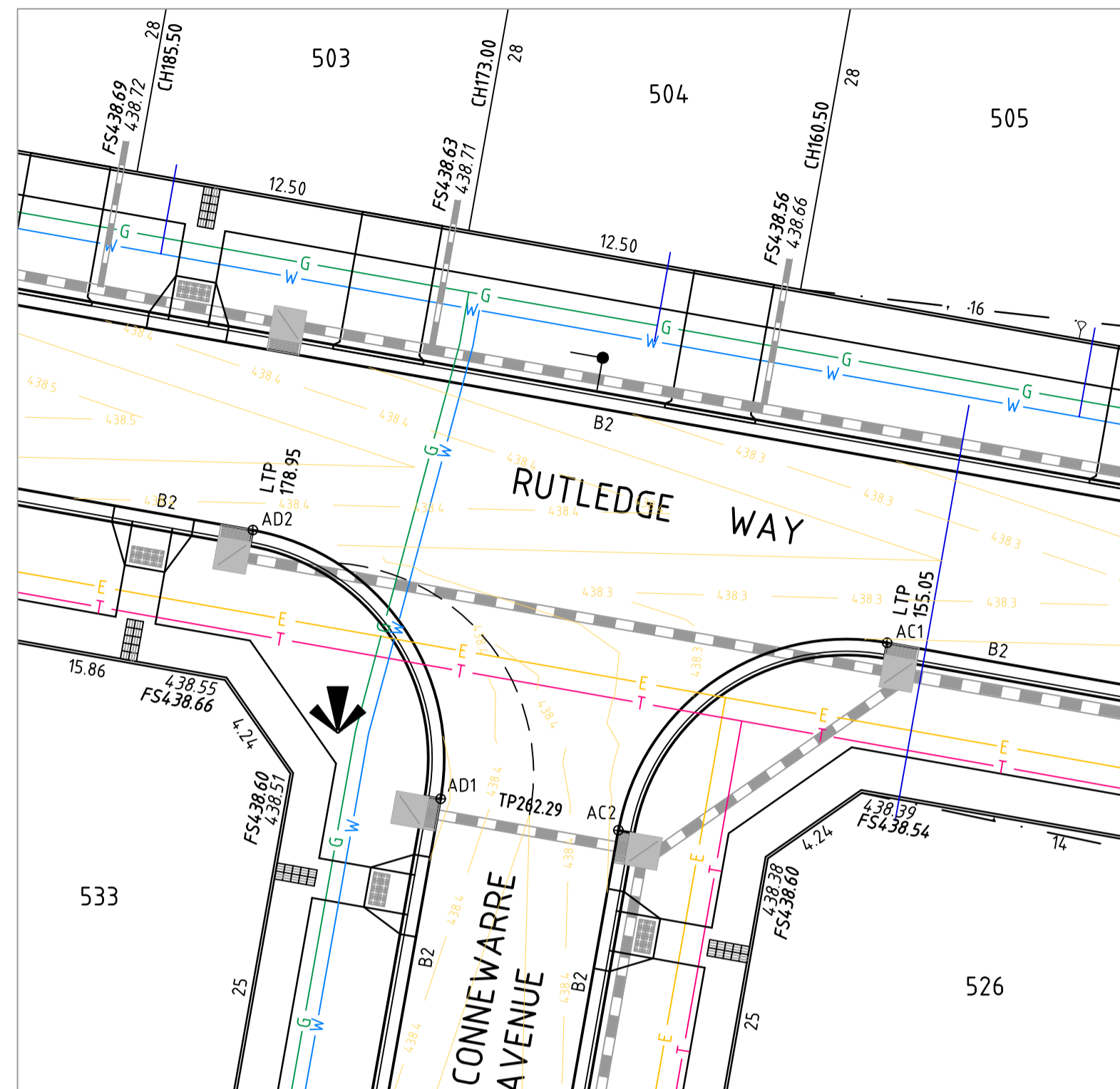
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 engineering@reedsconsulting.com.au
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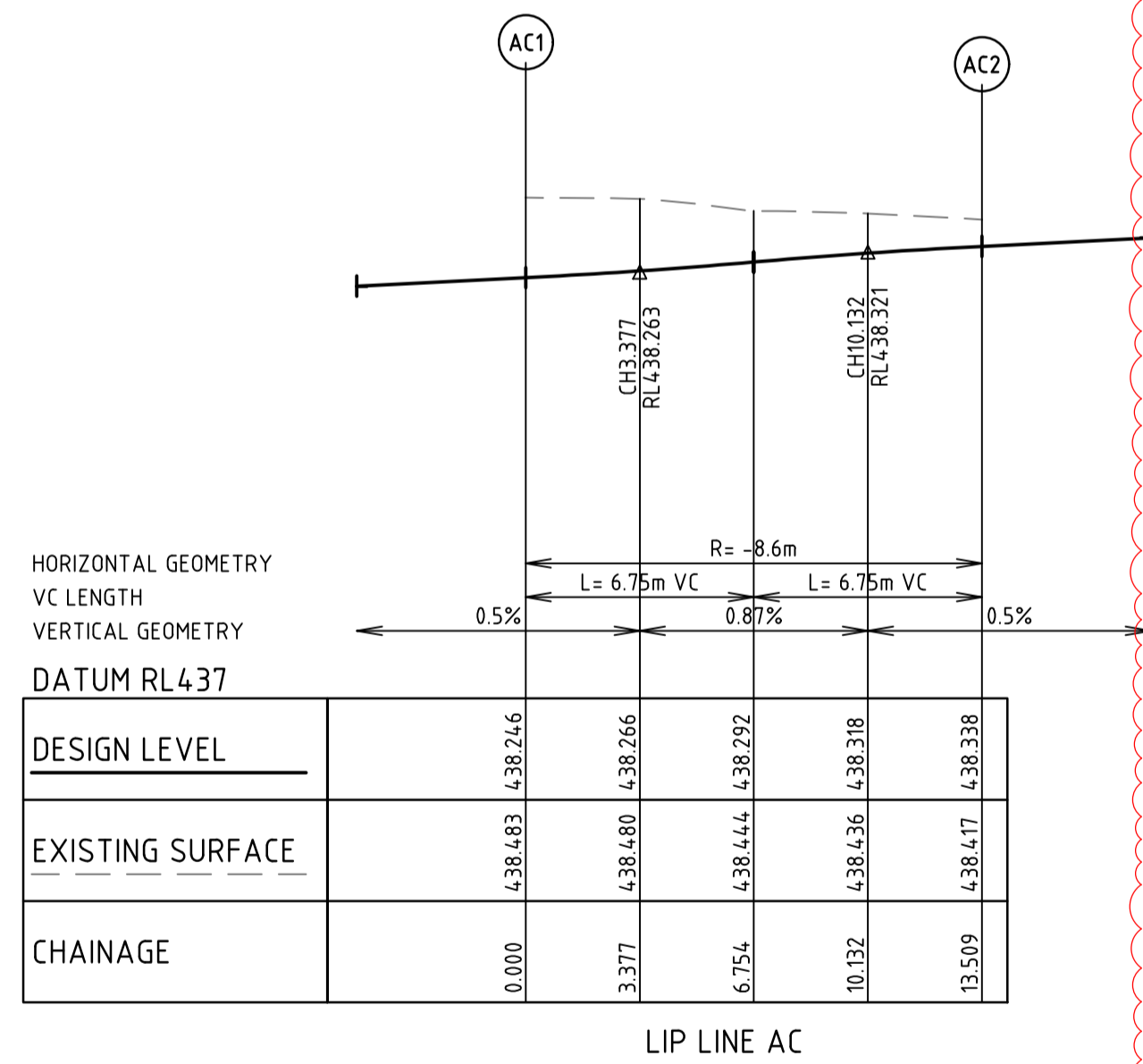
CITY OF BALLARAT
 ALLUVIUM ESTATE, WINTER VALLEY
 STAGE 5
 STONY DRIVE
 LONGITUDINAL & CROSS SECTIONS

