

EMU RISE ESTATE - STAGE 2

29 EMU CREEK ROAD, STRATHFIELDSAYE

EMU CREEK CONSTRUCTIONS PTY LTD

GB4814

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS

APPROVED BY: Peter Brasier

DATE: 28 March 2025

GENERAL NOTES:

A. GENERAL

1. ALL WORK TO BE CARRIED OUT TO CITY OF GREATER BENDIGO SPECIFICATIONS, STANDARD DRAWINGS AND TO THE SATISFACTION OF COUNCILS SENIOR SURVEILLANCE OFFICER OR HIS REPRESENTATIVE.

2. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA).

3. 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.

4. 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.

5. 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.

6. 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.

7. 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.

8. 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 6320 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.

9. COUNCIL'S REPRESENTATIVE IS TO BE NOTIFIED IN WRITING SEVEN (7) DAYS PRIOR TO THE COMMENCEMENT OF WORKS.

10. NO EXCAVATION WITHIN 5M OF ANY EXISTING TREE WITHOUT APPROVAL OF THE ENGINEER.

11. NO BLASTING IS PERMITTED WITHIN THE CITY OF GREATER BENDIGO WITHOUT OBTAINING COUNCIL'S SPECIAL DISPENSATION.

12. EXCAVATED MATERIAL SURPLUS TO FILLING REQUIREMENTS OF THE WORKS SHALL BE REMOVED FROM SITE AS SPECIFIED.

13. 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.

14. NATURESTRIPS AND ALL AREAS OF CUT OUTSIDE ROAD RESERVE TO BE SURFACED WITH 100MM MINIMUM COMPACTED LAYER OF TOPSOIL.

B. ROAD WORKS

1. FOOTPATHS ARE TO BE 15M WIDE UNLESS SHOWN OTHERWISE. FOOTPATHS TO BE CONSTRUCTED TO THE CITY OF GREATER BENDIGO STANDARDS.

2. CONSTRUCT LAYBACK SECTION AT VEHICLE CROSSING, REVERSING BAYS AND CAR PARKING BAYS AND PRAM CROSSING TO THE CITY OF GREATER BENDIGO STANDARDS.

3. ALL CHAINAGES REFER TO ROAD PAVEMENT CENTRELINES EXCEPT IN COURT HEADS AND INTERSECTIONS WHERE CHAINAGES REFER TO LIP OF KERB.

4. THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE MADE GOOD.

5. ALL BATTERS SHALL BE TO THE CITY OF GREATER BENDIGO STANDARDS.
- CUT 1 IN 12 UNLESS OTHERWISE SHOWN.
- FILL 1 IN 12 UNLESS OTHERWISE SHOWN.

6. ALL SET OUT INFORMATION GIVEN IS TO LIP OF KERB UNLESS OTHERWISE SHOWN.

7. 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.

8. SUBGRADE BE COMPACTED TO A MINIMUM OF 98% STANDARD MAXIMUM DRY DENSITY (AS3798), WITH THE SUBBASE COMPACTED IN ACCORDANCE WITH SCALE C INVICROADS 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.

9. 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.

10. CONCRETE TO HAVE 28DAY STRENGTH OF 25MPA UNLESS NOTED OTHERWISE

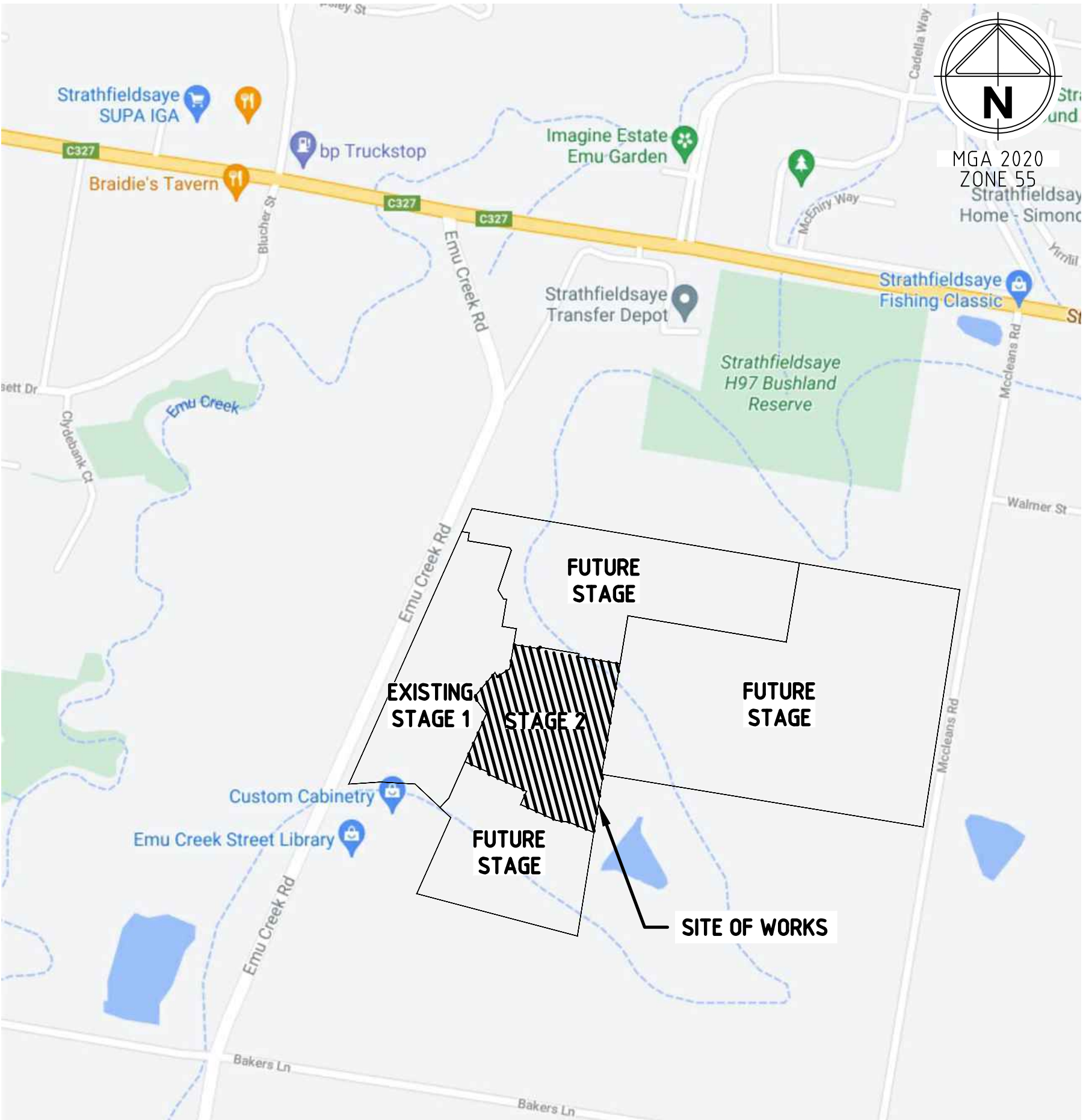
SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE	
WEDGETAIL RISE (LOT 33-36, 38-40, 44, 57, 60)	SOUTH	2.40	SOUTH	1.90	NORTH	1.90	SIDE	10x	NORTH	2.40
WHISTLER STREET	EAST	2.40	EAST	1.90	WEST	1.90	WEST	10x	WEST	2.40
SWIFT STREET	WEST	2.40	WEST	1.90	WEST	1.90	EAST	10x	EAST	2.40
WATTLEBIRD DRIVE	WEST	2.40	WEST	1.90	EAST	0.90	EAST	0.9x	EAST	1.40
WEDGETAIL RISE (LOT 41-43)	EAST	2.40	EAST	1.90	WEST	1.90	WEST	10x	WEST	2.40

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

DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES - SHEET 1	1	C
CR200	ROAD LAYOUT PLANS - SHEET 1	2	C
CR201	ROAD LAYOUT PLANS - SHEET 2	3	C
CR202	EARTHWORKS PLANS - SHEET 3	4	B
CR203	EARTHWORKS PLANS - SHEET 4	5	B
CR300	ROAD LONG SECTIONS - SHEET 1	6	A
CR301	ROAD LONG SECTIONS - SHEET 2	7	A
CR302	ROAD LONG SECTIONS - SHEET 3	8	B
CR400	ROAD CROSS SECTIONS - SHEET 1	9	A
CR401	ROAD CROSS SECTIONS - SHEET 2	10	A
CR402	ROAD CROSS SECTIONS - SHEET 3	11	A
CR403	ROAD CROSS SECTIONS - SHEET 4	12	B
CR404	ROAD CROSS SECTIONS - SHEET 5	13	B
CR500	INTERSECTION DETAILS - SHEET 1	14	A
CR501	INTERSECTION DETAILS - SHEET 2	15	B
CR502	INTERSECTION DETAILS - SHEET 3 (TBMs)	16	B
CR600	DRAINAGE LONG SECTIONS - SHEET 1	17	B
CR601	DRAINAGE LONG SECTIONS - SHEET 2	18	B
CR602	DRAINAGE LONG SECTIONS - SHEET 3	19	B
CR603	DRAINAGE LONG SECTIONS - SHEET 4	20	A
CR604	DRAINAGE LONG SECTIONS - SHEET 5	21	B
CR605	PIT 205 & 205.1 DETAILS - SHEET 1	22	B
CR606	PIT 205 & 205.1 DETAILS - SHEET 2	23	B
CR700	PAVEMENT AND TYPICAL DETAILS - SHEET 1	24	B
CR800	SIGNAGE AND LINEMARKING - SHEET 1	25	B



LOCALITY PLAN

SCALE: NOT TO SCALE
VICROADS ED. 7: 615 N5



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

Designed
J.CAPACETE

Authorised
M.RULE

Checked
B.IBBS

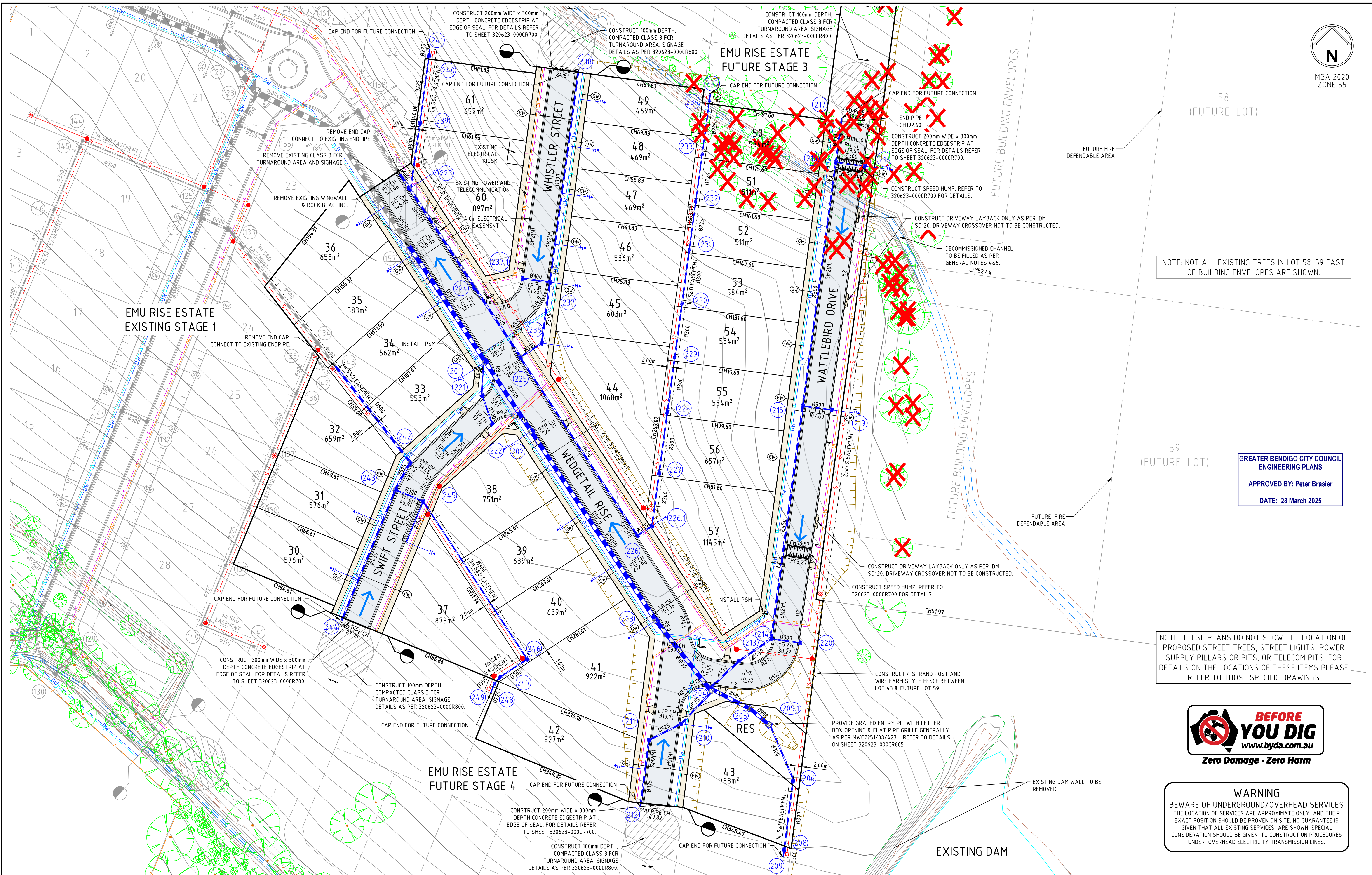
Date
MAR 2025

EMU RISE ESTATE - STAGE 2
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD AND DRAINAGE
GENERAL NOTES - SHEET 1
CITY OF GREATER BENDIGO
EMU CREEK CONSTRUCTIONS PTY LTD

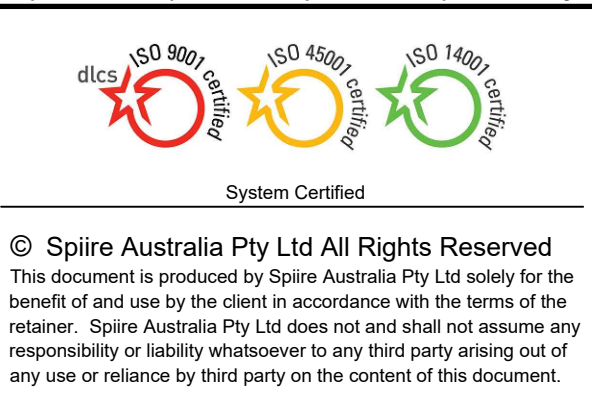
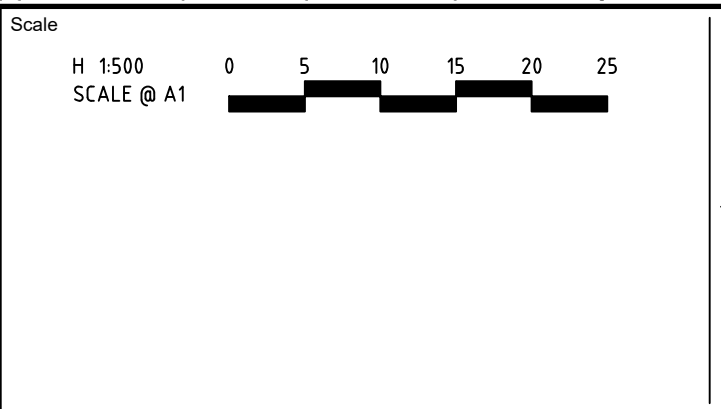
PRELIMINARY Drg No **320623-000CR100** Rev **C**

LEGEND	EXISTING	PROPOSED
DESCRIPTION		
WATER MAIN, VALVE AND HYDRANT	— DW —	— DW —
UNDERGROUND ELECTRICITY	— E —	— E —
OVERHEAD ELECTRICITY & POLE	— OE —	— OE —
TELSTRA & SERVICE PIT	— T —	— T —
OPTIC FIBRE & SERVICE PIT	— OF —	— OF —
GAS MAIN	— G —	— G —
BRANCH SEWER & MANHOLE	— S —	— S —
SEWER & MANHOLE	— S —	— S —
SEWER RISING MAIN	— SRM —	— SRM —
CENTRAL INVERT	— > —	— > —
EMU VALLEY No 2 CHANNEL PIPING (COLIBAN)	— C —	— C —
COUNCIL STORMWATER DRAIN & PIT	— CD —	— CD —
COUNCIL STORMWATER PITS	— CD —	— CD —
HOUSE DRAIN	— H —	— H —
CATCH DRAIN	— CD —	— CD —
AG DRAIN AND FLUSHER	— AG —	— AG —
STORMWATER DRAINAGE PIT NUMBER	①	①
OVERLAND FLOW PATH	— > —	— > —
GAS & WATER CONDUITS	— GW —	— GW —
CONCRETE VEHICLE CROSSING	— X —	— X —
PAVEMENT SAWCUT LINE	— SAWCUT —	— SAWCUT —
SURFACE CONTOUR MINOR	168.90	168.90
SURFACE CONTOUR MAJOR	169.00	169.00
SURFACE LEVEL	E123.45	F124.68
BATTER LEVEL (TOP / TOE)	T124.80	T124.80
EARTHWORKS GRADE	1 in 150	1 in 150
SIGN AND POST	— S —	— S —
LIGHT & POLE (BY OTHERS)	— L —	— L —
STREET SIGN	— S —	— S —
PERMANENT SURVEY MARK	— P —	— P —
TEMPORARY BENCH MARK	— T —	— T —
BOLLARD	— B —	— B —
ROAD CHAINAGES	CH116.57 (L/R)TIP CH116.57	CH116.57 (L/R)TIP CH116.57
LOT CHAINAGE	CH20.06	CH20.06
SETOUT POINT	— A2 —	— A2 —
LIMIT OF WORKS	— L —	— L —
BATTER	— B —	— B —
EXCAVATION GREATER THAN 0.20m	— E —	— E —
FILLING GREATER THAN 0.20m	— F —	— F —
FILL EXTENTS	— F —	— F —
ROCK BEACHING	— R —	— R —
GRAVEL MAINTENANCE ACCESS TRACK	— G —	— G —
FENCE - TREE PROTECTION	— T —	— T —
FENCE - VEHICLE EXCLUSION	— V —	— V —
FENCES	— F —	— F —
TREE (& SURVEYED (CANOPY) TO BE RETAINED	— T —	— T —
TREE TO BE REMOVED	— T —	— T —
VEGETATION LINE	— V —	— V —

