

CONROY'S GREEN STAGE 4 SAN HUBERTO PROPERTY P/L

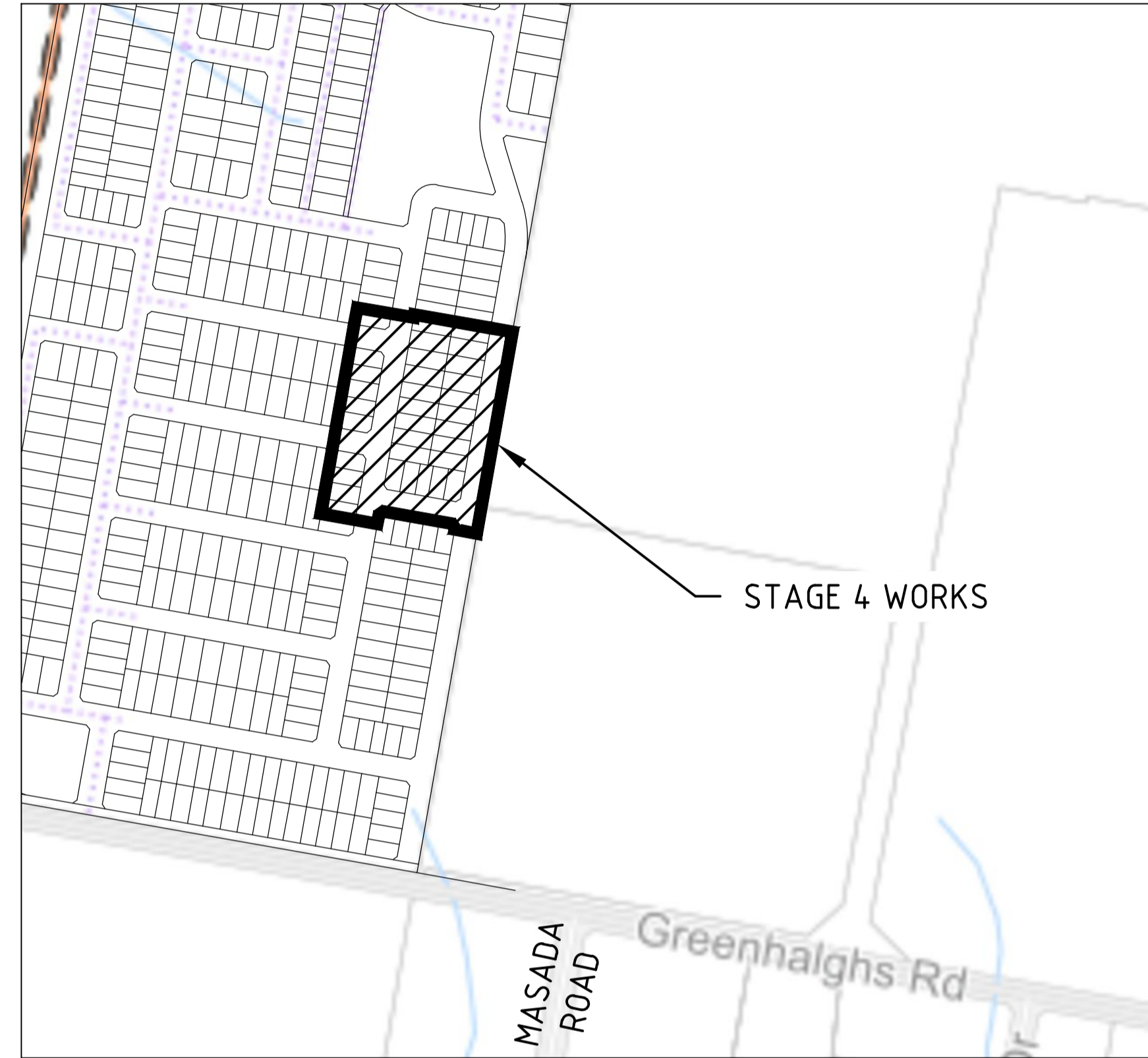
GENERAL NOTES:

A. GENERAL

- ALL WORK TO BE CARRIED OUT TO CITY OF BALLARAT & IDM SPECIFICATIONS, STANDARD DRAWINGS AND TO THE SATISFACTION OF COUNCIL'S SENIOR SURVEILLANCE OFFICER OR HIS REPRESENTATIVE.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) ZONE 54.
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND ONLY RE-TOPSOILED ON THE DIRECTION OF THE ENGINEER, TO THE FINAL FILL LEVELS SHOWN ON THE DRAWINGS. ALL FILLING IS TO BE:
 - APPROVED BY THE PROJECT GEOTECHNICAL CONSULTANT.
 - PLACED IN LAYERS NOT EXCEEDING 200MM LOOSE THICKNESS.
 - MOISTURE CONDITIONED TO WITHIN 85% TO 115% OF OPTIMUM MOISTURE CONTENT.
 - COMPACTED TO A MINIMUM 95% (STANDARD) DRY DENSITY RATIO.
 - PLACED UNDER "LEVEL 1" SUPERVISION IN ACCORDANCE WITH AS 3798-1996.
- EXISTING DEPRESSIONS & DRAINS TRAVERSING THE SITE ARE TO BE CLEANED OUT AND DESLUDGED TO FIRM BASE AND FILLED TO FINISHED SURFACE LEVELS TO THE SPECIFIED COMPACTION STANDARDS.
- TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF TBM'S THEREAFTER.
- POSITION CONDUITS SO THAT A MINIMUM DISTANCE BETWEEN TAPPING IS 1.0M. CONDUITS TO BE LOCATED MIDWAY BETWEEN FENCE LINE OF LOT, UNLESS OTHERWISE SHOWN.
- BEFORE COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 1.5 M DEEP, THE REQUIRED NOTICE IS TO BE SENT TO THE VICTORIAN WORKCOVER AUTHORITY IN ACCORDANCE WITH THE MINES ACT, 1958 NO 6370 SECTION 385 AND THE OCCUPATIONAL HEALTH AND SAFETY ACT 1985. THIS NOTIFICATION MUST BE RECEIVED BY THE AUTHORITY AT LEAST 3 DAYS PRIOR TO COMMENCING EXCAVATIONS, AND A COPY OF THE NOTIFICATION MUST BE PROVIDED TO THE SUPERINTENDENT.
- COUNCIL'S REPRESENTATIVE IS TO BE NOTIFIED IN WRITING SEVEN (7) DAYS PRIOR TO THE COMMENCEMENT OF WORKS.
- NO EXCAVATION WITHIN 5M OF ANY EXISTING TREE WITHOUT APPROVAL OF THE ENGINEER.
- NO BLASTING IS PERMITTED WITHIN THE CITY OF BALLARAT WITHOUT OBTAINING COUNCIL'S SPECIAL DISPENSATION.
- EXCAVATED MATERIAL SURPLUS TO FILLING REQUIREMENTS OF THE WORKS SHALL BE REMOVED FROM SITE AS SPECIFIED.
- ALL SURPLUS ROCK, CONCRETE AND BITUMINOUS RUBBLE SHALL BE DISPOSED OFF SITE AS SPECIFIED. THE CONTRACTOR SHALL CHECK WITH SUPERINTENDENT WHETHER ANY LARGE ROCKS ARE REQUIRED FOR LANDSCAPE PURPOSES PRIOR TO DISPOSAL.
- NATURESTRIPS AND ALL AREAS OF CUT OUTSIDE ROAD RESERVE TO BE SURFACED WITH 100MM MINIMUM COMPACTED LAYER OF TOPSOIL.
- CULTURAL HERITAGE AREAS TO BE STRIPPED OF TOPSOIL TO A DEPTH OF APPROXIMATELY 350MM AND PLACED ON EXISTING TOPSOIL STOCKPILE FOR RE-SPREADING AT A LATER DATE.

B. ROAD WORKS

- FOOTPATHS ARE TO BE 1.5M WIDE UNLESS SHOWN OTHERWISE. FOOTPATHS TO BE CONSTRUCTED TO THE CITY OF BALLARAT STANDARDS.
- CONSTRUCT LAYBACK SECTION AT VEHICLE CROSSING, REVERSING BAYS AND CAR PARKING BAYS AND PRAM CROSSING TO THE CITY OF BALLARAT STANDARDS.
- ALL CHAINAGES REFER TO ROAD PAVEMENT CENTRELINES EXCEPT IN COURT HEADS AND INTERSECTIONS WHERE CHAINAGES REFER TO BACK OF KERB.
- THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE MADE GOOD.
- ALL BATTERS SHALL BE TO THE CITY OF BALLARAT STANDARDS.
 - CUT 1 IN 12 UNLESS OTHERWISE SHOWN.
 - FILL 1 IN 12 UNLESS OTHERWISE SHOWN.
- ALL SET OUT INFORMATION GIVEN IS TO BACK OF KERB UNLESS OTHERWISE SHOWN.
- WHERE CRUSHED ROCK IS SHOWN UNDER CONCRETE FOOTPATHS CONSTRUCTED ON FILL, THE CRUSHED ROCK IS TO BE 20MM CLASS 3. WHERE CUT BATTERS ARE STEEPER THAN 1:6 THEY MUST BE HYDRO MULCHED.
- SUBGRADE BE COMPACTED TO A MINIMUM OF 98% STANDARD MAXIMUM DRY DENSITY (AS3798), WITH THE SUBBASE COMPACTED IN ACCORDANCE WITH SCALE C IN VICROADS TABLE 304.071 USING FINE CRUSHED ROCK AND THE BASE COURSE TO AN AVERAGE OF 100% MINIMUM MODIFIED DRY DENSITY. ANY FILLING BENEATH ROAD PAVEMENT AREAS TO BE COMPACTED TO 100% OF MAXIMUM DRY DENSITY. COMPACTION TESTING TO BE AS PER COUNCIL REQUIREMENTS.
- ANY BACKFILL WITHIN 1.0M OF A COUNCIL ASSET (FOOTPATH OR ROAD) IS TO BE FCR. FILL MATERIAL IS ACCEPTABLE IF COMPACTED TO ENSURE 95% COMPACTION. COMPACTION TESTING TO BE PERFORMED AT ONE PER 60M OF TRENCH.
- CONCRETE TO HAVE 28DAY STRENGTH OF 25MPA UNLESS NOTED OTHERWISE.
- MATERIALS AND SUPPLIERS CALLED IN THE SPECIFICATION, SCHEDULES OR PLANS SHALL NOT BE SUBSTITUTED WITHOUT PRIOR WRITTEN APPROVAL AS PER 'ENVIRODEVELOPMENT - NATIONAL TECHNICAL STANDARD VERSION 2'. ALL RECEIPTS MUST BE RETAINED AND PROVIDED UPON REQUEST.



LOCALITY PLAN



LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	--- DW ---	--- DW ---
UNDERGROUND ELECTRICITY	--- E ---	--- E ---
TELECOMMUNICATIONS & SERVICE PIT	--- T ---	--- T ---
OPTIC FIBRE	--- OF ---	--- OF ---
GAS MAIN	--- G ---	--- G ---
BRANCH SEWER & MAINTENANCE STRUCTURE	--- S ---	--- S ---
SEWER & MAINTENANCE STRUCTURE	--- S ---	--- S ---
SEWER RISING MAIN	--- SRM ---	--- SRM ---
CENTRAL INVERT	> >	> >
COUNCIL STORMWATER DRAIN AND PIT	--->---	--->---
STORM WATER DRAINAGE PROPERTY INLETS	--->---	--->---
COUNCIL STORM WATER PITS	--->---	--->---
HOUSE DRAIN	--->---	--->---
AG DRAIN AND FLUSHER	--->---	--->---
STORM WATER DRAINAGE PIT NUMBER	(Ex 4.7)	(1)
GAS & WATER CONDUITS	--- GW ---	--- GW ---
CONCRETE VEHICLE CROSSING	--->---	--->---
SURFACE CONTOUR MINOR	--- 169.00 ---	--- 169.00 ---
SURFACE CONTOUR MAJOR	--- 168.90 ---	--- 168.90 ---
SURFACE LEVEL	E123.45	F124.68
BATTER LEVEL (TOP / TOE)	T124.80	T124.80
RETAINING WALL LEVEL (TOP/BOTTOM)	TW112.76	TW128.50 BW126.74
EARTHWORKS GRADE	1 in 150	1 in 150
SIGN AND POST	--->---	--->---
LIGHT & POLE (BY OTHERS)	--->---	--->---
STREET SIGN	--->---	--->---
PERMANENT SURVEY MARK	--->---	--->---
TEMPORARY BENCH MARK	--->---	--->---
BOLLARD	--->---	--->---
ROAD CHAINAGES	CH116.57 (L/R)TP CH116.57	CH116.57 (L/R)TP CH116.57
LOT CHAINAGES	CH20.06	CH20.06
SETOUT POINT	--->---	--->---
LIMIT OF WORKS	--->---	--->---
BATTER	--->---	--->---
EXCAVATION GREATER THAN 0.20m	--->---	--->---
FILLING GREATER THAN 0.20m	--->---	--->---
ROCK BEACHING	--->---	--->---
FENCE - TREE PROTECTION	--->---	--->---
FENCE - VEHICLE EXCLUSION	--->---	--->---
FENCES	--->---	--->---
GUARD RAIL	--->---	--->---
TREE TO BE PROTECTED	--->---	--->---
TREE TO BE REMOVED	--->---	--->---
VEGETATION LINE	--->---	--->---
FOOTPATH	--->---	--->---
TACTILE GROUND SURFACE INDICATOR	--->---	--->---
KERB TRANSITION	--->---	B2 SM2

DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES	1	0
CR200	ROAD LAYOUT PLANS - SHEET 1	2	0
CR201	ROAD LAYOUT PLANS - SHEET 2	3	0
CR300	ROAD LONG SECTIONS - SHEET 1	4	0
CR301	ROAD LONG SECTIONS - SHEET 2	5	0
CR302	ROAD LONG SECTIONS - SHEET 3	6	0
CR400	ROAD CROSS SECTIONS - SHEET 1	7	0
CR401	ROAD CROSS SECTIONS - SHEET 2	8	0
CR402	ROAD CROSS SECTIONS - SHEET 3	9	0
CR403	ROAD CROSS SECTIONS - SHEET 4	10	0
CR404	ROAD CROSS SECTIONS - SHEET 5	11	0
CR500	INTERSECTION DETAILS - SHEET 1	12	0
CR501	INTERSECTION DETAILS - SHEET 2	13	0
CR600	DRAINAGE LONG SECTIONS - SHEET 1	14	0
CR601	DRAINAGE LONG SECTIONS - SHEET 2	15	0
CR602	DRAINAGE LONG SECTIONS - SHEET 3	16	0
CR603	DRAINAGE PIT SCHEDULE	17	0
CR700	PAVEMENT AND TYPICAL DETAILS	18	0
CR800	SIGNAGE AND LINEMARKING	19	0

SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE	
GOLDFINCH ROAD	E	3.00	E	2.50	W	1.85	W	1.0x	W	2.65
CORMORANT GRANGE	E	2.95	E	2.40	W	1.80	W	1.0x	W	2.70
GULL STREET	N	2.95	N	2.40	S	1.80	S	1.0x	S	2.70
HAWK STREET	S	2.95	S	2.40	N	1.80	N	1.0x	N	2.70
SPARROW WAY	N	2.95	N	2.40	S	1.80	S	1.0x	S	2.70

- 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.
- * = OFFSET FROM BACK OF KERB



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.

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Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	A.W	11/11/21
B	ISSUED FOR APPROVAL	A.W	11/10/21
A	PRELIMINARY ISSUE	AW	06/07/21

Scale

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Designed S.WOOD	Checked B.IBBS
Authorised A. WILKIE	Date 11/11/21

CONROY'S GREEN
STAGE 4
ROAD AND DRAINAGE
GENERAL NOTES
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY P/L

CONSTRUCTION

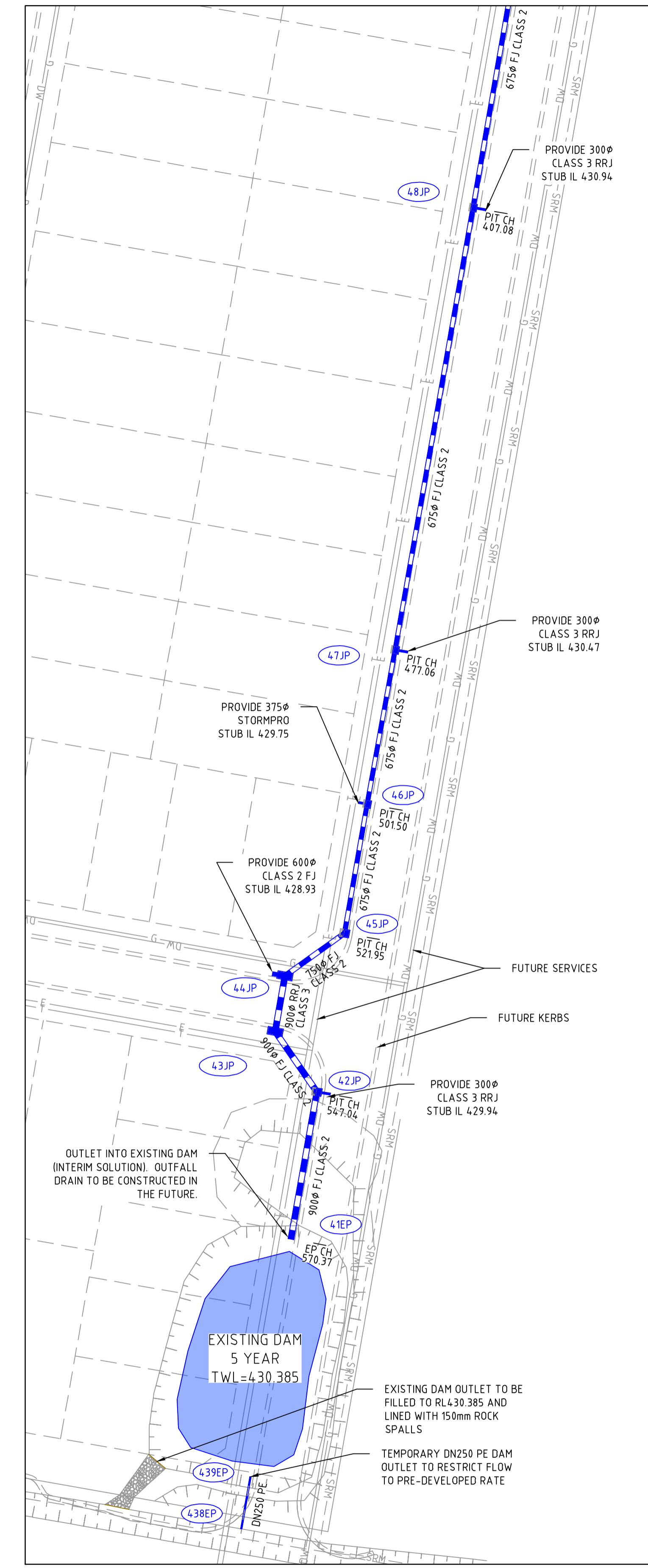
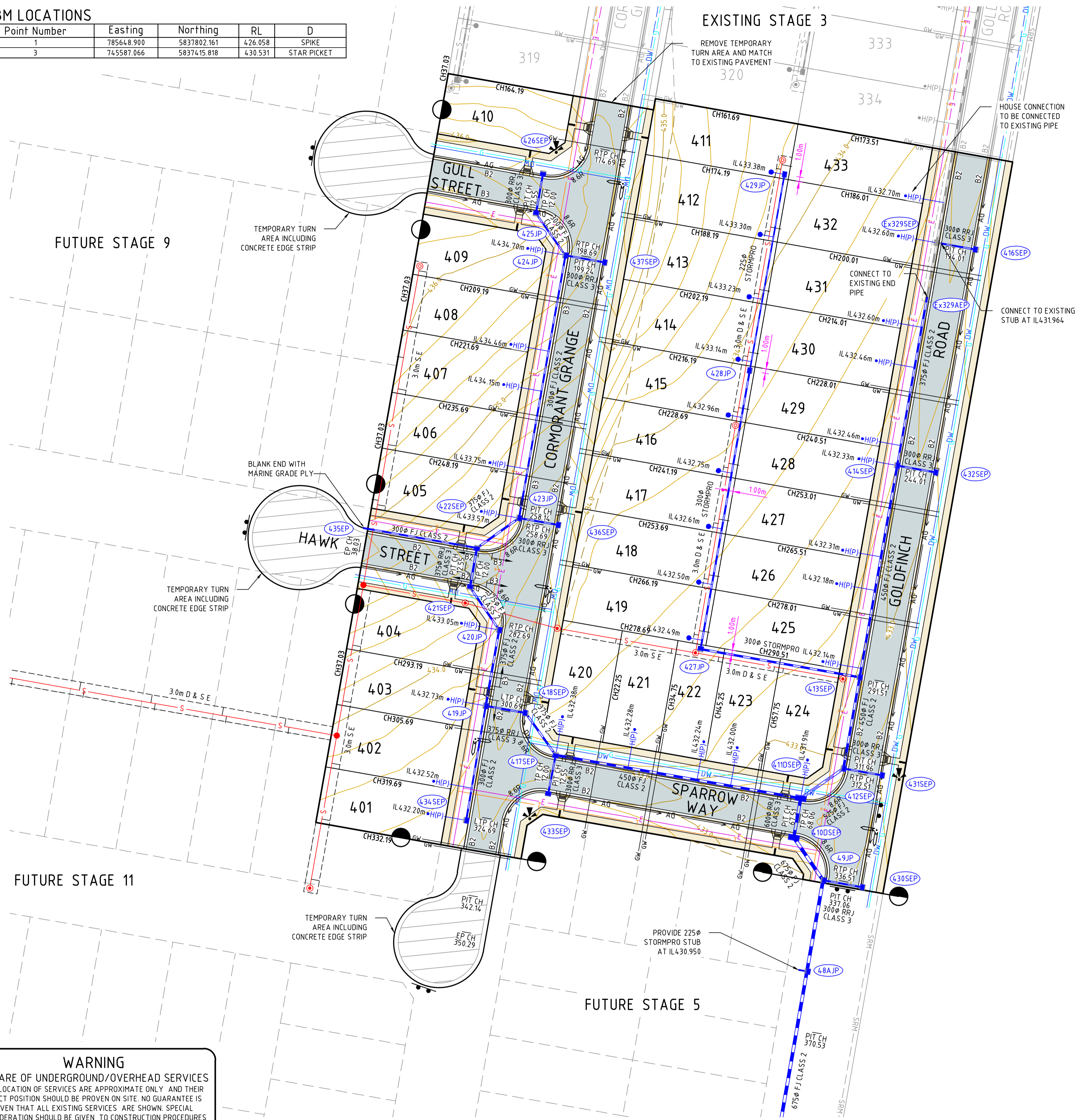
 Drg No
308874CR100

 Rev
0

TBM LOCATIONS

Point Number	Easting	Northing	RL	D
1	78564.8900	5837802.161	426.058	SPIKE
3	745587.066	5837415.818	430.531	STAR PICKET

SEE BELOW LEFT FOR CONTINUATION



SEE ABOVE RIGHT FOR CONTINUATION

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Checked
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 Date
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CONROY'S GREEN
 STAGE 4
 ROAD AND DRAINAGE
 ROAD LAYOUT PLANS
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY P/L

CONSTRUCTION 308874CR200

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Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	A.W	11/11/21
B	REVIEWED PIT TYPES AND FOOTPATHS. AMENDED ROAD NAMES, OUTLET DETAILS	A.W	11/10/21
A	PRELIMINARY ISSUE	AW	06/07/21

DEPTH RANGES (100mm)

FROM	TO	COLOUR
-	-0.80	
-0.80	-0.70	
-0.70	-0.60	
-0.60	-0.50	
-0.50	-0.40	
-0.40	-0.30	
-0.30	-0.20	
-0.20	-0.10	
-0.10	0.00	
0.00	0.10	
0.10	0.20	
0.20	0.30	
0.30	0.40	
0.40	0.50	
0.50	0.60	
0.60	0.70	
0.70	0.80	
0.80	+	



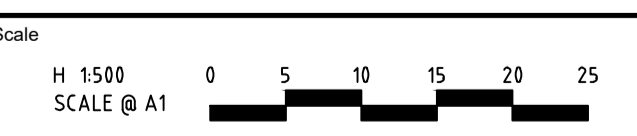
TBM1
E 745587.066
N 583745.818
RL 430.531

TBM3
E 745962.434
N 5837336.182
RL 433.589

EXISTING STAGE 3 OUTFALL DRAIN TO BE CLEANED TO A FIRM BASE AND FILLED UNDER LEVEL 1 SUPERVISION

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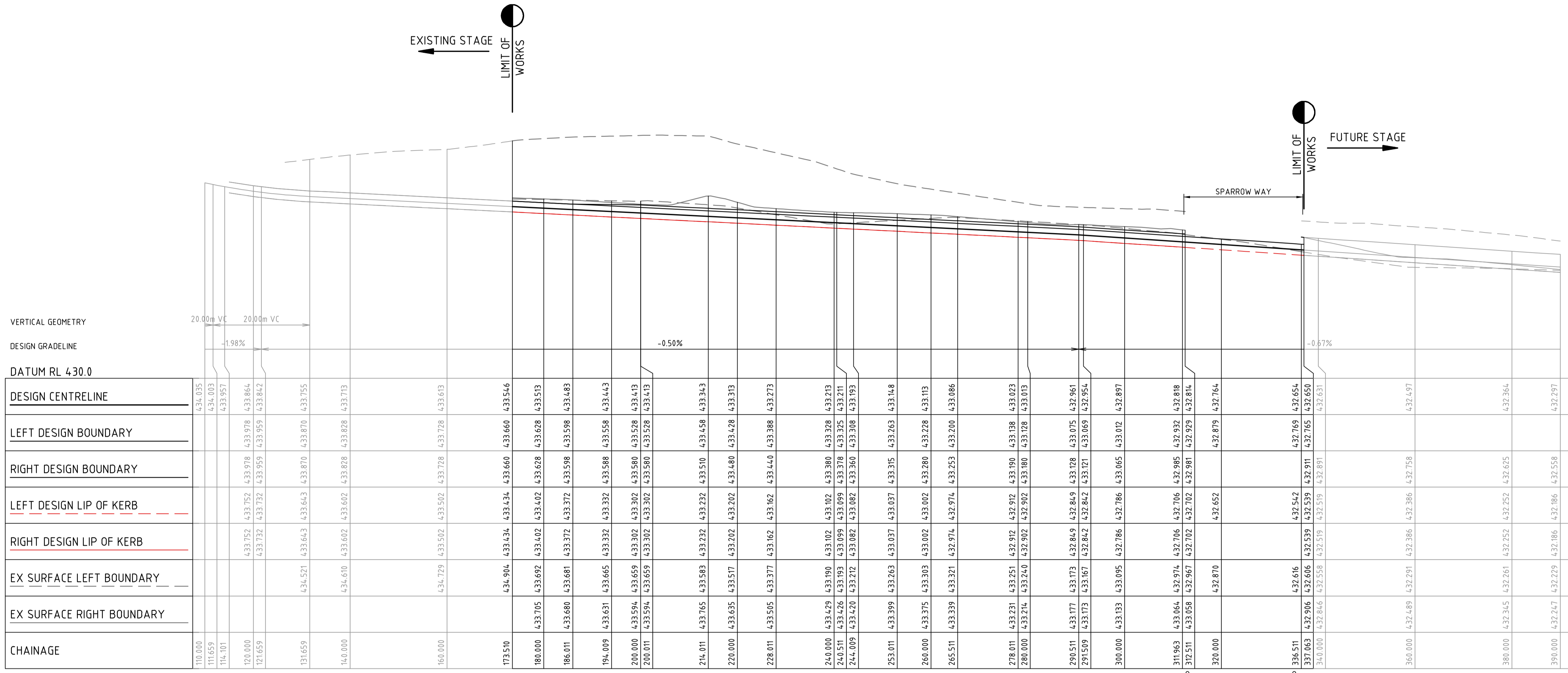
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Authorised A. WILKIE	Date 11/11/21

CONROY'S GREEN
STAGE 4
 ROAD AND DRAINAGE
 ROAD LAYOUT PLANS - CUT/FILL PLAN
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY P/L
CONSTRUCTION Drg No 308874CR201 Rev 0

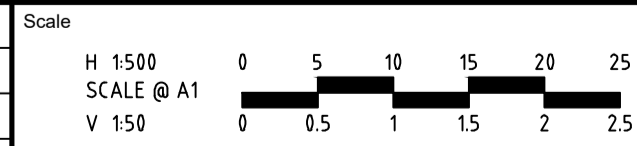
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GOLDFINCH ROAD

CHAINAGE	DESIGN CENTRELINE	LEFT DESIGN BOUNDARY	RIGHT DESIGN BOUNDARY	LEFT DESIGN LIP OF KERB	RIGHT DESIGN LIP OF KERB	EX SURFACE LEFT BOUNDARY	EX SURFACE RIGHT BOUNDARY
110.000	434.035						
111.659	434.003						
114.101	433.957						
120.000	433.752	433.978	433.978	433.864			
121.659	433.732	433.959	433.959	433.842			
131.659	434.521	433.643	433.870	433.755			
140.000	434.610	433.602	433.828	433.713			
160.000	434.729	433.502	433.728	433.613			
173.510	434.904	433.434	433.660	433.546			
180.000	433.705	433.692	433.402	433.628	433.513		
186.011	433.680	433.681	433.372	433.598	433.483		
194.009	433.631	433.665	433.332	433.588	433.558	433.443	
200.000	433.594	433.659	433.302	433.580	433.528	433.413	
200.011	433.594	433.659	433.302	433.580	433.528	433.413	
214.011	433.765	433.583	433.232	433.510	433.458	433.343	
220.000	433.635	433.517	433.202	433.480	433.428	433.313	
228.011	433.505	433.377	433.162	433.440	433.388	433.273	
240.000	433.429	433.190	433.102	433.380	433.328	433.213	
240.511	433.426	433.193	433.099	433.378	433.325	433.211	
244.009	433.420	433.212	433.082	433.360	433.308	433.193	
253.011	433.399	433.263	433.037	433.315	433.263	433.148	
260.000	433.375	433.303	433.002	433.280	433.228	433.113	
265.511	433.339	433.321	432.974	432.974	432.974	433.086	
278.011	433.231	433.251	432.912	432.912	432.912	433.023	
280.000	433.214	433.240	432.902	432.902	432.902	433.013	
290.511	433.177	433.173	432.849	432.849	432.849	432.961	
291.509	433.173	433.167	432.842	432.842	432.842	432.954	
300.000	433.133	433.095	432.786	432.786	432.786	432.897	
311.963	433.064	432.974	432.706	432.706	432.985	432.818	
312.511	433.058	432.967	432.702	432.702	432.981	432.814	
320.000	432.870	432.870	432.652	432.652	432.879	432.764	
336.511	432.616	432.616	432.542	432.542	432.769	432.654	
337.063	432.906	432.606	432.539	432.539	432.911	432.765	
340.000	432.846	432.558	432.519	432.519	432.891	432.631	
360.000	432.489	432.291	432.386	432.386	432.758	432.497	
380.000	432.345	432.261	432.252	432.252	432.605	432.364	
390.000	432.247	432.229	432.186	432.186	432.558	432.297	