DRAWING No.	SR6	VERSION	B
REFERENCE	22558E		
SHEET	6	OF	11

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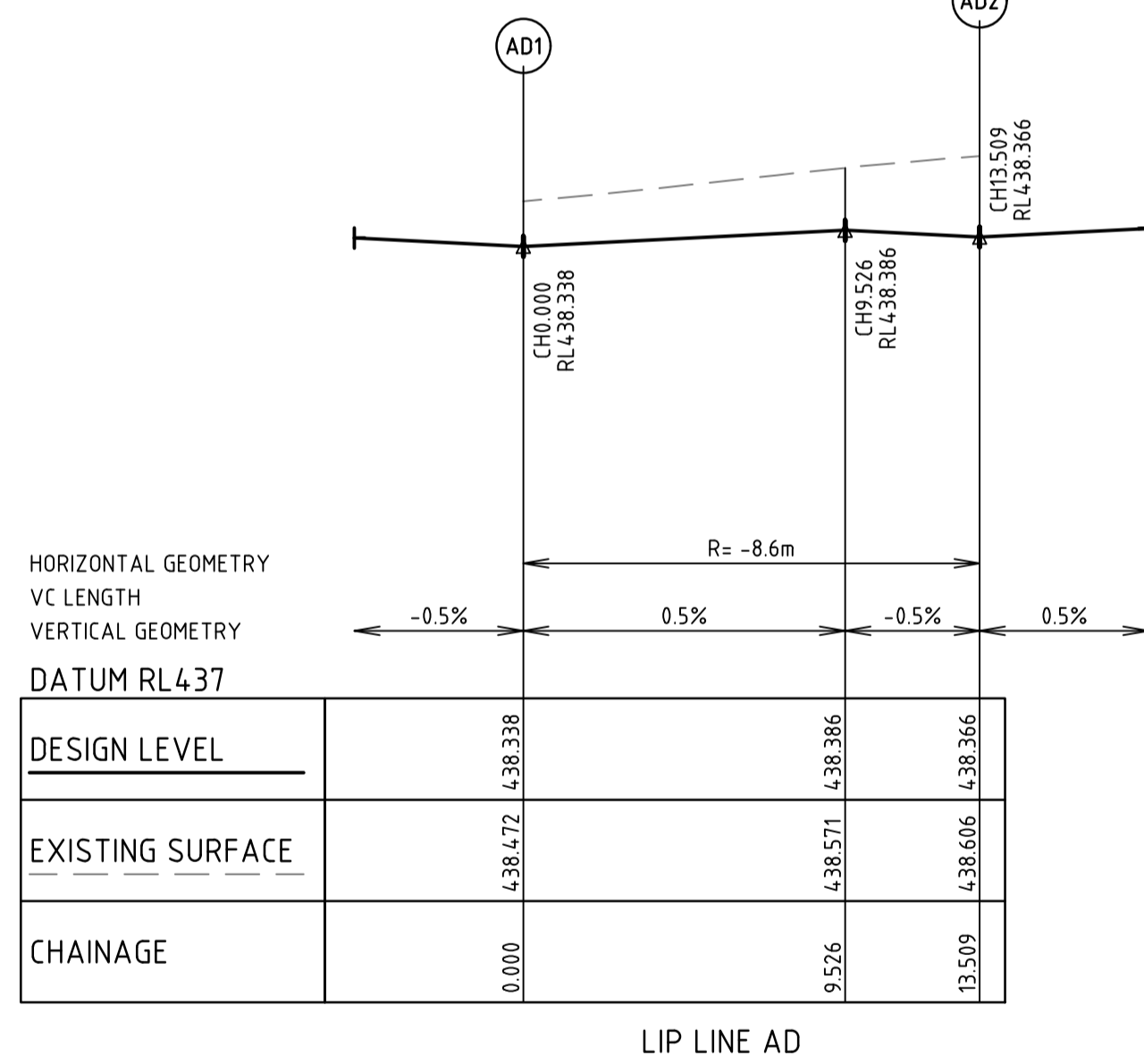
LIP PROFILE SETOUT



Alignment AC

Point no	Easting	Northing	RL
AC1	746566.058	5838053.533	4.38.246
AC2	746556.088	5838046.567	4.38.338