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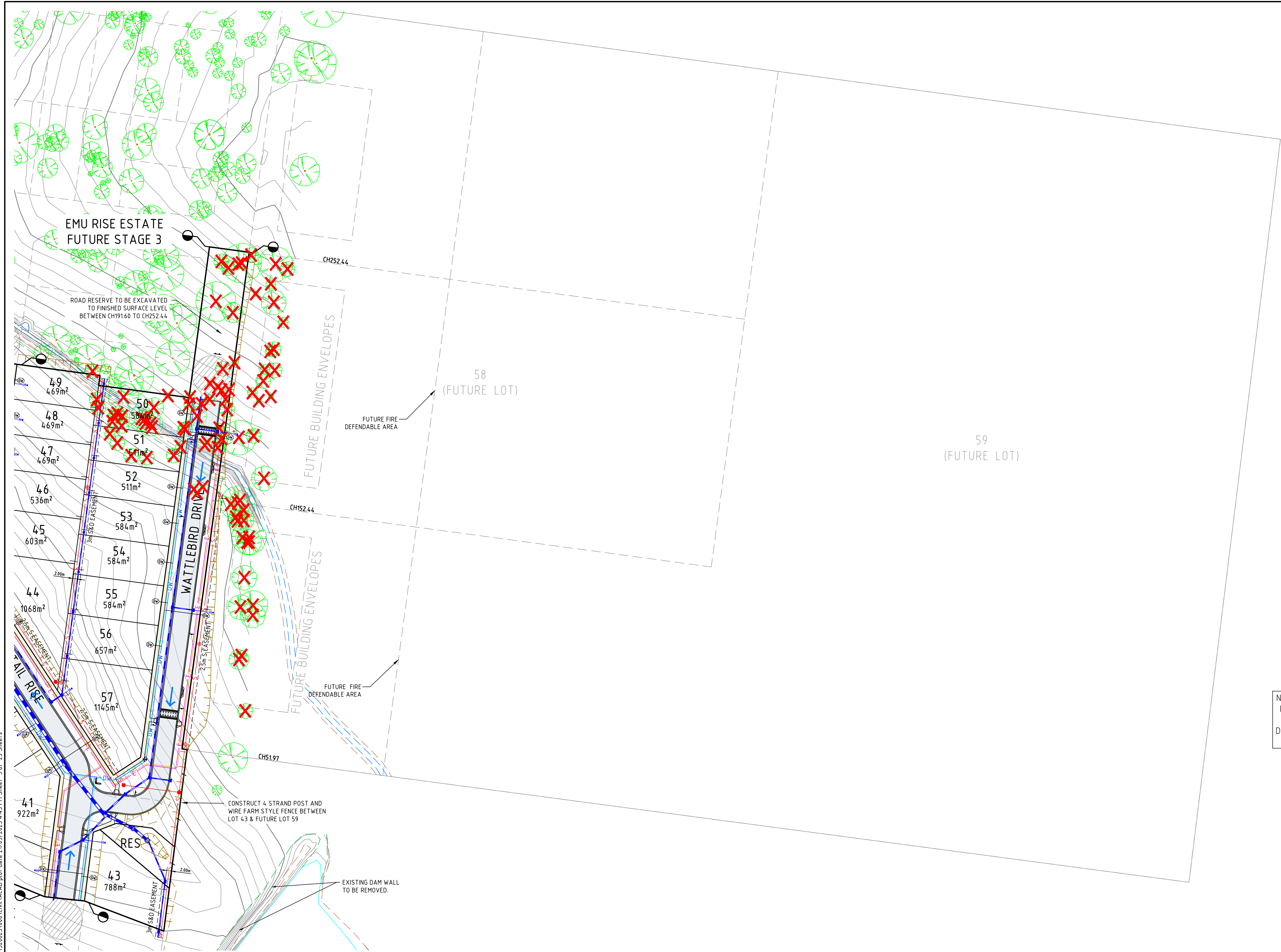
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C	ADDED DRAINAGE RESERVE & FENCING NOTES	M.R.	21/03/25
B	WATTLEBIRD DRIVE & DRAINAGE AMENDMENTS	M.R.	JAN 2025
A	PRELIMINARY ISSUE	M.R.	MAY 2024



Designed J.CAPACETE	Checked B.IBBS
Authorised M.RULE	Date MAR 2025

EMU RISE ESTATE - STAGE 2
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD AND DRAINAGE
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DATE: 28 March 2025

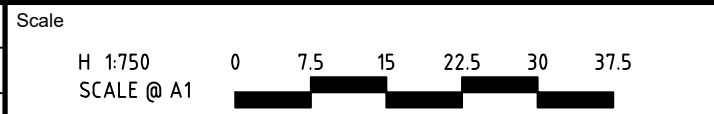
NOTE: THESE PLANS DO NOT SHOW THE LOCATION OF PROPOSED STREET TREES, STREET LIGHTS, POWER SUPPLY PILLARS OR PITS, OR TELECOM PITS. FOR DETAILS ON THE LOCATIONS OF THESE ITEMS PLEASE REFER TO THOSE SPECIFIC DRAWINGS



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C	ADDED DRAINAGE RESERVE & FENCING NOTES	M.R.	21/03/25	
B	WATTLEBIRD DRIVE & DRAINAGE AMENDMENTS	M.R.	JAN 2025	
A	PRELIMINARY ISSUE	M.R.	MAY 2024	
Rev	Amendments	Approved	Date	



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Designed
J.CAPACETE
Authorised
M.RULE

Checked
B.IBBS
Date
MAR 2025

EMU RISE ESTATE - STAGE 2
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD AND DRAINAGE
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PRELIMINARY Drg No 320623-000CR201 Rev **C**



EMU RISE ESTATE
EXISTING STAGE 1

EMU RISE ESTATE
FUTURE STAGE 3

EMU RISE ESTATE
FUTURE STAGE 4

58
(FUTURE LOT)

59
(FUTURE LOT)

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS

APPROVED BY: Peter Brasier

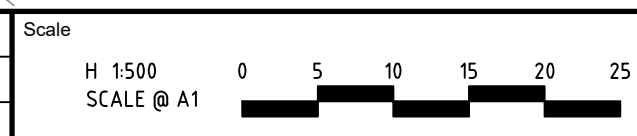
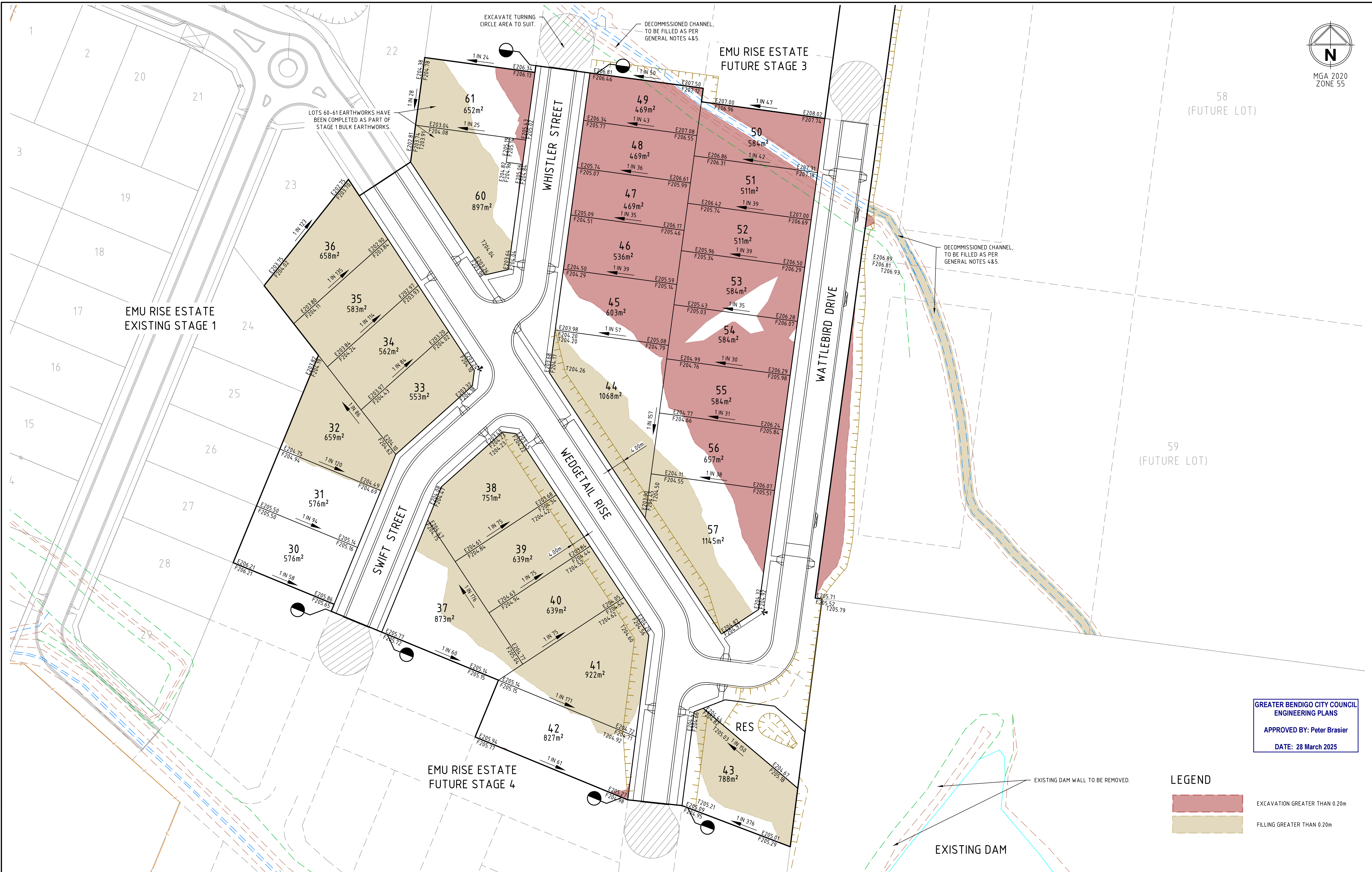
DATE: 28 March 2025

LEGEND

EXCAVATION GREATER THAN 0.20m
FILLING GREATER THAN 0.20m

EXISTING DAM

EXISTING DAM WALL TO BE REMOVED.



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EMU CREEK CONSTRUCTIONS PTY LTD

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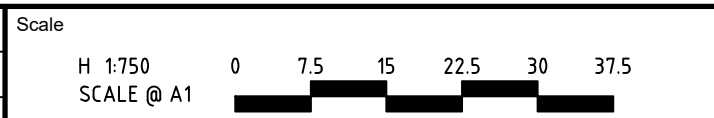


GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 28 March 2025

LEGEND
EXCAVATION GREATER THAN 0.20m
FILLING GREATER THAN 0.20m

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B	WATTLEBIRD DRIVE & DRAINAGE AMENDMENTS	M.R.	JAN 2025
A	PRELIMINARY ISSUE	M.R.	MAY 2024
Rev	Amendments	Approved	Date



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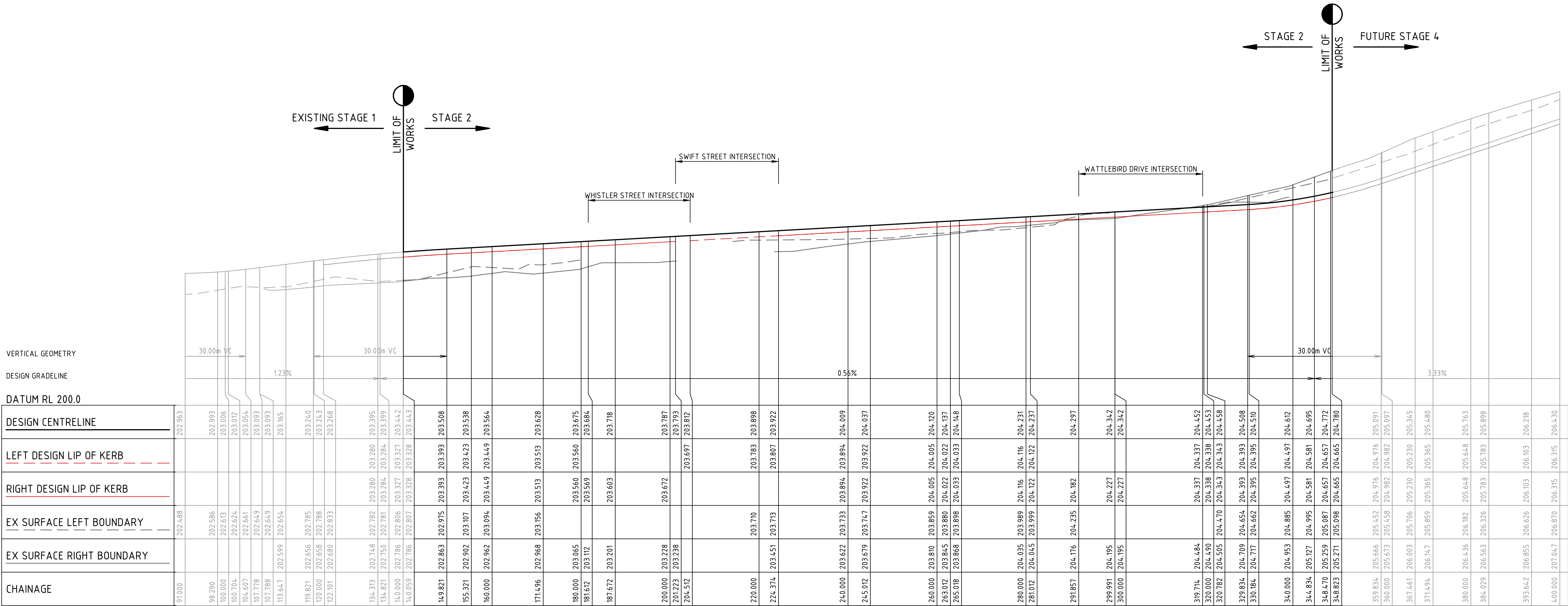
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Authorised M.RULE	Date MAR 2025

EMU RISE ESTATE - STAGE 2
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CITY OF GREATER BENDIGO
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY 320623-000CR203

Rev B

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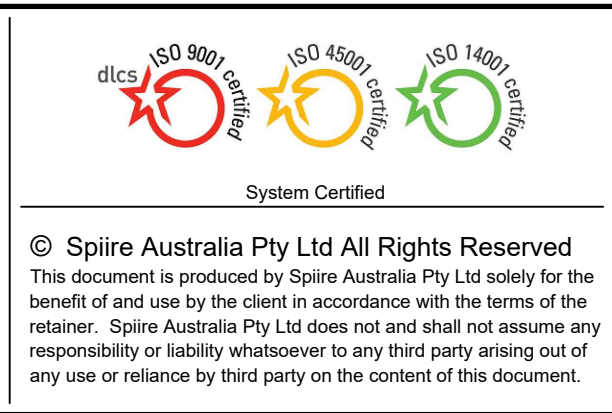
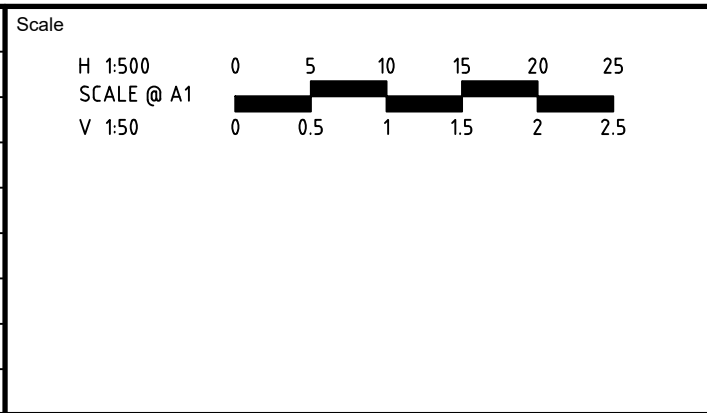
WEDGETAIL RISE

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS

APPROVED BY: Peter Brasier

DATE: 28 March 2025

Rev	A	PRELIMINARY ISSUE	M.R.	MAY 2024
Rev		Amendments	Approved	Date



Designed J.CAPACETE	Checked B.IBBS
Authorised M.RULE	Date MAY 2024

EMU RISE ESTATE - STAGE 2
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ROAD AND DRAINAGE
ROAD LONG SECTIONS - SHEET 1
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EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY