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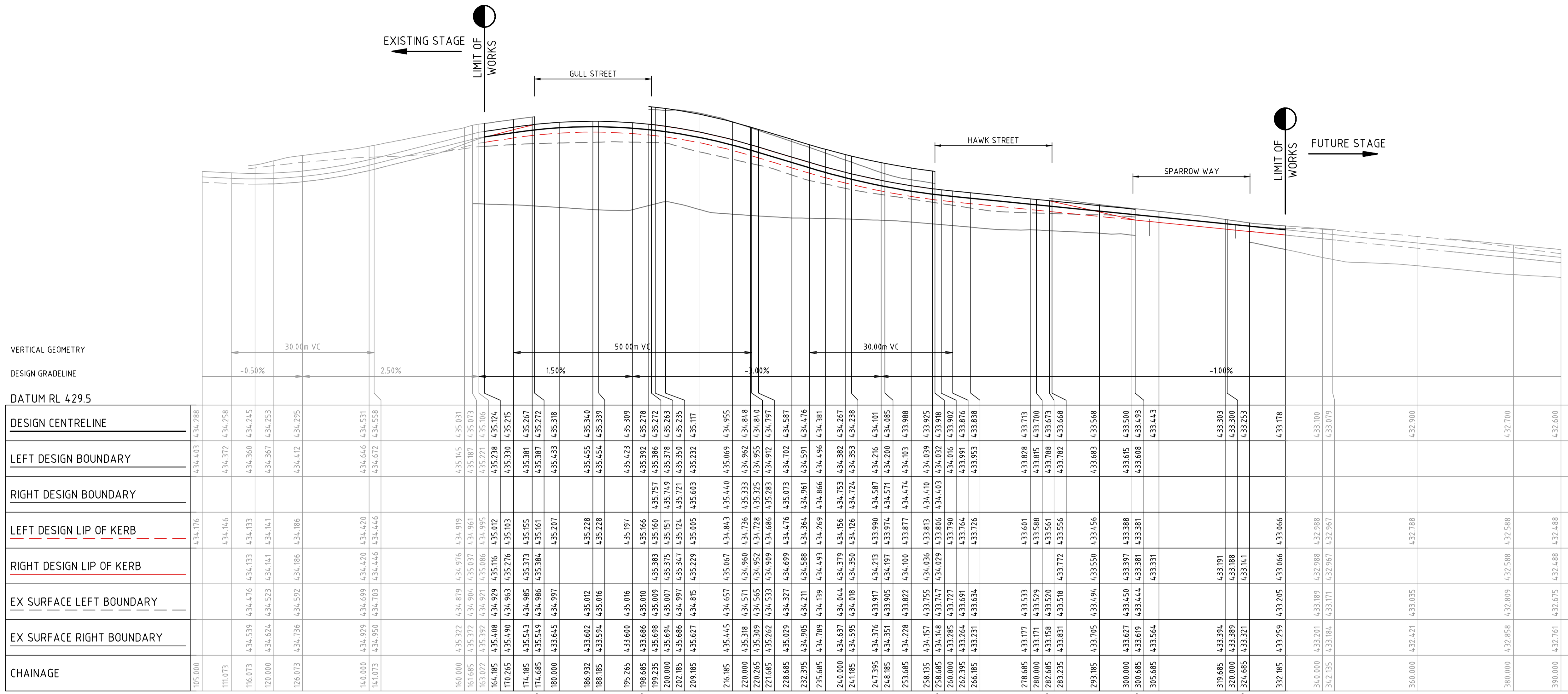
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CONROY'S GREEN
STAGE 4
 ROAD AND DRAINAGE
 ROAD LONG SECTIONS - SHEET 1
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY P/L

CONSTRUCTION Drg No **308874CR300** Rev **0**

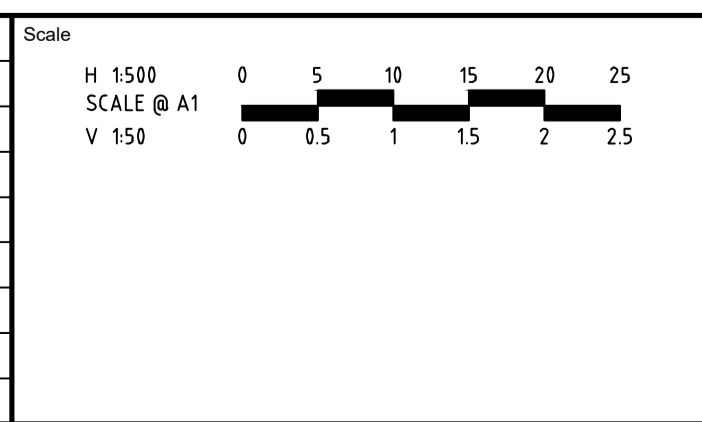
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CORMORANT GRANGE

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0	ISSUED FOR CONSTRUCTION	A.W	11/11/21
B	AMENDED ROAD NAME	A.W	11/10/21
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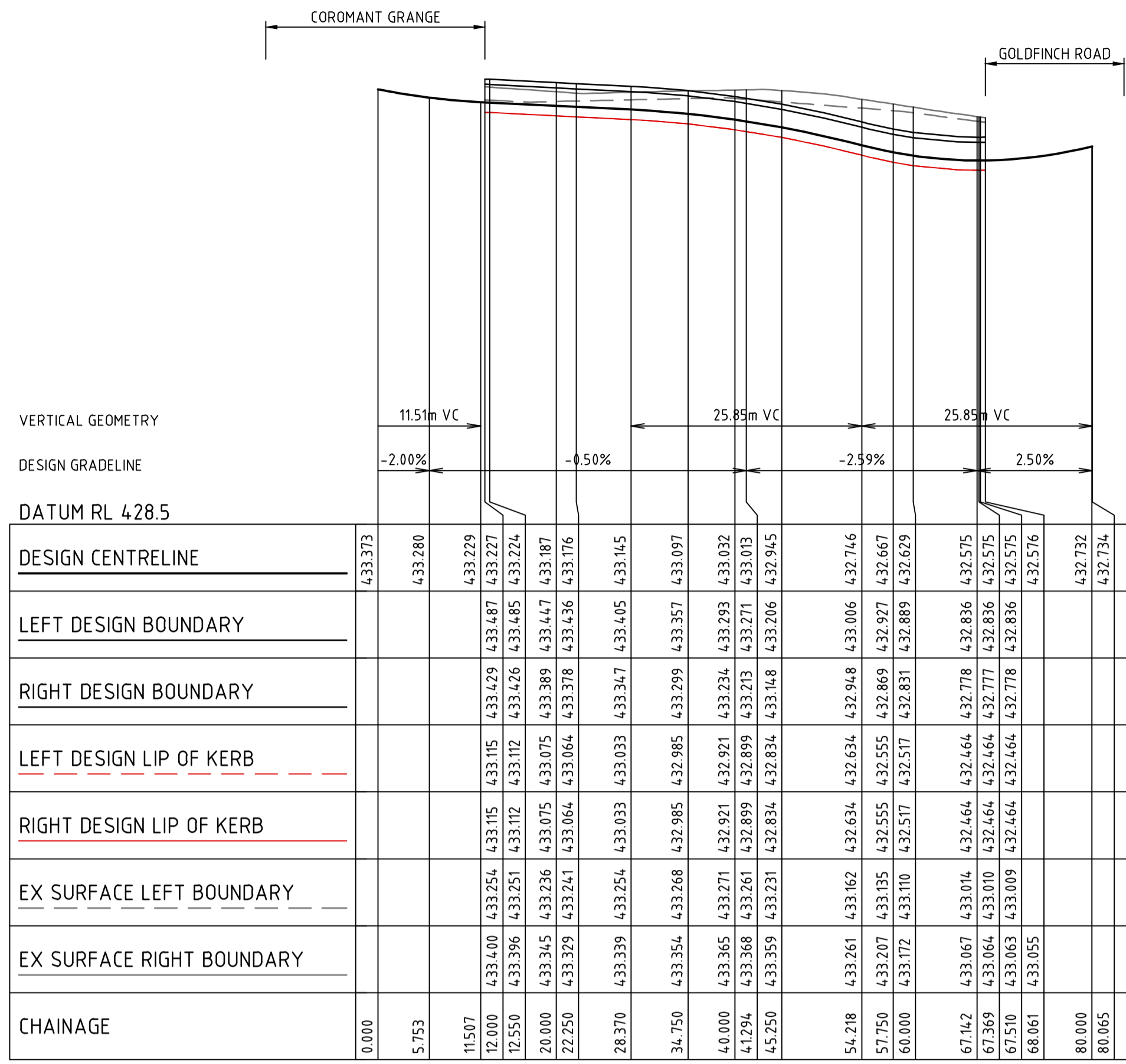
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CONROY'S GREEN
STAGE 4
ROAD AND DRAINAGE
ROAD LONG SECTIONS - SHEET 2
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY P/L

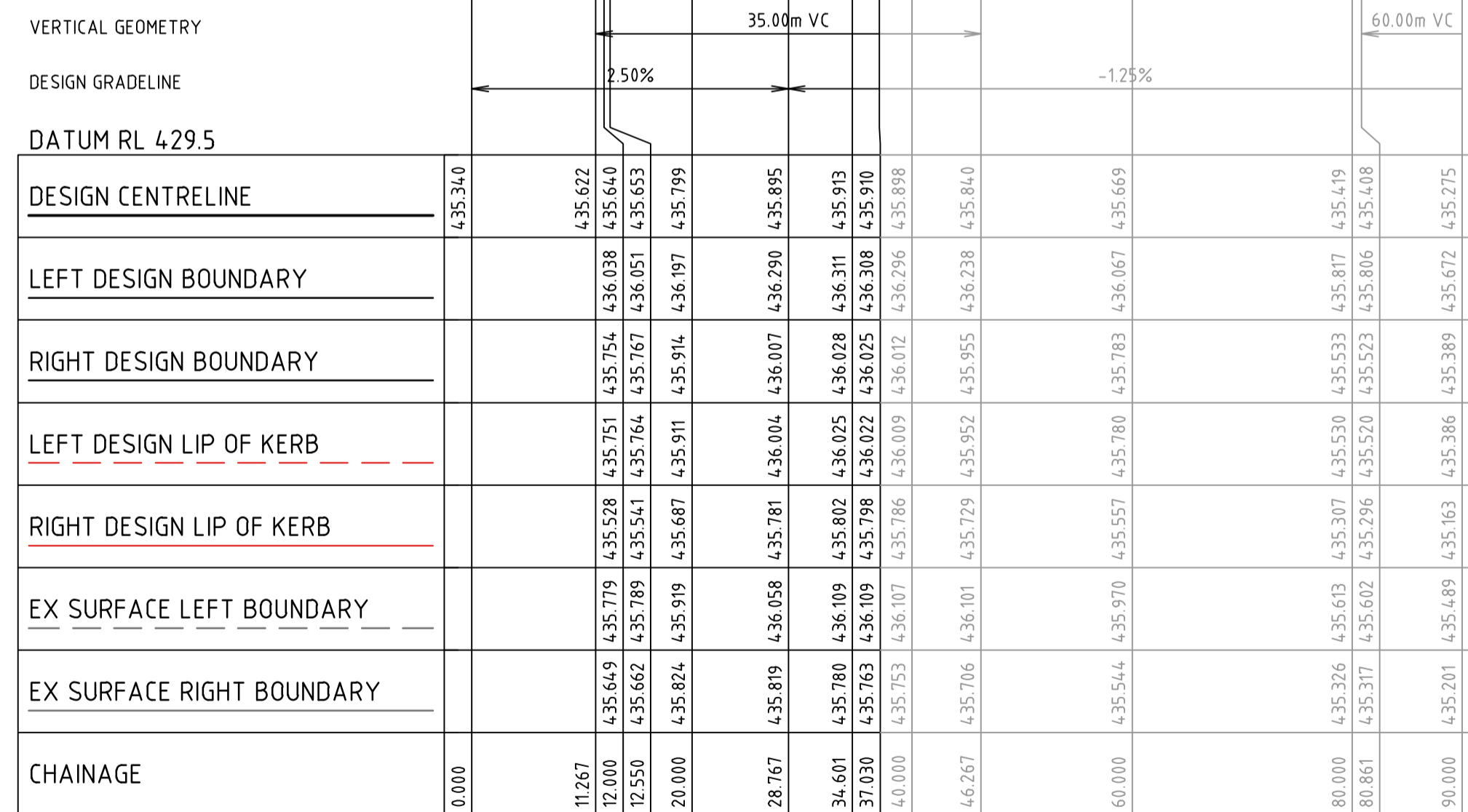
CONSTRUCTION

Drg No **308874CR301** Rev **0**

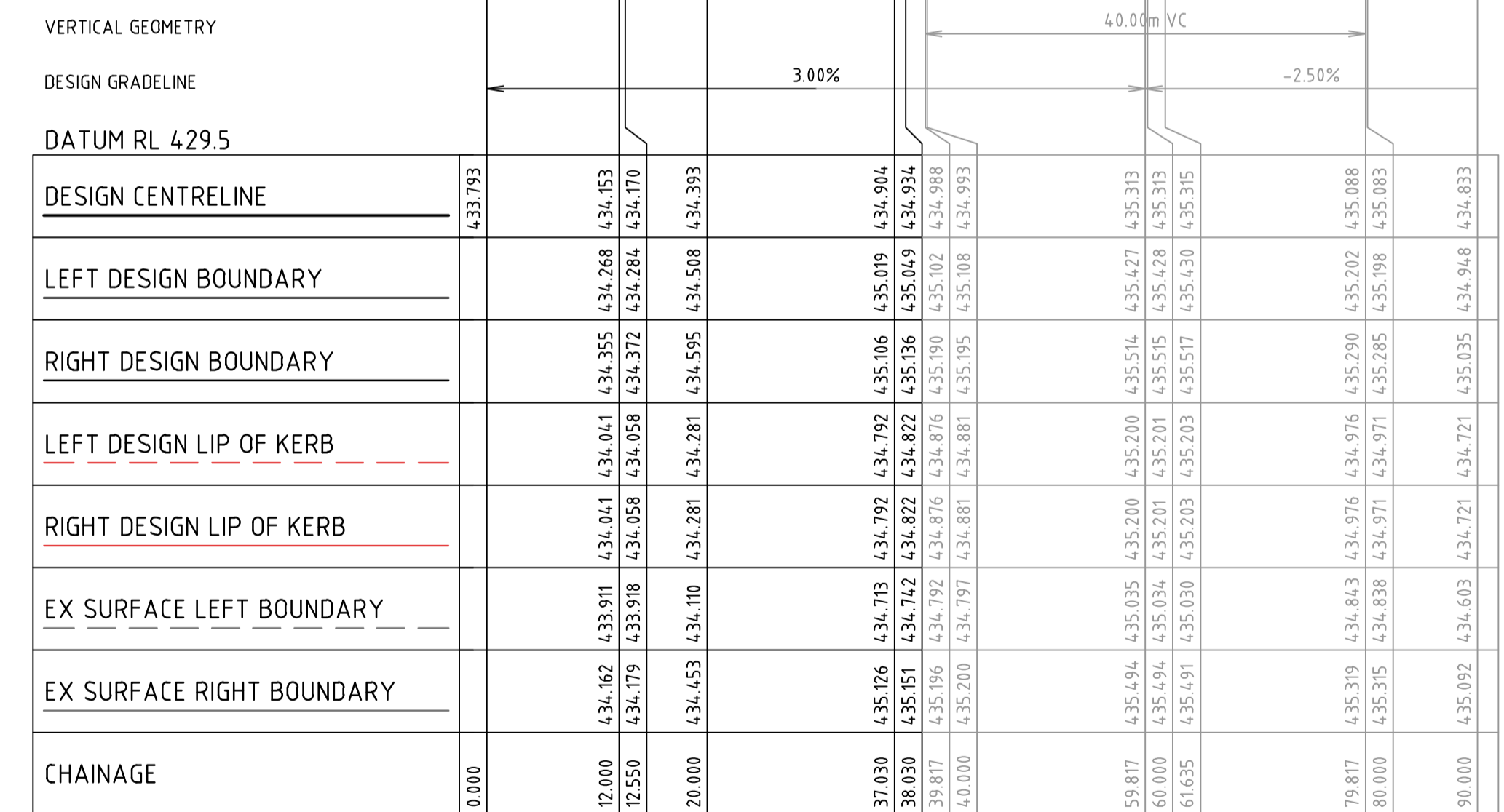
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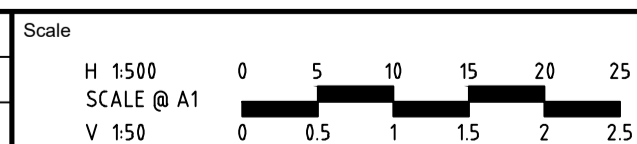
SPARROW WAY



GULL STREET



HAWK STREET



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16 BRIDGE STREET BENDIGO
 VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
 spiire.com.au ABN 55 050 029 635

Designed
S.WOOD
 Authorised
A. WILKIE

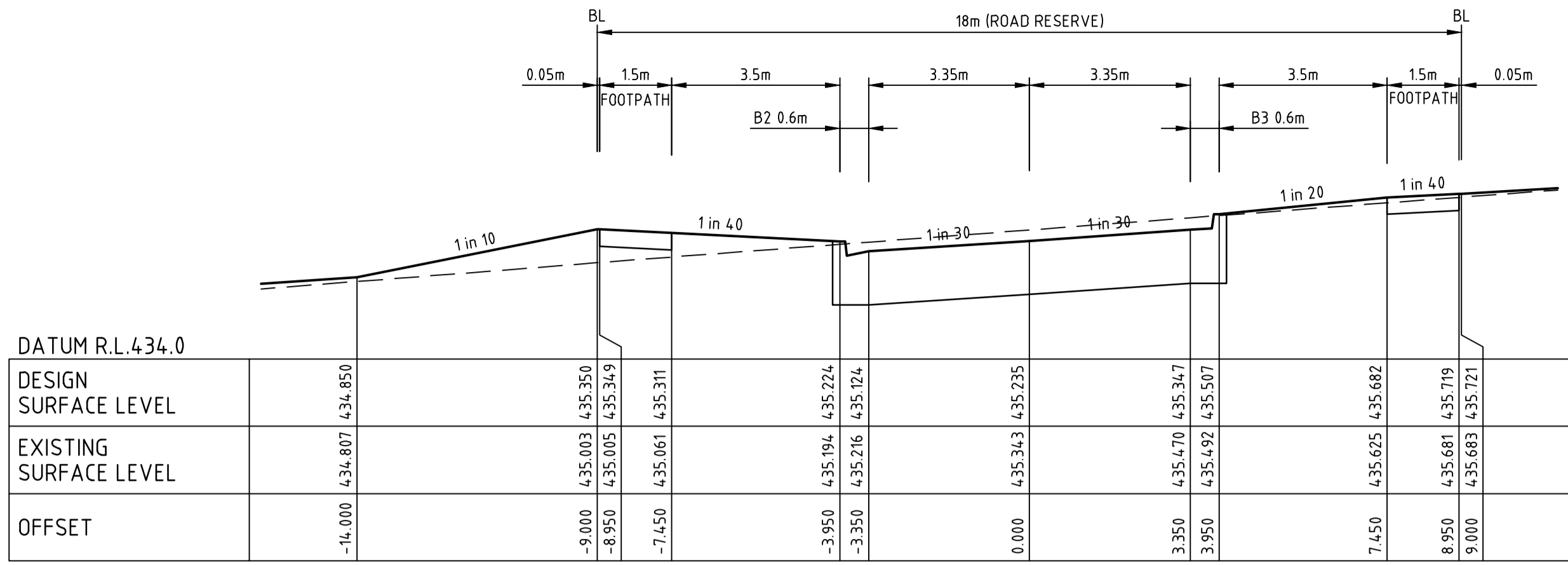
Checked
B.IBBS
 Date
 11/11/21

CONROY'S GREEN
STAGE 4
ROAD AND DRAINAGE
ROAD LONG SECTIONS - SHEET 3
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY P/L

CONSTRUCTION Drg No **308874CR302** Rev **0**

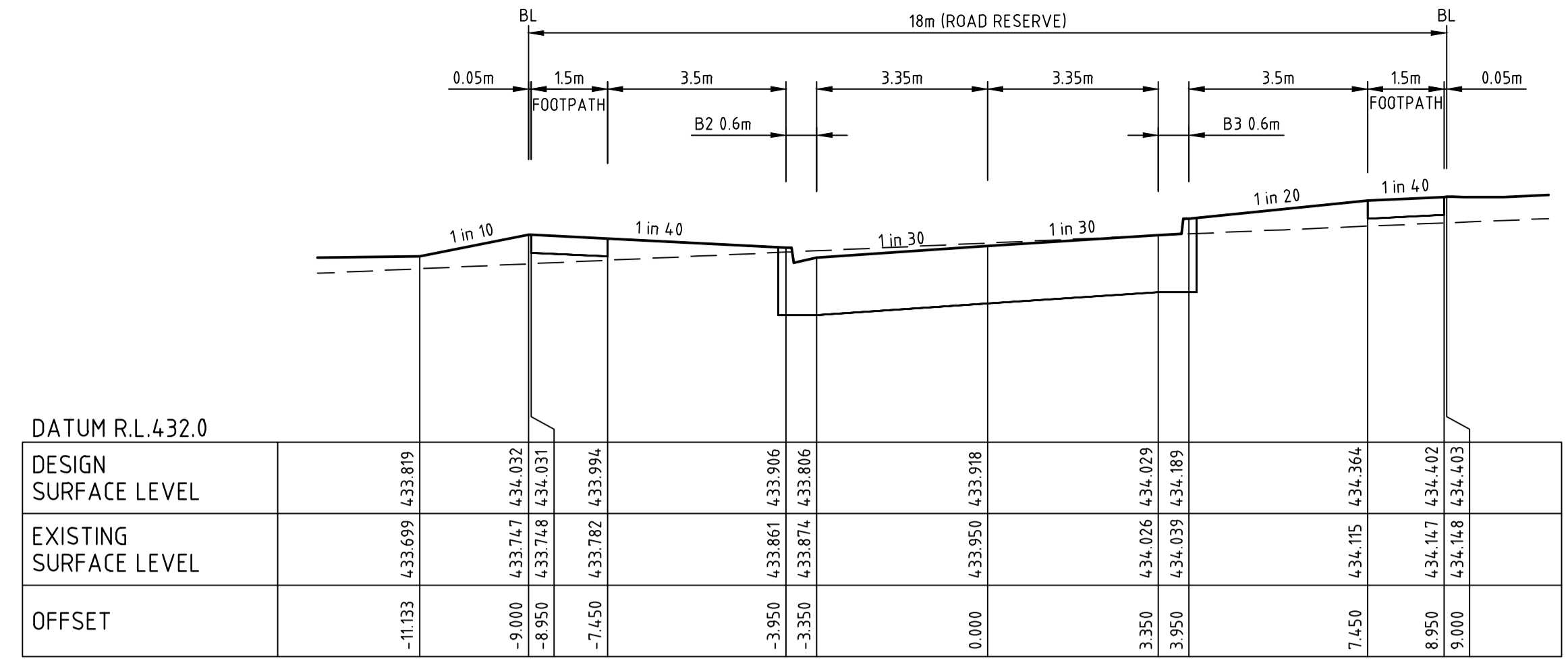
0	ISSUED FOR CONSTRUCTION	A.W	11/11/21
A	PRELIMINARY ISSUE	AW	06/07/21
Rev	Amendments	Approved	Date

file name: 308874CR400.dwg, layout name: CR400, plot date: 11/11/2021, 10:55:48, sheet 7 of 19 sheets