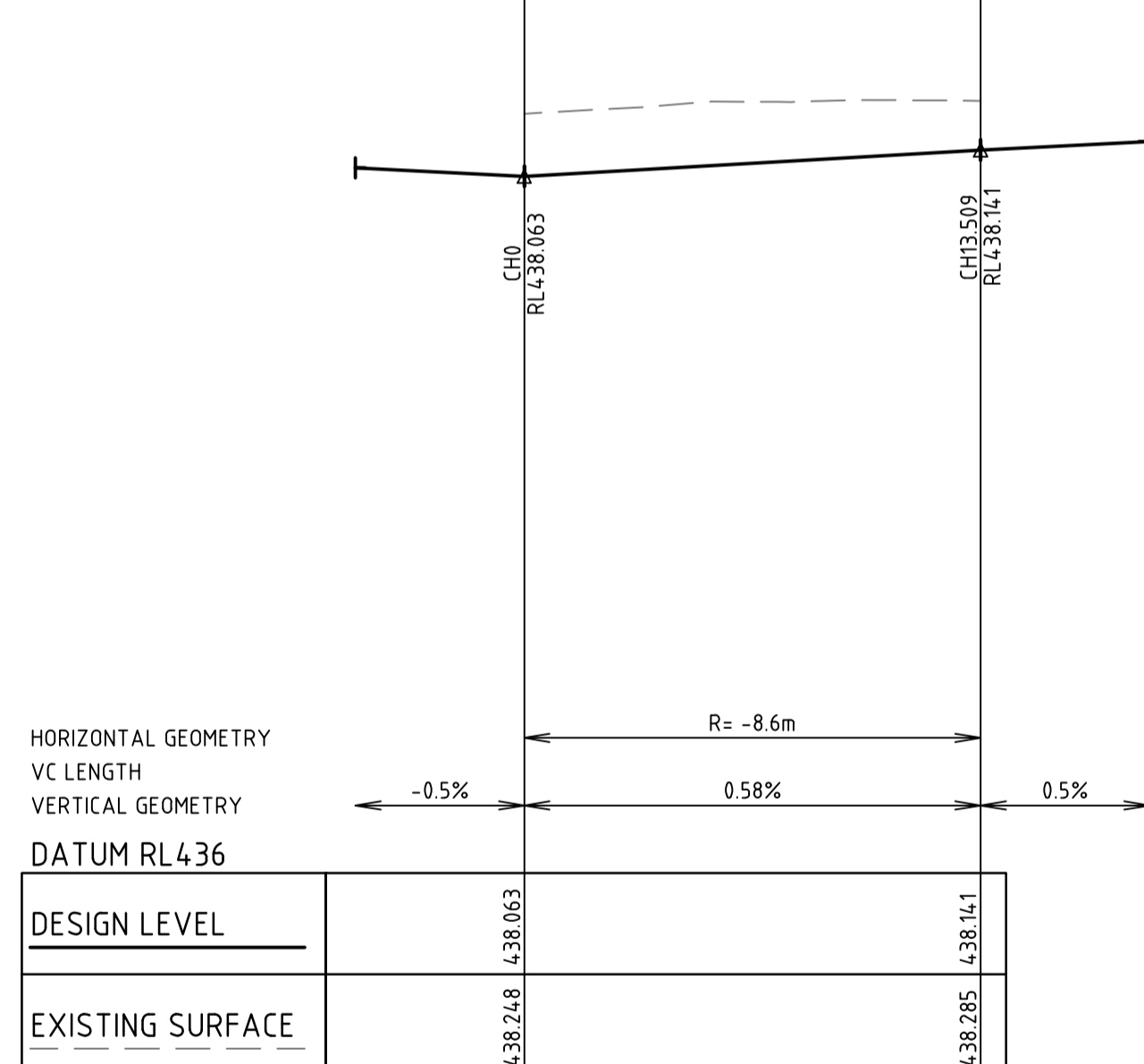
Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
AC1 - AC2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	4.38.292



Alignment AD

Point no	Easting	Northing	RL
AD1	746549.491	583804.738	4.38.338
AD2	74654.252	5838057.708	4.38.366

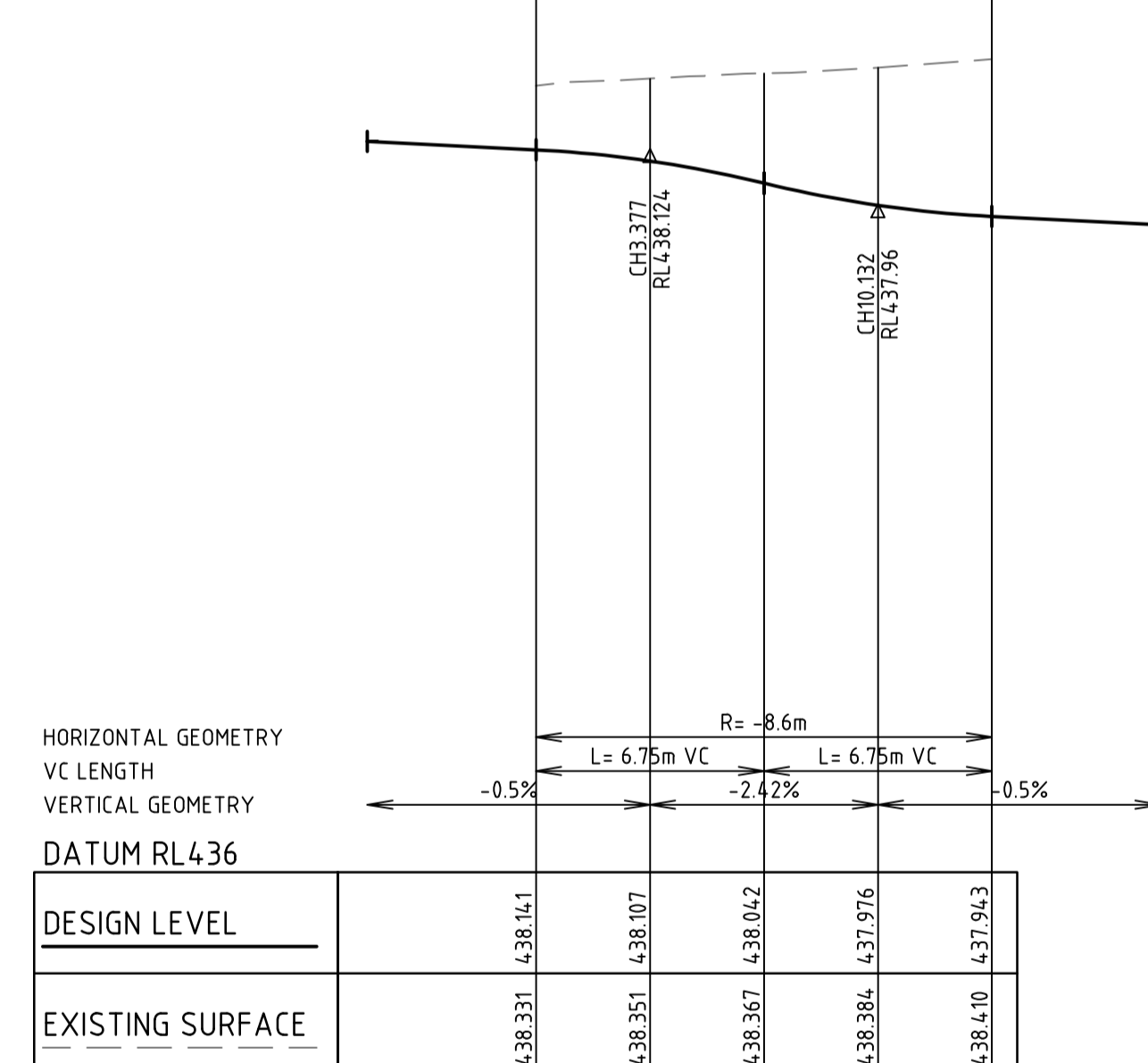
Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
AD1 - AD2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	4.38.372