Drg No
320623-000CR300

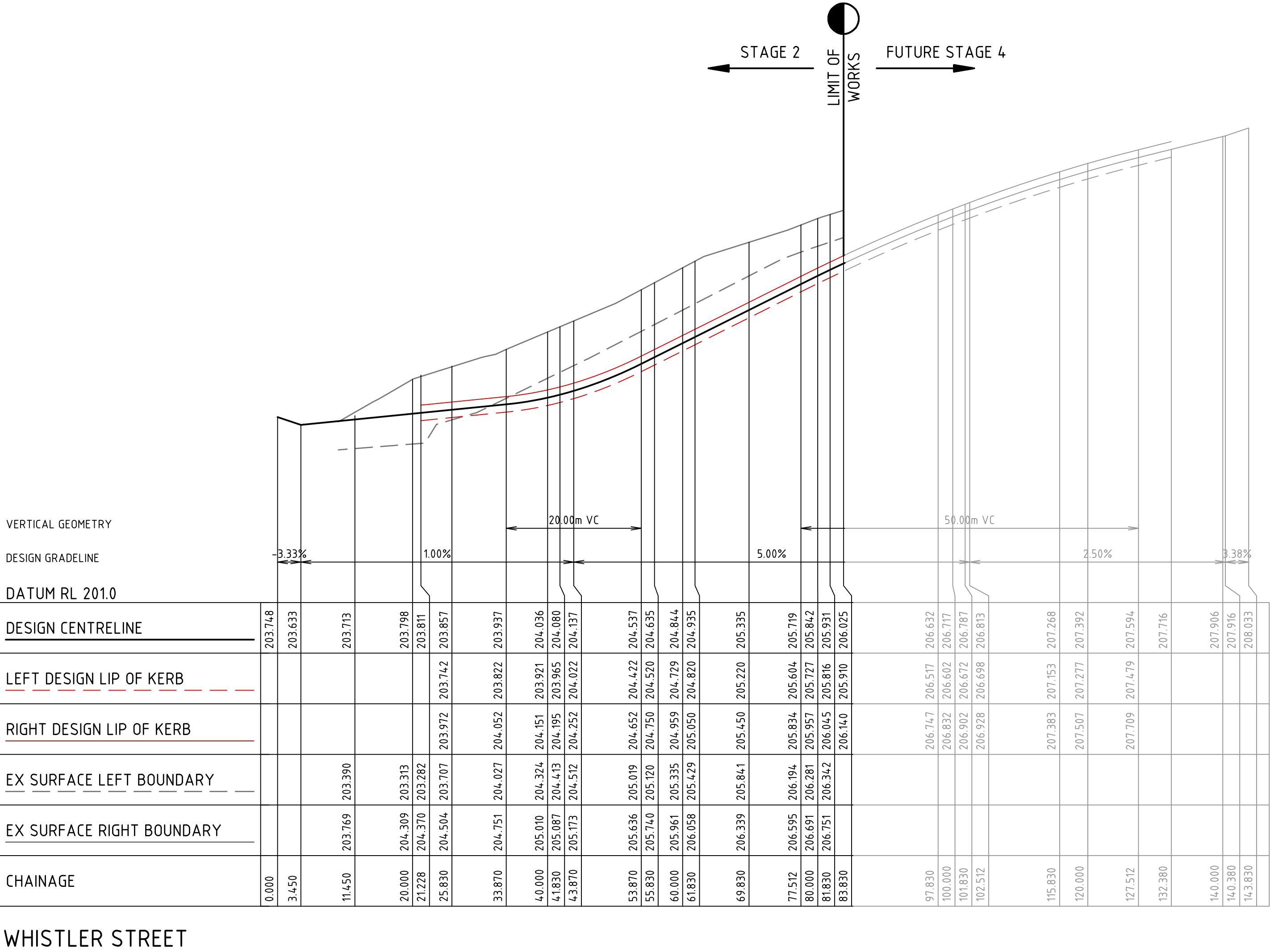
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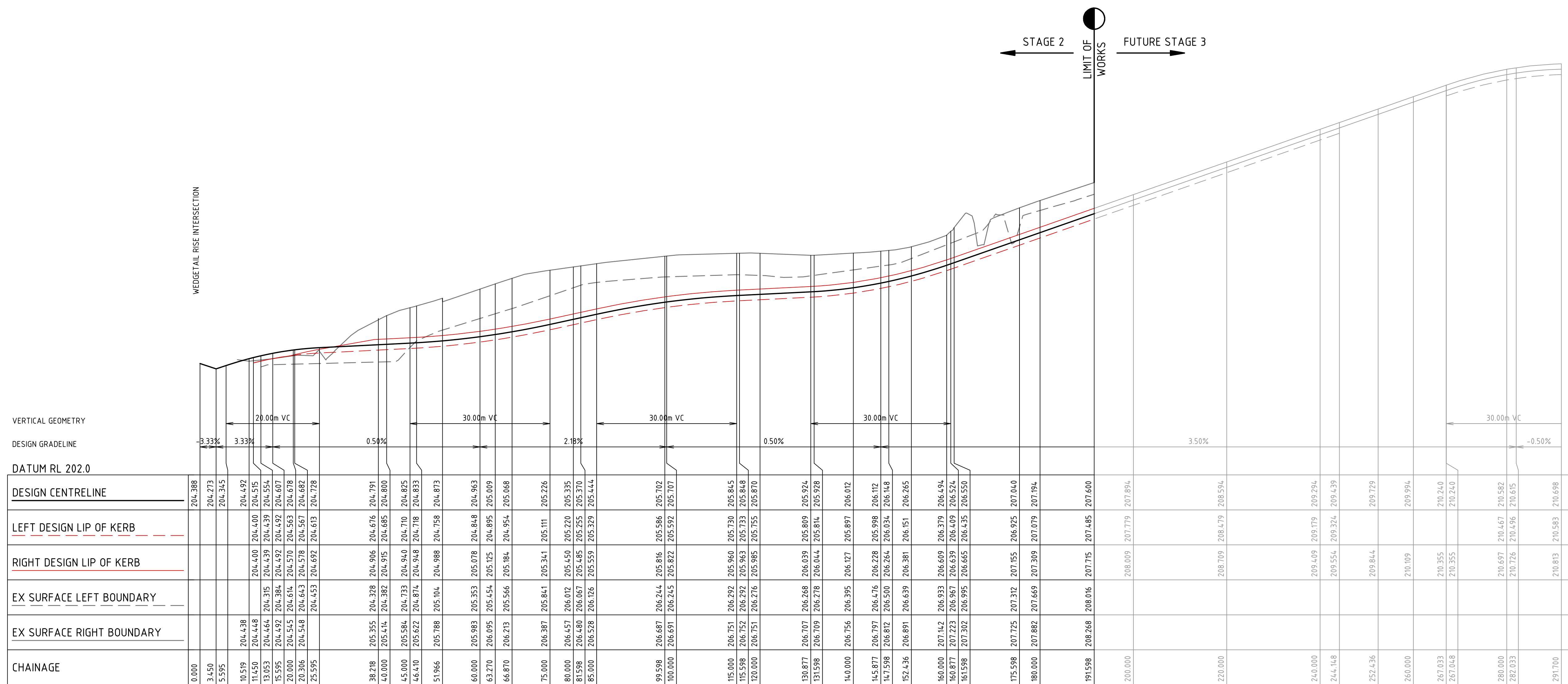
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GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS

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DATE: 28 March 2025





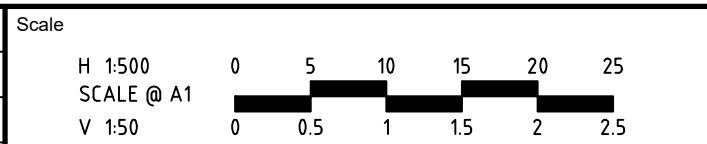
VERTICAL GEOMETRY

DATUM RL 202.0

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WATTLEBIRD DRIVE

B	WATTLEBIRD DRIVE & DRAINAGE AMENDMENTS	M.R.	JAN 2025
A	PRELIMINARY ISSUE	M.R.	MAY 2024
Rev	Amendments	Approved	Date



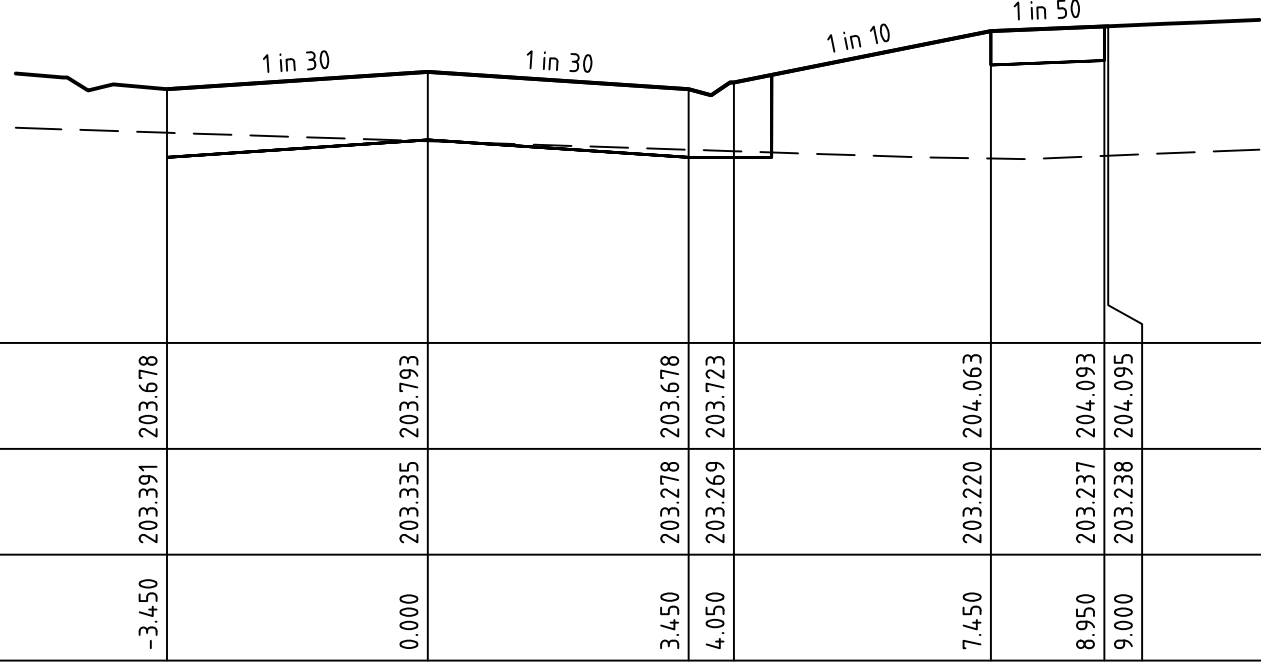
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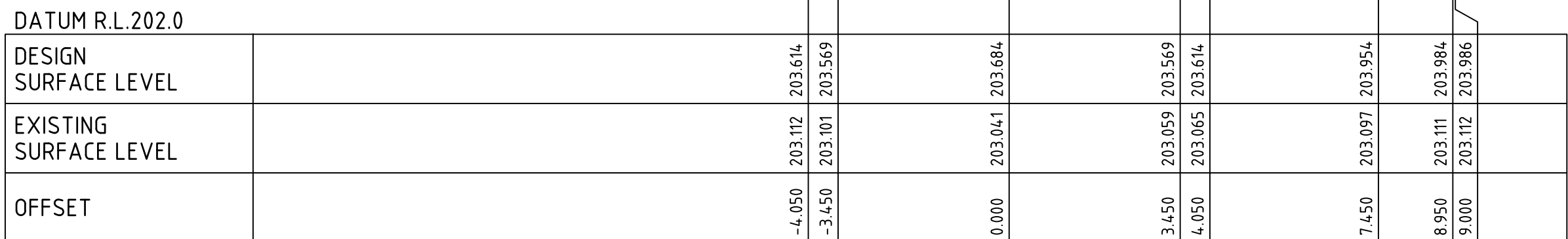
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Rev
E

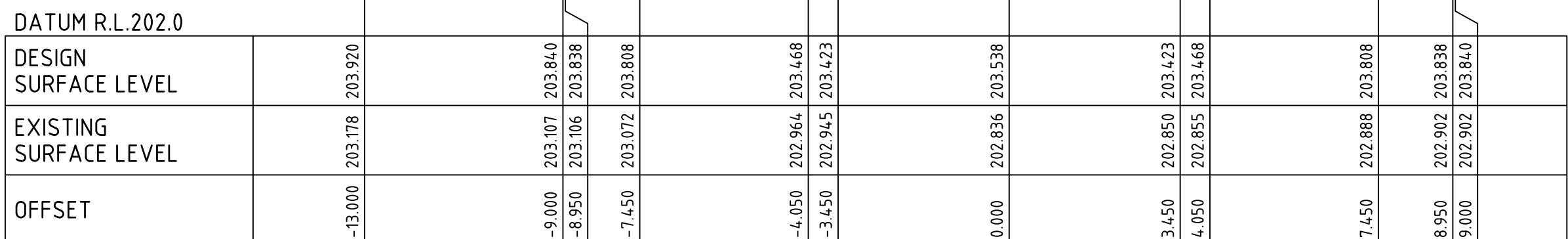
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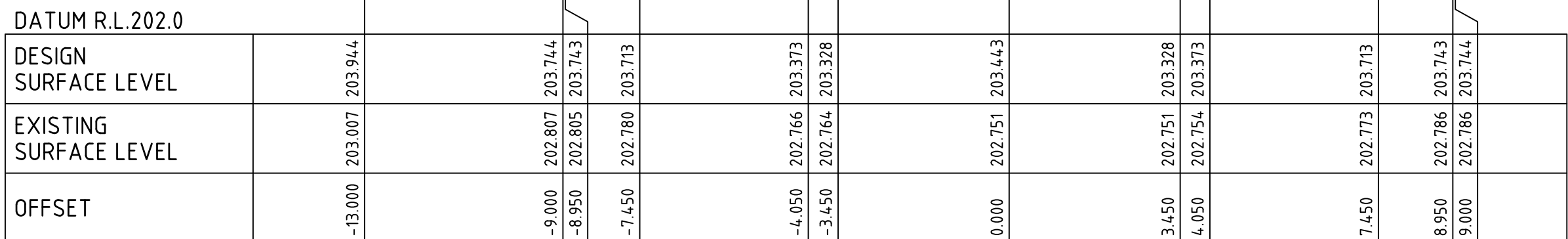
WEDGETAIL RISE



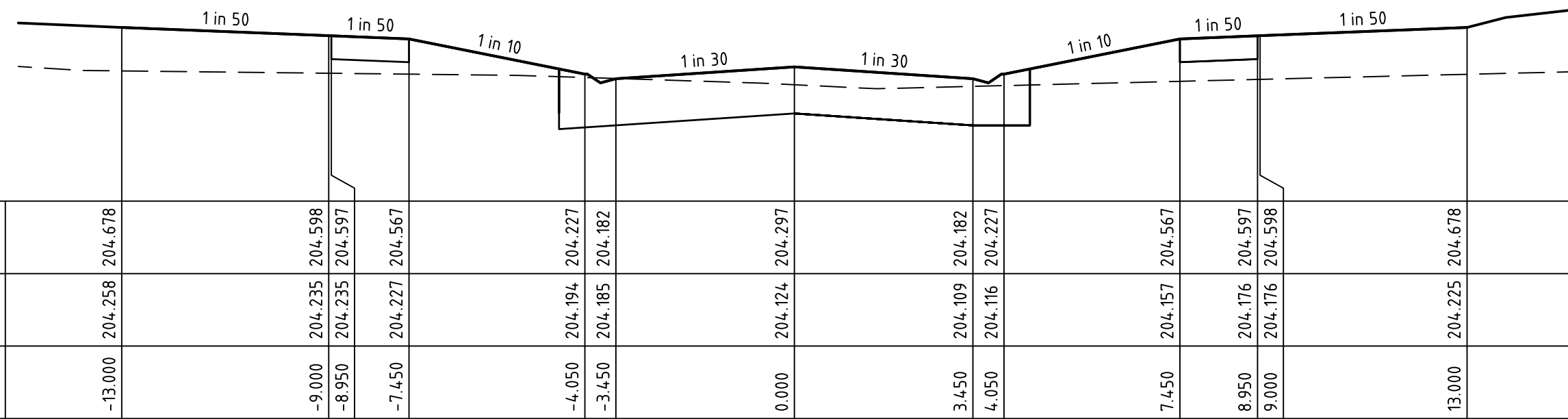
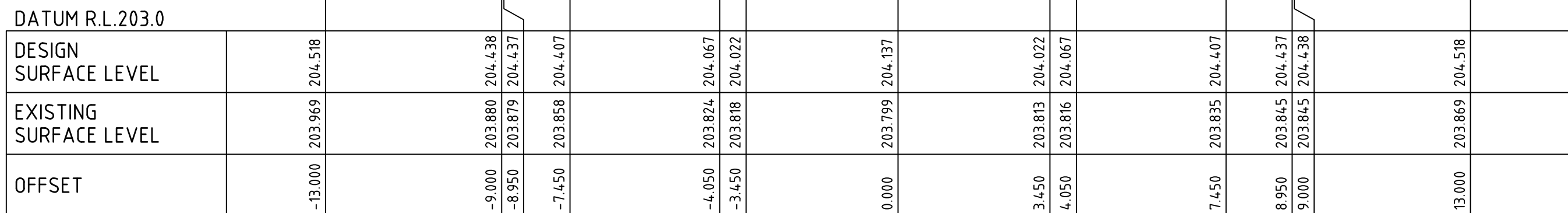
WEDGETAIL RISE