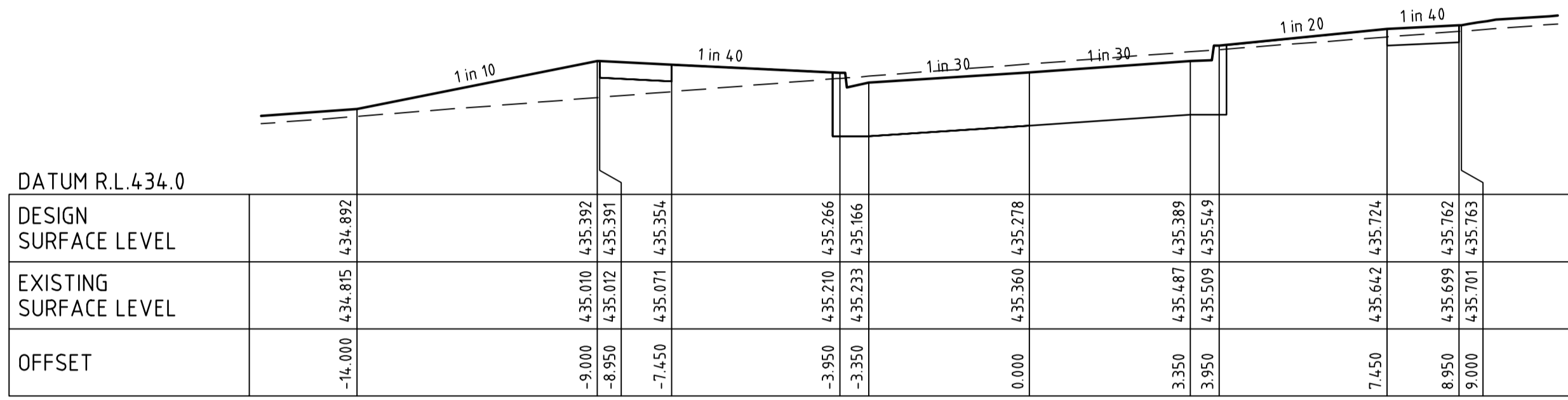
CORMORANT GRANGE

CH 202.19



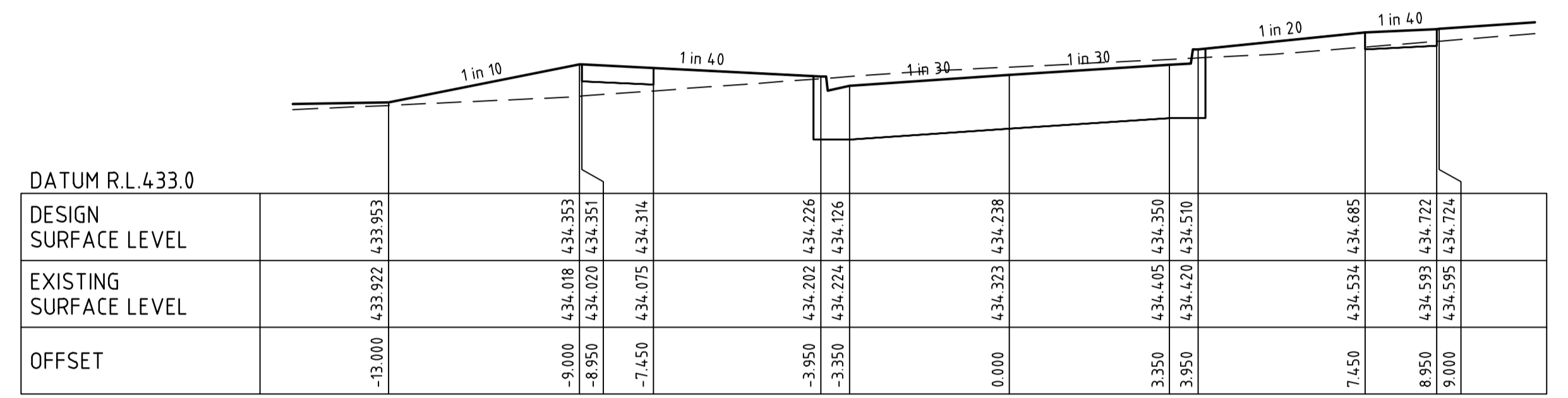
CORMORANT GRANGE

CH 258.69



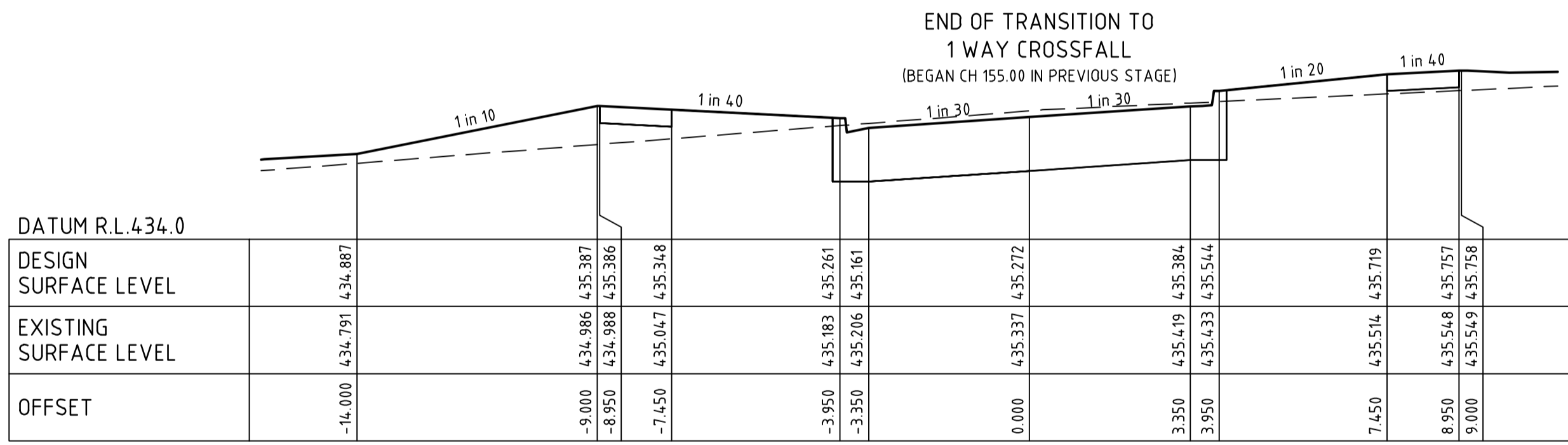
CORMORANT GRANGE

TPCH 198.69



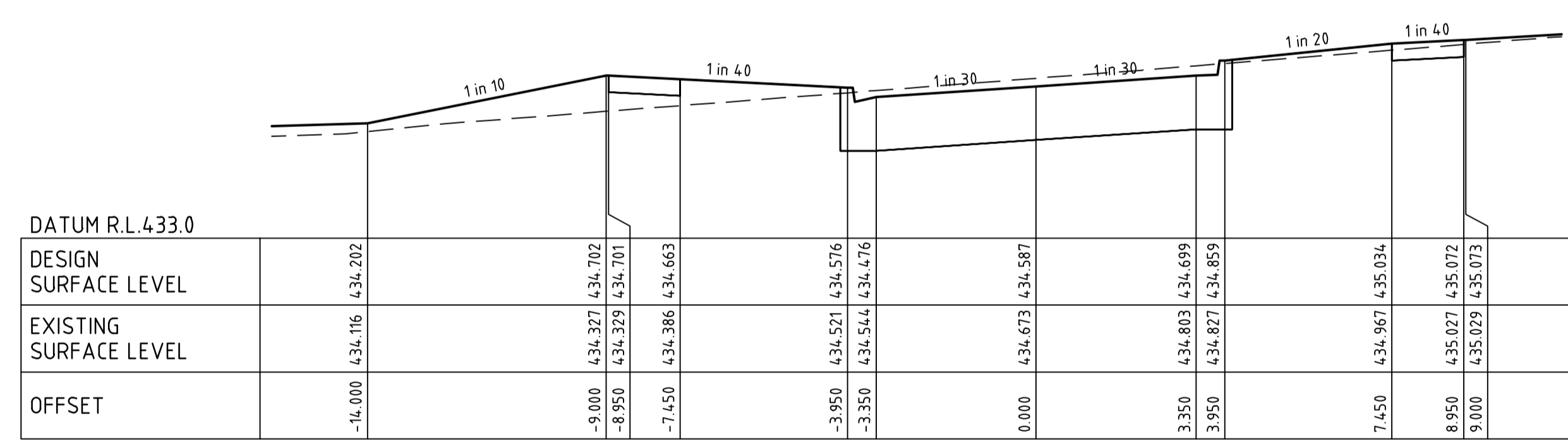
CORMORANT GRANGE

CH 241.19



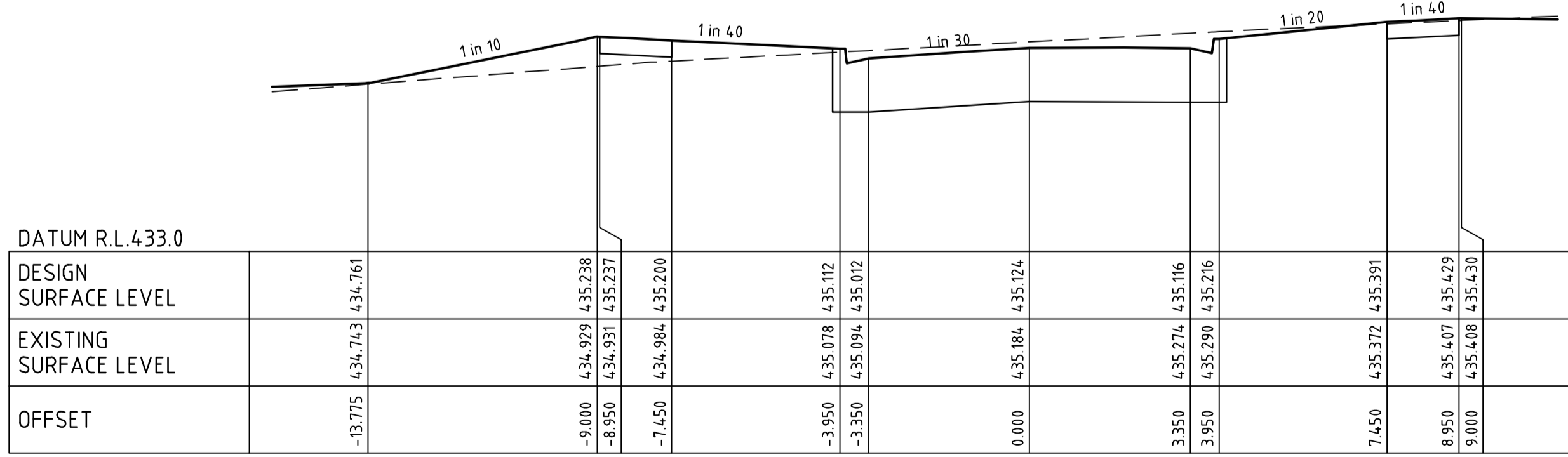
CORMORANT GRANGE

TPCH 174.69



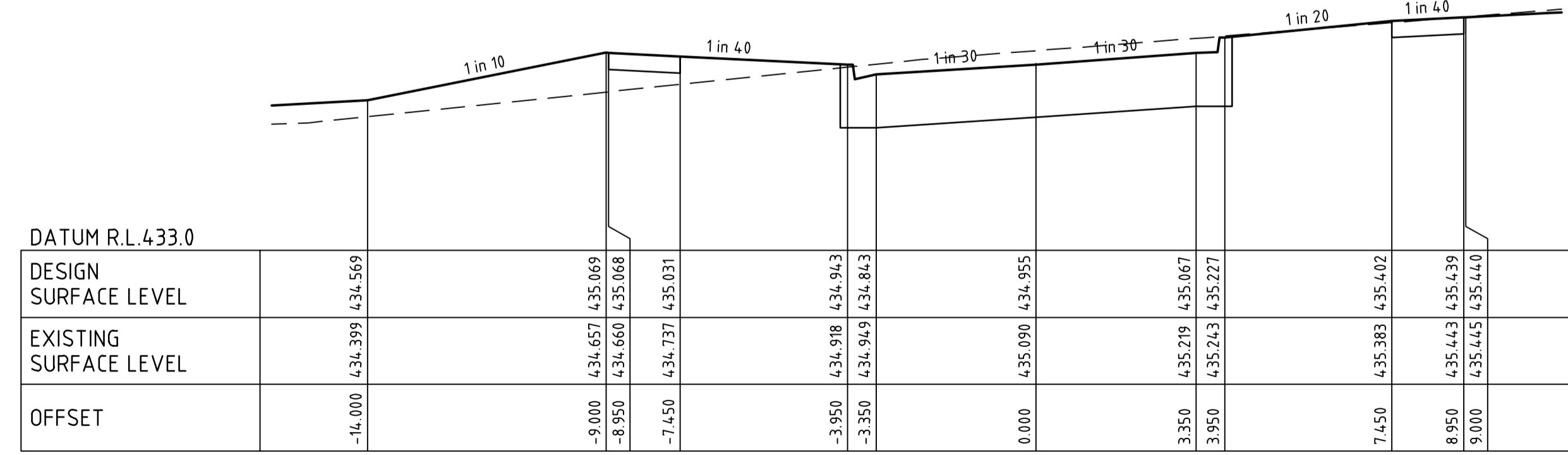
CORMORANT GRANGE

CH 228.69



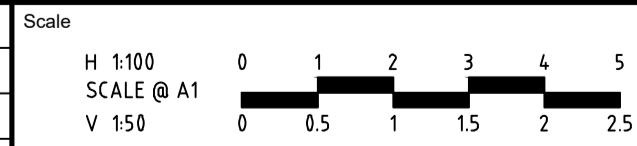
CORMORANT GRANGE

CH 164.19



CORMORANT GRANGE

CH 216.19



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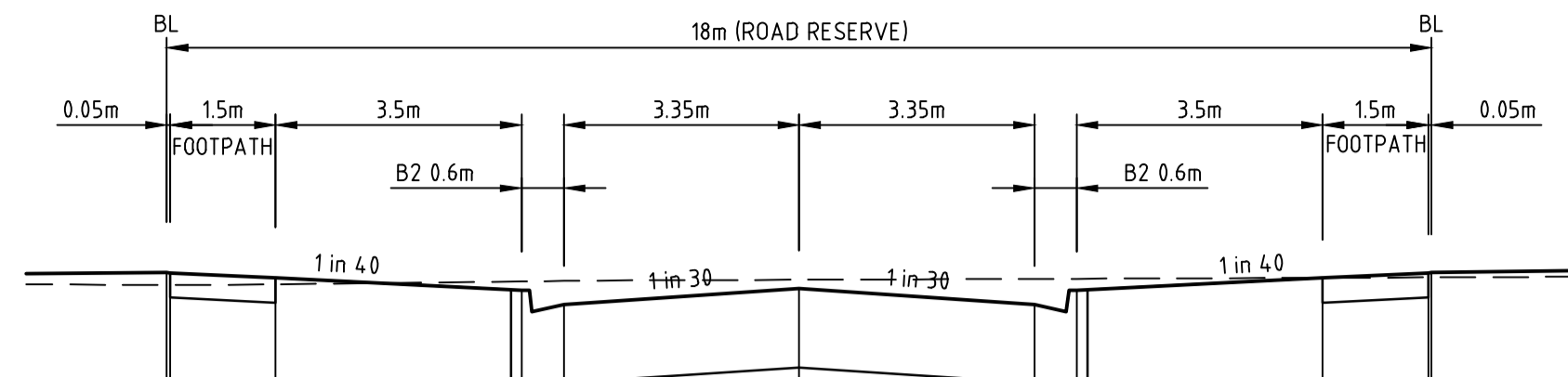
16 BRIDGE STREET BENDIGO
 VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
 spiire.com.au ABN 55 050 029 635

Designed S.WOOD	Checked B.IBBS
Authorised A. WILKIE	Date 11/11/21

CONROY'S GREEN
STAGE 4
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 1
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY P/L

CONSTRUCTION Drg No **308874CR400** Rev **0**

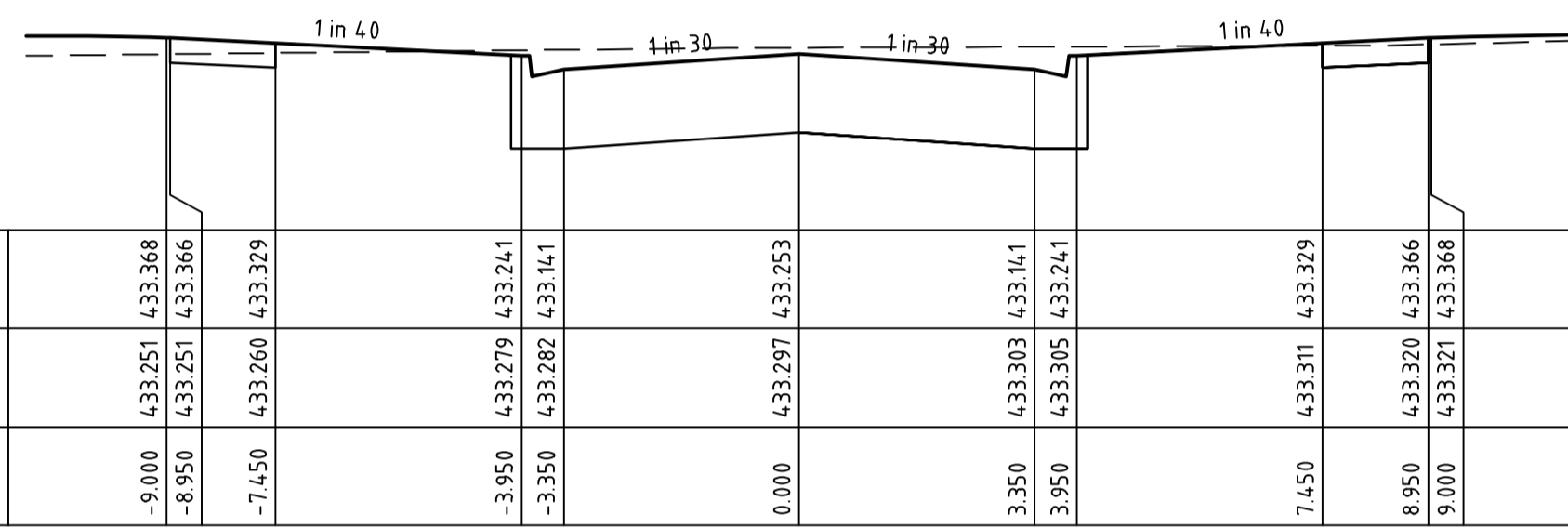
Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	A.W	11/11/21
B	AMENDED ROAD NAME	A.W	11/10/21
A	PRELIMINARY ISSUE	AW	06/07/21



DATUM R.L. 432.0	
DESIGN SURFACE LEVEL	-9.000 433.205 433.293 -8.950 433.205 433.291 -7.450 433.211 433.254
EXISTING SURFACE LEVEL	-3.950 433.230 433.166 -3.350 433.233 433.066 0.000 433.242 433.178 3.350 433.248 433.066 3.950 433.249 433.166
OFFSET	7.450 433.256 433.254 8.950 433.259 433.291 9.000 433.259 433.293

CORMORANT GRANGE

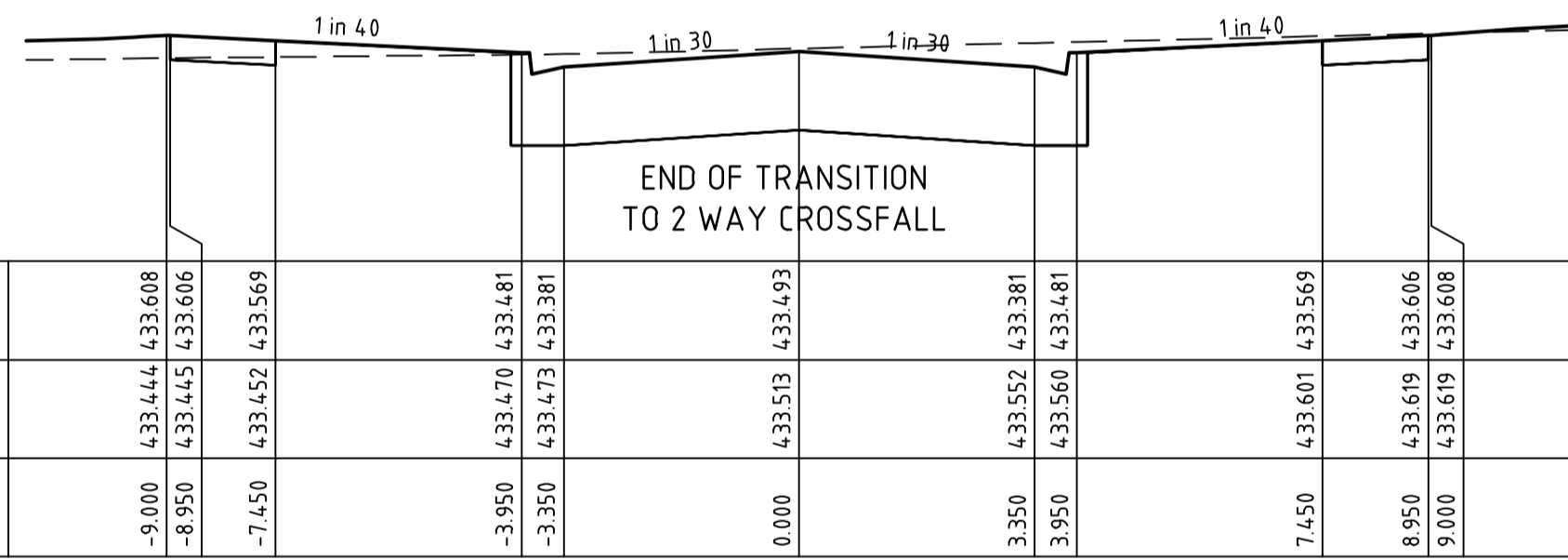
CH 332.19



DATUM R.L. 432.0	
DESIGN SURFACE LEVEL	-9.000 433.251 433.368 -8.950 433.251 433.366 -7.450 433.260 433.329
EXISTING SURFACE LEVEL	-3.950 433.279 433.241 -3.350 433.282 433.141 0.000 433.291 433.253 3.350 433.303 433.141 3.950 433.305 433.241
OFFSET	7.450 433.311 433.329 8.950 433.320 433.366 9.000 433.321 433.368

CORMORANT GRANGE

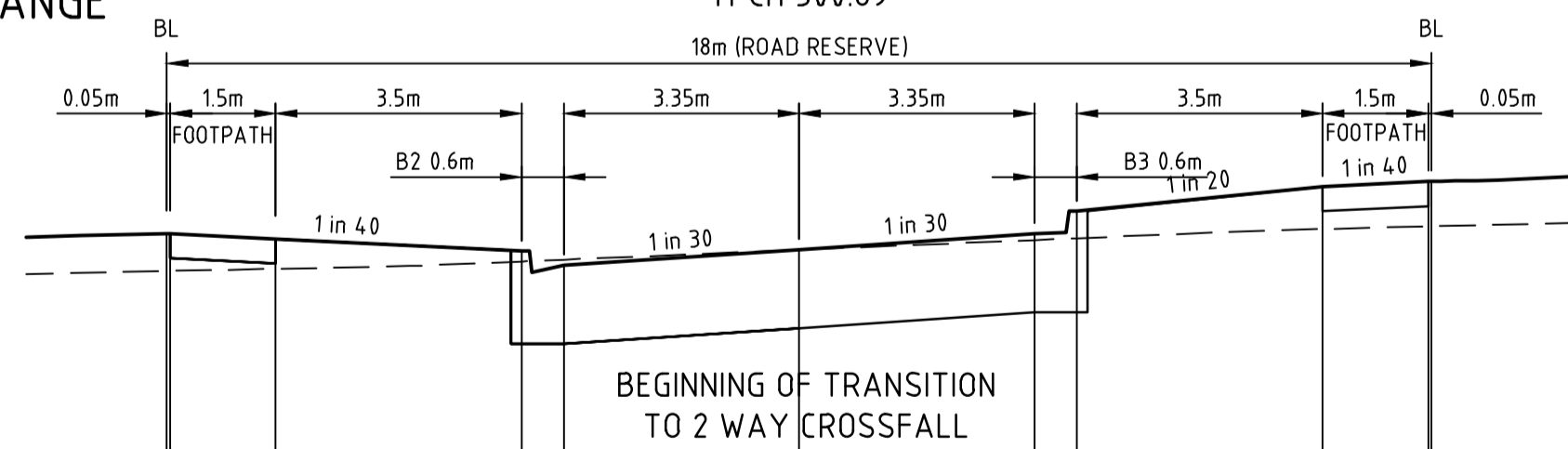
TPCH 324.69



DATUM R.L. 432.0	
DESIGN SURFACE LEVEL	-9.000 433.444 433.608 -8.950 433.445 433.606 -7.450 433.452 433.569
EXISTING SURFACE LEVEL	-3.950 433.470 433.481 -3.350 433.473 433.381 0.000 433.513 433.493 3.350 433.552 433.381 3.950 433.560 433.481
OFFSET	7.450 433.601 433.569 8.950 433.619 433.606 9.000 433.619 433.608

CORMORANT GRANGE

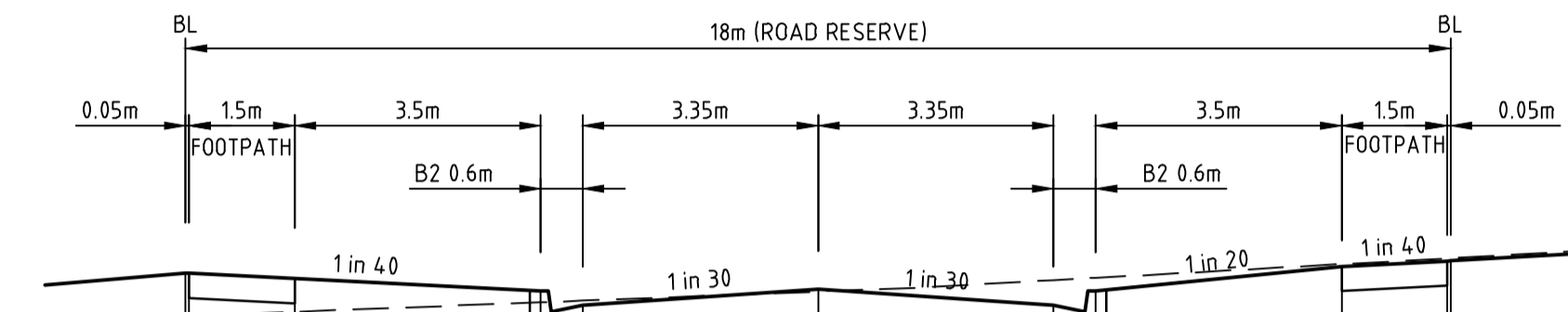
TPCH 300.69



DATUM R.L. 432.0	
DESIGN SURFACE LEVEL	-9.000 433.520 433.788 -8.950 433.521 433.786 -7.450 433.536 433.749
EXISTING SURFACE LEVEL	-3.950 433.589 433.661 -3.350 433.601 433.561 0.000 433.671 433.673 3.350 433.741 433.785 3.950 433.753 433.945
OFFSET	7.450 433.819 434.120 8.950 433.837 434.157 9.000 433.838 434.159

CORMORANT GRANGE

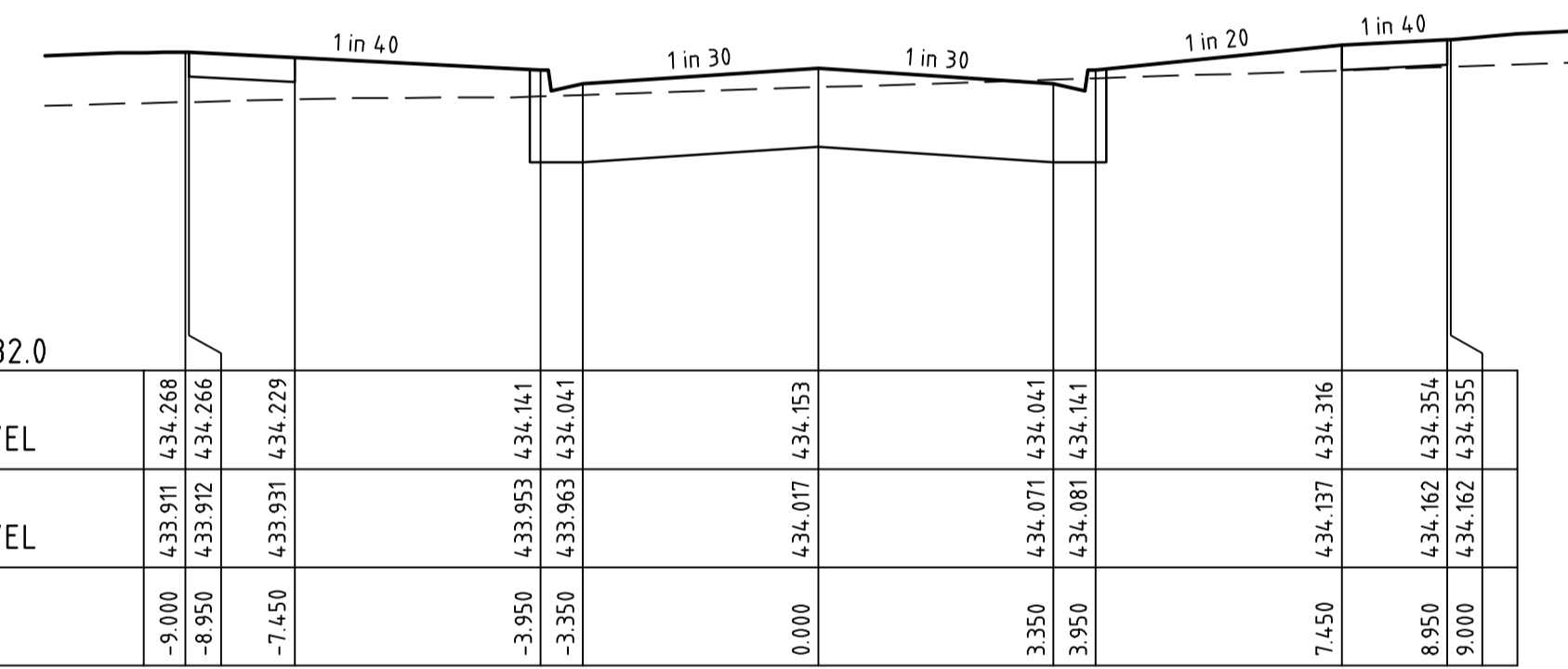
TPCH 282.69



DATUM R.L. 433.0	
DESIGN SURFACE LEVEL	-9.000 434.713 435.019 -8.950 434.714 435.017 -7.450 434.743 434.980
EXISTING SURFACE LEVEL	-3.950 434.811 434.892 -3.350 434.823 434.792 0.000 434.888 434.904 3.350 434.869 434.792 3.950 434.885 434.892
OFFSET	7.450 435.083 435.067 8.950 435.105 435.105 9.000 435.126 435.106

HAWK STREET

CH 37.03



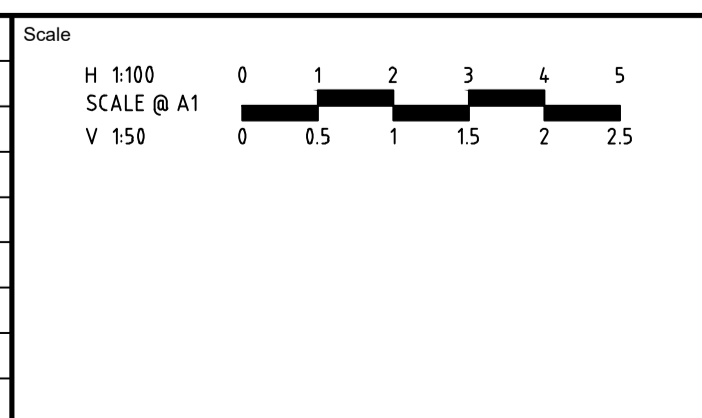
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EXISTING SURFACE LEVEL	-3.950 433.953 434.141 -3.350 433.963 434.041 0.000 434.017 434.153 3.350 434.071 434.041 3.950 434.081 434.141
OFFSET	7.450 434.137 434.316 8.950 434.162 434.354 9.000 434.162 434.355

HAWK STREET

CH 12.00

file name: 308874CR400.dwg, layout name: CR401, created by: Mitchell Wright, file location: G:\30308874\CR401\ACAD\plot.dwg, 11/11/2021, 10:55:AM, Sheet 8 of 19 Sheets

Rev	Description	Approved	Date
0	ISSUED FOR CONSTRUCTION	A.W	11/11/21
B	AMENDED ROAD NAME	A.W	11/10/21
A	PRELIMINARY ISSUE	AW	06/07/21
Rev	Amendments	Approved	Date



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16 BRIDGE STREET BENDIGO

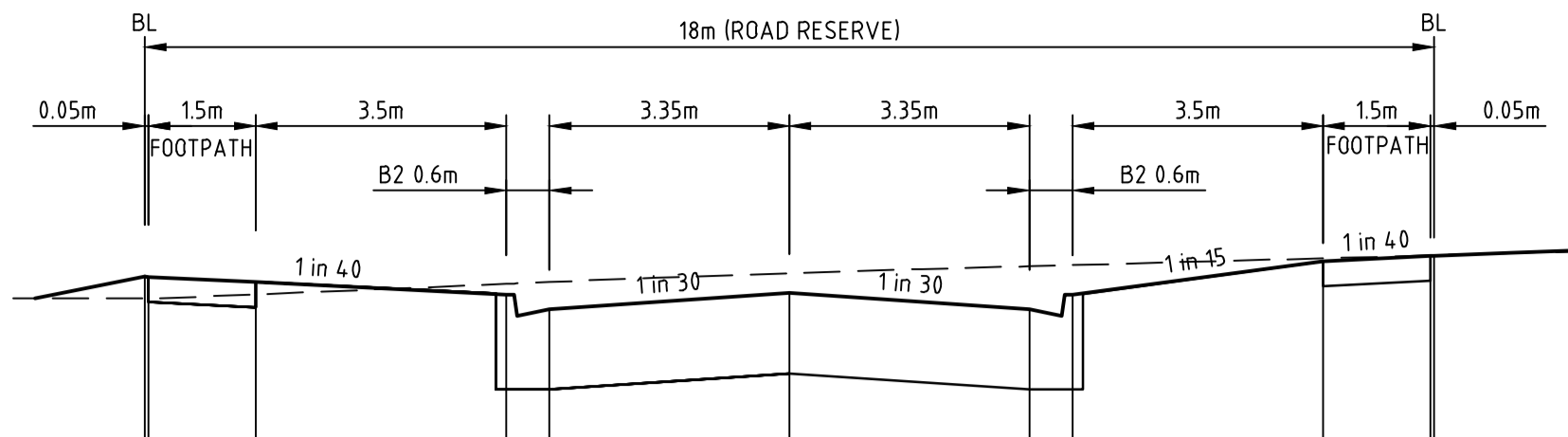
 VICTORIA 3550 AUSTRALIA T 61 3 5448 2500

 spiire.com.au ABN 55 050 029 635

Designed S.WOOD	Checked B.IBBS
Authorised A. WILKIE	Date 11/11/21

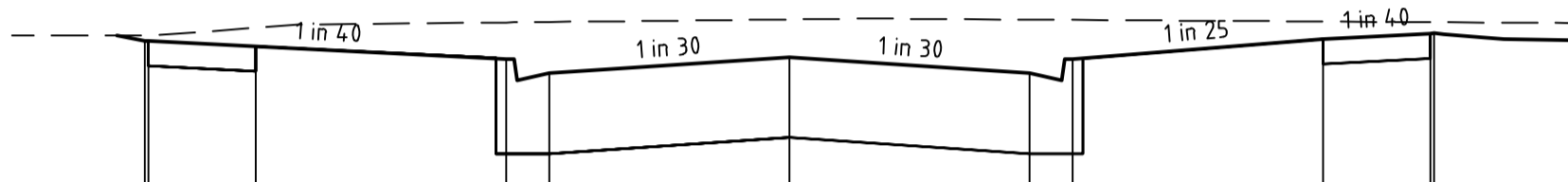
CONROY'S GREEN
STAGE 4
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 2
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY P/L

Drg No **308874CR401** Rev **0**



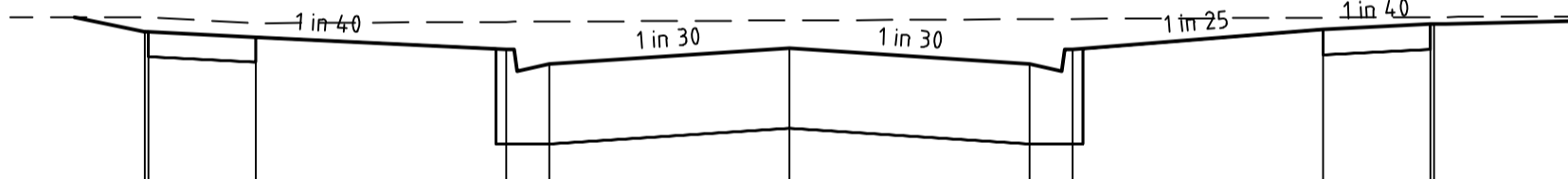
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EXISTING SURFACE LEVEL	432.616 432.616 432.645 432.642 432.542 432.792 432.897 432.917 432.918
OFFSET	-9.000 -8.950 -7.450 -3.950 -3.350 0.000 3.350 3.950 7.450 8.950 9.000

GOLDFINCH ROAD TPC 336.51



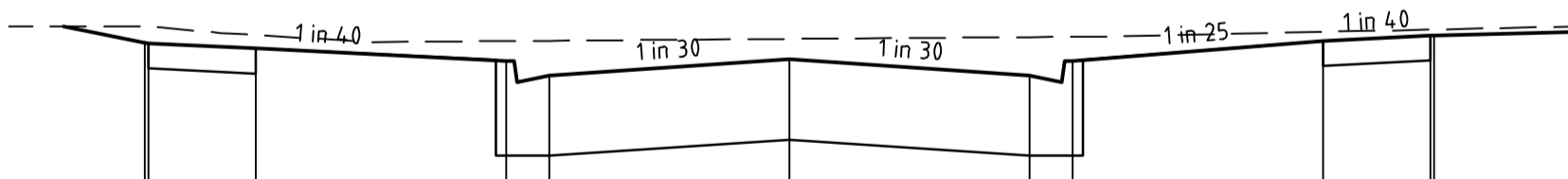
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DESIGN SURFACE LEVEL	432.929 432.927 432.890 432.802 432.702 432.814 432.942 432.980 432.981
EXISTING SURFACE LEVEL	432.967 432.967 433.019 433.057 433.060 433.078 433.063 433.059 433.058
OFFSET	-9.000 -8.950 -7.450 -5.950 -3.350 0.000 3.350 3.950 7.450 8.950 9.000

GOLDFINCH ROAD TPC 312.51



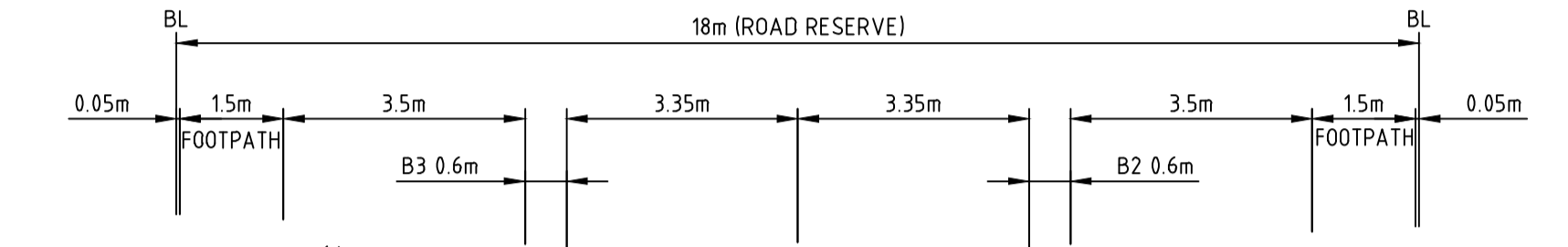
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DESIGN SURFACE LEVEL	433.075 433.074 433.037 432.949 432.849 432.861 433.089 433.127 433.128
EXISTING SURFACE LEVEL	433.173 433.173 433.185 433.163 433.145 433.153 433.173 433.176 433.177
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GOLDFINCH ROAD CH 290.51



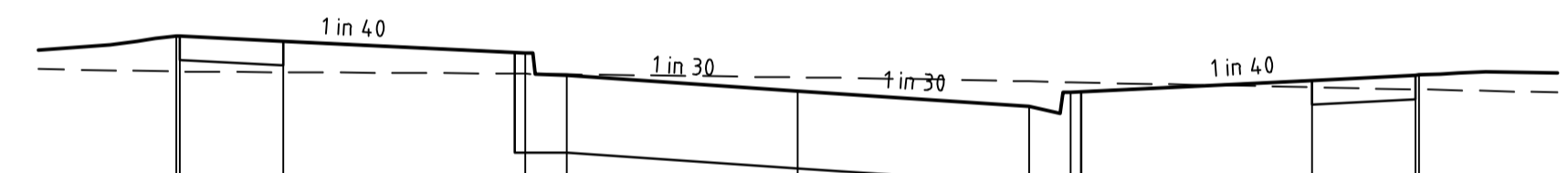
DATUM R.L.431.0	
DESIGN SURFACE LEVEL	433.138 433.137 433.099 433.012 432.912 433.023 433.152 433.189 433.190
EXISTING SURFACE LEVEL	433.251 433.251 433.193 433.151 433.153 433.166 433.215 433.231 433.231
OFFSET	-9.000 -8.950 -7.450 -3.950 -3.350 0.000 3.350 3.950 7.450 8.950 9.000