Alignment AA

Point no	Easting	Northing	RL
AA1	746648.766	5838038.858	4.38.063
AA2	746638.796	5838031.892	4.38.141

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
AA1 - AA2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	4.38.102



Alignment AB

Point no	Easting	Northing	RL
AB1	746632.199	5838033.063	4.38.141
AB2	746625.234	5838043.033	4.37.943

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
AB1 - AB2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	4.38.042

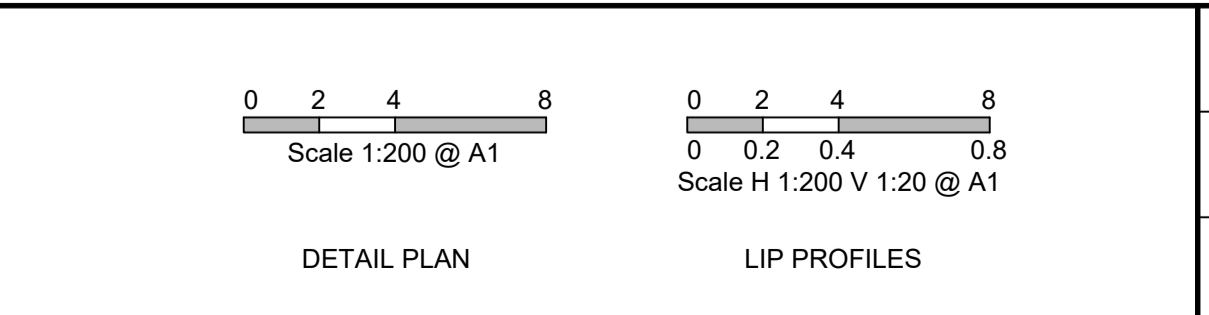
WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

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H:\22558\STAGE 5\CAD\DWG\SET\ROAD AND DRAINAGE\22558E_5R2_5R7.DWG

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VERSION	REMARKS	DATE	BY
B	AMENDMENT AS PER COUNCIL COMMENTS	10.01.23	LP
A	ISSUE TO COUNCIL	16.06.22	LP



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MELWAY		CHECKED BY	L. PHAN
DATUM	AHD	AUTHORISED BY	H. DAY

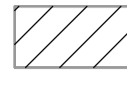
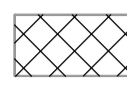
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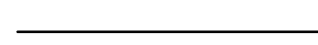


CITY OF BALLARAT
ALLUVIUM ESTATE, WINTER VALLEY
STAGE 5
INTERSECTION DETAILS
& LIP PROFILES

DRAWING No.	VERSION
5R7	B
REFERENCE	22558E
SHEET	7 OF 11

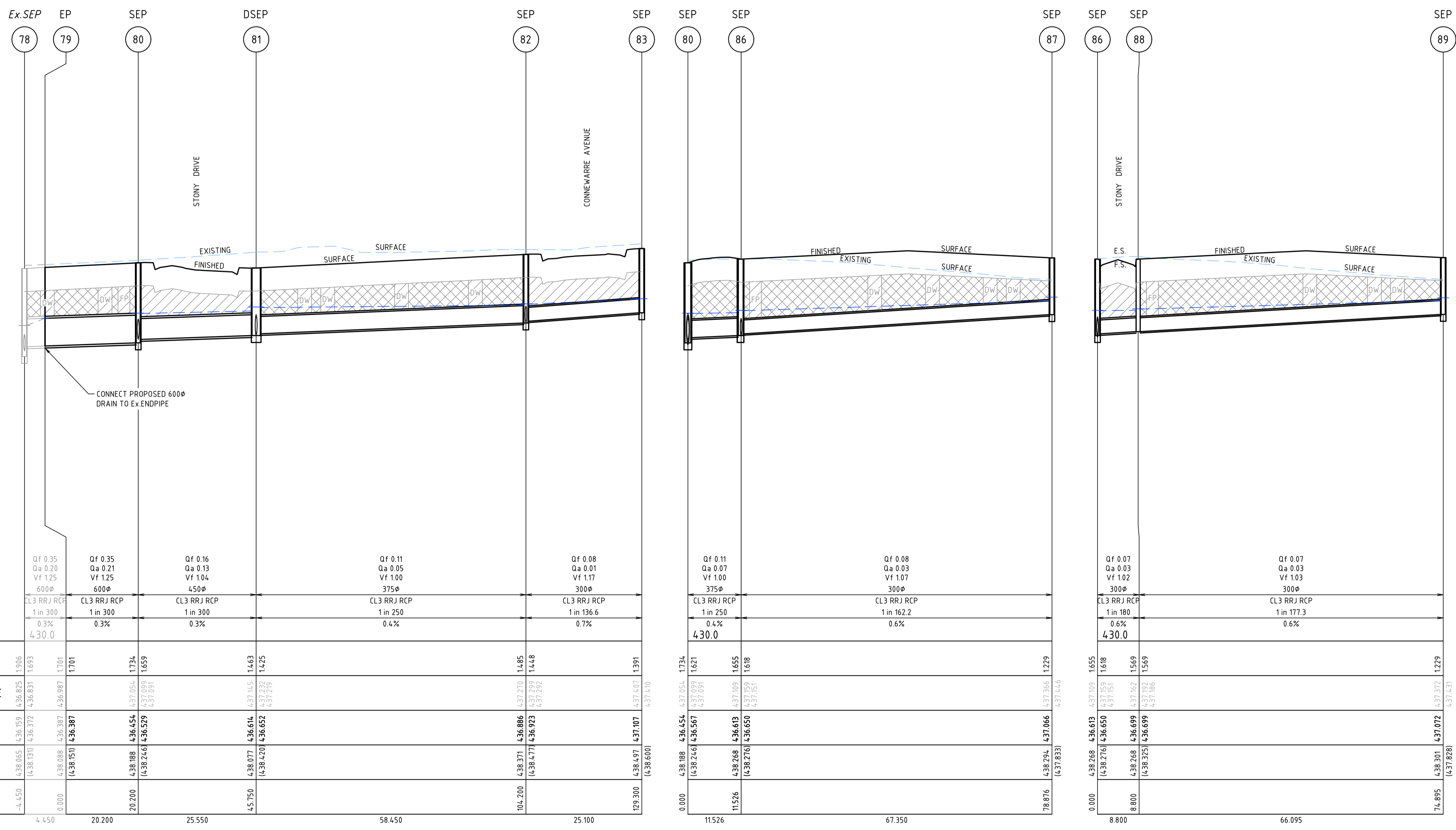
DRAINAGE BACKFILL.
(REFER TO BALLARAT SD-D8-1)