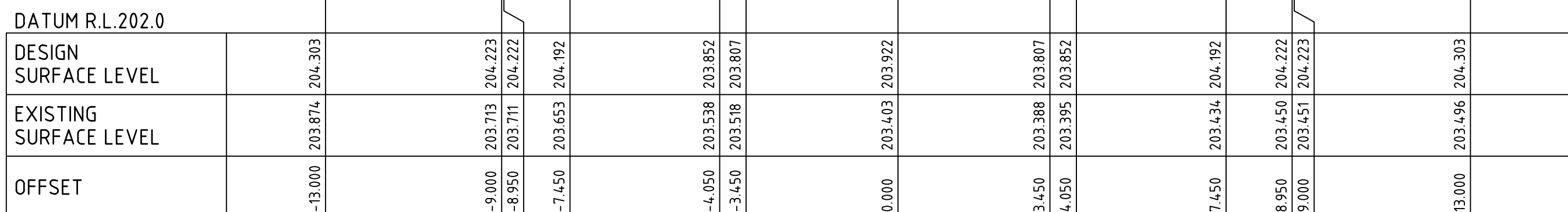
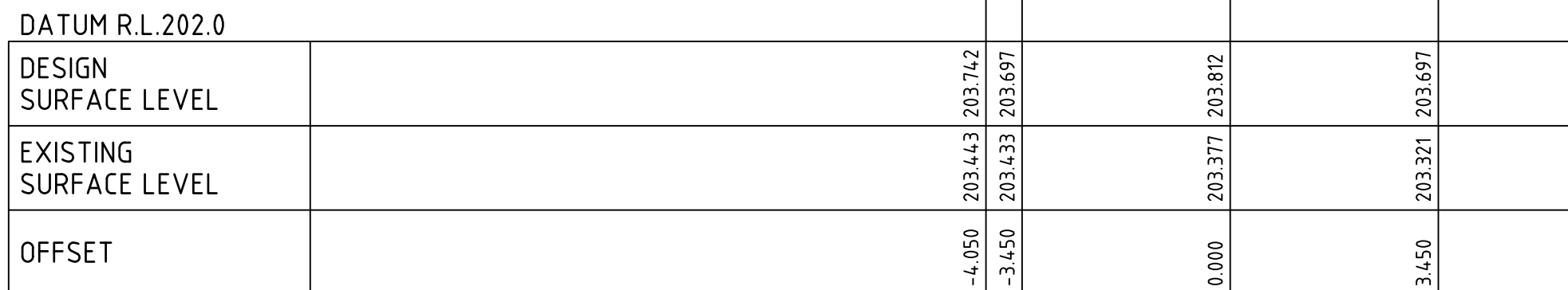
WEDGETAIL RISE



WEDGETAIL RISE

WEDGETAIL RISE

WEDGETAIL RISE

WEDGETAIL RISEWEDGETAIL RISE

EMU RISE ESTATE - STAGE 2
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 1
 CITY OF GREATER BENDIGO
 EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No Rev
320623-000CR400 A

Scale

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SCALE @ A1
V 150

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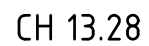
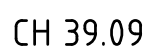
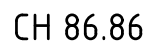
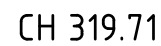
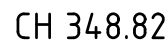
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16 BRIDGE STREET BENDIGO
VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
spiire.com.au ARN 55 050 029 635

Designed	Checked
J.CAPACETE	B.IBBS
Authorised	Date
M.RULE	MAY 2024

ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.

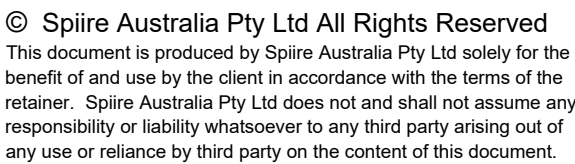
DATE: 28 March 2025



Scale

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SCALE @ A1
V 150

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

Date
MAY 2024

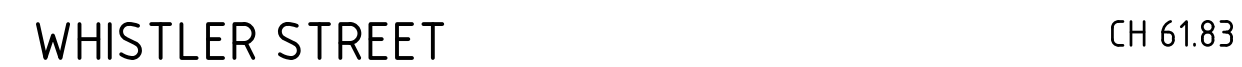
PRELIMINARY Urg No **320623-000CR401**

Rev
A

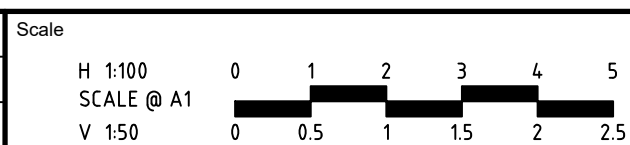
ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.

APPROVED BY: Peter Brasier

DATE: 28 March 2025



A	PRELIMINARY ISSUE	M.R.	MAY 2024
Rev	Amendments	Approved	Date



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Designed
J.CAPACETE

Authorised
M.RULE

Checked
B.IBBS

Date
MAY 2024

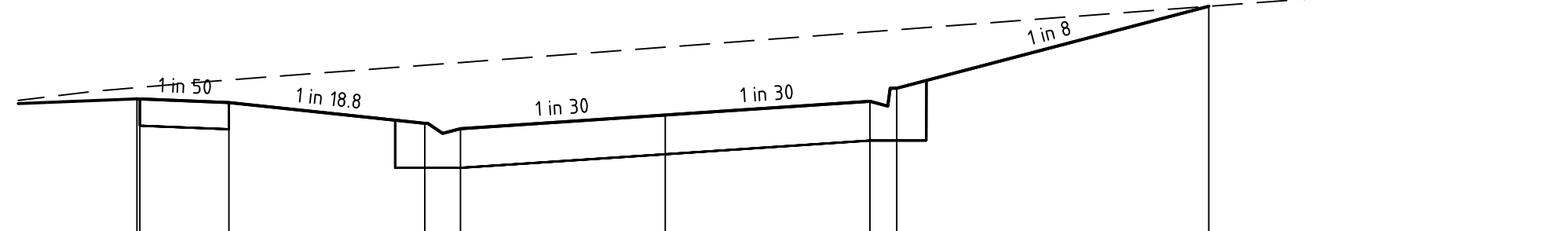
EMU RISE ESTATE - STAGE 2
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 3
 CITY OF GREATER BENDIGO
 EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No 320623-000CR402

A

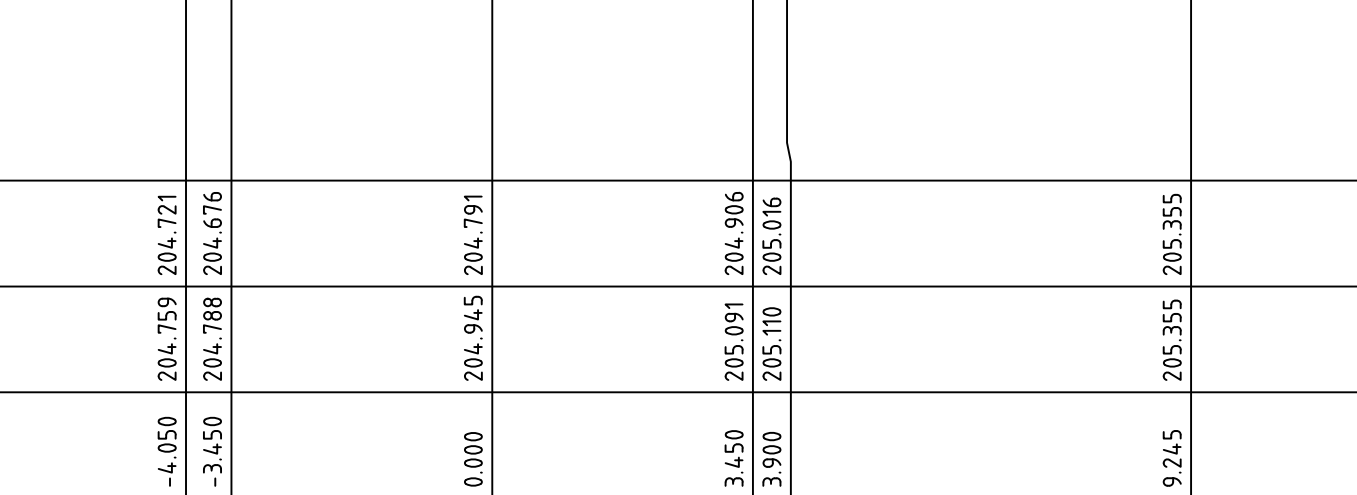
ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.

APPROVED BY: Peter Brasier

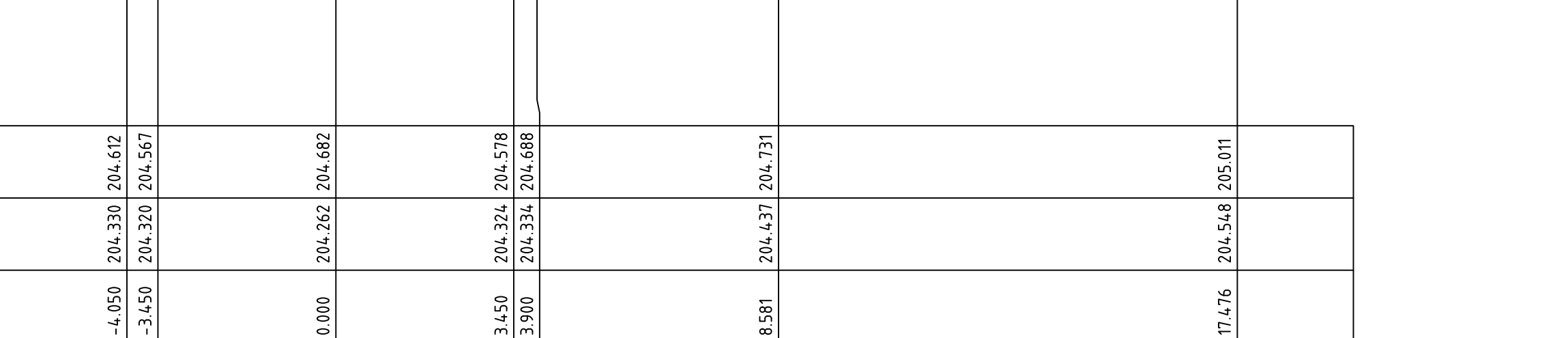


WATTLEBIRD DRIVE

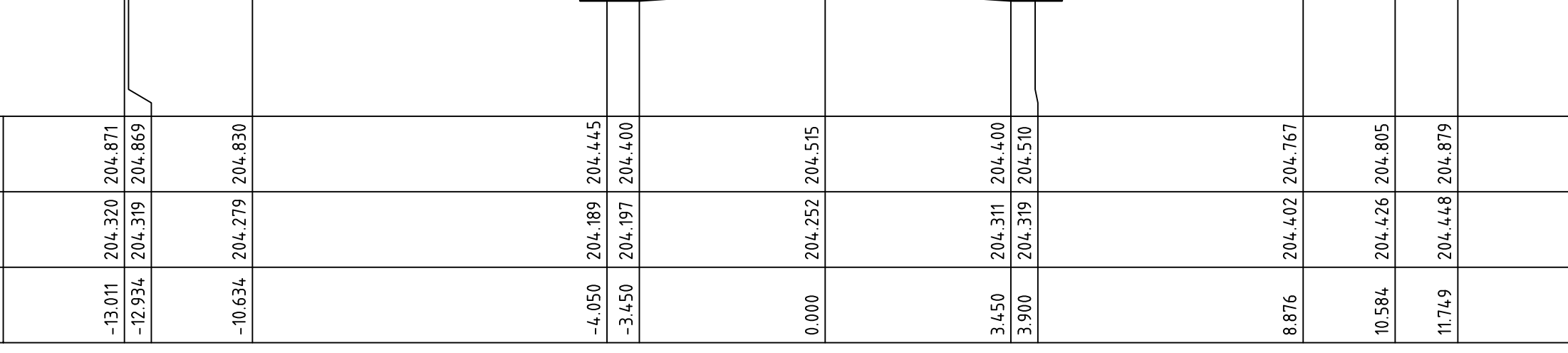
CH 51.97



WATTLEBIRD DRIVE CH 38.22

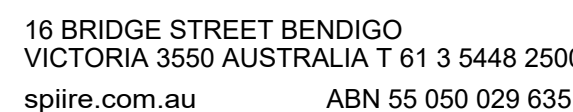
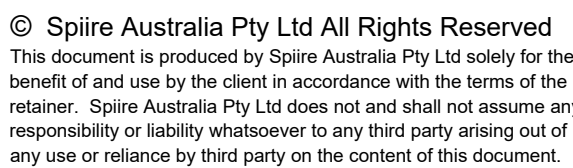


WATTLEBIRD DRIVE CH 20.31



WATTLEBIRD DRIVE CH 11.45

B	WATTLEBIRD DRIVE & DRAINAGE AMENDMENTS	M.R.	JAN 2025
A	PRELIMINARY ISSUE	M.R.	MAY 2024
Rev	Amendments	Approved	Date



Designed	Checked
J.CAPACETE	B.IBBS
Authorised	Date
M.RULE	MAR 2025

PRELIMINARY Drg No **320623-000CR403** Rev **B**

ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.