GOLDFINCH ROAD CH 278.01



DATUM R.L.434.0	
DESIGN SURFACE LEVEL	436.308 436.307 436.269 436.182 436.022 435.910 435.798 435.898 435.986 436.023 436.025
EXISTING SURFACE LEVEL	436.109 436.109 436.019 436.057 436.051 435.971 435.890 435.875 435.792 435.764 435.763
OFFSET	-9.000 -8.950 -7.450 -3.950 -3.350 0.000 3.350 3.950 7.450 8.950 9.000

GULL STREET CH 37.03



DATUM R.L.434.0	
DESIGN SURFACE LEVEL	436.038 436.036 435.999 435.911 435.751 435.640 435.528 435.628 435.715 435.753 435.754
EXISTING SURFACE LEVEL	435.779 435.779 435.774 435.763 435.759 435.737 435.708 435.701 435.665 435.650 435.649
OFFSET	-9.000 -8.950 -7.450 -3.950 -3.350 0.000 3.350 3.950 7.450 8.950 9.000

GULL STREET TPC 12.00

file name: 308874CR403.dwg, layout name: CR403, plotted by: Mitchell Wright, file location: G:\308874\CR403\308874.dwg, plot date: 11/11/2021, 10:55:44 AM, Sheet: 10 of 19 Sheets

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 V 1:50

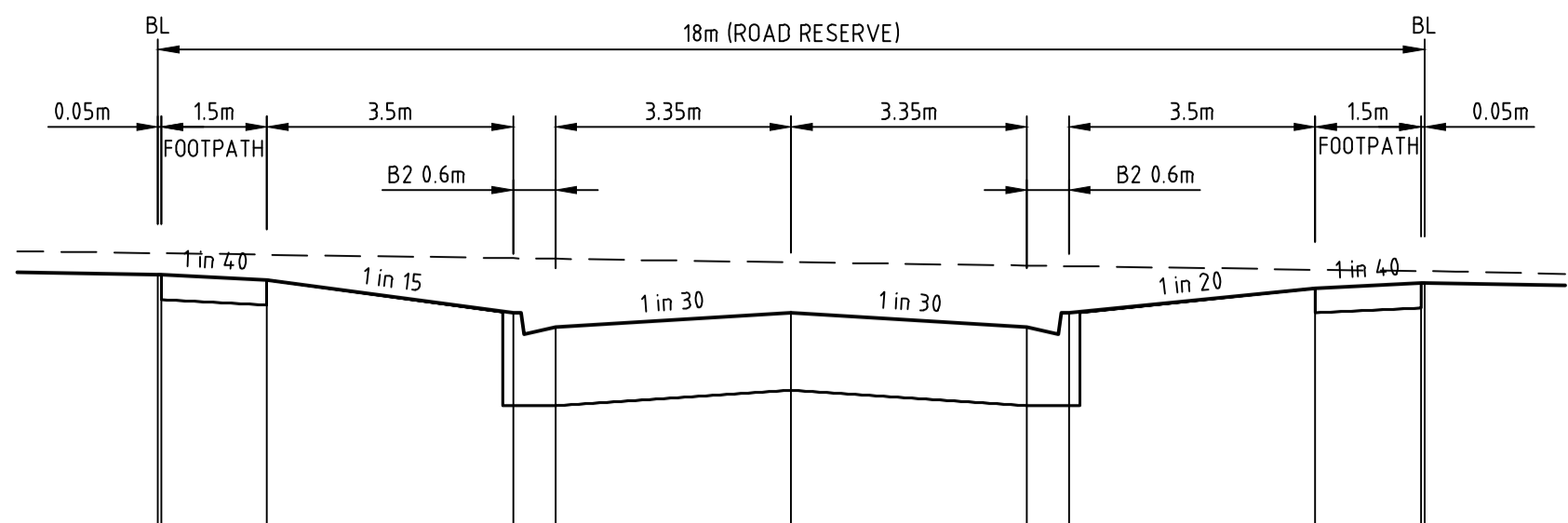
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16 BRIDGE STREET BENDIGO
 VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
 spiire.com.au ABN 55 050 029 635

Designed S.WOOD	Checked B.IBBS
Authorised A. WILKIE	Date 11/11/21

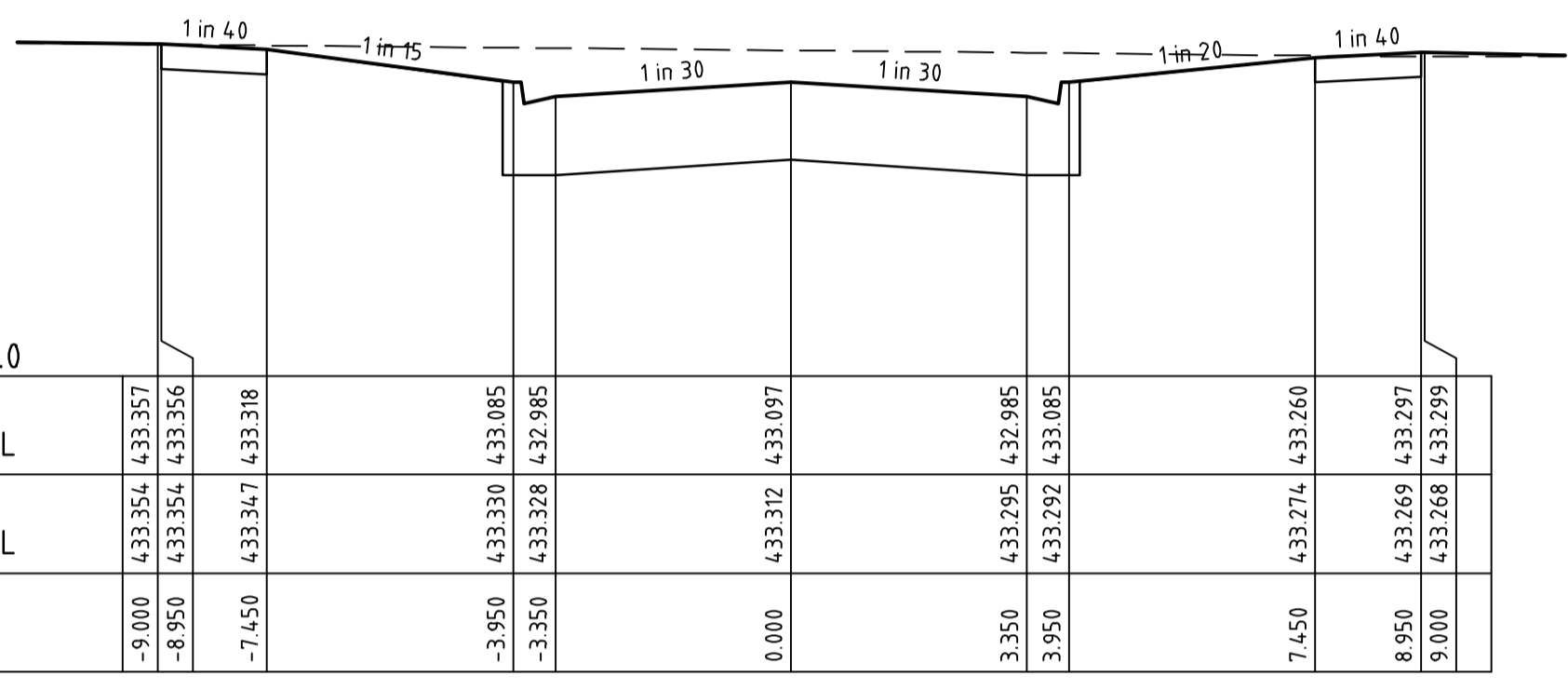
CONROY'S GREEN
STAGE 4
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 4
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY P/L

Drg No 308874CR403 Rev 0



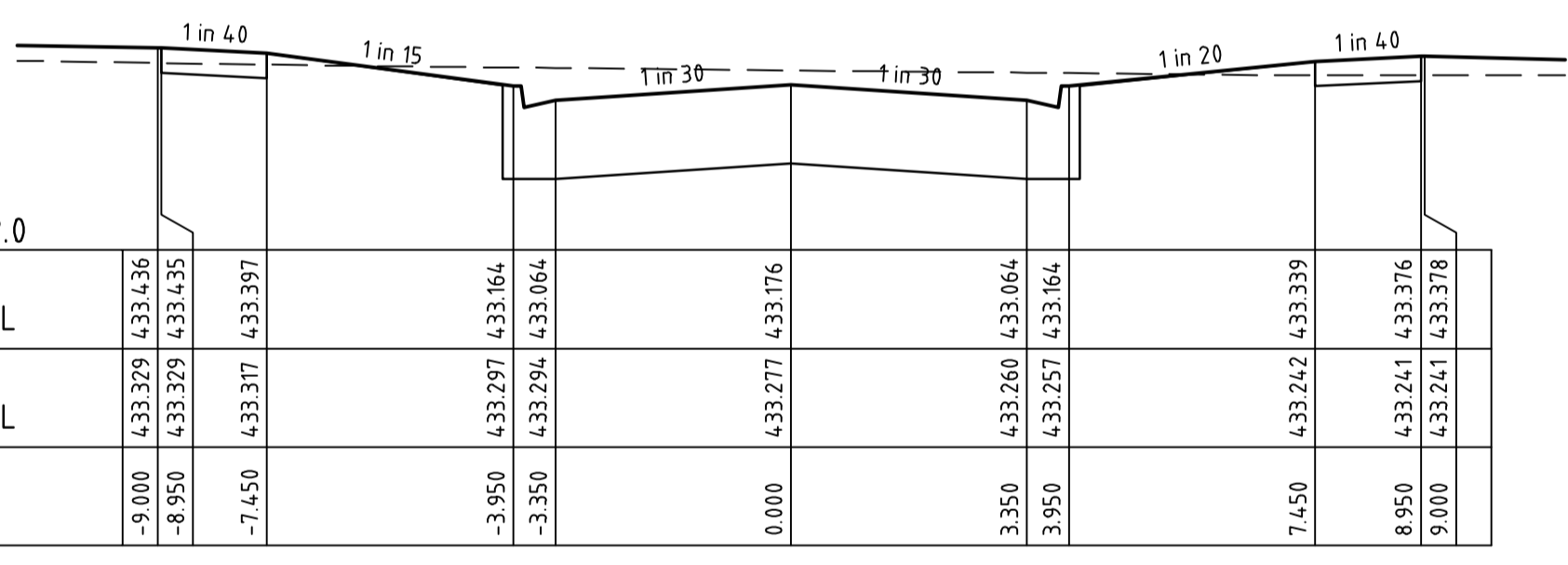
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EXISTING SURFACE LEVEL	-9.000 433.359 433.206 -8.950 433.359 433.205 -7.450 433.348 433.167 -3.950 433.323 432.934 -3.350 433.319 432.834 0.000 433.295 432.945 3.350 433.271 432.834 3.950 433.267 432.934 7.450 433.242 433.109 8.950 433.231 433.146 9.000 433.231 433.148
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SPARROW WAY CH 45.25



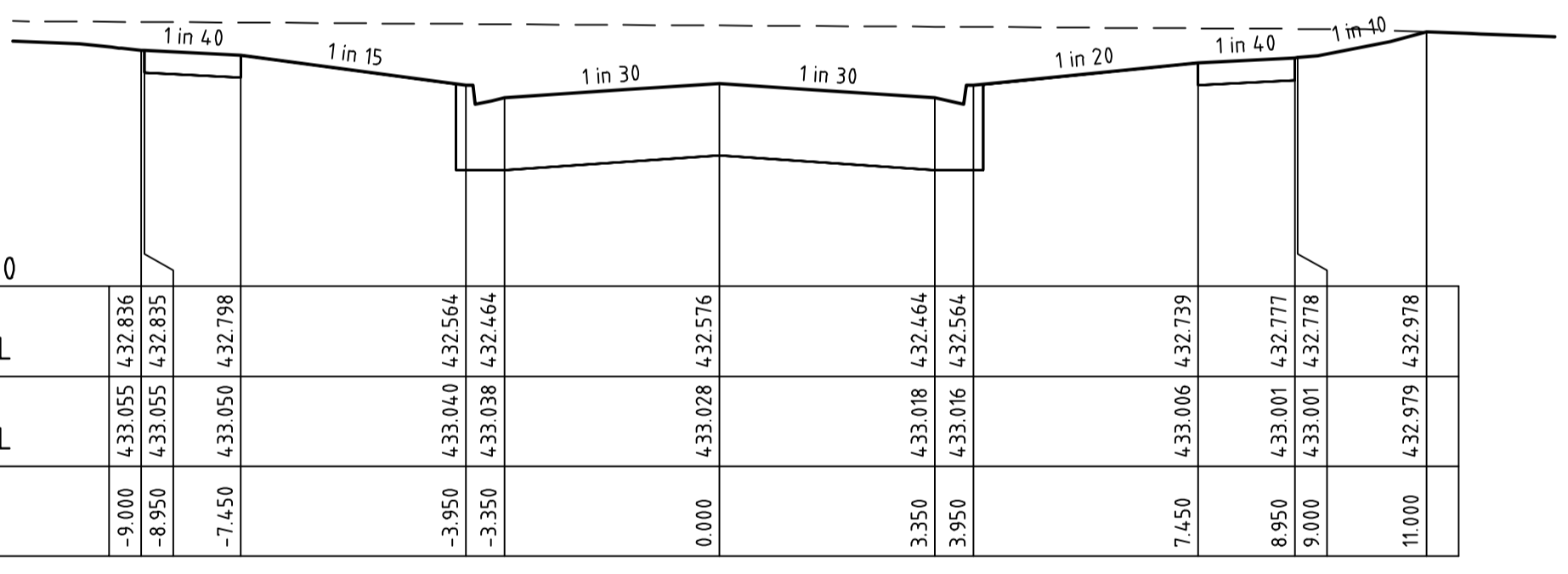
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EXISTING SURFACE LEVEL	-9.000 433.354 433.357 -8.950 433.354 433.356 -7.450 433.347 433.318 -3.950 433.330 433.085 -3.350 433.328 432.985 0.000 433.312 433.097 3.350 433.295 432.985 3.950 433.292 433.085 7.450 433.274 433.260 8.950 433.268 433.297 9.000 433.268 433.299
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SPARROW WAY CH 34.75



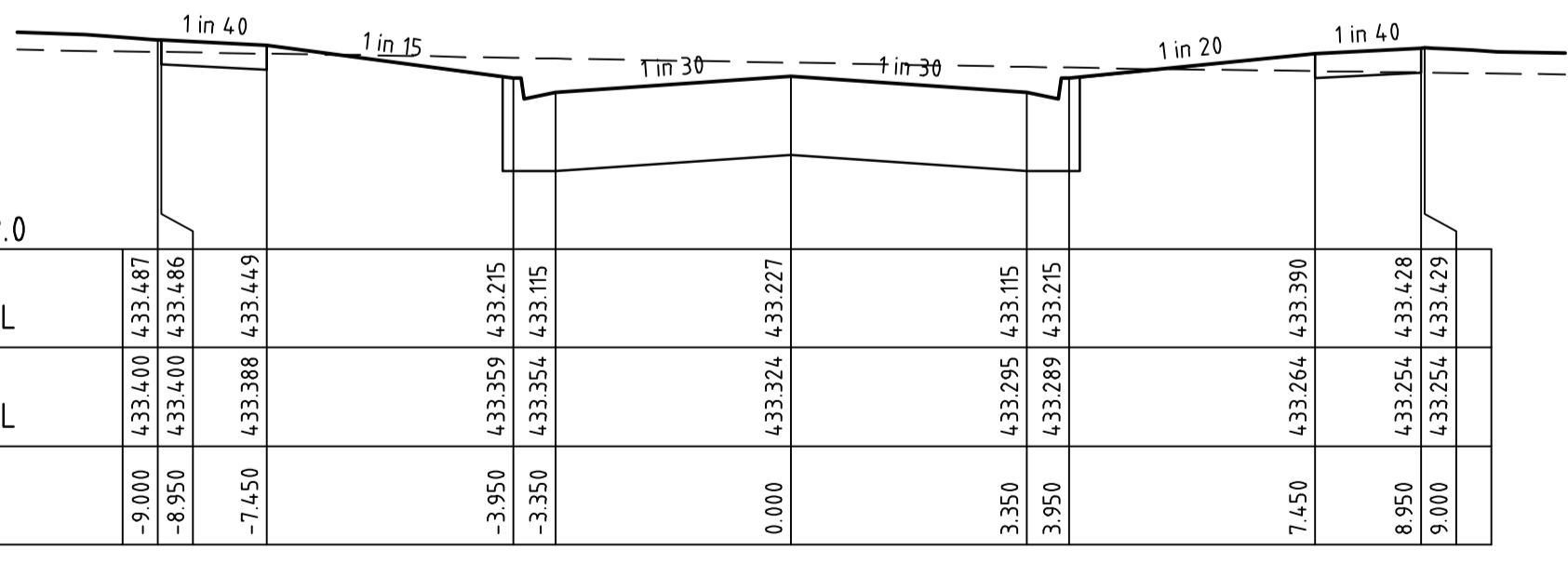
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DESIGN SURFACE LEVEL	-9.000 433.329 433.436 -8.950 433.329 433.435 -7.450 433.317 433.397 -3.950 433.297 433.164 -3.350 433.294 433.064 0.000 433.277 433.176 3.350 433.260 433.064 3.950 433.257 433.164 7.450 433.242 433.339 8.950 433.241 433.376 9.000 433.241 433.378
EXISTING SURFACE LEVEL	-9.000 433.329 433.436 -8.950 433.329 433.435 -7.450 433.317 433.397 -3.950 433.297 433.164 -3.350 433.294 433.064 0.000 433.277 433.176 3.350 433.260 433.064 3.950 433.257 433.164 7.450 433.242 433.339 8.950 433.241 433.376 9.000 433.241 433.378
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SPARROW WAY CH 22.25



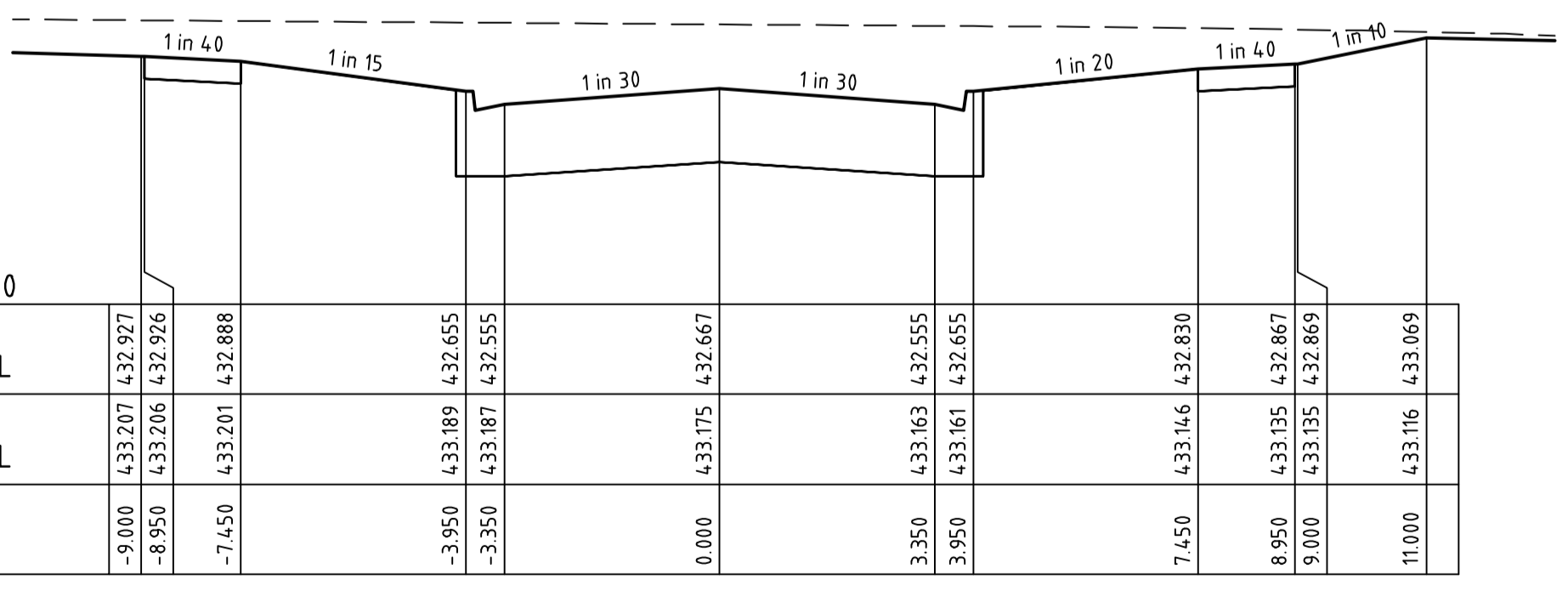
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DESIGN SURFACE LEVEL	-9.000 433.055 432.836 -8.950 433.055 432.835 -7.450 433.050 432.798 -3.950 433.040 432.564 -3.350 433.038 432.464 0.000 433.028 432.576 3.350 433.018 432.464 3.950 433.016 432.564 7.450 433.004 432.739 8.950 433.001 432.777 9.000 433.001 432.778 11.000 432.979 432.978
EXISTING SURFACE LEVEL	-9.000 433.055 432.836 -8.950 433.055 432.835 -7.450 433.050 432.798 -3.950 433.040 432.564 -3.350 433.038 432.464 0.000 433.028 432.576 3.350 433.018 432.464 3.950 433.016 432.564 7.450 433.004 432.739 8.950 433.001 432.777 9.000 433.001 432.778 11.000 432.979 432.978
OFFSET	-9.000 -8.950 -7.450 -3.950 -3.350 0.000 3.350 3.950 7.450 8.950 9.000 11.000

SPARROW WAY TPCH 68.06



DATUM R.L. 432.0	
DESIGN SURFACE LEVEL	-9.000 433.400 433.487 -8.950 433.400 433.486 -7.450 433.388 433.449 -3.950 433.359 433.215 -3.350 433.354 433.115 0.000 433.324 433.227 3.350 433.295 433.115 3.950 433.289 433.215 7.450 433.264 433.390 8.950 433.254 433.428 9.000 433.254 433.429
EXISTING SURFACE LEVEL	-9.000 433.400 433.487 -8.950 433.400 433.486 -7.450 433.388 433.449 -3.950 433.359 433.215 -3.350 433.354 433.115 0.000 433.324 433.227 3.350 433.295 433.115 3.950 433.289 433.215 7.450 433.264 433.390 8.950 433.254 433.428 9.000 433.254 433.429
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SPARROW WAY TPCH 12.00

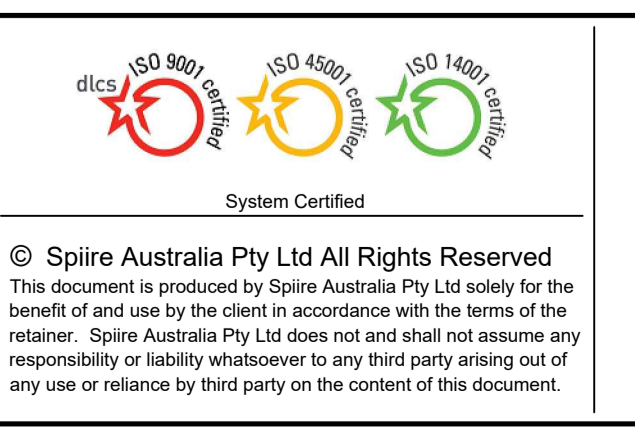
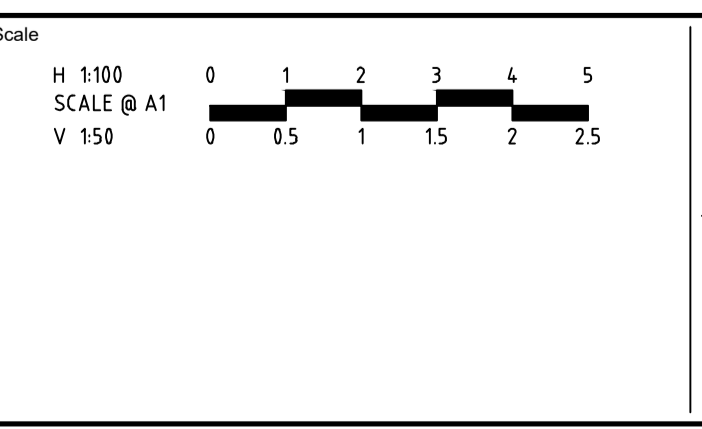


DATUM R.L. 431.0	
DESIGN SURFACE LEVEL	-9.000 433.207 432.927 -8.950 433.206 432.926 -7.450 433.201 432.888 -3.950 433.189 432.655 -3.350 433.187 432.555 0.000 433.175 432.667 3.350 433.163 432.555 3.950 433.161 432.655 7.450 433.146 432.830 8.950 433.135 432.867 9.000 433.135 432.869 11.000 433.116 433.069
EXISTING SURFACE LEVEL	-9.000 433.207 432.927 -8.950 433.206 432.926 -7.450 433.201 432.888 -3.950 433.189 432.655 -3.350 433.187 432.555 0.000 433.175 432.667 3.350 433.163 432.555 3.950 433.161 432.655 7.450 433.146 432.830 8.950 433.135 432.867 9.000 433.135 432.869 11.000 433.116 433.069
OFFSET	-9.000 -8.950 -7.450 -3.950 -3.350 0.000 3.350 3.950 7.450 8.950 9.000 11.000

SPARROW WAY CH 57.75

file name: 308874CR400.dwg, layout name: CR400, plotted by: M.Wilkie, weight: 11/11/21, 10:55 AM, sheet: 11 of 19 Sheets

Rev	Description	Approved	Date
0	ISSUED FOR CONSTRUCTION	A.W	11/11/21
A	PRELIMINARY ISSUE	AW	06/07/21
	Amendments	Approved	Date

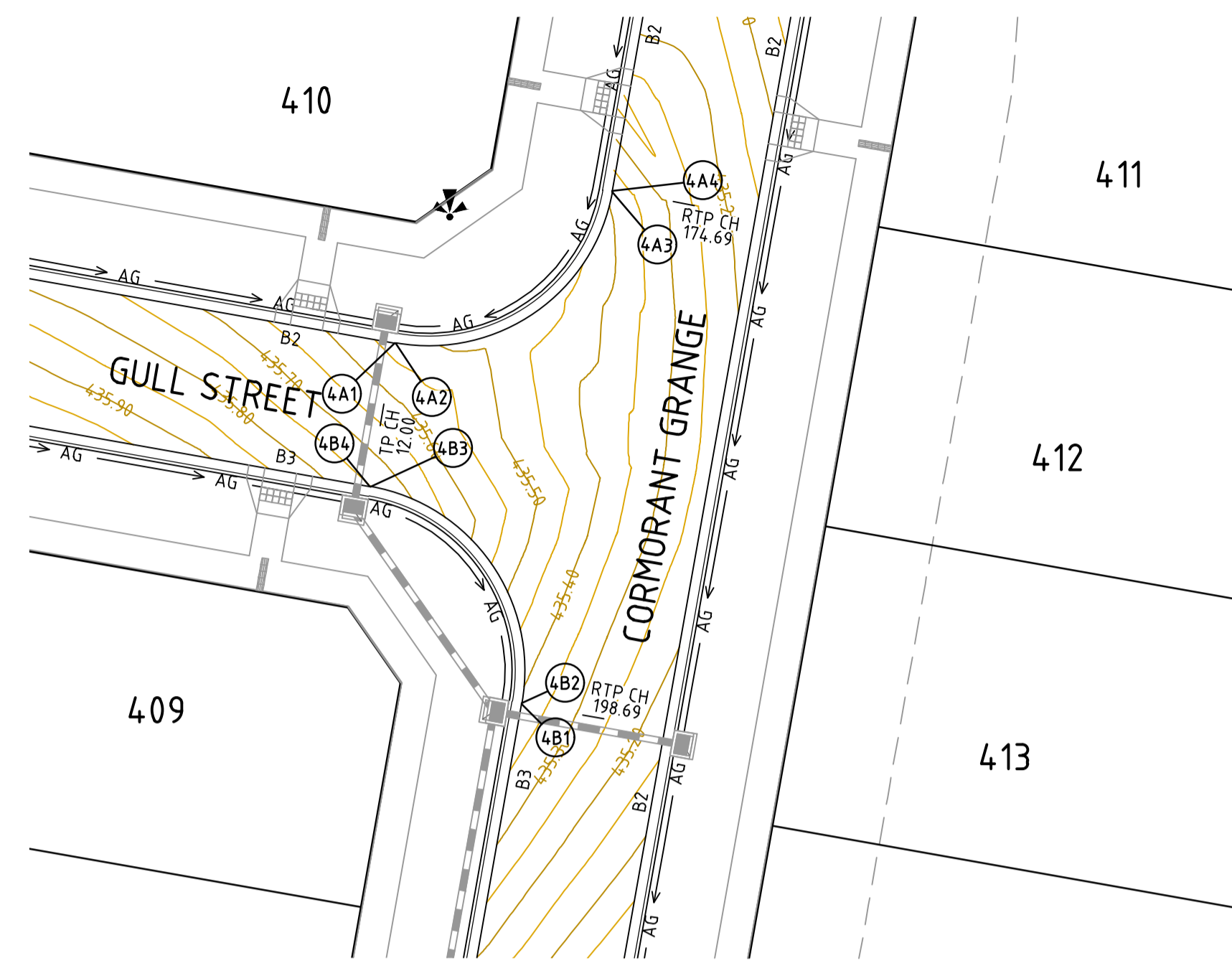


Designed S.WOOD	Checked B.IBBS
Authorised A. WILKIE	Date 11/11/21

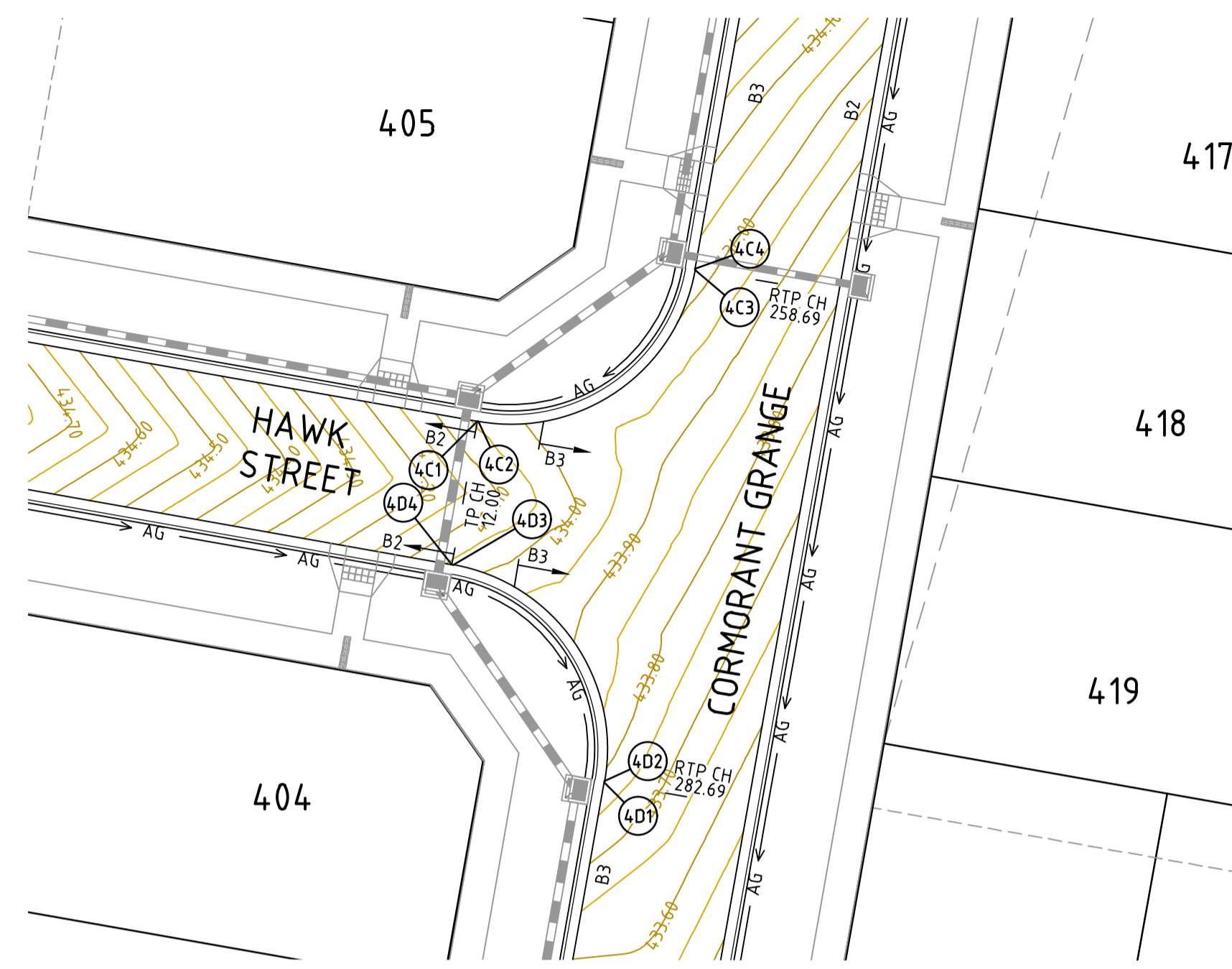
CONROY'S GREEN
STAGE 4
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 5
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY P/L