 STORMWATER DRAINS UNDER PAVEMENTS, FOOTPATHS AND DRIVEWAYS TO BE BACKFILLED AS PER BALLARAT SD-D8-1, OPTION A. ROAD PAVEMENT
 STORMWATER DRAINS BEHIND KERB TO BE BACKFILLED AS PER BALLARAT SD-D8-1, OPTION B. ROAD SHOULDER
 DW DRIVEWAY
 FP FOOTPATH

LEGEND

 EXISTING SURFACE
 FINISHED SURFACE
 FUTURE SURFACE
 HYDRAULIC GRADE LINE Q5

NOTE 1.
225ø DIA. PIPES ARE TO BE EITHER CLASS 3 RRJ RCP'S OR STORMPRO OR BLACKMAX PIPES

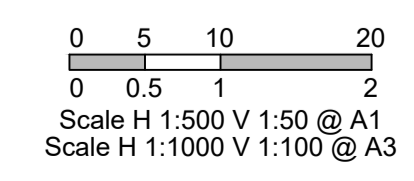


	78	79	80	81	82	83	80	86	87	86	88	89
FLOW CAPACITY (m3/s)	Qf 0.35	Qf 0.35	Qf 0.16	Qf 0.11	Qf 0.08	Qf 0.11	Qf 0.11	Qf 0.08	Qf 0.07	Qf 0.07	Qf 0.07	Qf 0.07
DESIGN FLOW (m3/s)	Qa 0.20	Qa 0.21	Qa 0.13	Qa 0.05	Qa 0.01	Qa 0.07	Qa 0.07	Qa 0.03	Qa 0.03	Qa 0.03	Qa 0.03	Qa 0.03
CAPACITY VELOCITY (m/s)	Vf 1.25	Vf 1.25	Vf 1.04	Vf 1.00	Vf 1.17	Vf 1.00	Vf 1.00	Vf 1.07	Vf 1.02	Vf 1.02	Vf 1.03	Vf 1.03
PIPE SIZE (mm) & TYPE	600ø CL3 RRJ RCP 1 in 300	600ø CL3 RRJ RCP 1 in 300	450ø CL3 RRJ RCP 1 in 300	375ø CL3 RRJ RCP 1 in 250	300ø CL3 RRJ RCP 1 in 136.6	375ø CL3 RRJ RCP 1 in 250	375ø CL3 RRJ RCP 1 in 250	300ø CL3 RRJ RCP 1 in 162.2	300ø CL3 RRJ RCP 1 in 180	300ø CL3 RRJ RCP 1 in 180	300ø CL3 RRJ RCP 1 in 177.3	300ø CL3 RRJ RCP 1 in 177.3
GRADE	0.3%	0.3%	0.3%	0.4%	0.7%	0.4%	0.4%	0.6%	0.6%	0.6%	0.6%	0.6%
DATUM	4.30.0	4.30.0	4.30.0	4.30.0	4.30.0	4.30.0	4.30.0	4.30.0	4.30.0	4.30.0	4.30.0	4.30.0
DEPTH TO INVERT	1.806	1.693	1.701	1.463	1.485	1.621	1.655	1.618	1.655	1.618	1.229	1.229
HYDRAULIC GRADE LINE	4.36.825	4.36.831	4.36.987	4.37.145	4.37.270	4.37.289	4.37.109	4.37.159	4.37.159	4.37.159	4.37.312	4.37.312
INVERT	4.36.159	4.36.372	4.36.387	4.36.454	4.36.614	4.36.886	4.36.613	4.36.650	4.36.699	4.36.699	4.36.699	4.37.072
FINISHED SURFACE (EXISTING SURFACE)	4.38.045	4.38.131	4.38.088	4.38.246	4.38.077	4.38.471	4.38.268	4.38.276	4.38.268	4.38.268	4.38.301	4.38.301
CHAINAGE	4.450	4.450	20.200	25.550	58.450	104.200	11.526	11.526	8.800	8.800	74.895	74.895

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VERSION	REMARKS	DATE	BY
B	DRAINAGE BACKFILL	24.06.22	LP
A	ISSUE TO COUNCIL	16.06.22	LP