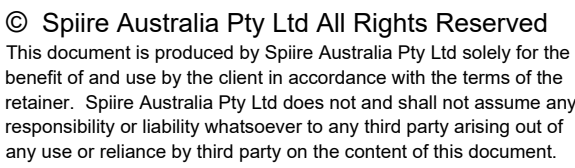
DATE: 28 March 2025



Scale

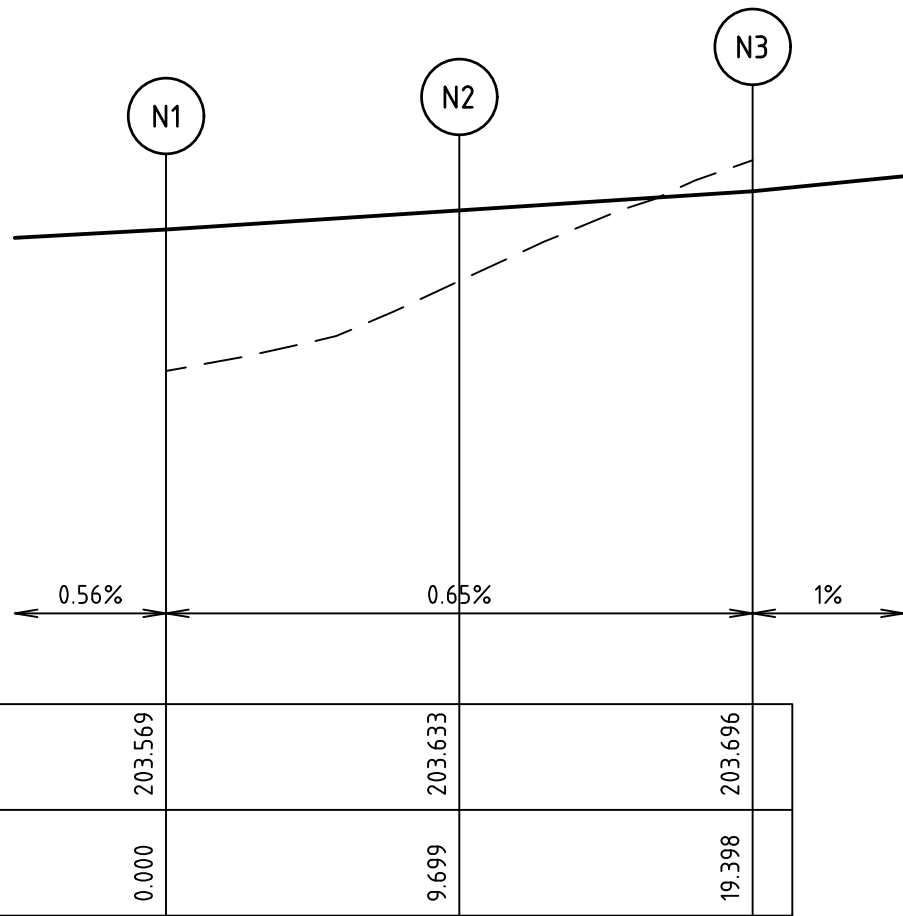
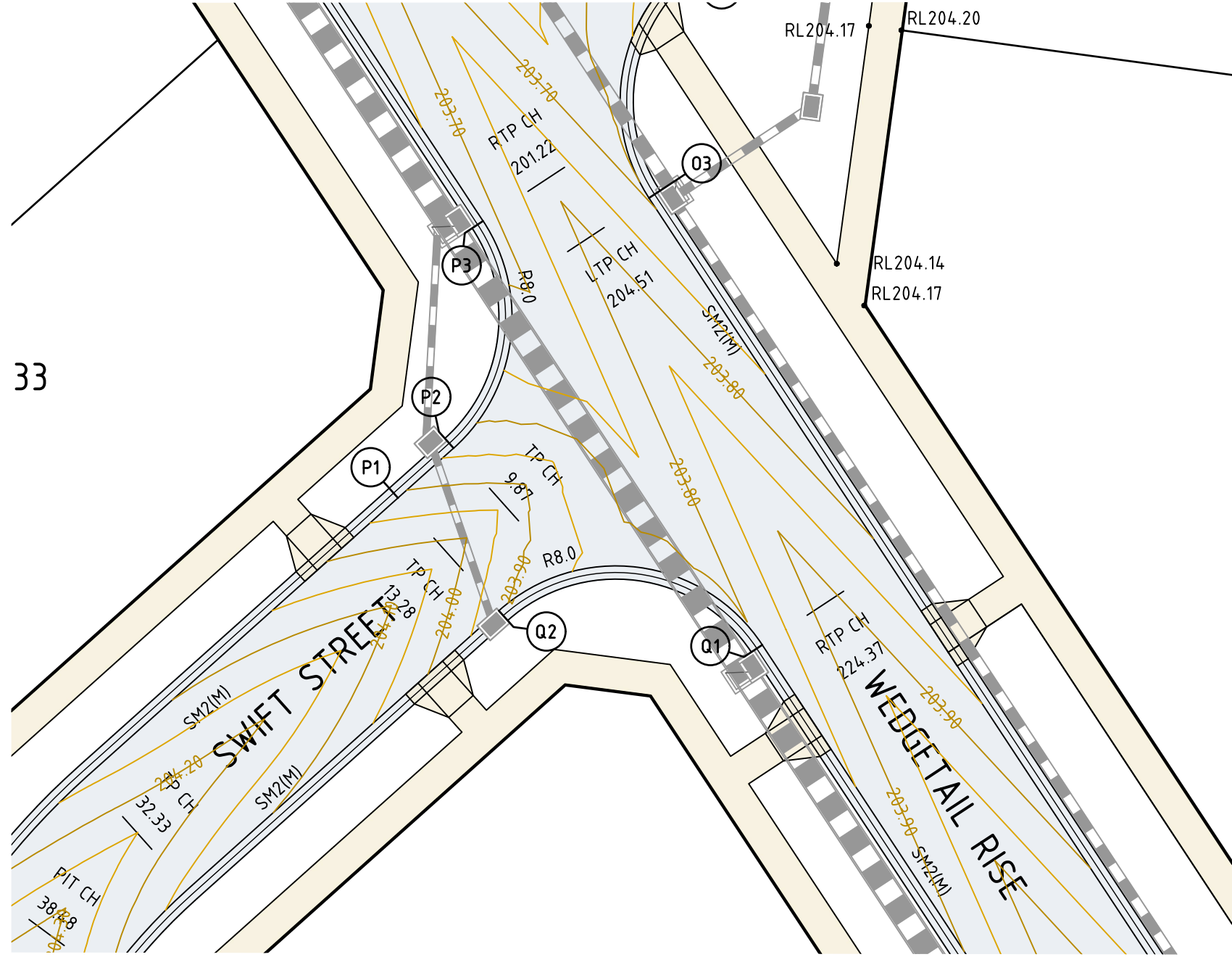
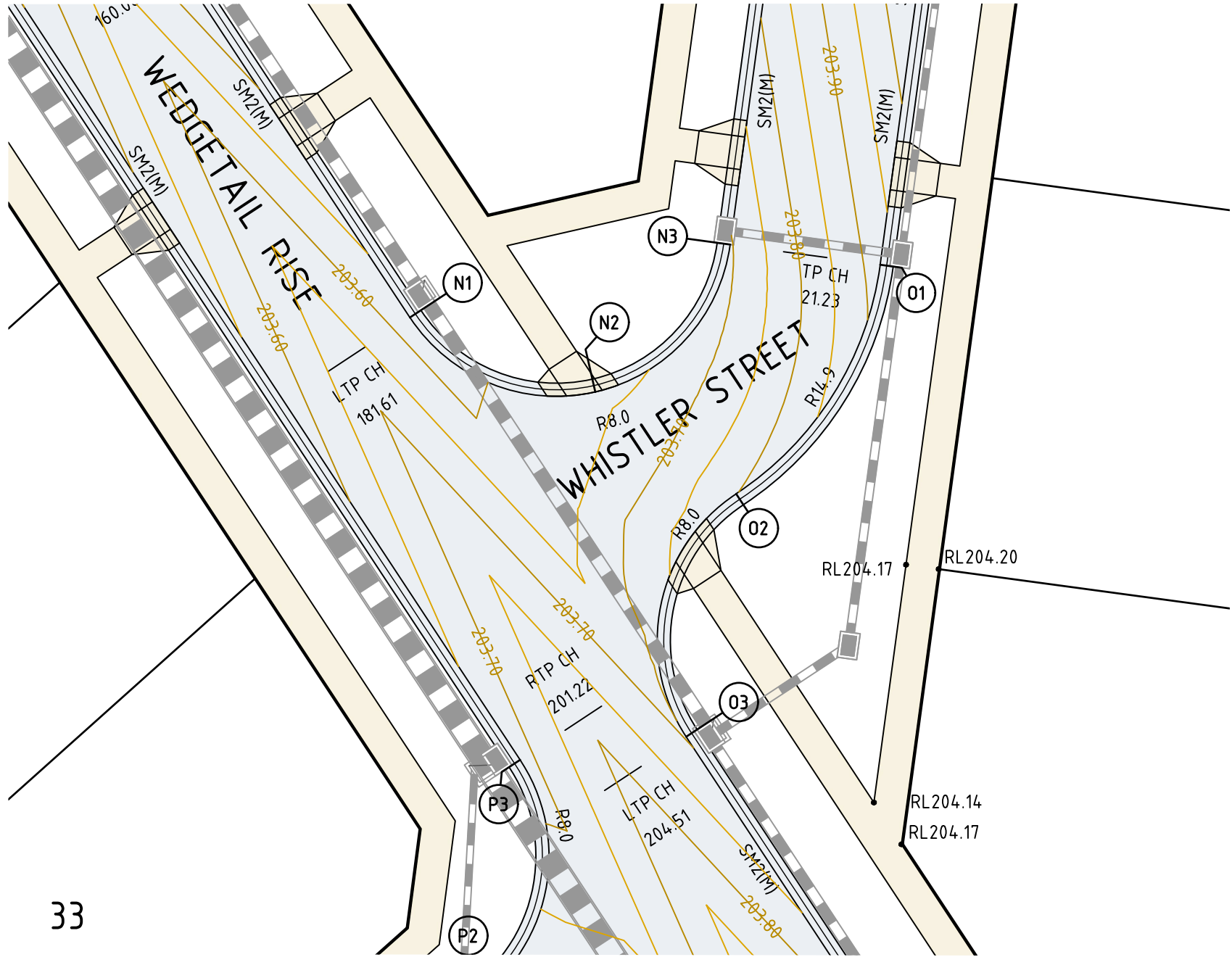
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SCALE @ A1
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PRELIMINARY Drg No Rev
320623-000CR404 **B**

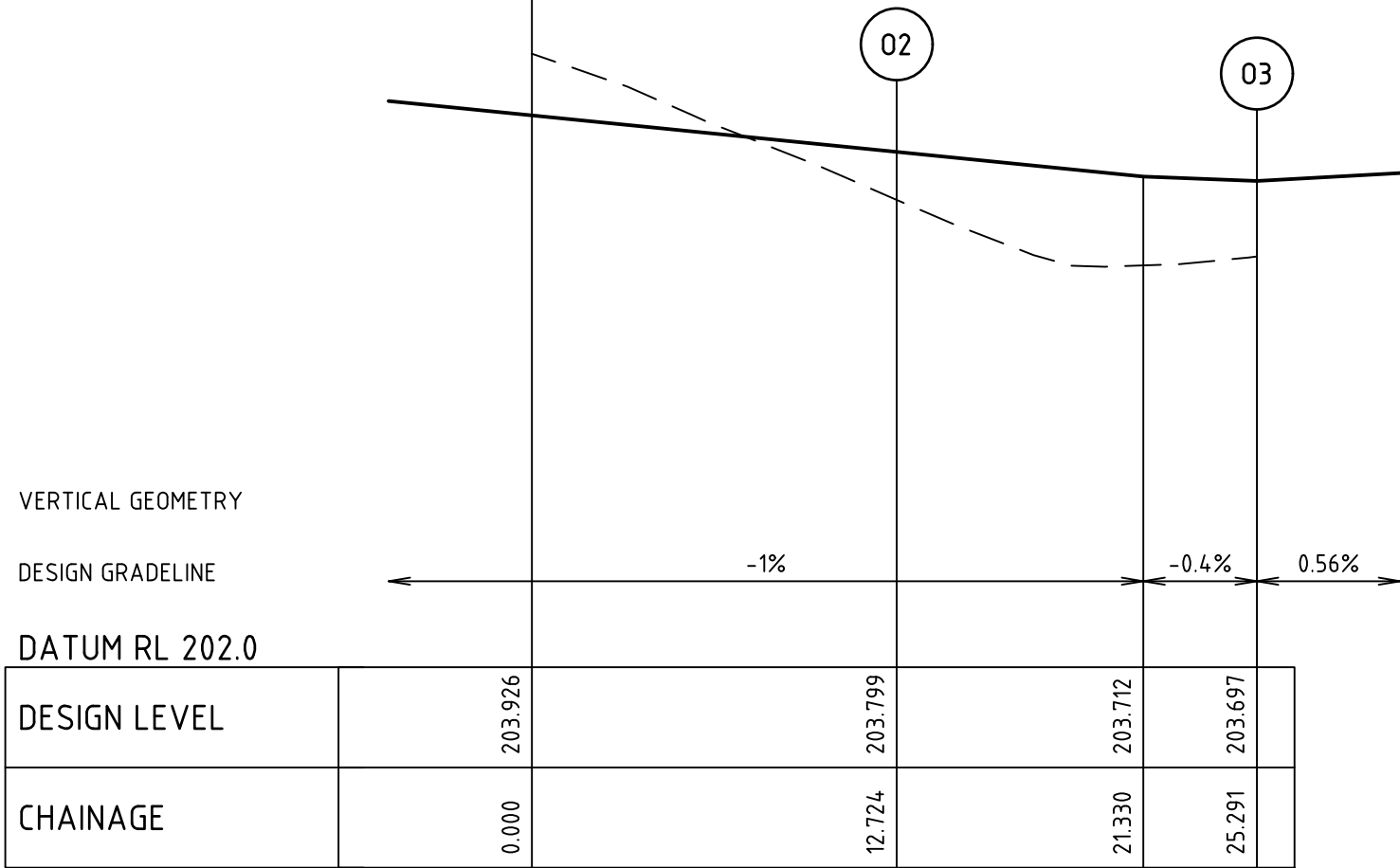


ALIGNMENT N

ALIGNMENT N

POINT NO	EASTING	NORTHING	RL	CHAINAGE
N1	264646.944	5922696.902	203.569	0.000
1/4	264648.562	5922695.109	203.583	2.425
1/2	264650.642	5922693.880	203.596	4.850
3/4	264652.993	5922693.328	203.609	7.274
N2	264655.402	5922693.503	203.622	9.699
1/4	264657.649	5922694.390	203.636	12.124
1/2	264659.530	5922695.906	203.653	14.549
3/4	264660.871	5922697.915	203.673	16.973
N3	264661.552	5922700.232	203.696	19.398

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
N1-N2	8.000	9.699	9.116	1.425	0.365
N2-N3	8.000	9.699	9.116	1.425	0.365

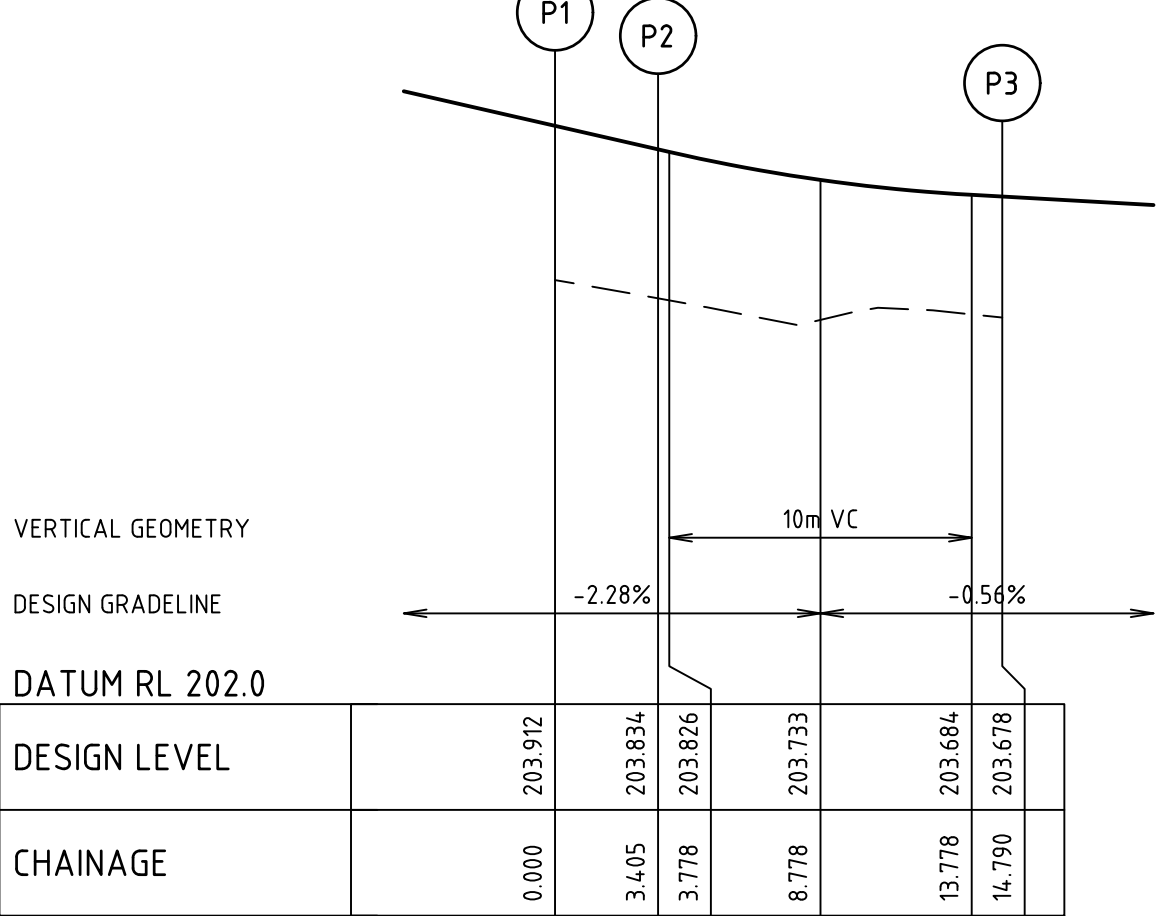


ALIGNMENT O

ALIGNMENT O

POINT NO	EASTING	NORTHING	RL	CHAINAGE
O1	264668.390	5922699.308	203.926	0.000
1/4	264667.632	5922696.225	203.894	3.181
1/2	264666.238	5922693.372	203.862	6.362
3/4	264664.272	5922690.880	203.830	9.543
O2	264661.821	5922688.861	203.799	12.724
1/4	264659.600	5922686.668	203.767	15.866
1/2	264658.387	5922683.792	203.736	19.007
3/4	264658.366	5922680.671	203.709	22.149
O3	264659.542	5922677.779	203.697	25.291

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
O1-O2	14.900	12.724	12.341	1.338	0.338
O2-O3	8.000	12.566	11.314	2.343	0.609

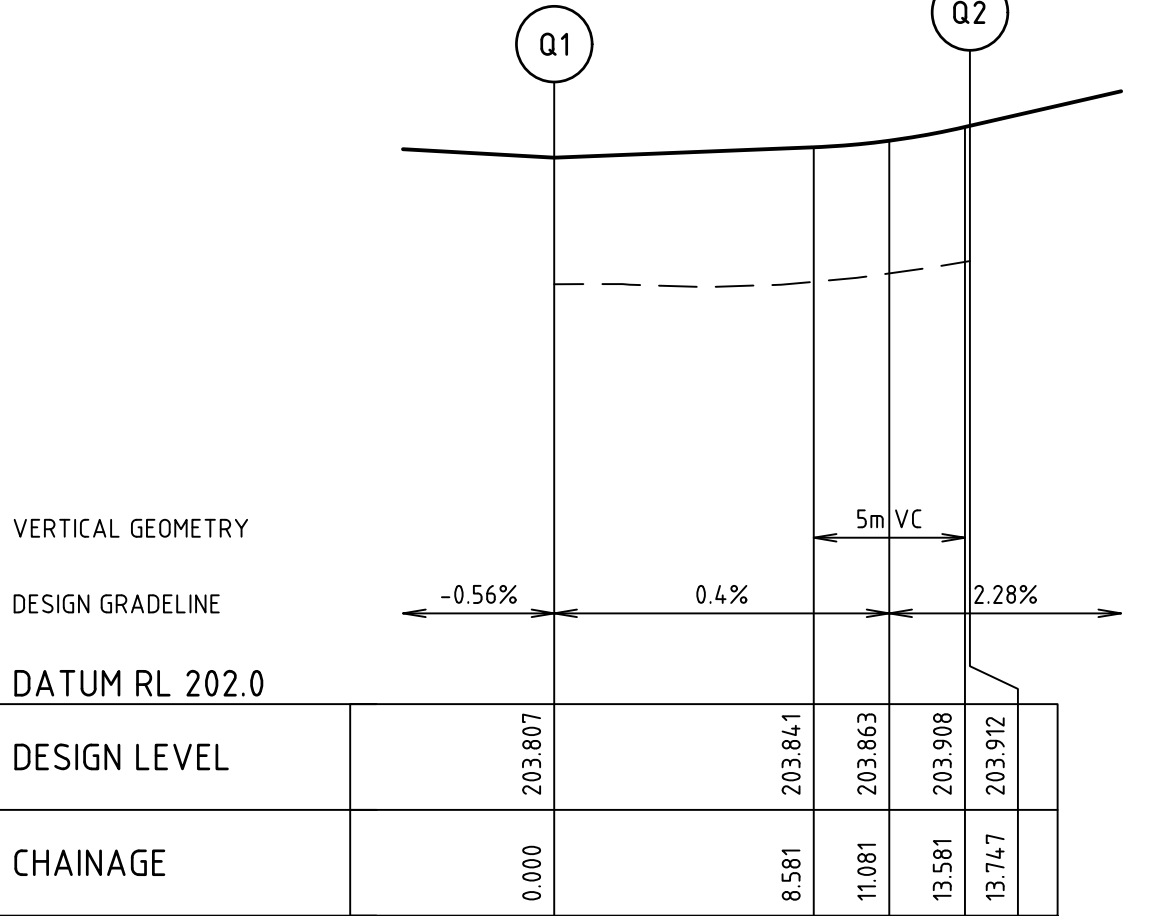


ALIGNMENT P

ALIGNMENT P

POINT NO	EASTING	NORTHING	RL	CHAINAGE
P1	264648.088	5922664.097	203.912	0.000
P2	264650.625	5922666.368	203.834	3.405
1/4	264652.368	5922668.600	203.775	6.251
1/2	264653.223	5922671.299	203.729	9.098
3/4	264653.085	5922674.127	203.697	11.944
P3	264651.970	5922676.730	203.678	14.790