CONSTRUCTION 308874CR404

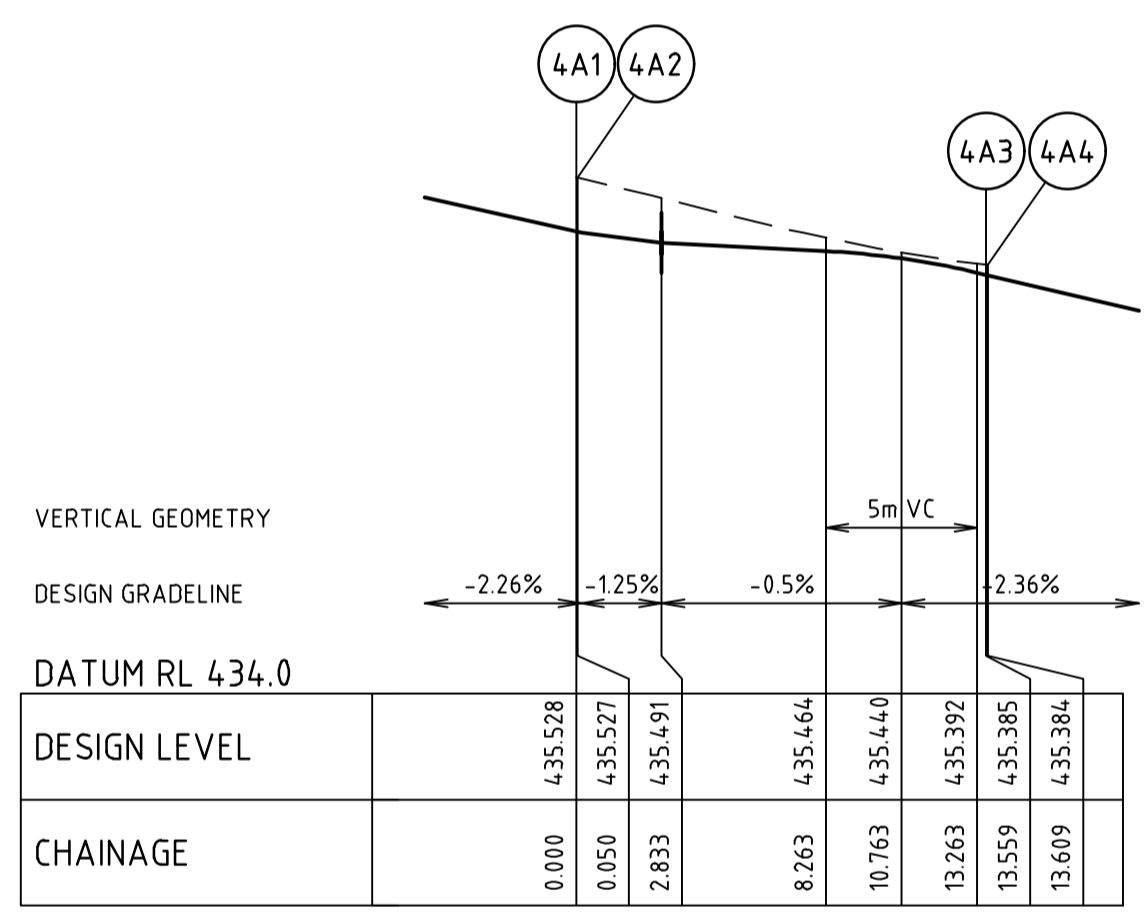
Rev 0



COROMANT GRANGE AND GULL STREET
KERB RETURN 4A & 4B



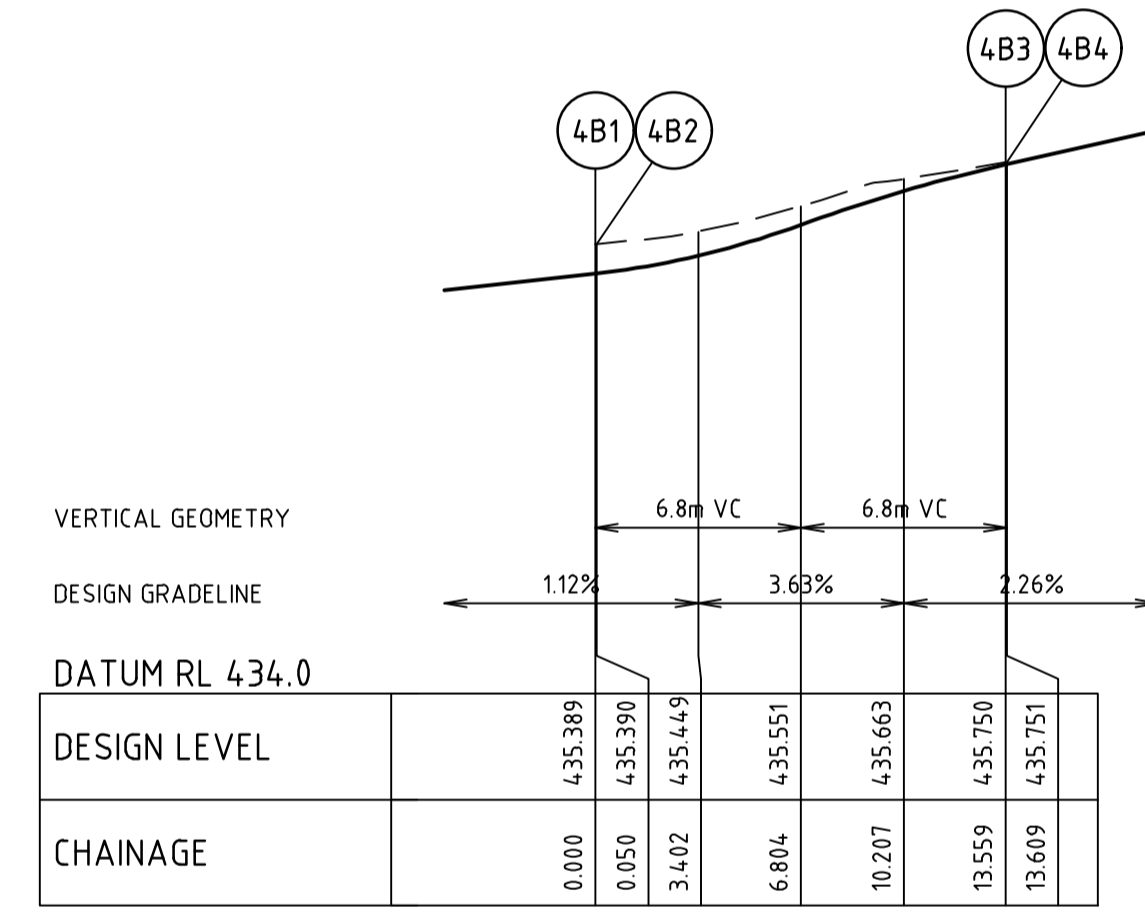
COROMANT GRANGE AND HAWK STREET
KERB RETURN 4C & 4D



ALIGNMENT 4A

POINT NO	EASTING	NORTHING	RL	CHAINAGE
4A1	745878.791	5837374.725	435.528	0.000
4A2	745878.840	5837374.716	435.527	0.050
1/4	745882.195	5837374.788	435.488	3.427
1/2	745885.267	5837376.138	435.471	6.804
3/4	745887.588	5837378.561	435.447	10.182
4A3	745888.805	5837381.688	435.385	13.559
4A4	745888.814	5837381.737	435.384	13.609

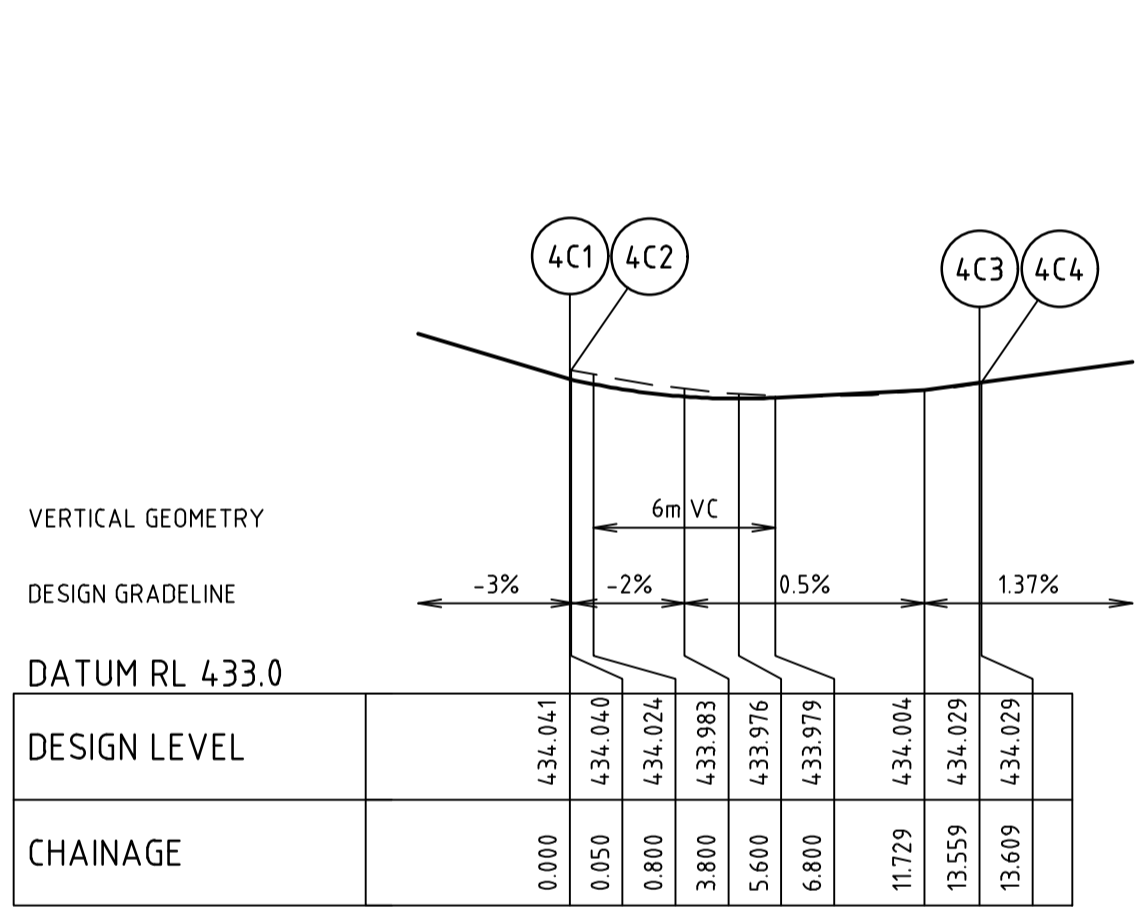
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
4A2-4A3	8.600	13.509	12.162	2.519	0.655



ALIGNMENT 4B

POINT NO	EASTING	NORTHING	RL	CHAINAGE
4B1	745884.637	5837358.104	435.389	0.000
4B2	745884.646	5837358.153	435.390	0.050
1/4	745884.574	5837346.150	435.449	3.427
1/2	745883.274	5837364.580	435.551	6.804
3/4	745880.801	5837366.901	435.662	10.182
4B3	745877.674	5837368.118	435.750	13.559
4B4	745877.625	5837368.127	435.751	13.609

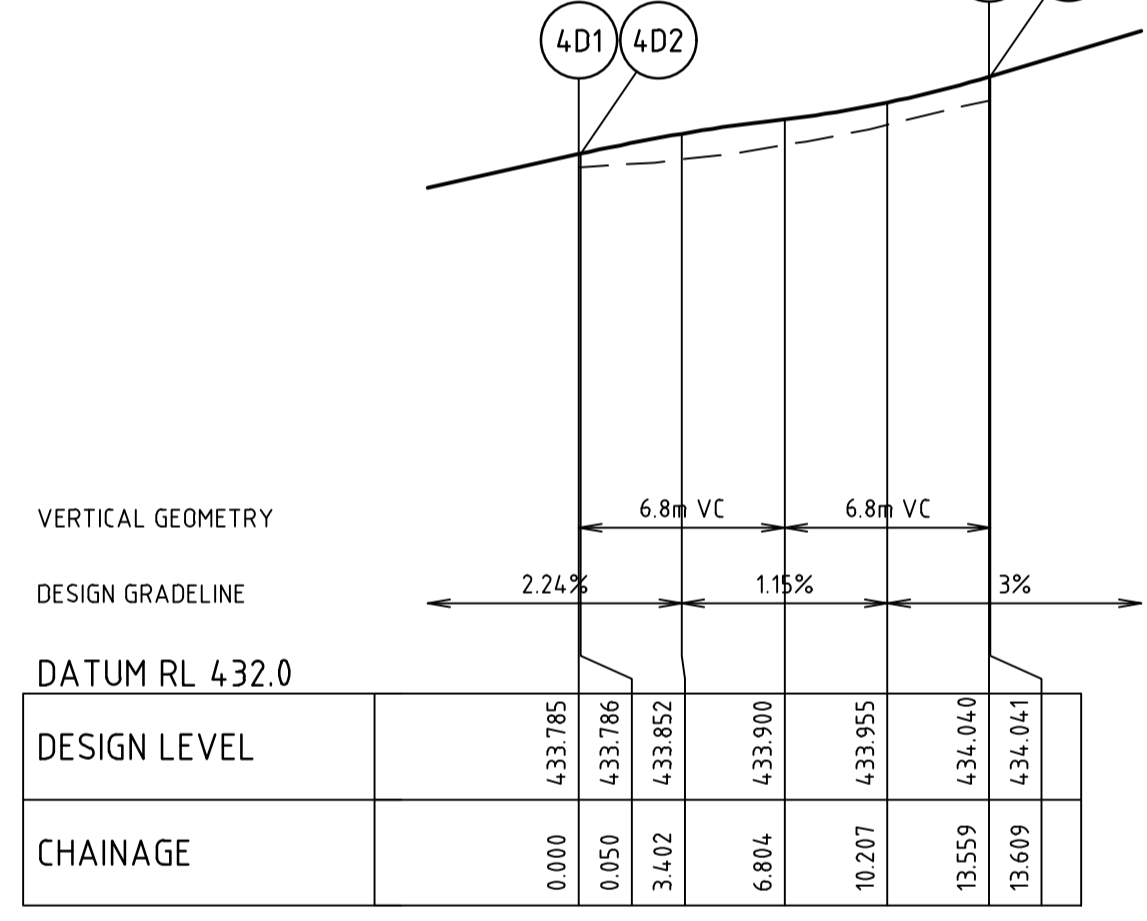
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
4B2-4B3	8.600	13.509	12.162	2.519	0.655



ALIGNMENT 4C

POINT NO	EASTING	NORTHING	RL	CHAINAGE
4C1	745864.172	5837292.007	434.041	0.000
4C2	745864.222	5837291.998	434.040	0.050
1/4	745867.576	5837292.070	433.986	3.426
1/2	745870.648	5837293.420	433.979	6.804
3/4	745872.970	5837295.843	433.996	10.182
4C3	745874.187	5837298.970	434.029	13.559
4C4	745874.196	5837299.019	434.029	13.609

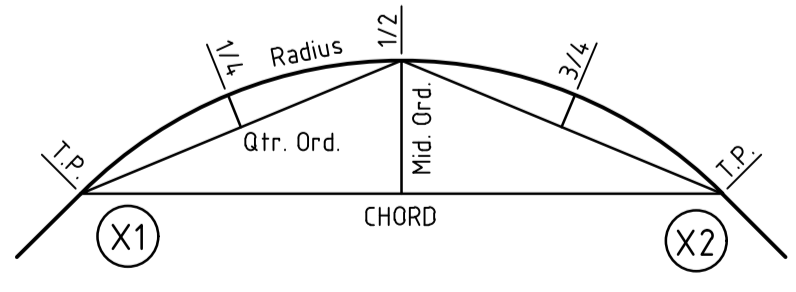
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
4C2-4C3	8.600	13.509	12.162	2.519	0.655



ALIGNMENT 4D

POINT NO	EASTING	NORTHING	RL	CHAINAGE
4D1	745870.019	5837275.385	433.785	0.000
4D2	745870.028	5837275.435	433.786	0.050
1/4	745869.956	5837278.790	433.852	3.427
1/2	745868.605	5837281.861	433.900	6.804
3/4	745866.182	5837284.183	433.955	10.182
4D3	745863.056	5837285.400	434.040	13.559
4D4	745863.006	5837285.409	434.041	13.609

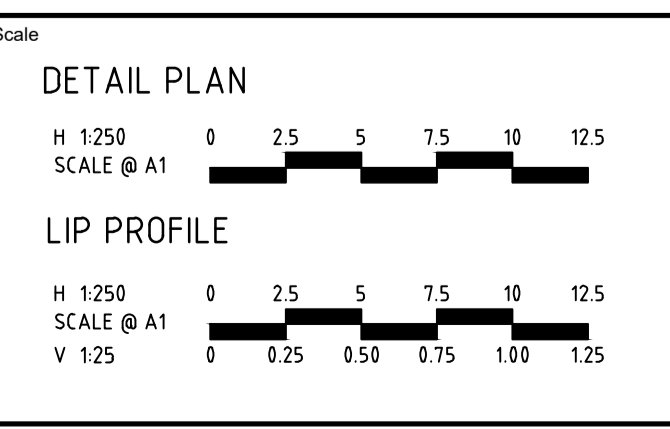
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
4D2-4D3	8.600	13.509	12.162	2.519	0.655



KERB RETURN SETOUT DETAIL

file name: 308874CR500.dwg, layout: 1, title: 1, scale: 1, date: 11/11/2021, 10:55:44 AM, sheet: 12 of 19 sheets

Rev	Description	Author	Date
0	ISSUED FOR CONSTRUCTION	A.W	11/11/21
A	PRELIMINARY ISSUE	AW	06/07/21
	Amendments	Approved	Date



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16 BRIDGE STREET BENDIGO

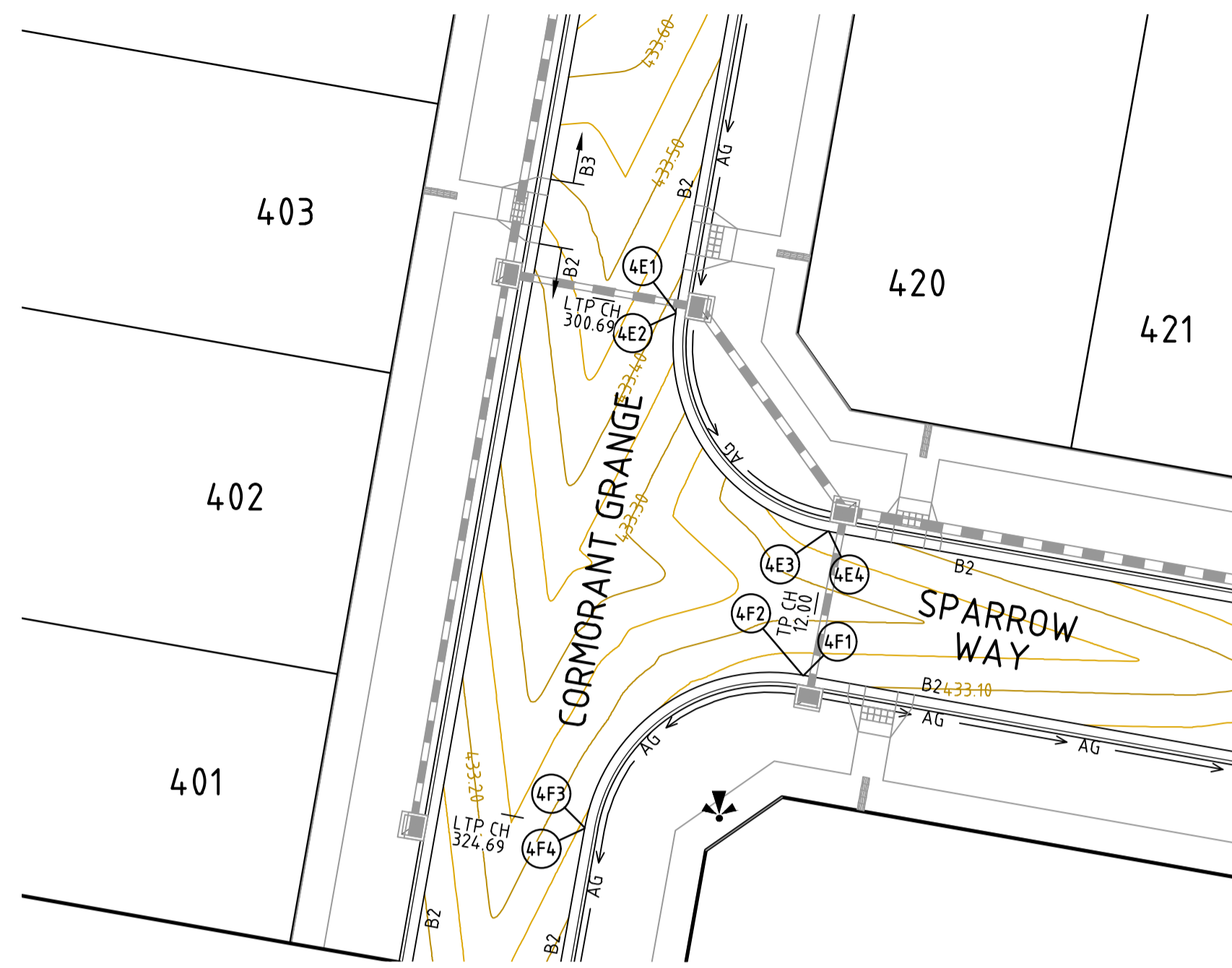
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 spiire.com.au ABN 55 050 029 635

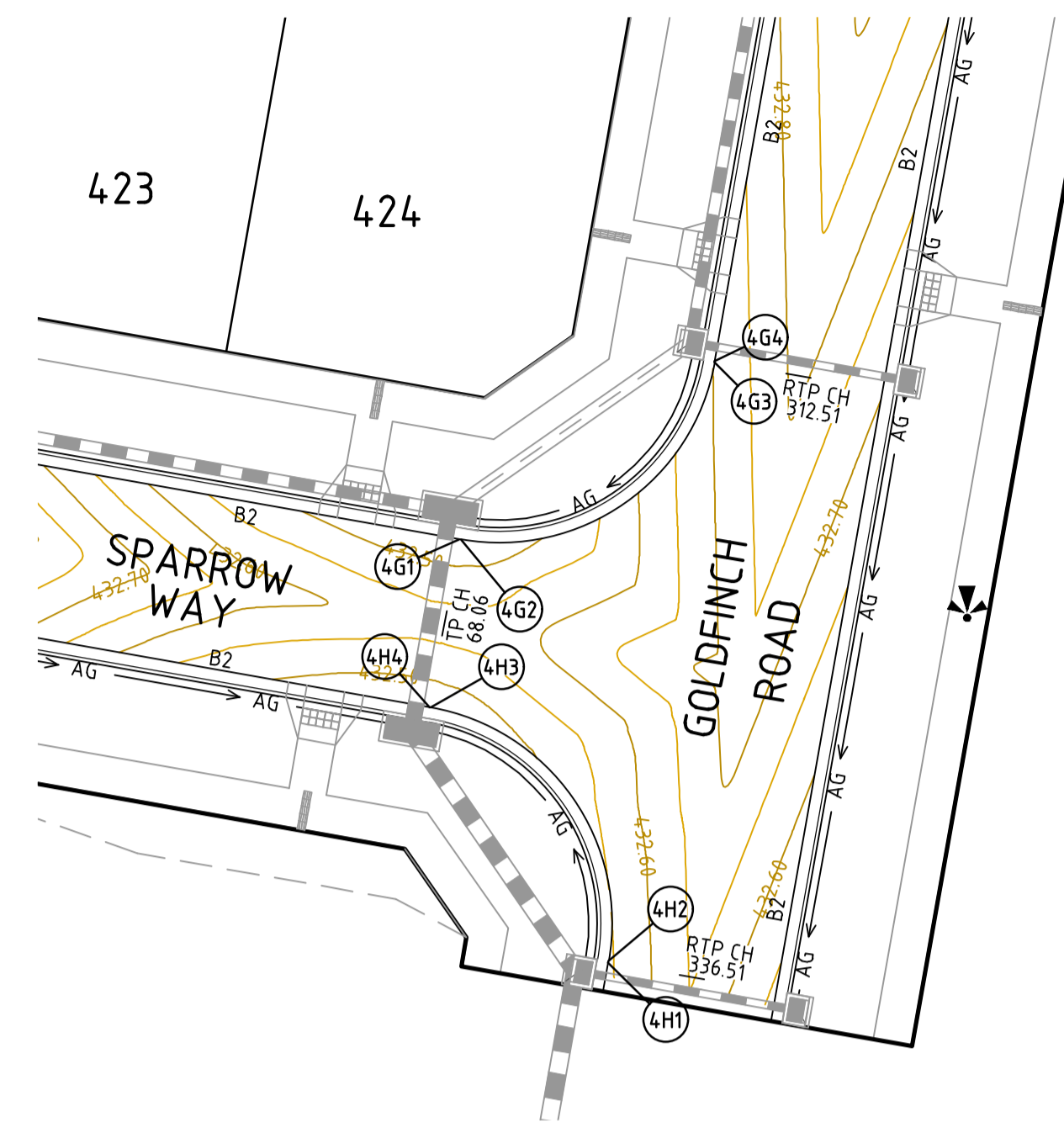
Designed	Checked
S.WOOD	B.IBBS
Authorised	Date
A. WILKIE	11/11/21

CONROY'S GREEN
STAGE 4
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 1
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY P/L

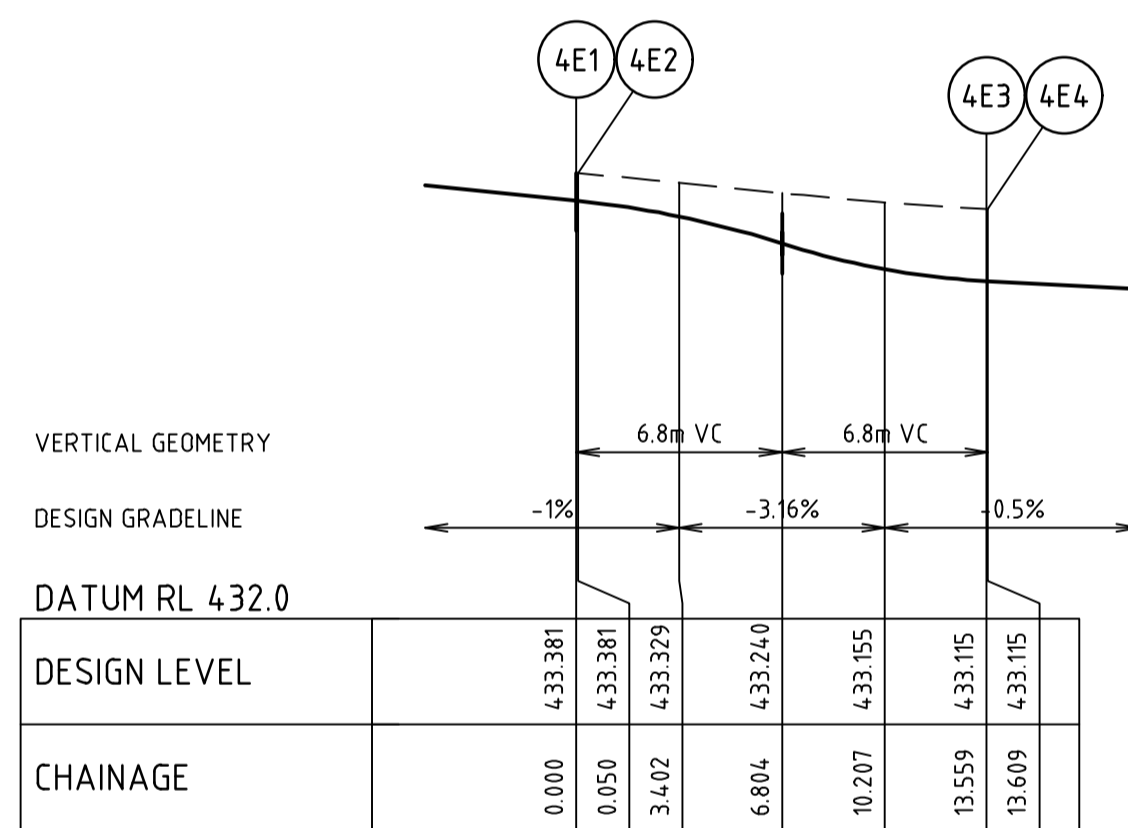
Drg No: **308874CR500** Rev: **0**



COROMANT GRANGE AND SPARROW WAY
KERB RETURN 4E & 4F

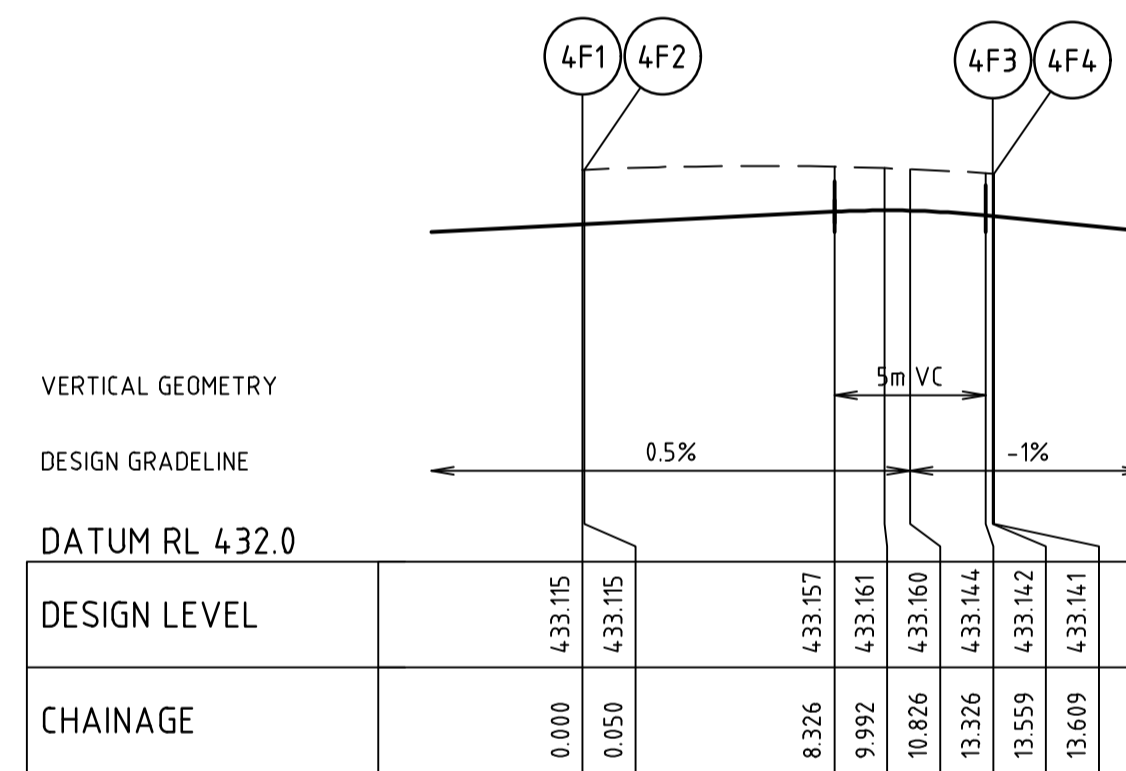


GOLDFINCH ROAD AND SPARROW WAY
KERB RETURN 4G & 4H



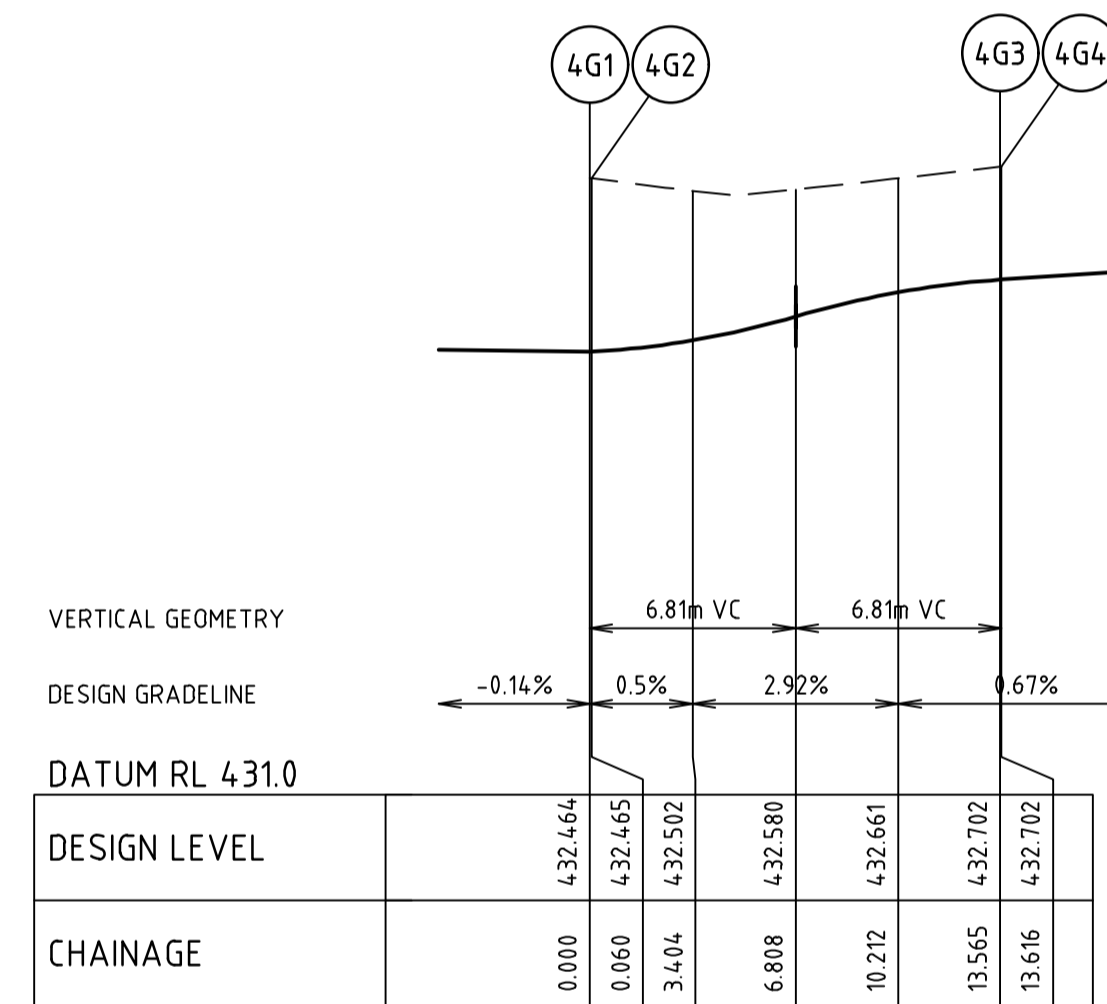
ALIGNMENT 4E

POINT NO	EASTING	NORTHING	RL	CHAINAGE
4E1	745873.484	5837256.494	433.381	0.000
4E2	745873.475	5837256.445	433.381	0.050
1/2	745873.547	5837253.090	433.329	3.427
3/4	745874.898	5837250.018	433.240	6.804
4E3	745877.321	5837247.697	433.155	10.182
4E4	745880.448	5837246.480	433.115	13.559
4E4	745880.497	5837246.471	433.115	13.609