DRAWN BY	N. ROBINSON	DESIGNED BY	M. WEE
MELWAY		CHECKED BY	L. PHAN
DATUM	AHD	AUTHORISED BY	H. DAY

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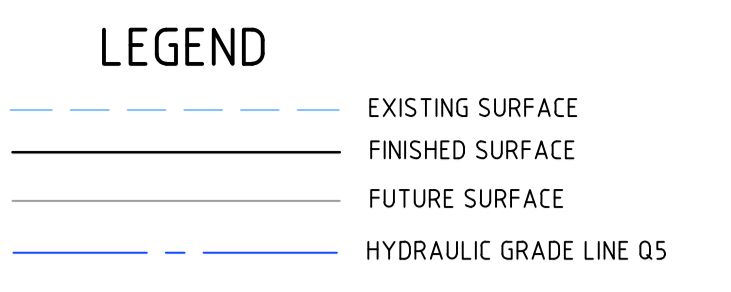
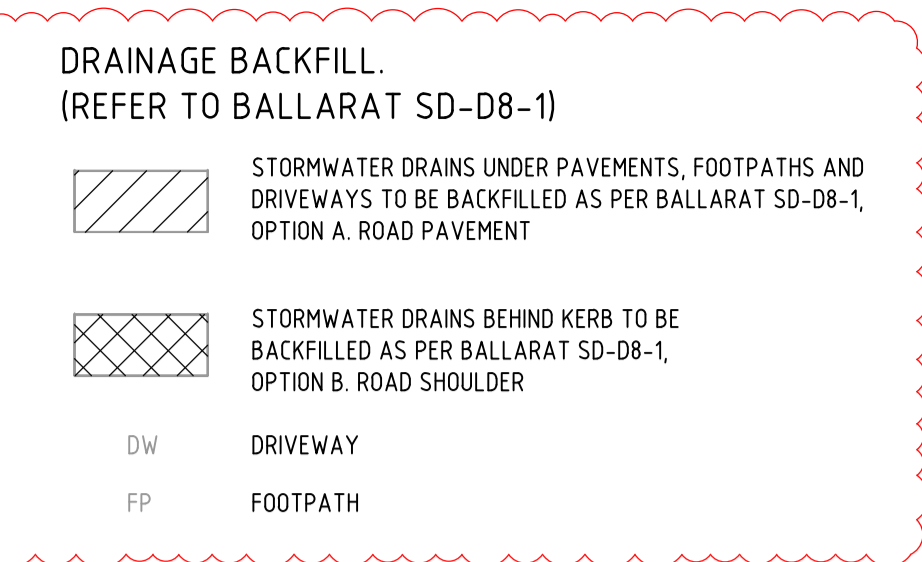
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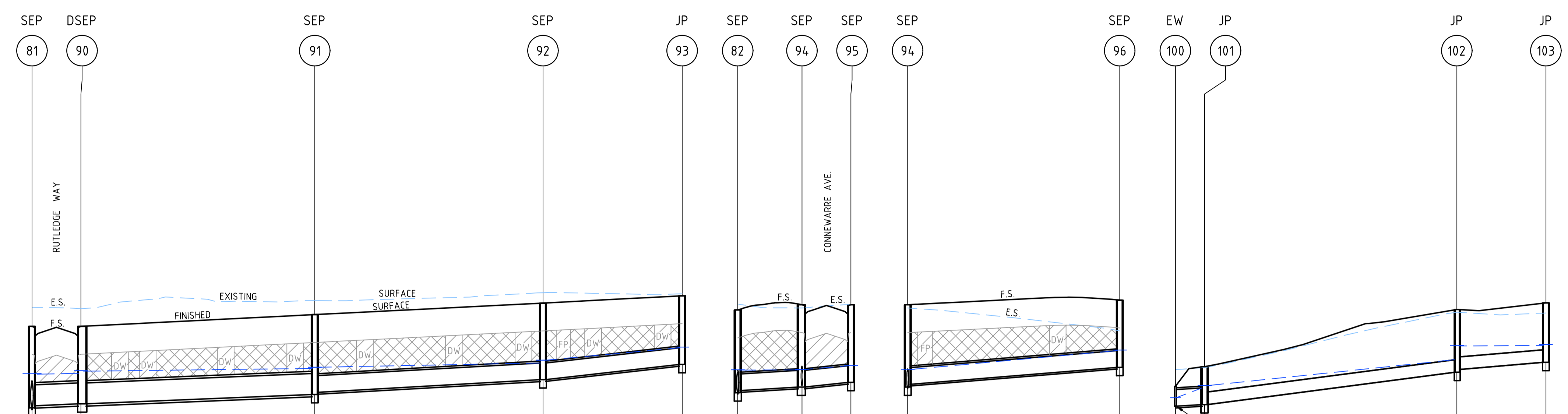
CITY OF BALLARAT
ALLUVIUM ESTATE, WINTER VALLEY
STAGE 5
DRAINAGE LONGITUDINAL SECTIONS - 1

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DRAWING No.	5R8	VERSION	B
REFERENCE	22558E		
SHEET	8	OF	11



NOTE 1.
225Ø DIA. PIPES ARE TO BE EITHER CLASS 3 RRJ RCP'S OR STORMPRO OR BLACKMAX PIPES



	0.000	8.800	50.800	91.800	116.800	0.000	11.526	20.226	0.000	38.095	0.000	5.249	50.549	66.553	
FLOW CAPACITY (m ³ /s)	Qf 0.11		Qf 0.11		Qf 0.07		Qf 0.07	Qf 0.09		Qf 0.09		Qf 0.07	Qf 0.05	Qf 0.04	
DESIGN FLOW (m ³ /s)	Qa 0.07		Qa 0.06		Qa 0.04		Qa 0.02	Qa 0.00		Qa 0.01		Qa 0.04	Qa 0.04	Qa 0.01	
CAPACITY VELOCITY (m/s)	Vf 1.00		Vf 1.00		Vf 1.02		Vf 1.02	Vf 1.34		Vf 1.22		Vf 1.02	Vf 1.28	Vf 1.01	
PIPE SIZE (mm) & TYPE	375Ø CL3 RRJ RCP		375Ø CL3 RRJ RCP		300Ø CL3 RRJ RCP		300Ø CL3 RRJ RCP	300Ø CL3 RRJ RCP		300Ø CL3 RRJ RCP		300Ø CL3 RRJ RCP	225Ø CL3 RRJ RCP	225Ø CL3 RRJ RCP	
GRADE	1 in 250		1 in 250		1 in 180		1 in 180	1 in 104.5		1 in 125		1 in 180	1 in 78	1 in 125	
DATUM	0.4%		0.4%		0.6%		0.6%	1%		0.8%		0.6%	13%	0.8%	
DEPTH TO INVERT	4.30.0		4.30.0		4.30.0		4.30.0	4.30.0		4.30.0		4.30.0	4.30.0	4.30.0	
HYDRAULIC GRADE LINE	4.37.145 4.37.257 4.37.276	4.37.145 4.37.257 4.37.276	4.37.321 4.37.343 4.37.361	4.37.420 4.37.471 4.37.471	4.37.420 4.37.471 4.37.471	4.37.296 4.37.296 4.37.306	4.37.306 4.37.304 4.37.304	4.37.296 4.37.296 4.37.306	4.37.373 4.37.373	4.37.296 4.37.296 4.37.306	4.37.306 4.37.304 4.37.304	4.37.306 4.37.304 4.37.304	4.37.479 4.37.479 4.37.479	4.37.105 4.37.105 4.37.105	4.37.105 4.37.105 4.37.105
INVERT	4.36.614 4.36.652 4.36.652	4.36.614 4.36.652 4.36.652	4.36.655 4.36.687 4.36.687	4.37.120 4.37.120 4.37.120	4.37.120 4.37.120 4.37.120	4.37.296 4.37.296 4.37.306	4.37.306 4.37.304 4.37.304	4.37.296 4.37.296 4.37.306	4.37.373 4.37.373	4.37.296 4.37.296 4.37.306	4.37.306 4.37.304 4.37.304	4.37.306 4.37.304 4.37.304	4.37.479 4.37.479 4.37.479	4.37.105 4.37.105 4.37.105	4.37.105 4.37.105 4.37.105
FINISHED SURFACE (EXISTING SURFACE)	4.38.071 4.38.420 4.38.420	4.38.071 4.38.395 4.38.395	4.38.288 4.38.538 4.38.538	4.38.495 4.38.681 4.38.681	4.38.495 4.38.681 4.38.681	4.38.466 4.38.466 4.38.473	4.38.407 4.38.407 4.38.407	4.38.466 4.38.466 4.38.473	4.37.373 4.37.373	4.38.466 4.38.466 4.38.473	4.38.407 4.38.407 4.38.407	4.38.466 4.38.466 4.38.473	4.37.309 4.38.329 4.38.329	4.38.098 4.38.098 4.38.098	4.38.317 4.38.317 4.38.317
CHAINAGE	0.000	8.800	50.800	91.800	116.800	0.000	11.526	20.226	0.000	38.095	0.000	5.249	50.549	66.553	