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
P2-P3	8.000	11.386	10.449	1.941	0.501

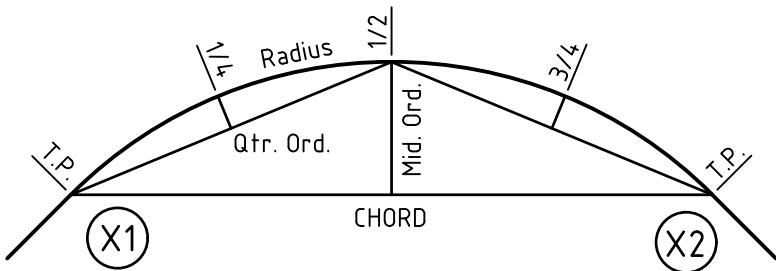


ALIGNMENT Q

ALIGNMENT Q

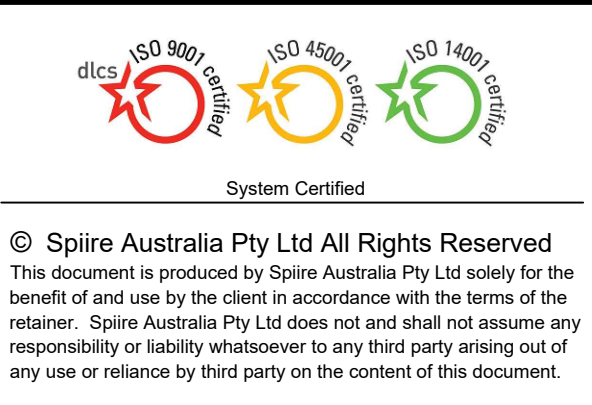
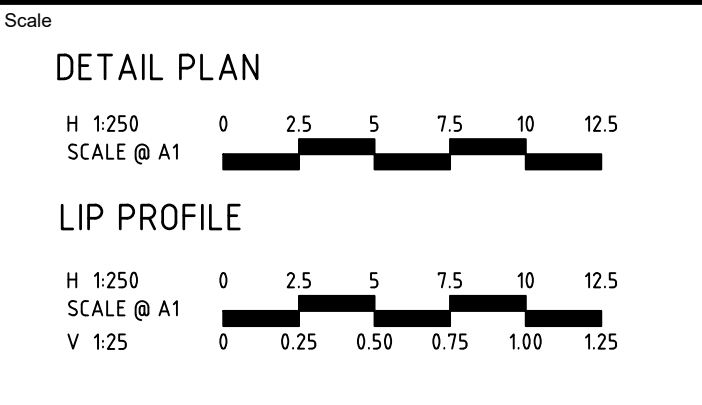
POINT NO	EASTING	NORTHING	RL	CHAINAGE
Q1	264664.707	5922657.396	203.807	0.000
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1/2	264659.056	5922660.929	203.834	6.874
3/4	264655.658	5922660.637	203.854	10.310
Q2	264652.690	5922658.956	203.912	13.747

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
Q1-Q2	8.000	13.747	12.117	2.776	0.727



KERB RETURN SETOUT DETAIL

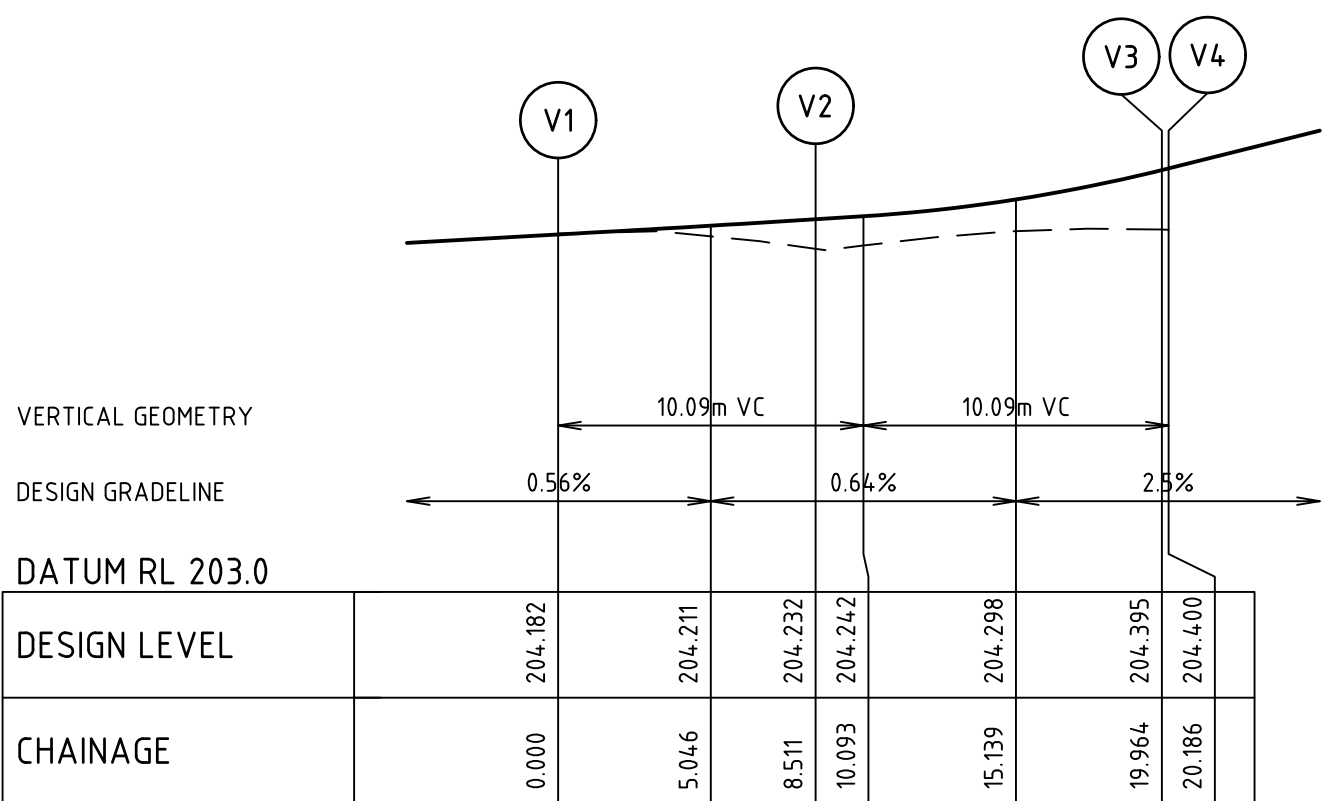
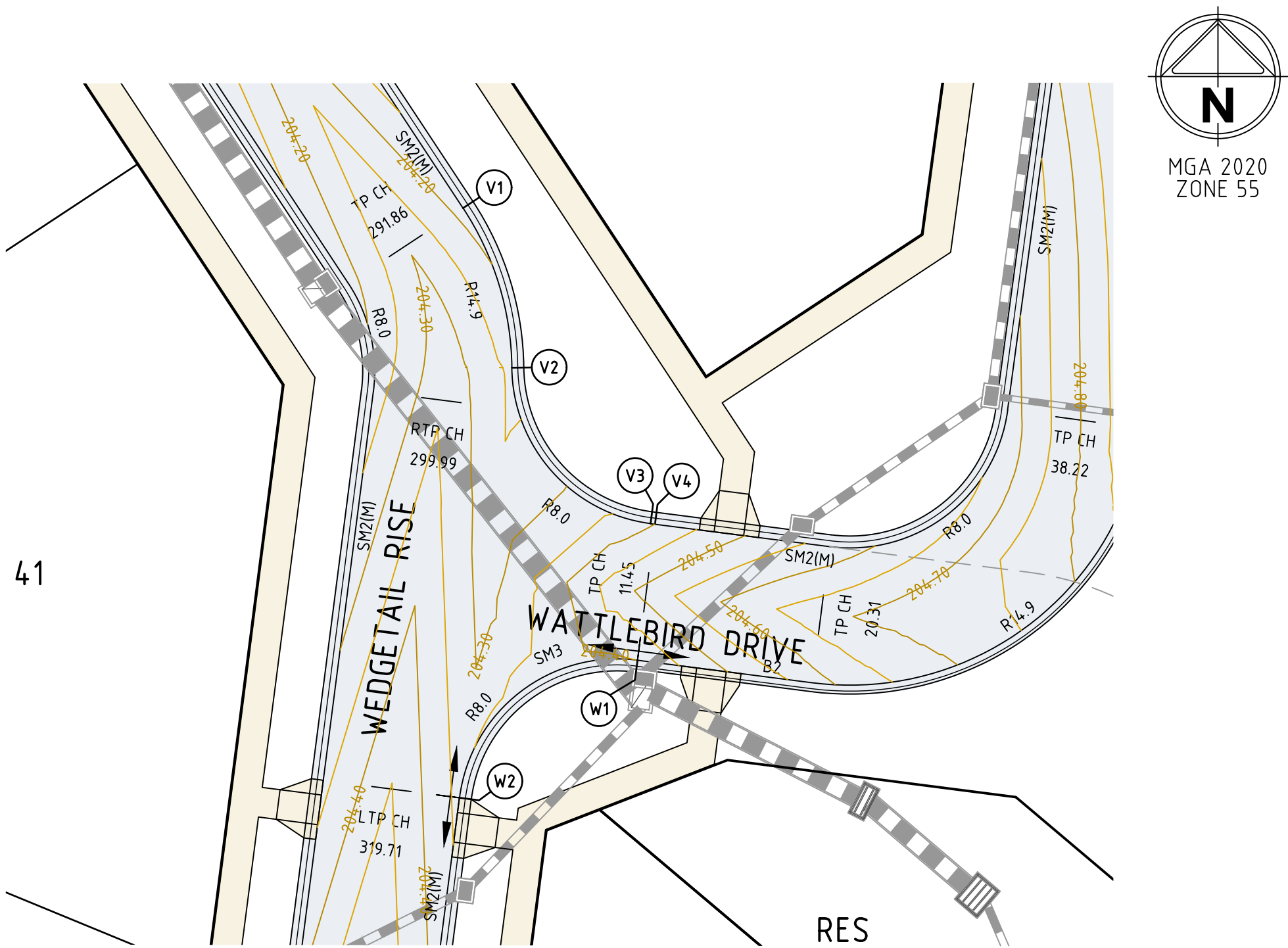
Rev	Description	By	Date
A	PRELIMINARY ISSUE	M.R.	MAY 2024
Rev	Amendments	Approved	Date



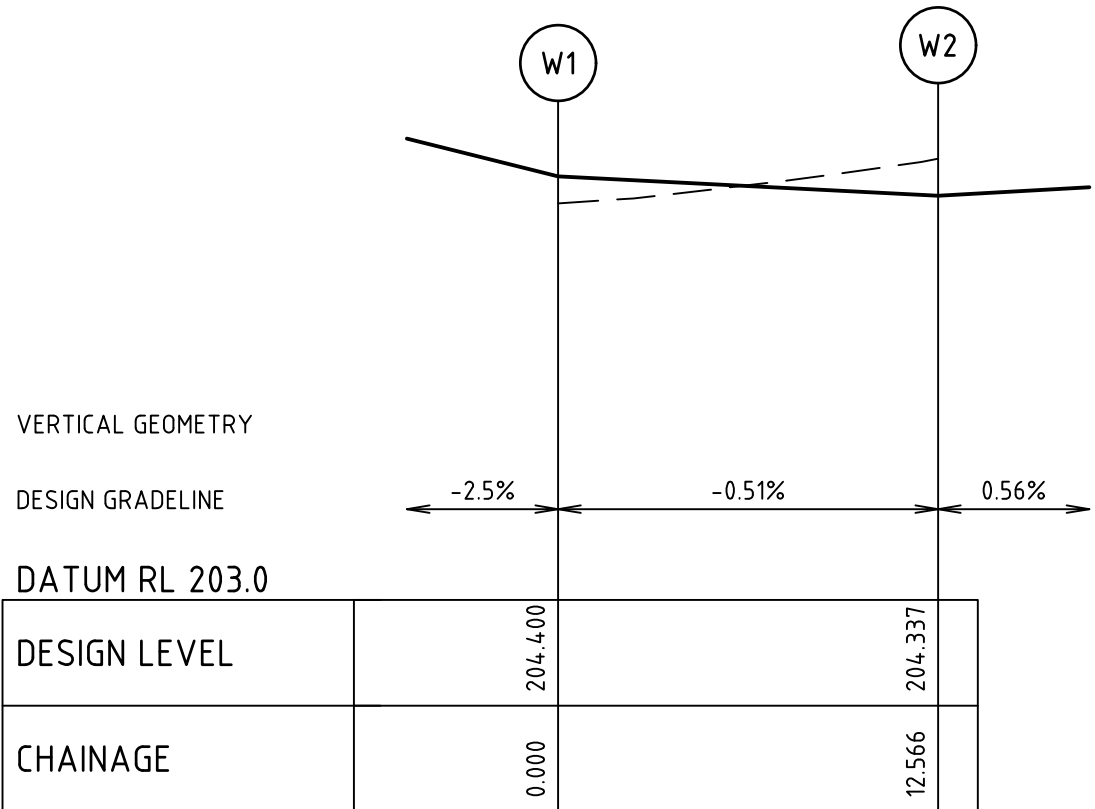
Designed J.CAPACETE	Checked B.IBBS
Authorised M.RULE	Date MAY 2024

EMU RISE ESTATE - STAGE 2
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 1
CITY OF GREATER BENDIGO
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No **320623-000CR500** Rev **A**



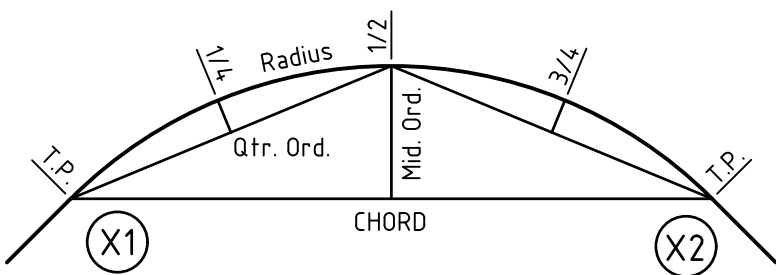
ALIGNMENT V



ALIGNMENT W

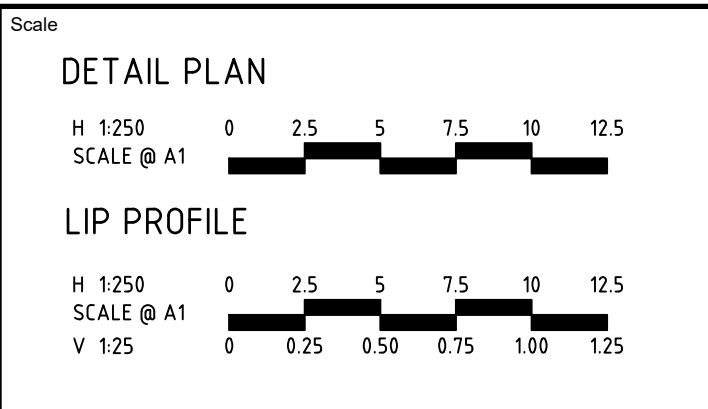
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V1	264 707.593	5922604.839	204.182	0.000	
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1/2	264 709.399	5922601.002	204.206	4.256	
3/4	264 709.874	5922598.930	204.219	6.383	
V2	264 710.050	5922596.811	204.232	8.511	
1/4	264 710.588	5922594.014	204.252	11.374	
1/2	264 712.072	5922591.584	204.284	14.238	
3/4	264 714.314	5922589.827	204.332	17.101	
V3	264 717.029	5922588.967	204.395	19.964	
V4	264 717.248	5922588.938	204.400	20.186	
CURVE					
V1-V2	14.900	8.511	8.396	0.604	0.452
V2-V3	8.000	11.453	10.500	1.963	1.457

ALIGNMENT W					
POINT NO	EASTING	NORTHING	RL	CHAINAGE	
W1	264 716.368	5922582.095	204.400	0.000	
1/4	264 713.254	5922581.881	204.384	3.142	
1/2	264 710.459	5922580.492	204.369	6.283	
3/4	264 708.408	5922578.139	204.353	9.425	
W2	264 707.413	5922575.180	204.337	12.566	
CURVE					
W1-W2	RADIUS 8.000	ARC L 12.566	CHORD 11.314	MID ORD 2.343	QTR ORD 1.734



KERB RETURN SETOUT DETAIL

Rev	Amendments	Approved	Date
B	WATTLEBIRD DRIVE & DRAINAGE AMENDMENTS	M.R.	JAN 2025
A	PRELIMINARY ISSUE	M.R.	MAY 2024



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

Designed J.CAPACETE	Checked B.IBBS
Authorised M.RULE	Date MAR 2025

EMU RISE ESTATE - STAGE 2
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 2
CITY OF GREATER BENDIGO
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No 320623-000CR501 Rev B



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RL: 210.205

SPIKE
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RL: 210.061

STEEL PICKET
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SPIKE
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RL: 210.896

SPIKE
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N: 5922408.532
RL: 208.644

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 28 March 2025



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Designed
J.CAPACETE
Authorised
M.RULE