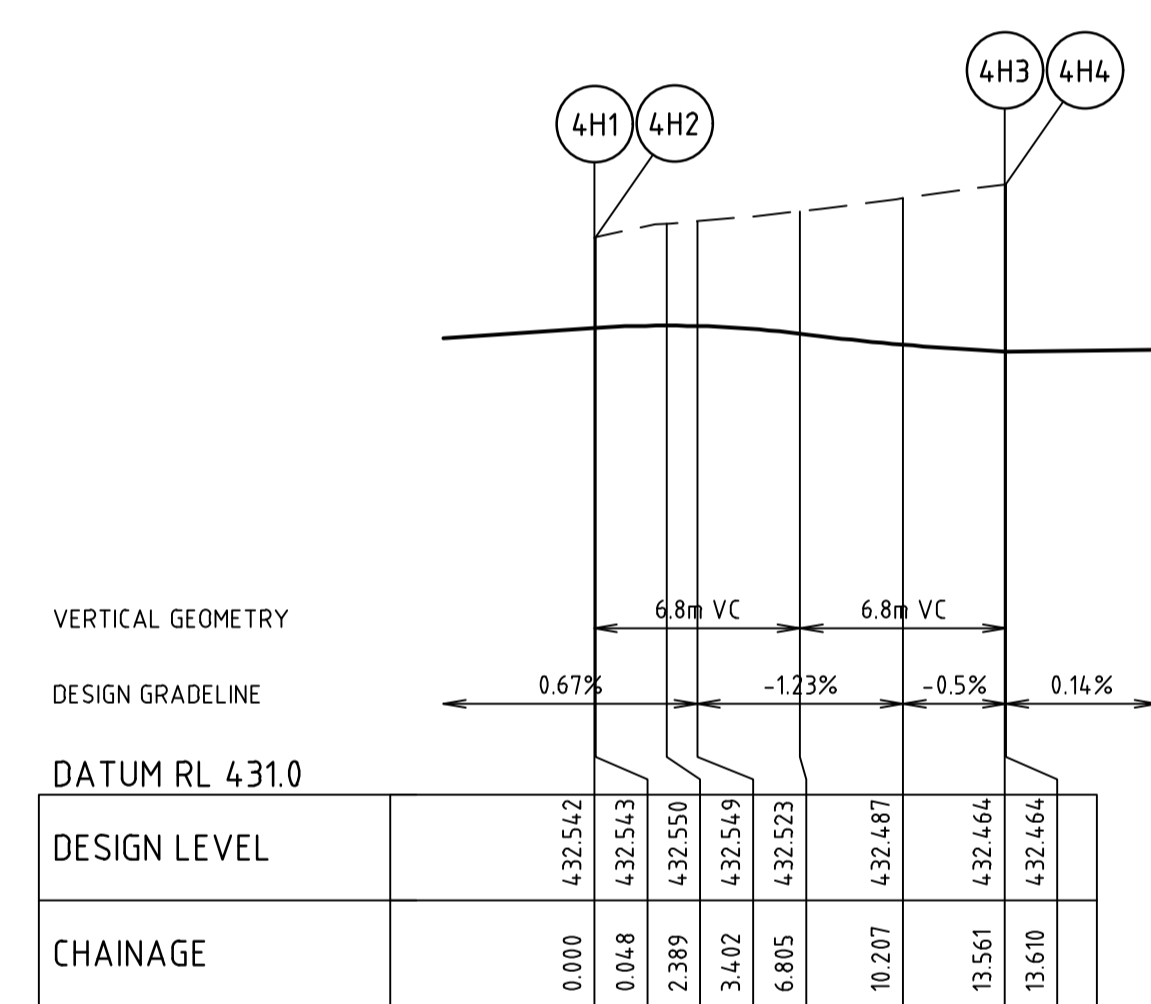
ALIGNMENT 4F

POINT NO	EASTING	NORTHING	RL	CHAINAGE
4F1	745879.331	5837239.873	433.115	0.000
4F2	745879.282	5837239.882	433.115	0.050
1/2	745875.927	5837239.810	433.132	3.427
3/4	745872.855	5837238.460	433.149	6.804
4F3	745870.534	5837236.037	433.161	10.182
4F4	745869.316	5837232.910	433.142	13.559
4F4	745869.307	5837232.860	433.141	13.609



ALIGNMENT 4G

POINT NO	EASTING	NORTHING	RL	CHAINAGE
4G1	745935.702	5837236.715	432.464	0.000
4G2	745935.761	5837236.704	432.465	0.060
1/2	745939.115	5837236.776	432.502	3.404
3/4	745942.186	5837238.125	432.581	6.812
4G3	745944.508	5837240.547	432.660	10.189
4G4	745945.735	5837243.672	432.702	13.565
4G4	745945.735	5837243.723	432.702	13.616



ALIGNMENT 4H

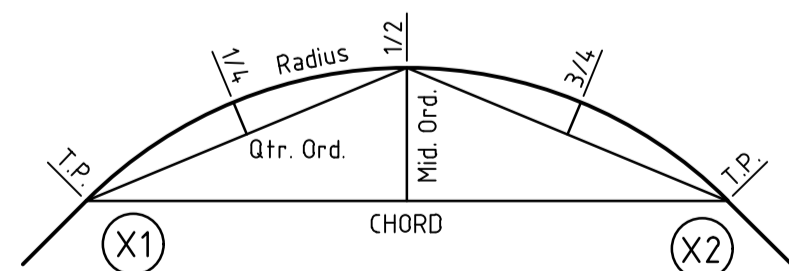
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4H1	745941.547	5837220.091	432.542	0.000
4H2	745941.555	5837220.139	432.543	0.048
1/2	745941.485	5837223.495	432.549	3.427
3/4	745940.135	5837226.568	432.523	6.805
4H3	745937.712	5837228.890	432.488	10.183
4H4	745934.584	5837230.108	432.464	13.561
4H4	745934.536	5837230.117	432.464	13.610

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
4E2-4E3	8.600	13.509	12.162	2.519	0.655

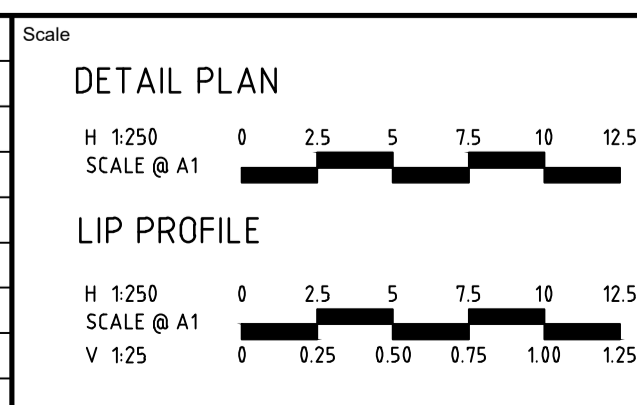
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
4F2-4F3	8.600	13.509	12.162	2.519	0.655

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
4G2-4G3	8.600	13.505	12.159	2.517	0.654

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
4H2-4H3	8.600	13.513	12.165	2.520	0.655



KERB RETURN SETOUT DETAIL



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16 BRIDGE STREET BENDIGO
VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

Designed
S.WOOD
Authorised
A. WILKIE

Checked
B. IBBS
Date
11/11/21

**CONROY'S GREEN
STAGE 4
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 2
CITY OF BALLARAT
SAN HUBERTO PROPERTY P/L**

Rev No
CONSTRUCTION 308874CR501

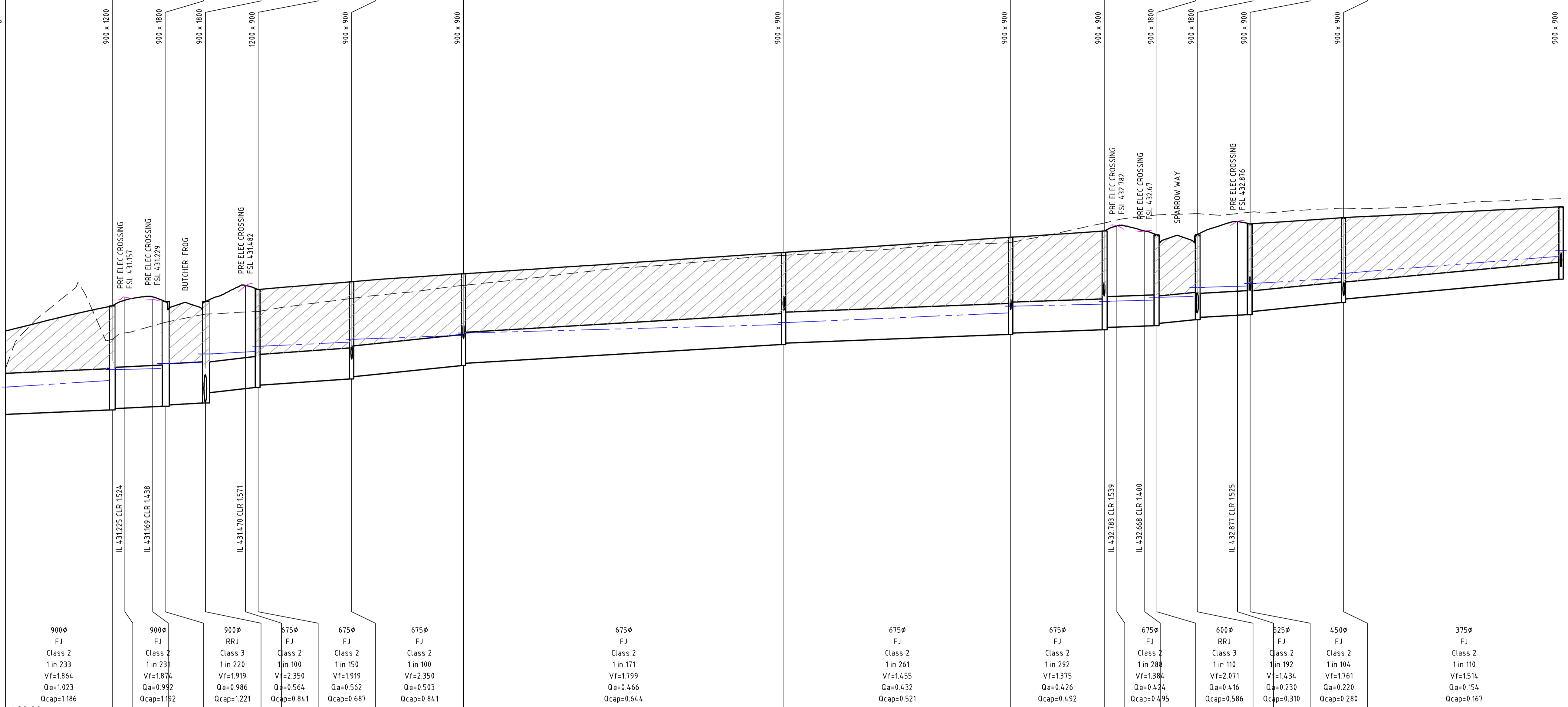
Rev
0

file name: 308874CR501.dwg, layout name: CR501, plotted by: Mitchell Wright, file location: G:\30308874\civil\CADD\plot.dwg, 11/11/2021, 10:55 AM, Sheet 13 of 19 Sheets

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	A.W	11/11/21
A	PRELIMINARY ISSUE	AW	06/07/21



41 EP 42 JP 43 JP 44 JP 45 JP 46 JP 47 JP 48 JP 48A JP 49 JP 410 DSEP 411 DSEP 412 SEP 413 SEP 414 SEP



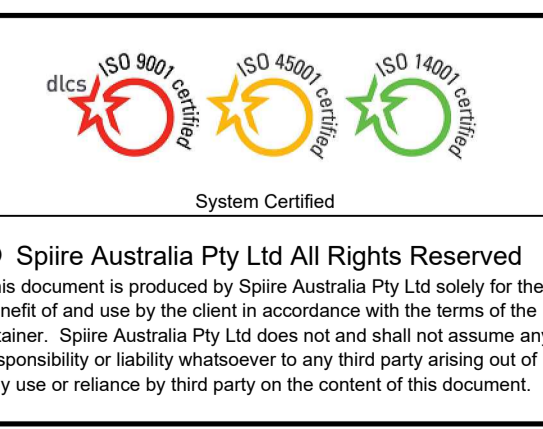
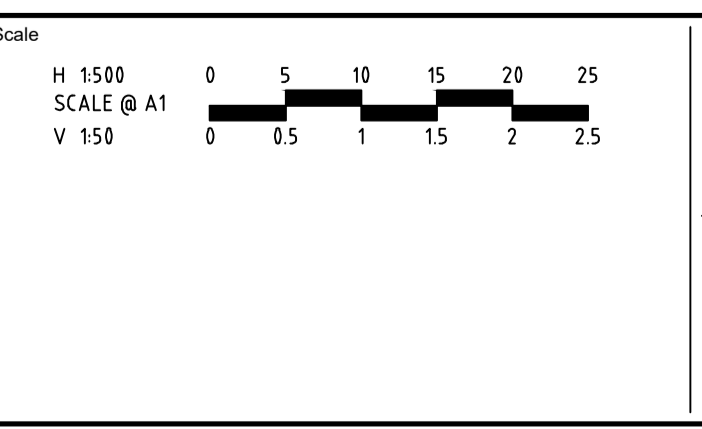
Pipe Diameter	900φ	900φ	900φ	675φ	675φ	675φ	675φ	675φ	675φ	600φ	525φ	450φ	375φ
Joint Type	FJ	FJ	RRJ	FJ	FJ	FJ	FJ	FJ	FJ	RRJ	FJ	FJ	FJ
Pipe Class	Class 2	Class 2	Class 3	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 3	Class 2	Class 2	Class 2
Pipe Grade	1 in 233	1 in 231	1 in 220	1 in 100	1 in 150	1 in 100	1 in 171	1 in 261	1 in 261	1 in 208	1 in 192	1 in 104	1 in 110
Velocity (m/s)	Vf=1.864	Vf=1.874	Vf=1.919	Vf=2.350	Vf=1.919	Vf=2.350	Vf=1.455	Vf=1.375	Vf=1.375	Vf=1.384	Vf=1.434	Vf=1.761	Vf=1.514
Pipe Flow (m³/s)	Qa=1.023	Qa=0.992	Qa=0.986	Qa=0.564	Qa=0.562	Qa=0.503	Qa=0.432	Qa=0.426	Qa=0.424	Qa=0.416	Qa=0.230	Qa=0.220	Qa=0.154
Pipe Capacity (m³/s)	Qcap=1.186	Qcap=1.192	Qcap=1.221	Qcap=0.841	Qcap=0.687	Qcap=0.841	Qcap=0.644	Qcap=0.521	Qcap=0.492	Qcap=0.495	Qcap=0.586	Qcap=0.310	Qcap=0.280
DATUM R.L.	422.00												

DEPTH TO INVERT	428.660	428.660	428.660	428.660	428.660	428.660	428.660	428.660	428.660	428.660	428.660	428.660	428.660
DESIGN INVERT LEVEL	428.660	428.660	428.660	428.660	428.660	428.660	428.660	428.660	428.660	428.660	428.660	428.660	428.660
HYDRAULIC GRADE LEVEL	429.259	429.402	429.664	429.800	429.800	429.800	430.035	430.035	430.035	430.035	430.035	430.035	430.035
FINISHED SURFACE LEVEL	430.484	431.032	431.128	431.128	431.128	431.128	431.391	431.391	431.391	431.391	431.391	431.391	431.391
EXISTING SURFACE LEVEL	429.605	430.299	430.673	430.855	430.855	430.855	430.910	430.910	430.910	430.910	430.910	430.910	430.910
CHAINAGE	0.000	23.329	26.082	32.718	34.874	43.674	55.199	75.649	100.084	170.080	219.649	240.095	242.852

L=23.329m L=11544m L=8.800m L=11525m L=20.450m L=24.435m L=69.996m L=49.569m L=20.446m L=11528m L=8.800m L=11532m L=20.454m L=47.500m

File Name: 308874CR600.dwg | Location: 1055 AN Street | Date: 11/11/2021 | 1055 AN Street | 14 of 19 Sheets
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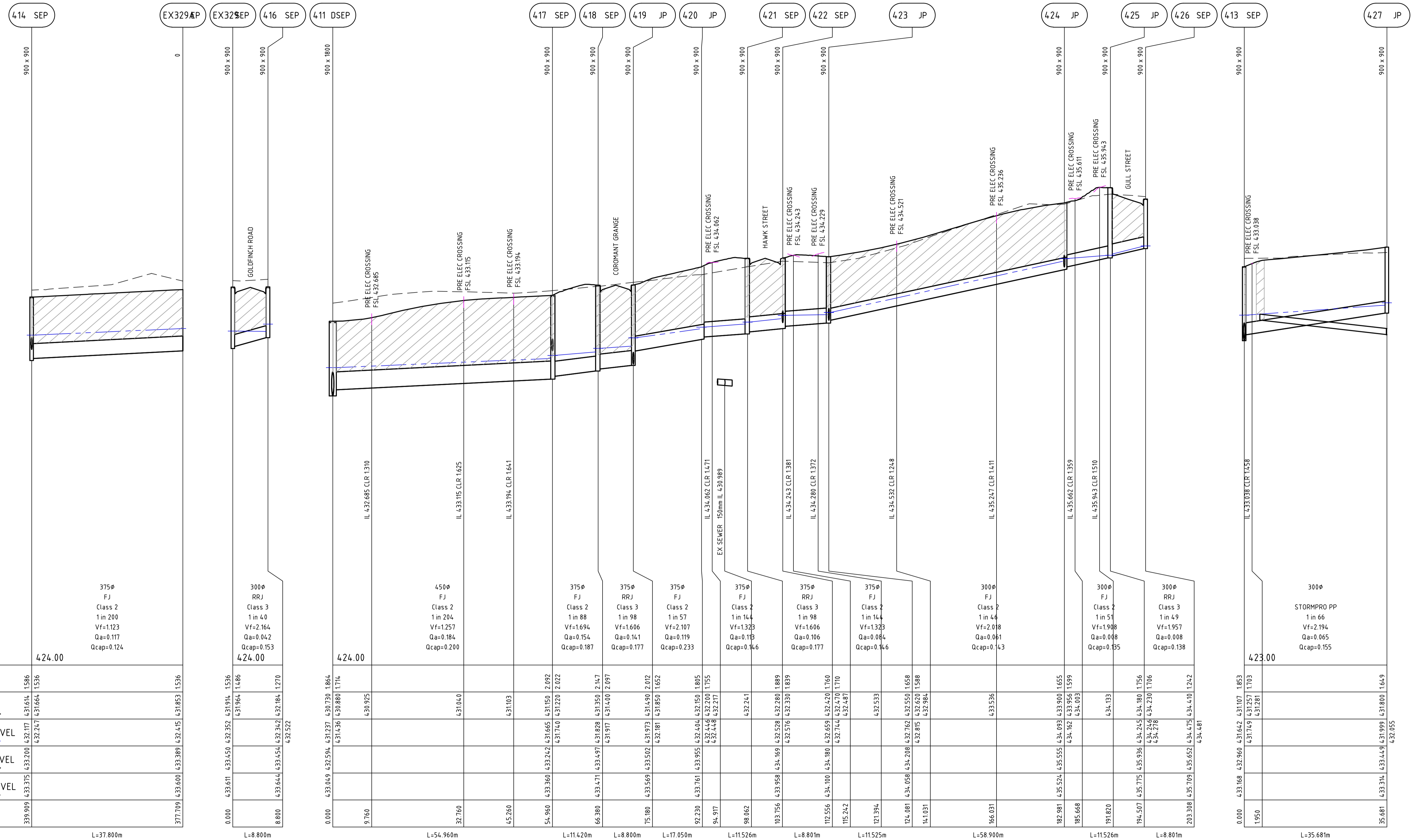
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Rev	0	ISSUED FOR CONSTRUCTION	A.W	11/11/21
Rev	B	REVIEWED PIT TYPES	A.W	11/10/21
Rev	A	PRELIMINARY ISSUE	AW	06/07/21
Rev		Amendments	Approved	Date



Designed	S.WOOD	Checked	B.IBBS
Authorised	A. WILKIE	Date	11/11/21

CONROY'S GREEN
STAGE 4
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 1
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY P/L

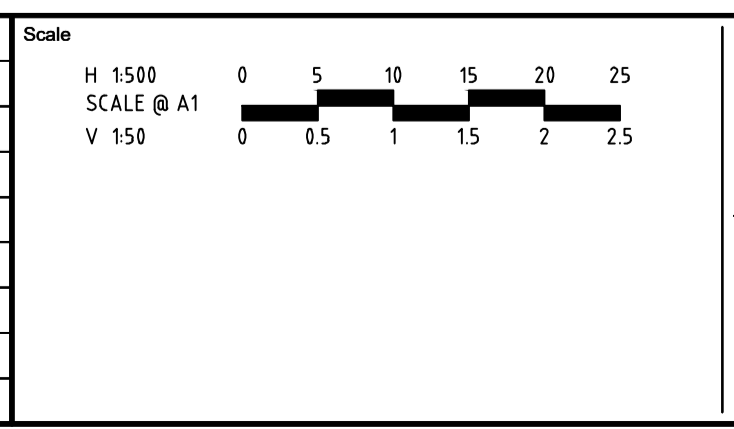
CONSTRUCTION Drg No 308874CR600 Rev 0



Station	Manhole	Pipe Diameter	Joint Type	Pipe Class	Pipe Grade	Velocity (m/s)	Pipe Flow (m ³ /s)	Pipe Capacity (m ³ /s)	DATUM R.L.
377.709	414 SEP	375Ø	FJ	Class 2	1 in 200	Vf=1.123	Qa=0.117	Qcap=0.124	424.00
377.709	EX329 EP	300Ø	RRJ	Class 3	1 in 40	Vf=2.164	Qa=0.153	Qcap=0.153	424.00
377.709	EX329 EP	300Ø	RRJ	Class 3	1 in 40	Vf=2.164	Qa=0.153	Qcap=0.153	424.00
377.709	416 SEP	300Ø	RRJ	Class 3	1 in 40	Vf=2.164	Qa=0.153	Qcap=0.153	424.00
377.709	411 DSEP	300Ø	RRJ	Class 3	1 in 40	Vf=2.164	Qa=0.153	Qcap=0.153	424.00
377.709	417 SEP	375Ø	FJ	Class 2	1 in 88	Vf=1.694	Qa=0.154	Qcap=0.187	424.00
377.709	418 SEP	375Ø	RRJ	Class 3	1 in 98	Vf=1.606	Qa=0.141	Qcap=0.177	424.00
377.709	419 JP	375Ø	FJ	Class 2	1 in 57	Vf=2.107	Qa=0.119	Qcap=0.233	424.00
377.709	420 JP	375Ø	FJ	Class 2	1 in 57	Vf=2.107	Qa=0.119	Qcap=0.233	424.00
377.709	421 SEP	375Ø	FJ	Class 2	1 in 144	Vf=1.323	Qa=0.113	Qcap=0.146	424.00
377.709	422 SEP	375Ø	RRJ	Class 3	1 in 98	Vf=1.606	Qa=0.106	Qcap=0.177	424.00
377.709	423 JP	375Ø	FJ	Class 2	1 in 144	Vf=1.323	Qa=0.084	Qcap=0.146	424.00
377.709	424 JP	300Ø	FJ	Class 2	1 in 44	Vf=2.018	Qa=0.061	Qcap=0.143	424.00
377.709	425 JP	300Ø	FJ	Class 2	1 in 51	Vf=1.908	Qa=0.078	Qcap=0.135	424.00
377.709	426 SEP	300Ø	RRJ	Class 3	1 in 49	Vf=1.957	Qa=0.088	Qcap=0.138	424.00
377.709	413 SEP	300Ø	RRJ	Class 3	1 in 49	Vf=1.957	Qa=0.088	Qcap=0.138	423.00
377.709	427 JP	300Ø	RRJ	Class 3	1 in 66	Vf=2.194	Qa=0.065	Qcap=0.155	423.00

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Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	A.W	11/11/21
B	REVIEWED PIT TYPES	A.W	11/10/21
A	PRELIMINARY ISSUE	AW	06/07/21



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16 BRIDGE STREET BENDIGO

 VICTORIA 3550 AUSTRALIA T 61 3 5448 2500

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Designed	S.WOOD	Checked	B.IBBS
Authorised	A. WILKIE	Date	11/11/21