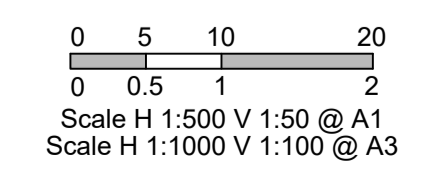
PROVIDE TEMPORARY
SANDBAG ENDWALL TO SUIT
TEMPORARY 300Ø DRAIN

TEMPORARY DRAIN TO BE REMOVED
AS PART OF FUTURE STAGE 10 WORKS

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VERSION	REMARKS		
B	DRAINAGE BACKFILL	24.06.22	LP
A	ISSUE TO COUNCIL	16.06.22	LP



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MELWAY		CHECKED BY	L. PHAN
DATUM	AHD	AUTHORISED BY	H. DAY

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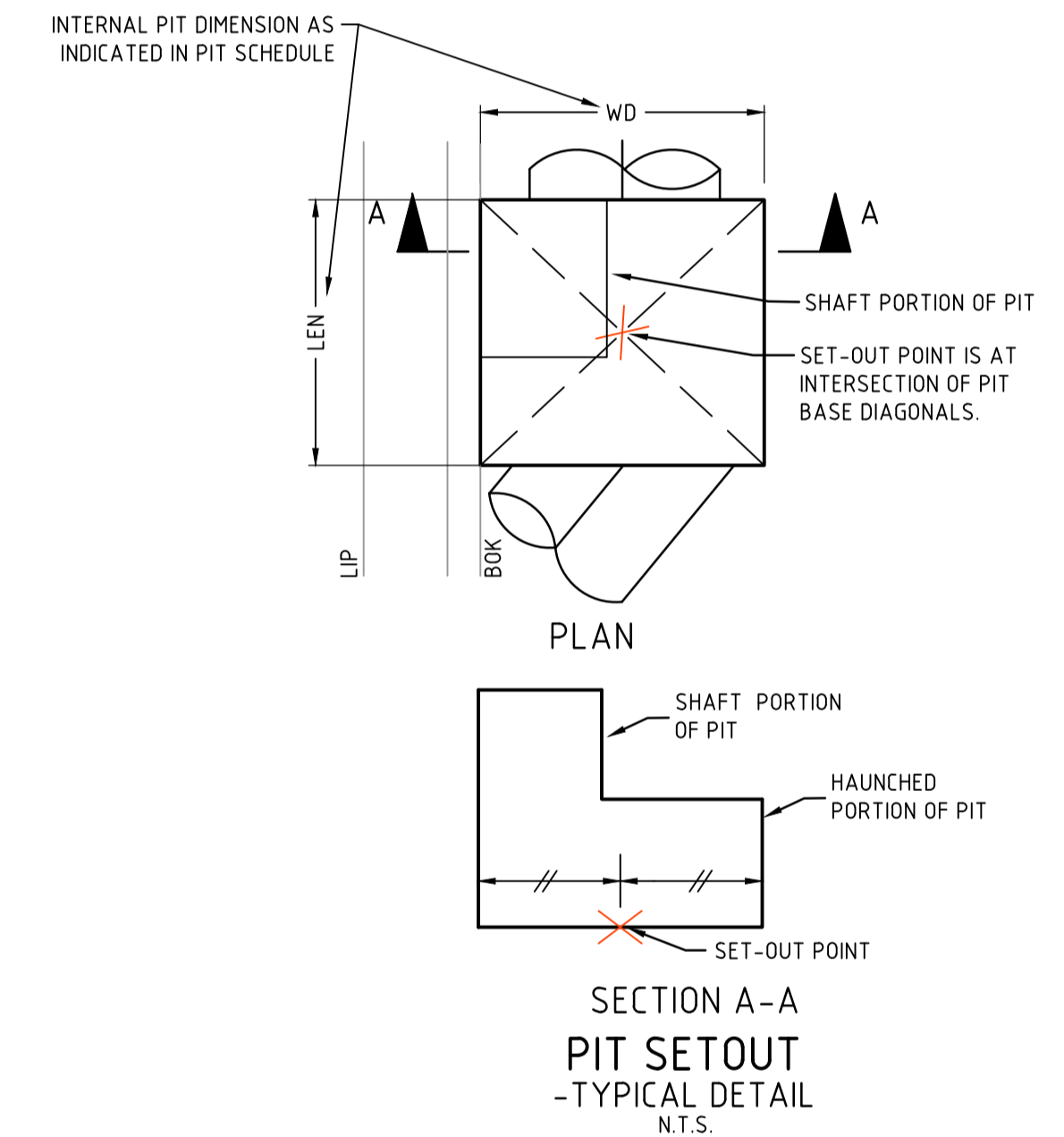
CITY OF BALLARAT
ALLUVIUM ESTATE, WINTER VALLEY
STAGE 5
DRAINAGE LONGITUDINAL SECTIONS - 2