Checked
B.IBBS
Date
MAR 2025

EMU RISE ESTATE - STAGE 2
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 3 (TBM's)
CITY OF GREATER BENDIGO
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No 320623-000CR502

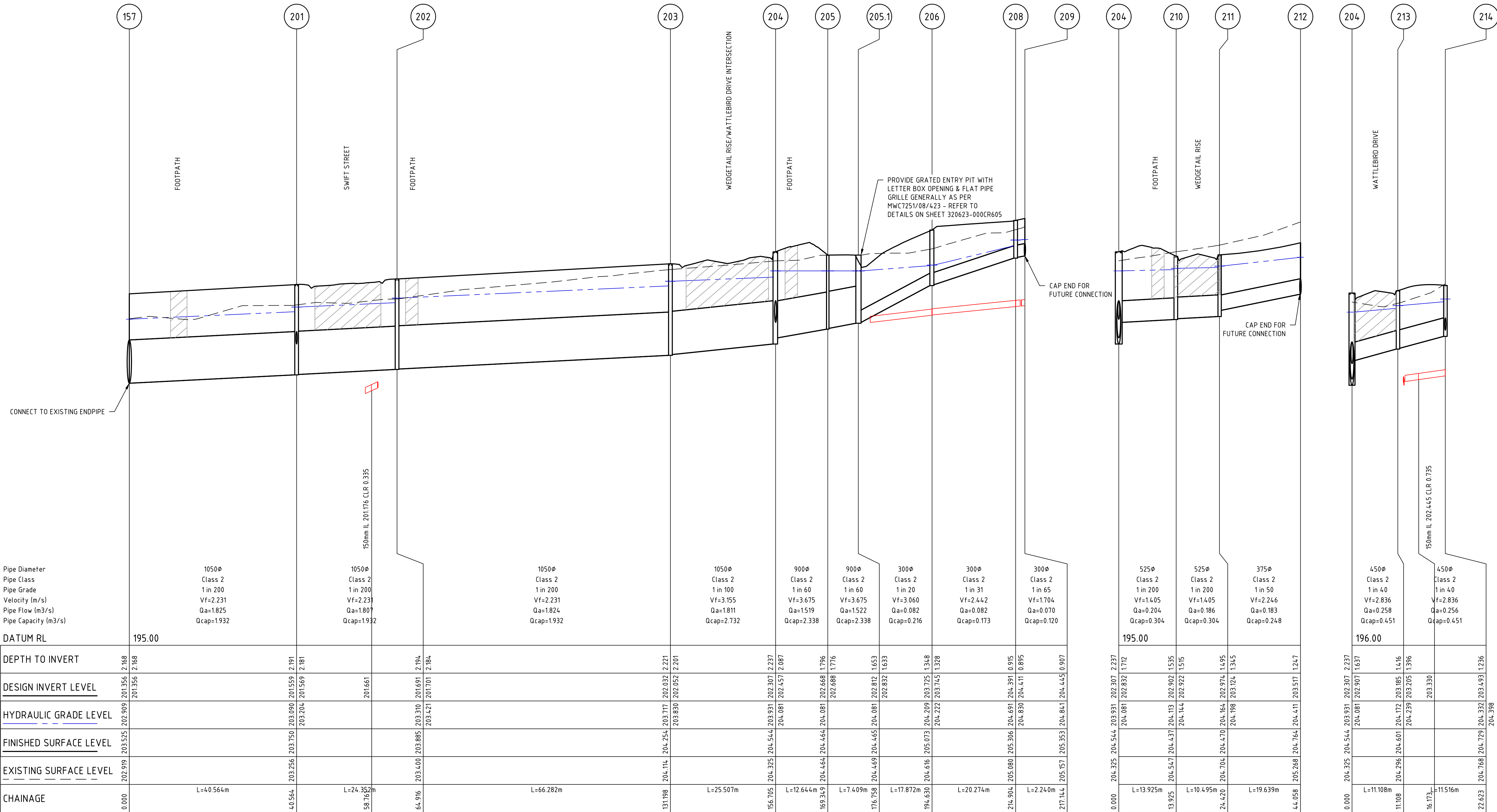
Rev B

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 CRUSHED ROCK BACKFILL

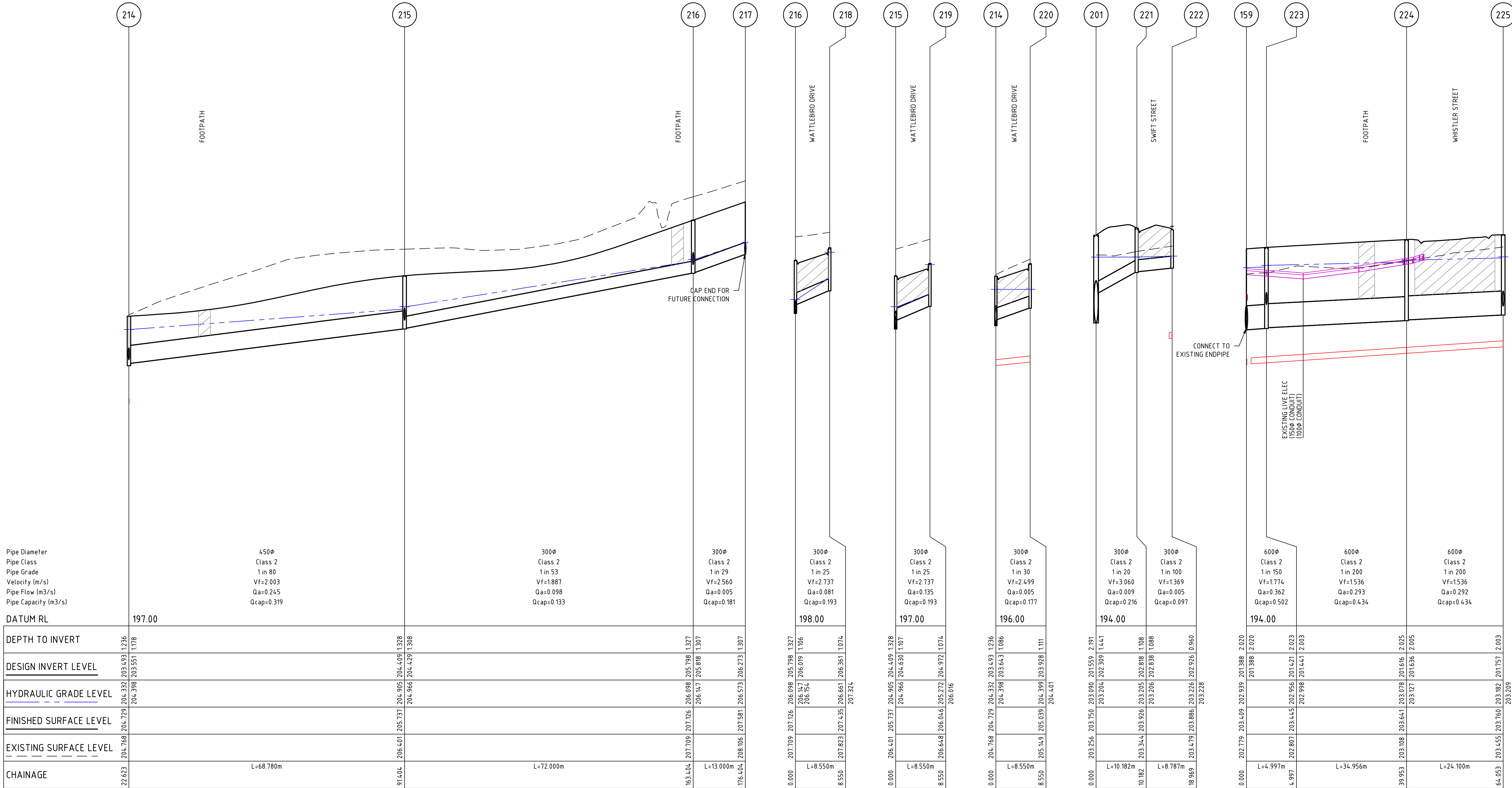
GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 28 March 2025



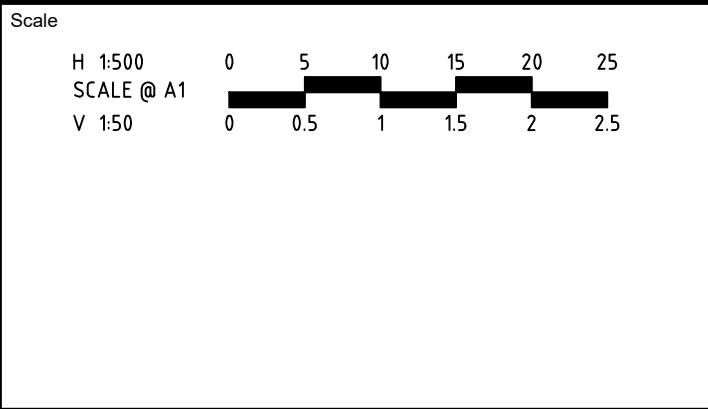
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 CRUSHED ROCK BACKFILL

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 28 March 2025



B	WATTLEBIRD DRIVE & DRAINAGE AMENDMENTS	M.R.	JAN 2025	
A	PRELIMINARY ISSUE	M.R.	MAY 2024	
Rev	Amendments	Approved	Date	




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Designed J.CAPACETE	Checked B.IBBS
Authorised M.RULE	Date MAR 2025

EMU RISE ESTATE - STAGE 2
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 2
CITY OF GREATER BENDIGO
EMU CREEK CONSTRUCTIONS PTY LTD

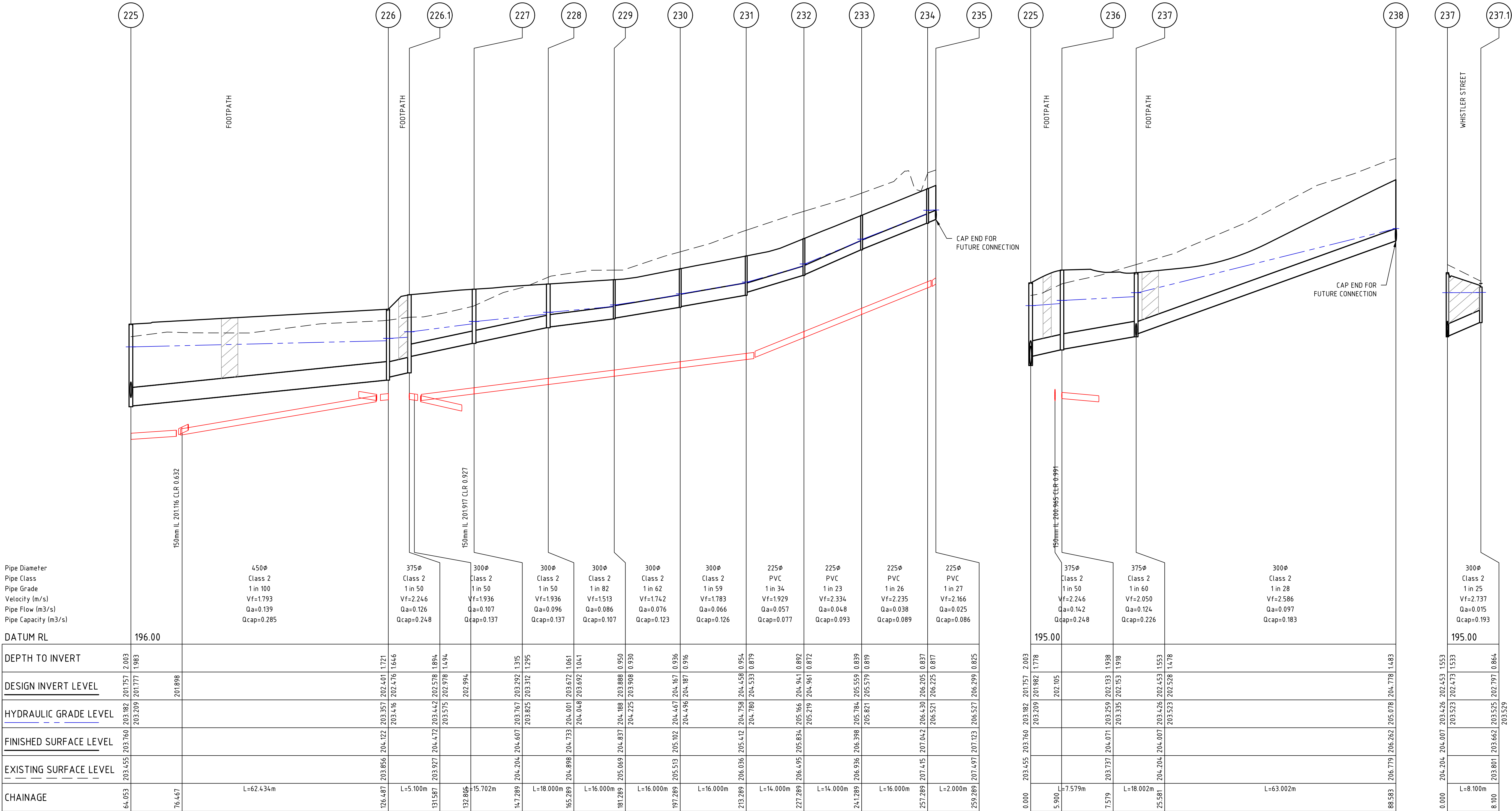
PRELIMINARY Drg No 320623-000CR601 Rev B

CRUSHED ROCK BACKFILL

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS

APPROVED BY: Peter Brasier

DATE: 28 March 2025

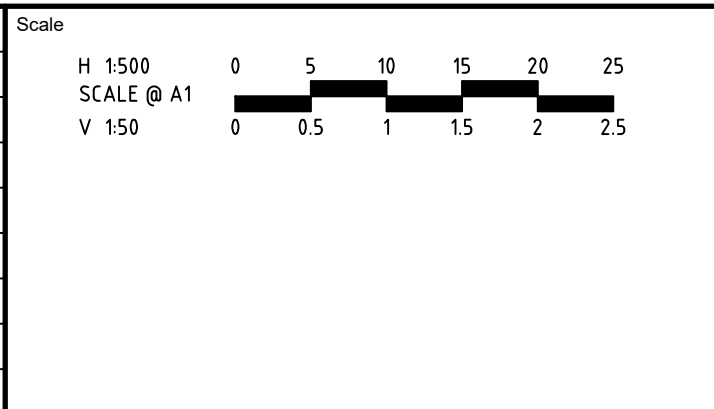


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Pipe Class	Class 2
Pipe Grade	1 in 100
Velocity (m/s)	Vf=1.793
Pipe Flow (m3/s)	Qa=0.139
Pipe Capacity (m3/s)	Qcap=0.285
DATUM RL	196.00
DEPTH TO INVERT	
DESIGN INVERT LEVEL	
HYDRAULIC GRADE LEVEL	
FINISHED SURFACE LEVEL	
EXISTING SURFACE LEVEL	
CHAINAGE	

Pipe Diameter	375Ø
Pipe Class	Class 2
Pipe Grade	1 in 50
Velocity (m/s)	Vf=2.246
Pipe Flow (m3/s)	Qa=0.142
Pipe Capacity (m3/s)	Qcap=0.248
DATUM RL	195.00
DEPTH TO INVERT	
DESIGN INVERT LEVEL	
HYDRAULIC GRADE LEVEL	
FINISHED SURFACE LEVEL	
EXISTING SURFACE LEVEL	
CHAINAGE	

file name: 320623-000CR602.dwg, layout name: C6602, plotted by: Matthew Rule, file location: \\spire\projects\320623-000CR602\320623-000CR602.dwg, plot date: 27/03/2025 4:50 PM, Sheet 19 of 25 Sheets

Rev	B	WATTLEBIRD DRIVE & DRAINAGE AMENDMENTS	M.R.	JAN 2025
Rev	A	PRELIMINARY ISSUE	M.R.	MAY 2024
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 J.CAPACETE	Checked B.IBBS
Authorised M.RULE	Date MAR 2025


EMU RISE ESTATE - STAGE 2
29 EMU CREEK ROAD, STRATHFIELDSAYE
DRAINAGE LONG SECTIONS - SHEET 3
CITY OF GREATER BENDIGO
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No **320623-000CR602** Rev **B**

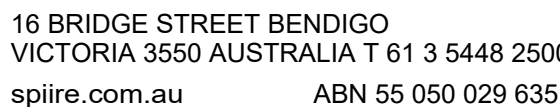
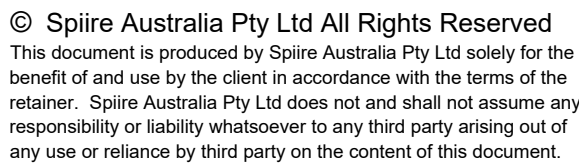


Scale

H 1500
SCALE @ A1
V 150



0 0.5 1 1.5 2 2.5



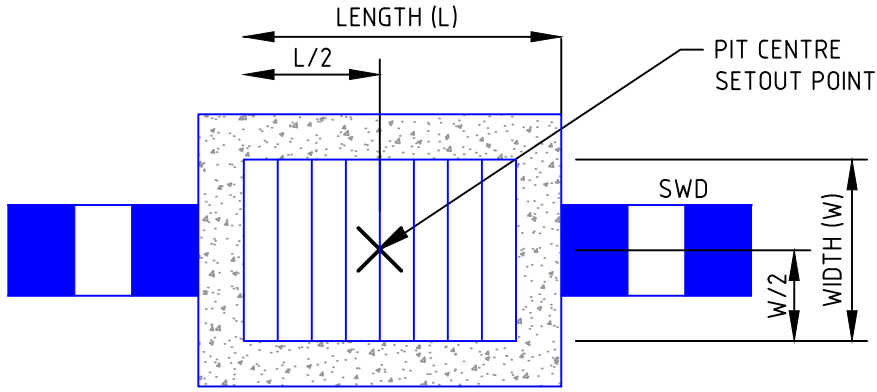
EMU RISE ESTATE - STAGE 2
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 4
 CITY OF GREATER BENDIGO
 EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No 320623-000CR603 Rev **A**