CONROY'S GREEN

STAGE 4

ROAD AND DRAINAGE

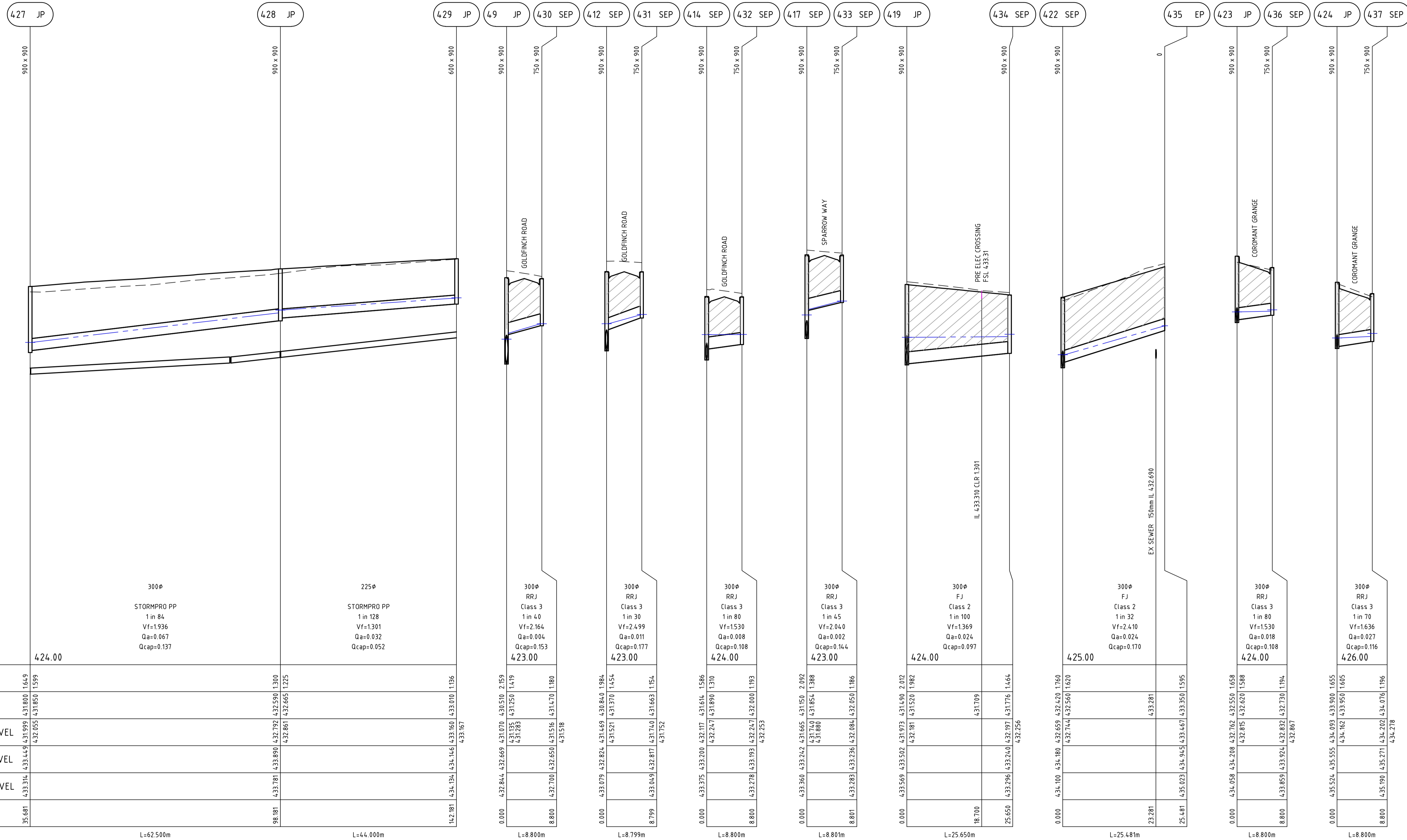
DRAINAGE LONG SECTIONS - SHEET 2

 CITY OF BALLARAT

 SAN HUBERTO PROPERTY P/L

 Drg No
308874CR601

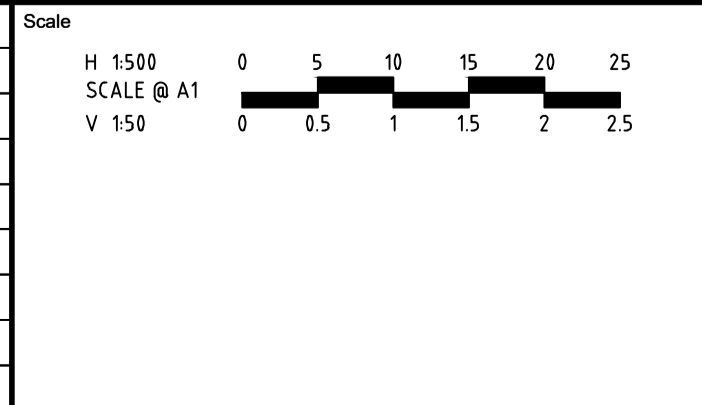
 Rev
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Property	427 JP	428 JP	429 JP	49 JP	430 SEP	412 SEP	431 SEP	414 SEP	432 SEP	417 SEP	433 SEP	419 JP	434 SEP	422 SEP	435 EP	423 JP	436 SEP	424 JP	437 SEP	
Pipe Diameter	300φ	225φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	
Joint Type			RRJ	RRJ	RRJ	RRJ	RRJ	RRJ	RRJ	RRJ	RRJ	FJ	FJ	FJ	RRJ	RRJ	RRJ	RRJ	RRJ	
Pipe Class	STORMPRO PP	STORMPRO PP	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 3	Class 2	Class 2	Class 2	Class 3	Class 3	Class 3	Class 3	Class 3	
Pipe Grade	1 in 84	1 in 128	1 in 40	1 in 40	1 in 30	1 in 30	1 in 80	1 in 80	1 in 80	1 in 45	1 in 100	1 in 32	1 in 32	1 in 32	1 in 80	1 in 80	1 in 80	1 in 70	1 in 70	
Velocity (m/s)	Vf=1.936	Vf=1.301	Vf=2.164	Vf=2.164	Vf=2.499	Vf=2.499	Vf=1.530	Vf=1.530	Vf=1.530	Vf=2.040	Vf=1.369	Vf=2.410	Vf=2.410	Vf=2.410	Vf=1.530	Vf=1.530	Vf=1.530	Vf=1.636	Vf=1.636	
Pipe Flow (m ³ /s)	Qa=0.067	Qa=0.032	Qa=0.004	Qa=0.004	Qa=0.011	Qa=0.011	Qa=0.008	Qa=0.008	Qa=0.008	Qa=0.002	Qa=0.024	Qa=0.024	Qa=0.024	Qa=0.024	Qa=0.018	Qa=0.018	Qa=0.018	Qa=0.027	Qa=0.027	
Pipe Capacity (m ³ /s)	Qcap=0.137	Qcap=0.052	Qcap=0.153	Qcap=0.153	Qcap=0.177	Qcap=0.177	Qcap=0.108	Qcap=0.108	Qcap=0.108	Qcap=0.144	Qcap=0.097	Qcap=0.170	Qcap=0.170	Qcap=0.170	Qcap=0.108	Qcap=0.108	Qcap=0.108	Qcap=0.116	Qcap=0.116	
DATUM R.L.	424.00		423.00	423.00	423.00	423.00	424.00	423.00	423.00	424.00	423.00	424.00	425.00	425.00	424.00	424.00	424.00	426.00	426.00	
DEPTH TO INVERT	431.800, 431.800, 1.649	433.010, 433.010, 1.156	431.050, 431.050, 1.959	430.510, 430.510, 2.159	431.135, 431.135, 1.419	431.740, 431.740, 1.154	431.614, 431.614, 1.586	431.740, 431.740, 1.388	431.880, 431.880, 1.388	431.665, 431.665, 2.092	431.520, 431.520, 1.982	431.709, 431.709, 1.464	432.220, 432.220, 1.760	432.560, 432.560, 1.620	433.281, 433.281, 1.595	432.550, 432.550, 1.658	432.620, 432.620, 1.588	432.830, 432.830, 1.194	432.730, 432.730, 1.194	433.900, 433.900, 1.655
DESIGN INVERT LEVEL	432.055, 432.055, 1.959	432.861, 432.861, 1.225	432.055, 432.055, 1.959	431.135, 431.135, 1.419	431.740, 431.740, 1.154	431.614, 431.614, 1.586	431.740, 431.740, 1.388	431.880, 431.880, 1.388	431.665, 431.665, 2.092	431.520, 431.520, 1.982	431.709, 431.709, 1.464	432.220, 432.220, 1.760	432.560, 432.560, 1.620	433.281, 433.281, 1.595	432.550, 432.550, 1.658	432.620, 432.620, 1.588	432.830, 432.830, 1.194	432.730, 432.730, 1.194	433.900, 433.900, 1.655	
HYDRAULIC GRADE LEVEL	432.055, 432.055, 1.959	432.861, 432.861, 1.225	432.055, 432.055, 1.959	431.135, 431.135, 1.419	431.740, 431.740, 1.154	431.614, 431.614, 1.586	431.740, 431.740, 1.388	431.880, 431.880, 1.388	431.665, 431.665, 2.092	431.520, 431.520, 1.982	431.709, 431.709, 1.464	432.220, 432.220, 1.760	432.560, 432.560, 1.620	433.281, 433.281, 1.595	432.550, 432.550, 1.658	432.620, 432.620, 1.588	432.830, 432.830, 1.194	432.730, 432.730, 1.194	433.900, 433.900, 1.655	
FINISHED SURFACE LEVEL	433.314, 433.314, 1.314	433.781, 433.781, 1.781	433.449, 433.449, 1.449	432.844, 432.844, 1.844	433.890, 433.890, 2.890	433.049, 433.049, 2.049	433.200, 433.200, 2.200	433.569, 433.569, 2.569	433.242, 433.242, 2.242	431.973, 431.973, 1.973	432.181, 432.181, 2.181	433.296, 433.296, 2.296	434.100, 434.100, 3.100	432.744, 432.744, 2.744	435.023, 435.023, 3.023	434.208, 434.208, 3.208	433.859, 433.859, 2.859	434.076, 434.076, 3.076	434.276, 434.276, 3.276	435.524, 435.524, 3.524
EXISTING SURFACE LEVEL	433.314, 433.314, 1.314	433.781, 433.781, 1.781	433.449, 433.449, 1.449	432.844, 432.844, 1.844	433.890, 433.890, 2.890	433.049, 433.049, 2.049	433.200, 433.200, 2.200	433.569, 433.569, 2.569	433.242, 433.242, 2.242	431.973, 431.973, 1.973	432.181, 432.181, 2.181	433.296, 433.296, 2.296	434.100, 434.100, 3.100	432.744, 432.744, 2.744	435.023, 435.023, 3.023	434.208, 434.208, 3.208	433.859, 433.859, 2.859	434.076, 434.076, 3.076	434.276, 434.276, 3.276	435.524, 435.524, 3.524
CHAINAGE	35.681	98.181	112.181	0.000	8.800	0.000	8.799	0.000	8.800	0.000	18.700	25.650	0.000	23.281	25.481	0.000	8.800	0.000	8.800	8.800

File Name: 308874CR602.dwg, Location: P:\Projects\308874\308874.dwg, Date: 11/11/2021, 10:55 AM, Sheet 16 of 19 Sheets

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	A.W	11/11/21
B	REVIEWED PIT TYPES	A.W	11/10/21
A	PRELIMINARY ISSUE	AW	06/07/21



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16 BRIDGE STREET BENDIGO
 VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
 spiire.com.au ABN 55 050 029 635

Designed S.WOOD	Checked B.IBBS
Authorised A. WILKIE	Date 11/11/21

CONROY'S GREEN
STAGE 4
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 3
CITY OF BALLARAT
SAN HUBERTO PROPERTY P/L

Drg No **308874CR602** Rev **0**

CONSTRUCTION

438 EP 439 EP

OUTFALL INTO EXISTING GREENHALGHS ROAD TABLE DRAIN

Pipe Diameter
Joint Type
Pipe Class
Pipe Grade

200 Ø
DN250 PE
PE100
1 in 100

DATUM RL	421.00
DEPTH TO INVERT	0.200
DESIGN INVERT LEVEL	429.663
FINISHED SURFACE LEVEL	429.663
EXISTING SURFACE LEVEL	429.766
CHAINAGE	0.000

L=8.271m

DRAINAGE PIT SCHEDULE											REMARKS	STEP IRON	LADDER
PIT NAME	PIT TYPE	INTERNAL		INLET		OUTLET		PIT					
		WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH				
41	ENDPIPE	0	0	900	428.660			430.484	1.824	TEMPORARY ENDWALL			
42	JUNCTION PIT	900	1200	900	428.790	900	428.760	431.032	2.272	REFER TO COB SD-P10-2. TO BE CONVERTED TO SEP IN FUTURE WORKS	X		
				300	429.700								
43	JUNCTION PIT	900	1800	900	428.870	900	428.840	431.128	2.288	REFER TO COB SD-P10-2. TO BE CONVERTED TO DSEP IN FUTURE WORKS	X		
44	JUNCTION PIT	900	1800	675	429.135	900	428.910	431.128	2.218	REFER TO COB SD-P10-2. TO BE CONVERTED TO DSEP IN FUTURE WORKS	X		
				600	428.930								
45	JUNCTION PIT	1200	900	675	429.300	675	429.250	431.391	2.141	REFER TO COB SD-P10-2. TO BE CONVERTED TO SEP IN FUTURE WORKS	X		
46	JUNCTION PIT	900	900	675	429.486	675	429.437	431.562	2.126	REFER TO COB SD-P10-2.	X		
				300	429.870								
47	JUNCTION PIT	900	900	675	429.780	675	429.730	431.735	2.005	REFER TO COB SD-P10-2. TO BE CONVERTED TO SEP IN FUTURE WORKS	X		
				300	430.320								
48	JUNCTION PIT	900	900	675	430.220	675	430.190	432.202	2.012	REFER TO COB SD-P10-2. TO BE CONVERTED TO SEP IN FUTURE WORKS	X		
				300	430.940								
48A	JUNCTION PIT	900	900	675	430.440	675	430.410	432.532	2.122	REFER TO COB SD-P10-2	X		
				225	430.950								
49	JUNCTION PIT	900	900	675	430.560	675	430.510	432.669	2.159	REFER TO COB SD-P10-2	X		
				300	431.250								
410	DOUBLE SIDE ENTRY PIT	900	1800	600	430.650	675	430.600	432.586	1.986	REFER TO COB SD-P2-2	X		
411	DOUBLE SIDE ENTRY PIT	900	1800	525	430.780	600	430.730	432.594	1.864	REFER TO COB SD-P2-2	X		
				450	430.880								
412	SIDE ENTRY PIT	900	900	450	430.910	525	430.840	432.824	1.984	REFER TO COB SD-P1-2	X		
				300	431.370								
413	SIDE ENTRY PIT	900	900	375	431.182	450	431.107	432.960	1.853	REFER TO COB SD-P1-2	X		
				300	431.257								
414	SIDE ENTRY PIT	900	900	375	431.664	375	431.614	433.200	1.586	REFER TO COB SD-P1-2	X		
				300	431.890								
Ex329A	ENDPIPE	0	0			375	431.853	433.389	1.536	EXISTING ENDPIPE			
Ex329	SIDE ENTRY PIT	900	900	300	431.964			433.450	1.536	EXISTING JP TO BE CONVERTED TO SEP. REFER TO COB SD-P1-2	X		
416	SIDE ENTRY PIT	900	900			300	432.184	433.454	1.270	REFER TO COB SD-P1-2	X		
417	SIDE ENTRY PIT	900	900	375	431.220	450	431.150	433.242	2.092	REFER TO COB SD-P1-2	X		
				300	431.854								
418	SIDE ENTRY PIT	900	900	375	431.400	375	431.350	433.497	2.147	REFER TO COB SD-P1-2	X		
419	JUNCTION PIT	900	900	375	431.850	375	431.490	433.502	2.012	REFER TO COB SD-P10-2	X		
				300	431.520								
420	JUNCTION PIT	900	900	375	432.200	375	432.150	433.955	1.805	REFER TO COB SD-P10-2	X		
421	SIDE ENTRY PIT	900	900	375	432.330	375	432.280	434.169	1.889	REFER TO COB SD-P1-2	X		
422	SIDE ENTRY PIT	900	900	375	432.470	375	432.420	434.180	1.760	REFER TO COB SD-P1-2	X		
				300	432.560								
423	JUNCTION PIT	900	900	300	432.620	375	432.550	434.208	1.658	REFER TO COB SD-P10-2	X		
				300	432.620								
424	JUNCTION PIT	900	900	300	433.956	300	433.900	435.555	1.655	REFER TO COB SD-P10-2	X		
				300	433.950								
425	JUNCTION PIT	900	900	300	434.230	300	434.180	435.936	1.756	REFER TO COB SD-P10-2	X		
426	SIDE ENTRY PIT	900	900			300	434.410	435.652	1.242	REFER TO COB SD-P1-2	X		
427	JUNCTION PIT	900	900	300	431.850	300	431.800	433.449	1.649	REFER TO COB SD-P10-2	X		
428	JUNCTION PIT	900	900	225	432.665	300	432.590	433.890	1.300	REFER TO COB SD-P10-2			
429	JUNCTION PIT	600	900			225	433.010	434.146	1.136	REFER TO COB SD-P10-2			
430	SIDE ENTRY PIT	750	900			300	431.470	432.650	1.180	REFER TO COB SD-P1-2			
431	SIDE ENTRY PIT	750	900			300	431.663	432.817	1.154	REFER TO COB SD-P1-2			
432	SIDE ENTRY PIT	750	900			300	432.000	433.193	1.193	REFER TO COB SD-P1-2			
433	SIDE ENTRY PIT	750	900			300	432.050	433.236	1.186	REFER TO COB SD-P1-2			
434	SIDE ENTRY PIT	900	900			300	431.776	433.240	1.464	REFER TO COB SD-P1-2	X		
435	ENDPIPE	0	0			300	433.350	434.945	1.595	TEMPORARY ENDPIPE FOR FUTURE CONNECTION			
436	SIDE ENTRY PIT	750	900			300	432.730	433.924	1.194	REFER TO COB SD-P1-2			
437	SIDE ENTRY PIT	750	900			300	434.076	435.271	1.196	REFER TO COB SD-P1-2			

file name: 308874CR603.dwg layout name: CR603 plotted by: Mitchell Wright plot date: 11/11/2021 10:55 AM sheet 17 of 19 sheets
 file location: G:\30308874\Level\A\CAD\plot.dwg

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	A.W	11/11/21
B	AMENDED PIT SCHEDULE. ADDED 438 TO 439	A.W	11/10/21
A	PRELIMINARY ISSUE	AW	06/07/21

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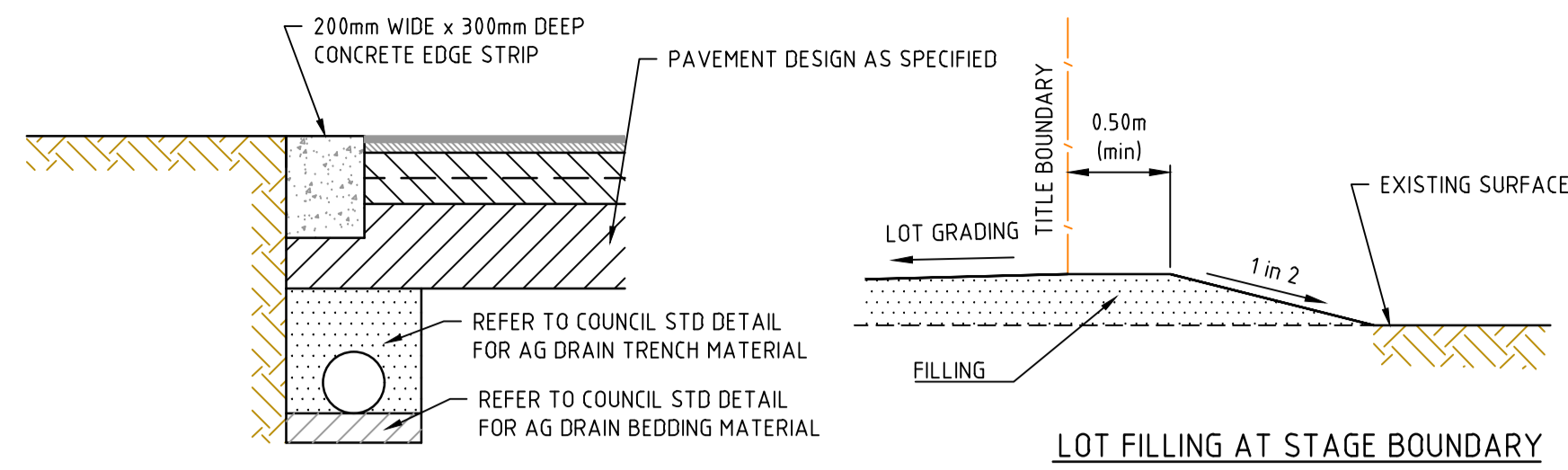


16 BRIDGE STREET BENDIGO
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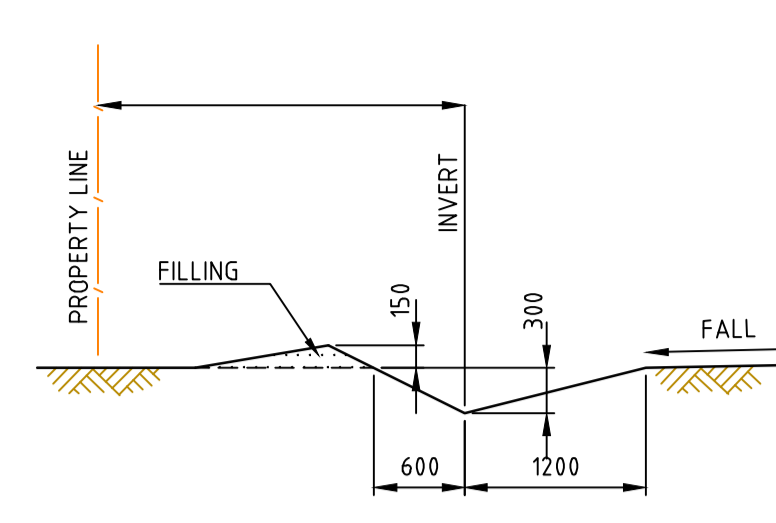
Designed S.WOOD	Checked B.IBBS
Authorised A. WILKIE	Date 11/11/21

CONROY'S GREEN
STAGE 4
ROAD AND DRAINAGE
DRAINAGE PIT SCHEDULE
 CITY OF BALLARAT
 SAN HUBERTO PROPERTY P/L

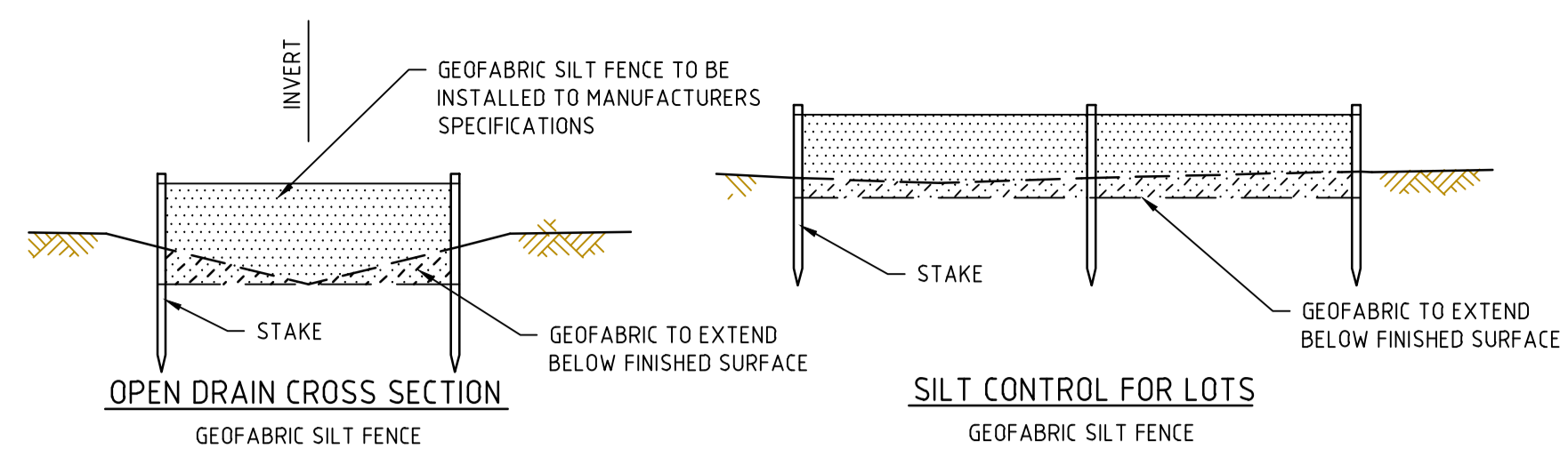

Drg No
308874CR603
Rev
0



LOT FILLING AT STAGE BOUNDARY

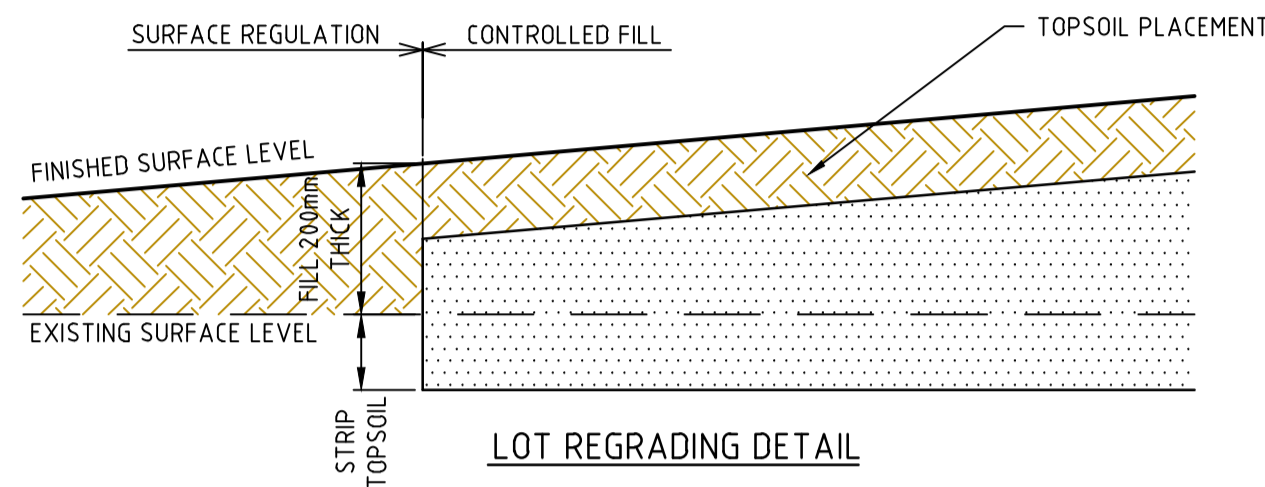


TYPICAL CATCH DRAIN SECTION

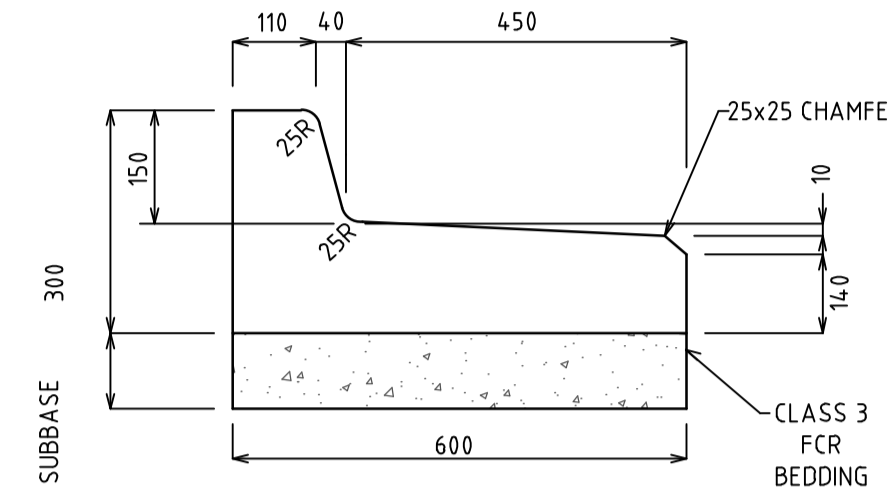


SILT CONTROL OPTIONS

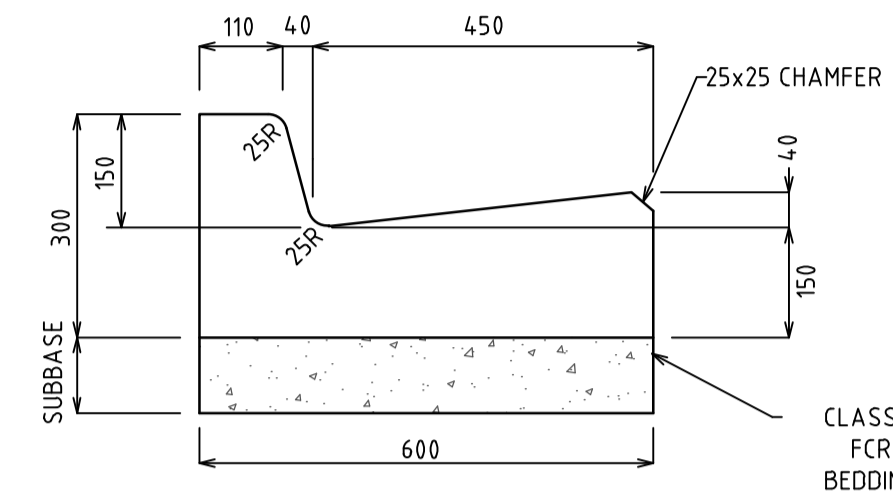
LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE - DETAIL



LOT REGRADING DETAIL

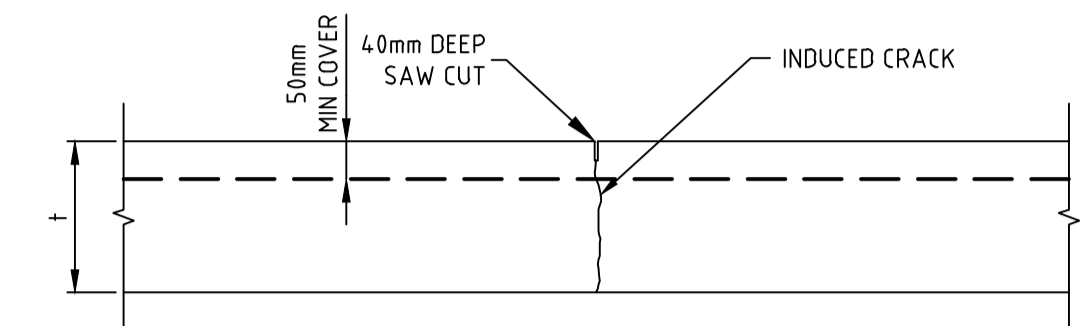


B3 - STANDARD KERB & CHANNEL

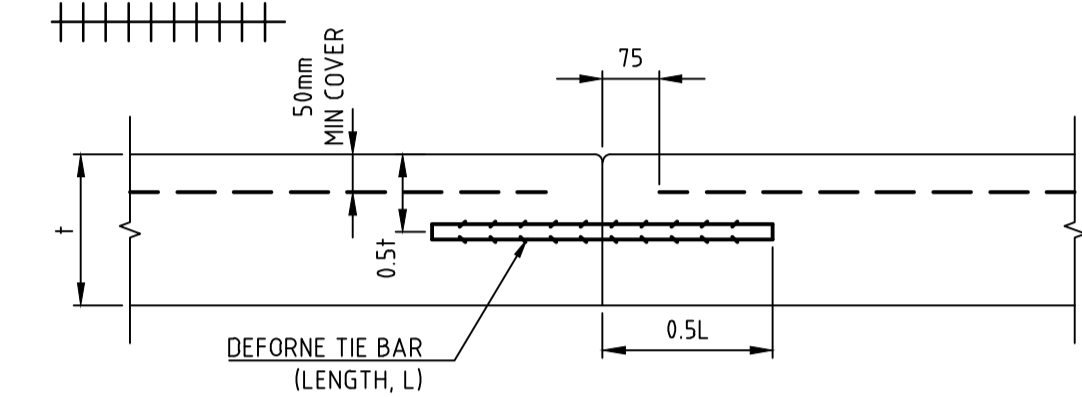


B2 - STANDARD KERB & CHANNEL

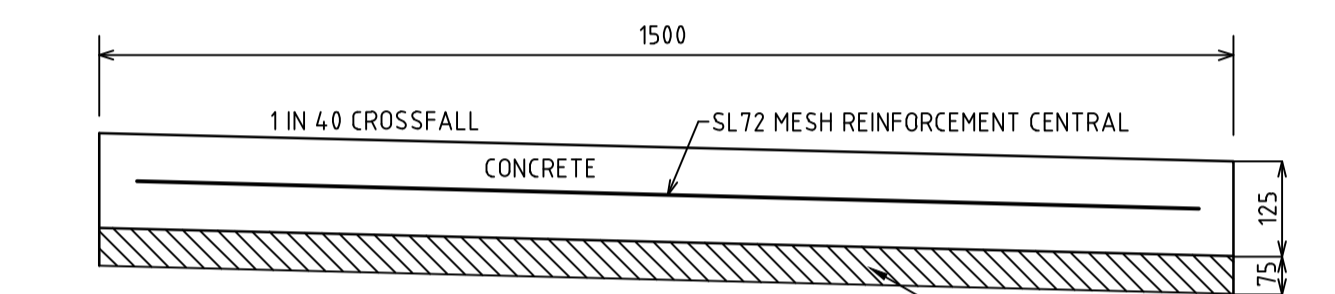
SAW CUT



CONSTRUCTION JOINT



CONSTRUCTION JOINT



FOOTPATH

(NOT TO SCALE)
GENERALLY AS PER COB SD-K3-2
FOOTPATH TO BE 25MPa FOR RESIDENTIAL

GENERAL NOTES:

- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCA 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.
- VARIATION TO JOINT LAYOUT BY CONTRACTOR WILL NOT BE ACCEPTED WITHOUT SPECIFIC WRITTEN APPROVAL OF SUPERINTENDENT & COUNCIL.