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DRAWING No.	5R9	VERSION	B
REFERENCE	22558E		
SHEET	9	OF	11

PIT SCHEDULE

PIT NUMBER	PIT TYPE	SETOUT COORDINATES		INTERNAL DIMENSION		INLET		OUTLET		PIT			REMARKS
		EASTING	NORTHING	WD	LEN	DIA	INV	DIA	INV	RL	DEPTH	STD DWG	
79	END PIPE	746,669.06	5,838,034.16			600	436.387	Ex.600	Ex.436.387	438.088	1.701		CONNECT PROPOSED 600dia TO Ex.ENDPIPE
80	SIDE ENTRY PIT	746,649.17	5,838,037.72	900	900	450	436.529	600	436.454	438.188	1.734	BALLARAT SD-P1-2	PROVIDE STEP IRONS
81	SIDE ENTRY PIT - 1.8m INLET	746,624.02	5,838,042.18	900	1800	375	436.567	450	436.614	438.077	1.463	BALLARAT SD-P2-2	PROVIDE STEP IRONS
82	SIDE ENTRY PIT	746,566.47	5,838,052.39	900	900	300	436.923	375	436.886	438.371	1.485	BALLARAT SD-P1-2	PROVIDE STEP IRONS
83	SIDE ENTRY PIT	746,541.75	5,838,056.78	900	900	300	436.923	300	437.107	438.497	1.391	BALLARAT SD-P1-2	PROVIDE STEP IRONS
86	SIDE ENTRY PIT	746,639.73	5,838,031.12	900	900	300	436.65	375	436.613	438.268	1.655	BALLARAT SD-P1-2	PROVIDE STEP IRONS
87	SIDE ENTRY PIT	746,627.96	5,837,964.80	900	900	300	436.699	300	437.066	438.294	1.229	BALLARAT SD-P1-2	PROVIDE STEP IRONS
88	SIDE ENTRY PIT	746,631.06	5,838,032.66	900	900	300	436.699	300	436.699	438.268	1.569	BALLARAT SD-P1-2	PROVIDE STEP IRONS
89	SIDE ENTRY PIT	746,619.51	5,837,967.58	900	900	300	437.072	300	437.072	438.301	1.229	BALLARAT SD-P1-2	PROVIDE STEP IRONS
90	SIDE ENTRY PIT - 1.8m INLET	746,625.55	5,838,050.85	900	1800	375	436.687	375	436.687	438.077	1.390	BALLARAT SD-P2-2	PROVIDE STEP IRONS
91	SIDE ENTRY PIT	746,584.20	5,838,058.19	900	900	300	436.892	375	436.855	438.288	1.433	BALLARAT SD-P1-2	PROVIDE STEP IRONS
92	SIDE ENTRY PIT	746,543.83	5,838,065.35	900	900	300	437.120	300	437.12	438.495	1.374	BALLARAT SD-P1-2	PROVIDE STEP IRONS
93	JUNCTION PIT	746,519.24	5,838,069.86	900	900	300	437.393	300	437.393	438.627	1.233	BALLARAT SD-P10-2	PROVIDE STEP IRONS
94	SIDE ENTRY PIT	746,557.02	5,838,045.79	900	900	300	436.987	300	436.987	438.466	1.479	BALLARAT SD-P1-2	PROVIDE STEP IRONS
95	SIDE ENTRY PIT	746,548.35	5,838,047.33	900	900	300	437.037	300	437.071	438.466	1.394	BALLARAT SD-P1-2	PROVIDE STEP IRONS
96	SIDE ENTRY PIT	746,550.36	5,838,008.28	900	900	300	437.342	300	437.342	438.547	1.205	BALLARAT SD-P1-2	PROVIDE STEP IRONS
100	SANDBAG ENDWALL	746,501.67	5,837,983.17			300	436.644			437.000	0.356		PROVIDE TEMPORARY SANDBAG ENDWALL TO SUIT TEMPORARY 300dia DRAIN
101	JUNCTION PIT	746,498.87	5,837,987.61	600	900	225	436.673	300	436.673	437.353	0.680	BALLARAT SD-P10-2	
102	JUNCTION PIT	746,506.61	5,838,032.24	600	900	225	437.304	225	437.254	438.379	1.125	BALLARAT SD-P10-2	
103	JUNCTION PIT	746,522.37	5,838,029.45	600	900	225	437.432	225	437.432	438.498	1.066	BALLARAT SD-P10-2	



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	REMARKS		

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DATUM	AHD	AUTHORISED BY	H. DAY

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CITY OF BALLARAT
 ALLUVIUM ESTATE, WINTER VALLEY
 STAGE 5
 DRAINAGE PIT SCHEDULE

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DRAWING No.	5R10	VERSION	A
REFERENCE	22558E		
SHEET	10	OF	11

NOTES

1. SIGNS, LINEMARKING AND RRPMS SHALL BE INSTALLED IN ACCORDANCE WITH AS1742 "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" UNLESS INDICATED OTHERWISE.
2. TACTILE GROUND SURFACE INDICATORS (TGSII) TO BE INSTALLED AT LOCATIONS SHOWN ON THE APPROVED PLANS, IN ACCORDANCE WITH AS1428.4

ALL PRAM CROSSING TO HAVE TACTILE GROUND SURFACE INDICATOR PAD TO AS 1428

SIGN LEGEND

- 1. STREET NAME SIGNS, STREET NAME BLADES IN ACCORDANCE WITH CITY OF BALLARAT STANDARD DRAWING SD-501
- 2. D4-5
- TEMPORARY TURNING CIRCLE & NO ROAD SIGN

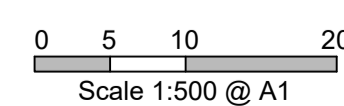


WARNING

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

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MELWAY		CHECKED BY	L. PHAN
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CITY OF BALLARAT
ALLUVIUM ESTATE, WINTER VALLEY
STAGE 5
SIGNS & LINEMARKING PLAN

DRAWING No.	VERSION
5R11	A
REFERENCE	
22558E	
SHEET	11 OF 11

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VERSION	REMARKS	DATE	BY
A	ISSUE TO COUNCIL	16.06.22	LP