STANDARD PAVEMENT

20mm 10mm TYPE N ASPHALT

MATERIAL
TYPE OF ASPHALT OR CLASS OF ROCK
NOMINAL SIZE OF ROCK
COMPACTED THICKNESS OF MATERIAL

NOMENCLATURE

TYPICAL PAVEMENT DETAIL

DESIGN PAVEMENT PROFILE

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		TYPE A* (ACCESS STREET 1)
ASPHALT WEARING COURSE (mm)	SIZE 10mm TYPE N ASPHALT CLASS 320 BITUMEN	40
SAMI LAYER		YES
PRIMER COURSE	PRIME OR 7mm PRIMERSEAL	YES
BASE COURSE (mm)	CLASS 1 or 2 20mm FCR, COMPACTED TO 98% (MDD)	150
SUBBASE COURSE (mm)	CLASS 3 20mm or 40mm FCR, COMPACTED TO 97% (MDD)	220
CAPPING LAYER (mm)	IMPORTED PRODUCT WITH A MINIMUM CBR OF 10, SWELL NO GREATER THAN 15%, PERMEABILITY NO GREATER THAN 5X10-9M/S AND BE COMPACTED TO A MINIMUM DENSITY RATIO OF 98% STANDARD.	150
TOTAL PAVEMENT DEPTH		560

ROAD NAME	TYPE
GOLDFINCH ROAD	A
CORMORANT GRANGE	A
GULL STREET	A
HAWK STREET	A
SPARROW WAY	A

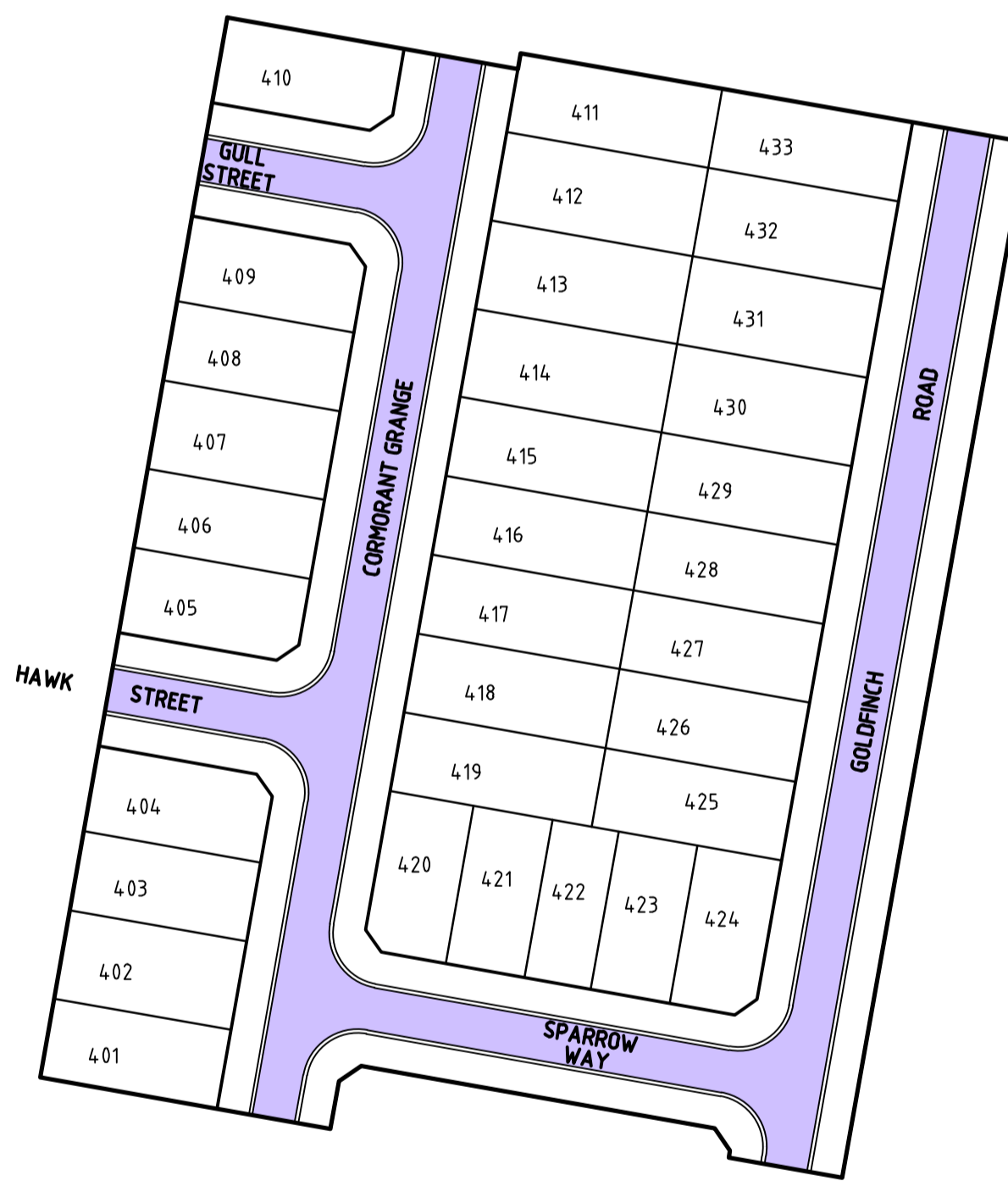
PAVEMENT DETAILS

THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY GTS WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF GTS.

THE DESIGN HAS BEEN EXTRACTED FROM THE GTS REPORT ON "520 GREENHALGH ROAD, WINTER VALLEY" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

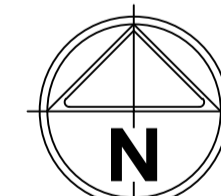
A COPY OF THE DOCUMENT WILL BE PROVIDED TO YOU ON REQUEST.

SPIIRE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS. ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO GTS AND SENT TO SPIIRE.



PAVEMENT PLAN

H 1:1000
SCALE @ A1



MGA 2020
ZONE 54

file name: 308874CR700_A47_120x174.dwg, created: 11/11/2021, 10:55:41 AM, sheet: 18 of 19, sheets

Rev	Description	By	Date
0	ISSUED FOR CONSTRUCTION	A.W	11/11/21
B	AMENDED ROAD NAMES	A.W	11/10/21
A	PRELIMINARY ISSUE	AW	06/07/21
Rev	Amendments	Approved	Date



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16 BRIDGE STREET BENDIGO
VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

Designed
S.WOOD
Authorised
A. WILKIE

Checked
B.IBBS
Date
11/11/21

CONROY'S GREEN
STAGE 4
ROAD AND DRAINAGE
PAVEMENT AND TYPICAL DETAILS
CITY OF BALLARAT
SAN HUBERTO PROPERTY P/L

CONSTRUCTION Drg No 308874CR700 Rev 0

LEGEND

- #1 STREET NAME PLATES TO BE IN ACCORDANCE WITH CITY OF BALLARAT STANDARDS, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE
- #2 G9-20
D4-5
- #3 D4-2-1
- TACTILE GROUND SURFACE INDICATORS (TGSI's)

NOTE:

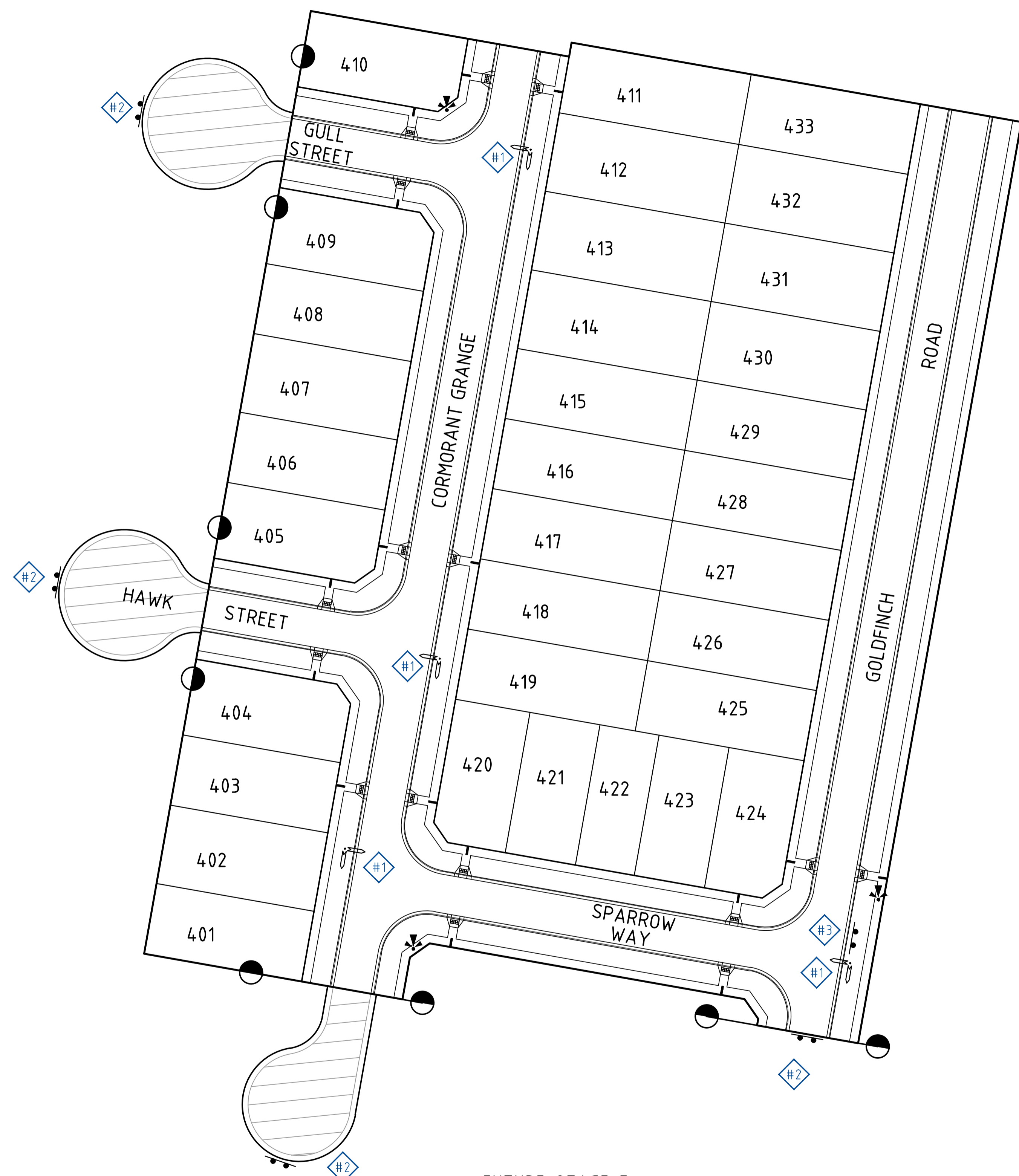
1. STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES, WITH A COUNCIL APPROVED BRACKET, IN LIEU OF SIGN POLES WHERE THE TWO POLES ARE IN CLOSE PROXIMITY AND WHERE THE STREET SIGN WOULD NOT BE COMPROMISED IN ITS PURPOSE BY THE RELOCATION.
2. LINEMARKING TO BE IN ACCORDANCE WITH AS1742.2 - 2009

FUTURE STAGE 9

EXISTING STAGE 3

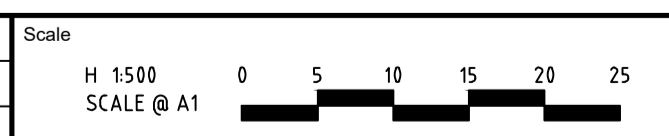
FUTURE STAGE 11

FUTURE STAGE 5



file name: 308874CR800.dwg, layout name: CR800, plotted by: Mitchell Wright, file location: G:\308874\308874\308874\308874.dwg, plot date: 11/11/2021, 10:55 AM, Sheet 19 of 19 Sheets

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	A.W	11/11/21
B	AMENDED ROAD NAME	A.W	11/10/21
A	PRELIMINARY ISSUE	AW	06/07/21



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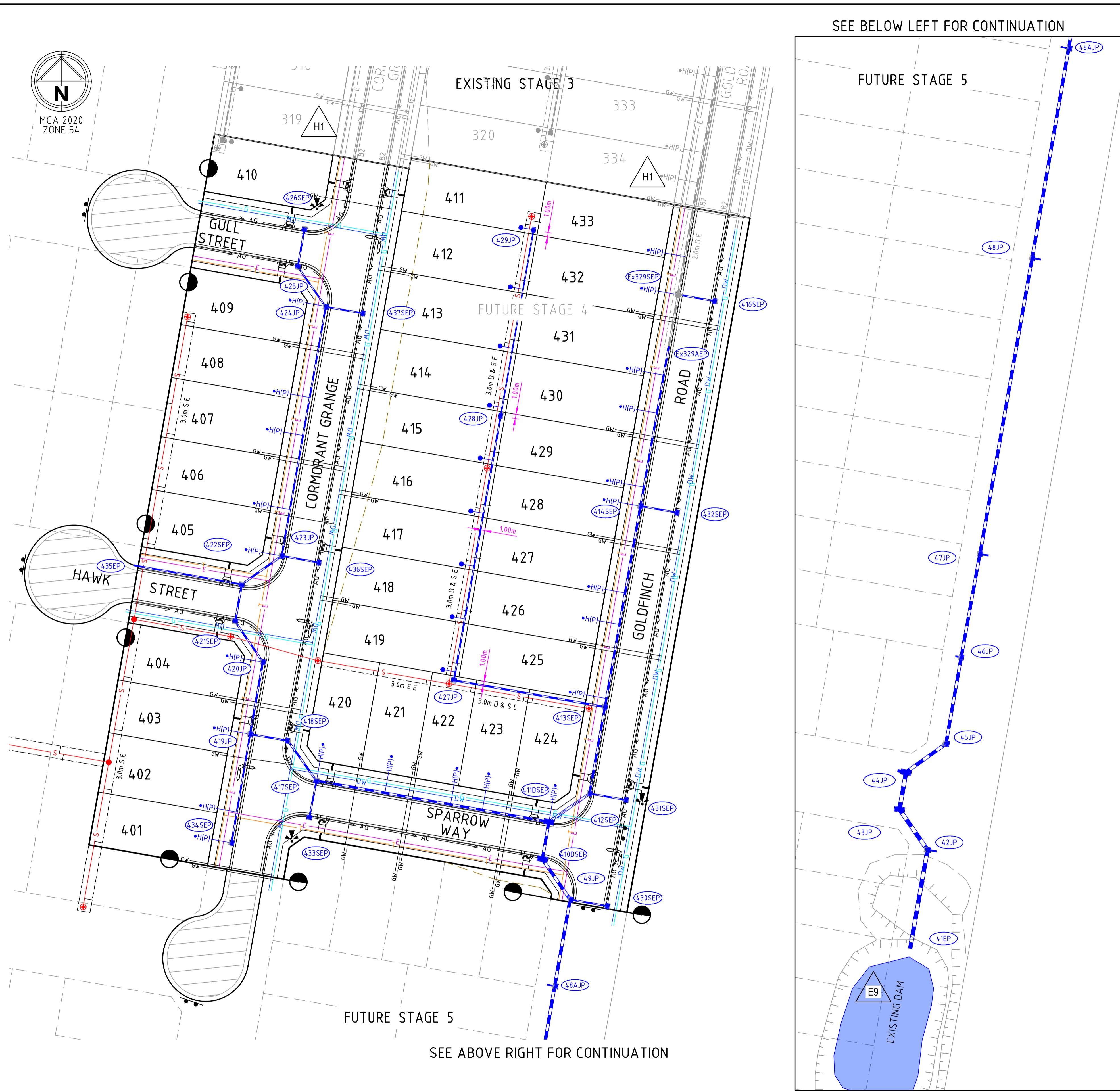
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VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
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Designed S.WOOD	Checked B.IBBS
Authorised A. WILKIE	Date 11/11/21

**CONROY'S GREEN
STAGE 4
ROAD AND DRAINAGE
SIGNAGE AND LINEMARKING
CITY OF BALLARAT
SAN HUBERTO PROPERTY P/L**

CONSTRUCTION Dwg No **308874CR800** Rev **0**



SEE BELOW LEFT FOR CONTINUATION

SEE ABOVE RIGHT FOR CONTINUATION

ENVIRONMENTAL PROTECTION

E1	TRAFFIC AND SITE ACCESS	✓	E2	ENVIRONMENTAL AUDIT AREAS (CONTAMINATION)	✗	E3	ARCHAEOLOGICAL / HERITAGE	✓	E4	FLORA AND FAUNA	✓
E5	MANAGEMENT OF IMPORTED AND EXPORTED SOIL	✓	E6	DUST, NOISE AND ODOUR CONTROL	✓	E7	ASSESSMENT AND MANAGEMENT OF POTENTIALLY CONTAMINATED SOIL	✗	E8	STOCKPILING OF SOIL	✓
E9	EROSION AND SEDIMENT CONTROL	✓	E10	STORMWATER MANAGEMENT	✓	E11	SOLID WASTE MANAGEMENT	✗	E12	PLACEMENT OF TEMPORARY INFRASTRUCTURE	✓
CONTROL PUMPOUT POINT		★	E13	HAZARDOUS CHEMICAL STORAGE AND HANDLING	✓	E14	BLASTING / VIBRATION CONTROL	✗			
CONTRACTOR TO MARK LOCATION OF SEDIMENT CONTROL POINTS ON PLAN FOR APPROVAL ALSO INDICATING METHOD			CONTRACTOR TO MARK LOCATION ON PLAN FOR APPROVAL								

LEGEND

	LOCATION OF SITE COMPOUND
	SILT FENCE
	SILT SOCK

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.

BEWARE OF OVERHEAD ELECTRICITY
CONTRACTOR TO EXERCISE EXTREME CARE WHEN WORKING UNDER OVERHEAD ELECTRICITY. CONTACT POWERCOR FOR SAFETY GUIDELINES FOR WORKING UNDER POWERLINES

GENERAL NOTES

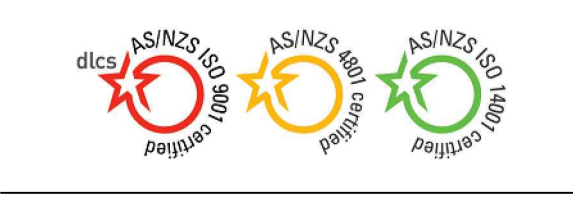
- REFER TO SPECIFICATION FOR DETAIL ON SPECIFIC CLAUSES.
- THE PURPOSE OF THIS PLAN & RELATED SPECIFICATION IS TO IDENTIFY ENVIRONMENTAL AND HEALTH AND SAFETY ISSUES THAT MUST BE CONSIDERED. THE CONTRACTOR SHALL USE THIS PLAN AND RELATED SPECIFICATIONS TO GENERATE THEIR OWN ENVIRONMENTAL MANAGEMENT AND HEALTH AND SAFETY PLAN TO IMPLEMENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- EXISTING FENCINGS ARE SHOWN ON THE ENGINEERING DRAWINGS. UNLESS SPECIFIED FOR DEMOLITION THE CONTRACTOR SHALL NOT REMOVE OR RELOCATE THE FENCING UNLESS PRIOR WRITTEN APPROVAL HAS BEEN OBTAINED FROM THE SUPERINTENDENT.
- THE CONTRACTOR IS TO PROVIDE SEDIMENT FENCE TO CONTROL SILT/FOR ALL STORMWATER RUNOFF FROM THE SITE.
- SITE SECURITY IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY ADDITIONAL FENCING REQUIRED FOR THIS PURPOSE IS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. SECURITY FENCING IS NOT SHOWN ON THIS PLAN.
- KEY ENVIRONMENTAL CONSIDERATIONS SURROUNDING THE SITE OF WORKS ARE MARKED AT TYPICAL LOCATIONS AND THEREFORE SHOULD NOT BE LIMITED TO THOSE AS NOTED. SIMILAR ENVIRONMENTAL TREATMENTS AND PRECAUTIONS SHOULD BE TAKEN FOR ALL POINTS AS MARKED.
- TREES TO BE REMOVED SHALL BE CLEARLY MARKED BY THE SUPERINTENDENT WITH BRIGHT VISIBLE TAPE.
- FOR FURTHER CLARIFICATIONS ON THE CULTURAL AND ARCHAEOLOGICAL SIGNIFICANCE AND PRESERVATIONS WITHIN THE SITE REFER TO THE 'ARCHAEOLOGICAL CONSULTING SERVICES' REPORT, JUNE 2004.

HEALTH AND SAFETY PROTECTION

H1	EXISTING UNDERGROUND SERVICES	✓	H2	RESPONSIBILITIES	✓
CONTRACTOR TO CONDUCT 'MOCS' INQUIRY AND NOTIFY ALL AUTHORITIES TO LOCATE EXISTING SERVICES.			CONTRACTOR TO FORWARD DETAILS OF THE NOMINATED OH&S REPRESENTATIVE.		
H3	BLASTING	✗	H4	SITE ACCESS RESTRICTED AREAS	✗
H5	DUST CONTROL & NOISE CONTROL	✓	H6	SITE INDUCTIONS	✓
			CONTRACTOR TO ENSURE THAT ALL SUBCONTRACTORS ARE AWARE OF THE REQUIREMENTS SETOUT IN THE EMP.		
H7	MANAGEMENT OF CONTAMINATED SOIL / GROUNDWATER / SURFACE WATER	✗	H8	SIGNAGE	✓
H9	TRAFFIC MANAGEMENT	✓	H10	ACCIDENTAL DISTURBANCE OR CONTACT	✗
H11	EMERGENCY PROCEDURES	✓	H12	ACCIDENT REPORTING	✓
H13	OPERATING PLANT / MACHINERY	✓	H14	EXCAVATIONS, CONFINED SPACES & VOIDS	✓

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Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	A.W	11/11/21
A	PRELIMINARY ISSUE	A.W	11/10/21



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Designed
S.WOOD
Authorised
A.WILKIE

Checked
A.WILKIE
Date
11/11/21

CONROY'S GREEN STAGE 4

ENVIRONMENTAL MANAGEMENT PLAN - SHEET 1
BALLARAT CITY COUNCIL
ABIWOOD CREEKSIDE PTY LTD

CONSTRUCTION Drg No: 308874CE001 Rev: 0

Erosion & Sediment Control

Sediment Fence

U-shaped with posts at 1 m centres and a 300 mm (min) high spill-through weir with crest level below the upper ground level

Erosion & Sediment Control

Stockpiles

A sediment fence should be located down-slope of stockpiles

Erosion & Sediment Control

Fence Installation

Constructing a sediment trench up-slope of the fence can also extend the maintenance period

Sediment storage trench 1 m³ volume per 200 m² of catchment area

Erosion & Sediment Control

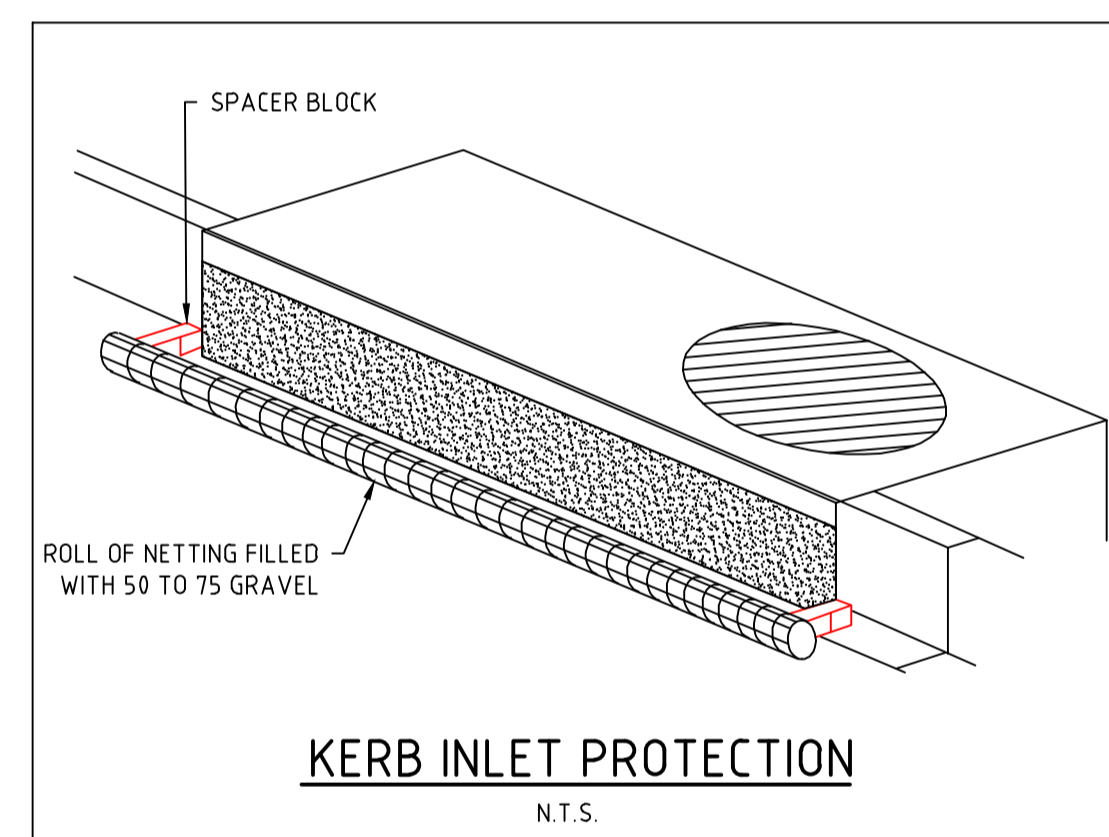
Sediment Fence

A sediment fence is effectively a porous dam that aims to temporarily pond up-slope water allowing settlement

ENVIRO DEVELOPMENT ACCREDITATION

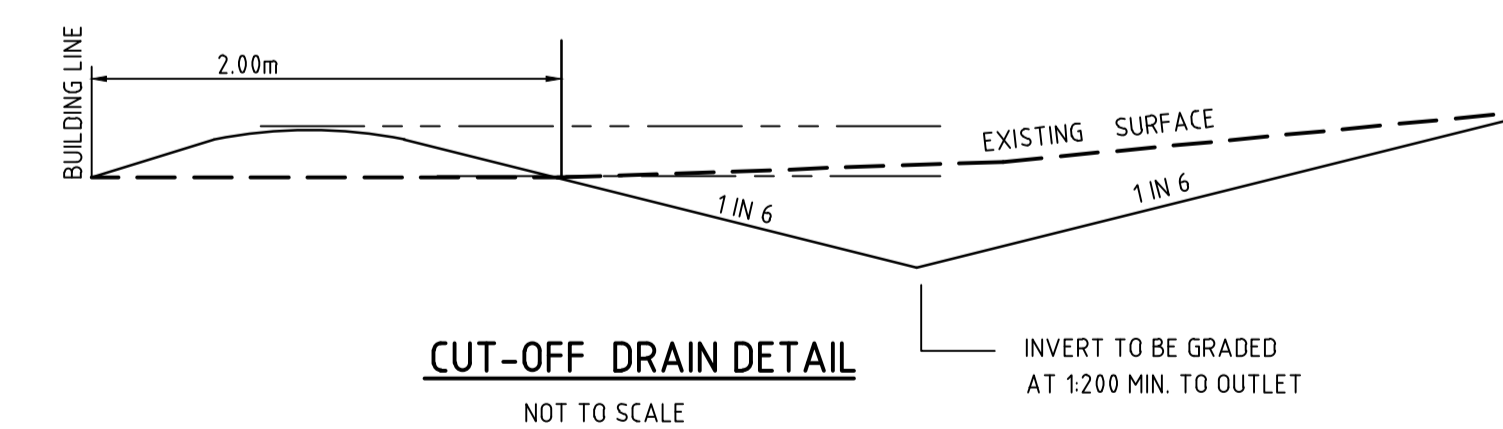
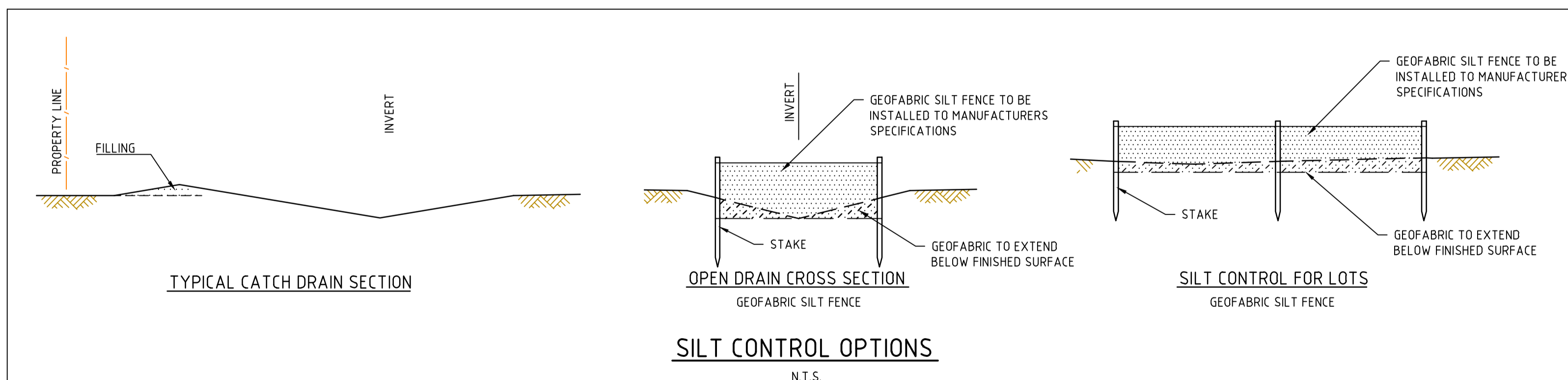
THE CONTRACTOR WILL BE RESPONSIBLE TO ASSIST ABIWOOD (THE DEVELOPER) TO ACHIEVE ACCREDITATION OF "EnviroDevelopment". EnviroDevelopment IS A SCIENTIFICALLY BASED BRANDING SYSTEM DESIGNED TO MAKE IT EASIER FOR PURCHASERS TO RECOGNIZE AND THEREBY SELECT MORE ENVIRONMENTALLY SUSTAINABLE HOMES AND LIFESTYLES. MORE SPECIFICALLY THE CONTRACTOR WILL NEED TO MEET THE FOLLOWING REQUIREMENTS.

1. THE CONTRACTOR WILL COMMIT TO PROVIDING STORMWATER MANAGEMENT TO ENSURE WATERWAYS (KENSINGTON CREEK) ARE PROTECTED DURING CONSTRUCTION. THIS INCLUDES PROVIDING SILT TRAPS ONSITE AND IMPLEMENTING NO GO ZONES.
2. EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE PRIOR TO OPERATION.
3. THE CIVIL DESIGN HAS BEEN UNDERTAKEN TO BALANCE CUT AND FILL VOLUMES TO MINIMIZE ANY EXPORTATION / IMPORTATION OF CUT / FILL ON THE SITE. THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT SHOULD ANY SPOIL BE REQUIRED TO BE TAKEN OFFSITE OR IMPORTED.
4. A CONTAMINATION INVESTIGATION HAS BEEN UNDERTAKEN AT THE SITE. THIS INVESTIGATION CONCLUDES THAT THE SITE HAS A LOW RISK FOR SOIL CONTAMINATION. THIS ENVIRONMENTAL MANAGEMENT AND INARTICULATE ITEM 3 ABOVE ASSISTS IN MANAGING SOIL REMOVAL & IMPORTATION.
5. THE CONTRACTOR MUST USE THE FOLLOWING ENVIRONMENTALLY SUSTAINABLE MATERIALS AND SUPPLIERS:
 - a) 95% OF CONSTRUCTED ROADS SHALL BE CONSTRUCTED USING WARM MIX ASPHALT REPLACING 40% BY WEIGHT OF HOT MIX ASPHALT. THE CONTRACTOR SHALL ALSO PROVIDE PROOF SUPPORTING THIS TECHNICAL INFORMATION.
 - b) PCV MATERIAL USED WITHIN THE DEVELOPMENT MUST BE SOURCED FROM A SUPPLIER WHO IS ISO14001 CERTIFIED. THE CONTRACTOR SHALL ALSO PROVIDE PROOF SUPPORTING THIS TECHNICAL INFORMATION.
6. SOFT LANDSCAPING - THROUGHOUT THE PROJECT ANY VEGETATION DEBRIS FROM THE SITE IS TO BE MULCHED AND REUSED. ANY NON-CONTAMINATED TOPSOIL SHALL ALSO STOCKPILED AND RE-USED ONSITE.
7. THE CONTRACTOR SHALL BE AWARE THE SITE IS OF CULTURAL HERITAGE SIGNIFICANCE AND HAS A CULTURAL HERITAGE MANAGEMENT PLAN WHICH AT ALL TIMES MUST BE ADHERED TO. THE CONTRACTOR WILL BE REQUIRED TO UNDERTAKE A SITE INDUCTION WITH THE APPROPRIATE CULTURAL HERITAGE STAKEHOLDERS PRIOR TO WORKS COMMENCING. A COPY OF THE CULTURAL HERITAGE MANAGEMENT PLAN WILL BE PROVIDED TO THE CONTRACTOR PRIOR TO WORKS COMMENCING.



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.



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Scale

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Designed S.WOOD	Checked A.WILKIE
Authorised A.WILKIE	Date 11/11/21

CONROYS GREEN STAGE 4

ENVIRONMENTAL MANAGEMENT PLAN - SHEET 2
BALLARAT CITY COUNCIL
ABIWOOD CREEKSIDE PTY LTD

CONSTRUCTION 308874CE001

Rev 0