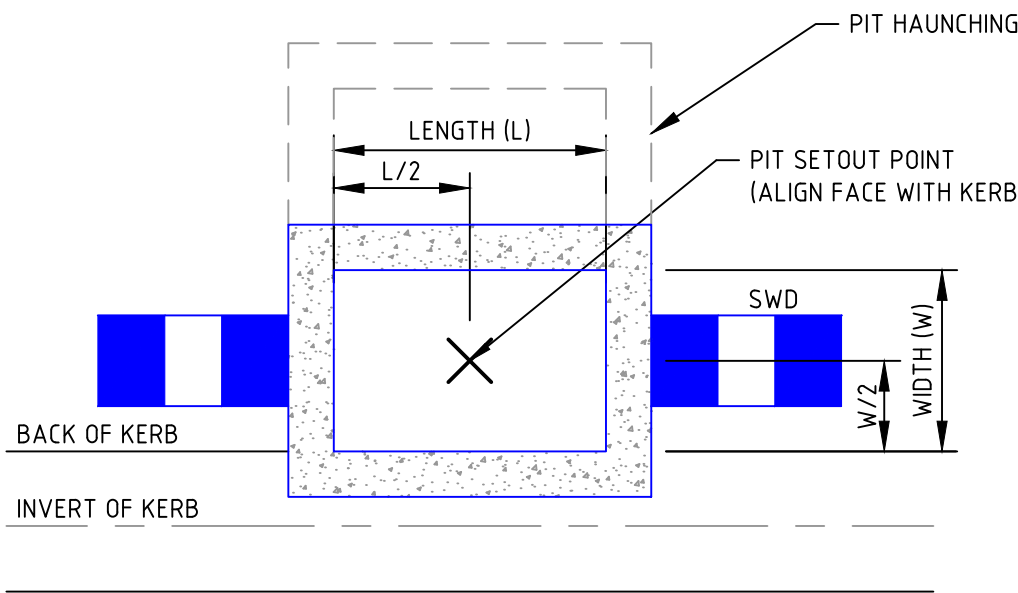
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DRAINAGE PIT SCHEDULE

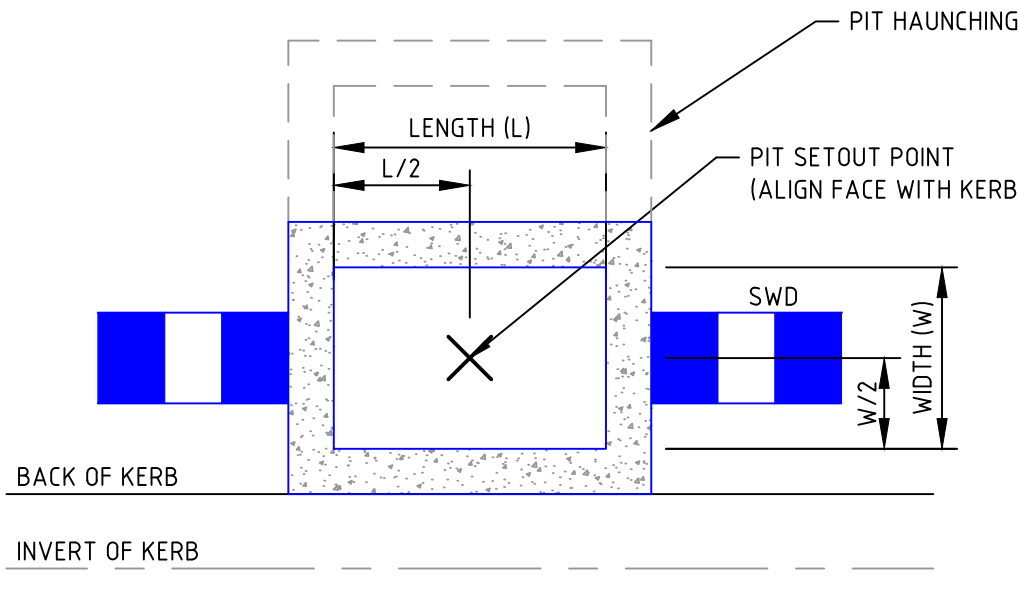
PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
201	SIDE ENTRY PIT	1500	900	1050	201.569	1050	201.559	203.750	2.191	REFER TO IDM STANDARD DRAWING SD440
				300	202.309					
202	SIDE ENTRY PIT	1500	900	1050	201.701	1050	201.691	203.885	2.194	REFER TO IDM STANDARD DRAWING SD440
203	GRATED ENTRY PIT	1500	900	1050	202.052	1050	202.032	204.254	2.221	REFER TO IDM STANDARD DRAWING SD480
204	GRATED ENTRY PIT	1800	900	900	202.457	1050	202.307	204.544	2.237	REFER TO IDM STANDARD DRAWING SD430
				525	202.832					
				450	202.907					
205	GRATED JUNCTION PIT	600	1500	900	202.688	900	202.668	204.464	1.796	GRATED JUNCTION PIT WITH FLAT PIPE GRILLE GENERALLY AS PER MWC 7251/08/423 - REFER TO DETAILS ON SHEET 320623-000CR605
205.1	GRATED ENTRY PIT	1200	1500	300	202.832	900	202.812	204.465	1.653	GRATED ENTRY PIT WITH LETTERBOX OPENING & FLAT PIPE GRILLE GENERALLY AS PER MWC 7251/08/423 - REFER TO DETAILS ON SHEET 320623-000CR605
206	JUNCTION PIT	600	900	300	203.745	300	203.725	205.073	1.348	REFER TO IDM STANDARD DRAWING SD420
208	GRATED JUNCTION PIT	450	450	300	204.411	300	204.391	205.306	0.915	REFER TO CoGB STANDARD DRAWING SD24
209	ENDPIPE	-	-			300	204.445	205.353	0.907	CAP END FOR FUTURE CONNECTION
				300	204.445					
210	GRATED ENTRY PIT	600	900	525	202.922	525	202.902	204.437	1.535	REFER TO IDM STANDARD DRAWING SD480
211	GRATED ENTRY PIT	600	900	375	203.124	525	202.974	204.470	1.495	REFER TO IDM STANDARD DRAWING SD480
212	ENDPIPE	-	-			375	203.517	204.764	1.247	CAP END FOR FUTURE CONNECTION
				375	203.517					
213	SIDE ENTRY PIT	600	900	450	203.205	450	203.185	204.601	1.416	REFER TO IDM STANDARD DRAWING SD440
214	SIDE ENTRY PIT	600	900	450	203.551	450	203.493	204.729	1.236	REFER TO IDM STANDARD DRAWING SD440
				300	203.643					
215	GRATED ENTRY PIT	600	900	300	204.429	450	204.409	205.737	1.328	REFER TO IDM STANDARD DRAWING SD480
				300	204.630					
216	GRATED ENTRY PIT	600	900	300	205.818	300	205.798	207.126	1.327	REFER TO IDM STANDARD DRAWING SD480
				300	206.019					
217	ENDPIPE	-	-			300	206.273	207.581	1.307	CAP END FOR FUTURE CONNECTION
				300	206.273					
218	SIDE ENTRY PIT	600	900			300	206.361	207.435	1.074	REFER TO IDM STANDARD DRAWING SD430
219	SIDE ENTRY PIT	600	900			300	204.972	206.046	1.074	REFER TO IDM STANDARD DRAWING SD430
220	SIDE ENTRY PIT	600	900			300	203.928	205.039	1.111	REFER TO IDM STANDARD DRAWING SD430
221	SIDE ENTRY PIT	600	900	300	202.838	300	202.818	203.926	1.108	REFER TO IDM STANDARD DRAWING SD440
222	GRATED ENTRY PIT	600	900			300	202.926	203.886	0.960	REFER TO IDM STANDARD DRAWING SD481
223	GRATED ENTRY PIT	900	900	600	201.441	600	201.421	203.445	2.023	REFER TO IDM STANDARD DRAWING SD480
				300	202.021					
224	SIDE ENTRY PIT	900	900	600	201.636	600	201.616	203.641	2.025	REFER TO IDM STANDARD DRAWING SD440
225	SIDE ENTRY PIT	900	900	450	201.777	600	201.757	203.760	2.003	REFER TO IDM STANDARD DRAWING SD440
				375	201.982					
226	GRATED ENTRY PIT	600	900	375	202.476	450	202.401	204.122	1.721	REFER TO IDM STANDARD DRAWING SD480
226.1	GRATED JUNCTION PIT	600	900	300	202.978	375	202.578	204.472	1.894	REFER TO CoGB STANDARD DRAWING SD27
227	GRATED JUNCTION PIT	600	900	300	203.312	300	203.292	204.607	1.315	REFER TO CoGB STANDARD DRAWING SD27
228	GRATED JUNCTION PIT	600	900	300	203.692	300	203.672	204.733	1.061	REFER TO CoGB STANDARD DRAWING SD27
229	GRATED JUNCTION PIT	450	450	300	203.908	300	203.888	204.837	0.950	REFER TO CoGB STANDARD DRAWING SD24
230	GRATED JUNCTION PIT	450	450	300	204.187	300	204.167	205.102	0.936	REFER TO CoGB STANDARD DRAWING SD24
231	GRATED JUNCTION PIT	450	450	225	204.533	300	204.458	205.412	0.954	REFER TO CoGB STANDARD DRAWING SD24
232	GRATED JUNCTION PIT	450	450	225	204.961	225	204.941	205.834	0.892	REFER TO CoGB STANDARD DRAWING SD24
233	GRATED JUNCTION PIT	450	450	225	205.579	225	205.559	206.398	0.839	REFER TO CoGB STANDARD DRAWING SD24
234	GRATED JUNCTION PIT	450	450	225	206.225	225	206.205	207.042	0.837	REFER TO CoGB STANDARD DRAWING SD24
235	ENDPIPE	-	-			225	206.299	207.123	0.825	CAP END FOR FUTURE CONNECTION
				225	206.299					
236	JUNCTION PIT	600	900	375	202.153	375	202.133	204.071	1.938	REFER TO IDM STANDARD DRAWING SD420
237	GRATED ENTRY PIT	600	900	300	202.528	375	202.453	204.007	1.553	REFER TO IDM STANDARD DRAWING SD480
				300	202.473					
238	ENDPIPE	-	-			300	204.778	206.262	1.483	CAP END FOR FUTURE CONNECTION
				300	204.778					
237.1	GRATED ENTRY PIT	600	900			300	202.797	203.662	0.864	REFER TO IDM STANDARD DRAWING SD481
239	GRATED JUNCTION PIT	600	900	225	202.583	300	202.508	204.151	1.643	REFER TO CoGB STANDARD DRAWING SD27
240	GRATED JUNCTION PIT	600	900	225	202.889	225	202.869	204.859	1.990	REFER TO CoGB STANDARD DRAWING SD27
241	ENDPIPE	-	-			225	202.918	204.929	2.012	CAP END FOR FUTURE CONNECTION
				225	202.918					
242	GRATED ENTRY PIT	900	900	525	202.696	600	202.196	204.278	2.082	REFER TO IDM STANDARD DRAWING SD480
243	GRATED ENTRY PIT	900	900	450	202.861	525	202.786	204.408	1.622	REFER TO IDM STANDARD DRAWING SD480
				300	202.806					
244	ENDPIPE	-	-			450	203.896	205.502	1.605	CAP END FOR FUTURE CONNECTION
				450	203.896					
245	GRATED ENTRY PIT	600	900	300	203.000	300	202.980	204.408	1.428	REFER TO IDM STANDARD DRAWING SD480
246	JUNCTION PIT	600	900	300	204.103	300	204.083	205.008	0.925	REFER TO CoGB STANDARD DRAWING SD23
247	JUNCTION PIT	600	900	300	204.244	300	204.224	205.152	0.929	REFER TO CoGB STANDARD DRAWING SD23
248	GRATED JUNCTION PIT	450	450	225	204.384	300	204.284	205.206	0.921	REFER TO CoGB STANDARD DRAWING SD24
249	ENDPIPE	-	-			225	204.484	205.309	0.825	CAP END FOR FUTURE CONNECTION



TYPICAL DRAINAGE PIT SETOUT POINT 'A'
(COGB SD23, COGB SD24, COGB SD27, COGB SD28, IDM SD420, IDM SD481)
(NOT TO SCALE)



TYPICAL DRAINAGE PIT SETOUT POINT 'B'
(IDM SD440)
(NOT TO SCALE)



TYPICAL DRAINAGE PIT SETOUT POINT 'C'
(IDM SD480)
(NOT TO SCALE)

DRAINAGE NOTES

- ALL DRAINAGE PIPES & PITS ARE TO BE AT 1m OFFSET TO PROPERTY BOUNDARIES UNLESS SHOWN OTHERWISE
- THE CONTRACTOR MUST CONTACT SERVICING AUTHORITIES TO ARRANGE SERVICE LOCATIONS PRIOR TO COMMENCEMENT OF EXCAVATION FOR THIS PROJECT
- PITS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARDS OF THE MUNICIPALITY AND/OR IDM. STEEL GRATES ARE TO BE HOT DIP GALVANISED AFTER MANUFACTURE. THE TOP OF ALL GRATES MUST BE APPROXIMATELY 150mm BELOW THE SURROUNDING SURFACE LEVEL. PROPERTY DRAINAGE CONNECTIONS ARE TO BE PROVIDED AS NECESSARY. ALL PITS IN ROAD RESERVE TO BE A MINIMUM OF CLASS C.
- ALL SIDE ENTRY PITS IN ROLLOVER KERB & CHANNEL ARE TO BE CONSTRUCTED USING AN APPROVED ROLLOVER TYPE LINTEL OR A REINFORCED ROLLOVER PROFILE PIT LID. STANDARD SQUARE PROFILE PIT LIDS WITHOUT LINTEL ARE NOT ACCEPTABLE.
- TRENCHES WITHIN PAVEMENT OR FOOTPATH AREAS ARE TO BE BACKFILLED WITH 3% CEMENT STABILISED CLASS 1 FCR. THE TRENCH IS TO BE BACKFILLED IN 150MM LAYERS AND CONSOLIDATED.
- ALL PIPE STUBS ARE TO CONSIST OF ONE FULL PIPE LENGTH UNLESS SHOWN OTHERWISE.
- FINISHED LEVELS FOR SIDE ENTRY PITS MUST BE DETERMINED FROM KERB LEVELS AND SHOULD BE SLOPED TO SUIT NATURESTRIPS ETC. THE FSLs INDICATED IN THE PIT SCHEDULE ARE NOT KERB LEVELS.
- STEP IRONS ARE NOT REQUIRED IN DRAINAGE PITS.
- CONCRETE PIPES ARE TO BE CLASS 2 RCP FJ RCP AND PVC PIPES ARE TO BE CLASS SN8 UNLESS OTHERWISE NOTED.
- ALL EXCAVATIONS FOR DRAINAGE WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE VICTORIAN WORK COVER AUTHORITY.
- REINFORCEMENT BARS SHALL COMPLY WITH AS1302/1991, GRADE 400Y. LAPS IN REINFORCEMENT BARS SHALL BE 300 MIN. AND CLEAR COVER 50 MIN.
- CONCRETE SHALL BE NORMAL CLASS N32 STANDARD STRENGTH GRADE OR HIGHER COMPLYING WITH THE REQUIREMENTS OF AS1379.
- ENDWALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT PROVISIONS OF AS3600.
- DIRECT CONNECTION OF PVC HOUSE DRAIN TO RCP DRAINAGE TO BE CONSTRUCTED WITH "CONCONNECT" OR APPROVED EQUIVALENT FITTING. 150mmØ PVC PIPES ARE NOT TO BE DIRECTLY CONNECTED TO CONCRETE PIPES LESS THAN 450mmØ IN DIAMETER. WHERE FURTHER SUBDIVISION OF THE LOT CONCERNED IS NOT PRACTICAL A 100mmØ HOUSE CONNECTION PIPE MAY BE USED.
- WHERE PVC HOUSE CONNECTIONS ARE MADE DIRECTLY TO PIPES, THE HOUSE CONNECTION IS TO BE RAISED TO SURFACE LEVEL WITHIN THE PROPERTY AND CAPPED AS PER SD520.
- COMPACTION REQUIREMENTS - ANY BACKFILL WITHIN 1m OF A COUNCIL ASSET (EG FOOTPATH OR ROAD) IS REQUIRED TO BE FCR. ALTERNATIVELY OTHER FILL MATERIAL CAN BE USED PROVIDED COMPACTION TESTS ARE CARRIED OUT TO ENSURE 95% COMPACTION IS ACHIEVED. TESTS TO BE CARRIED OUT AT A MINIMUM OF 1 PER 60m OF TRENCH.
- ALL PITS IN ROAD RESERVES ARE TO HAVE FIBERGLASS COVERS, PER C.O.G.B REQUIREMENTS

PIT SETOUT CO-ORDINATES

PIT No.	EASTING	NORTHING
204	264716.700	5922581.145
205	264727.758	5922575.014
205.1	264733.457	5922570.280
206	264740.514	5922553.860
236	264666.952	5922681.942

EMU RISE ESTATE - STAGE 2
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 5
CITY OF GREATER BENDIGO
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No **320623-000CR604** Rev **B**

B	WATTLEBIRD DRIVE & DRAINAGE AMENDMENTS		M.R.	JAN 2025	
A	PRELIMINARY ISSUE		M.R.	MAY 2024	
Rev	Amendments		Approved	Date	

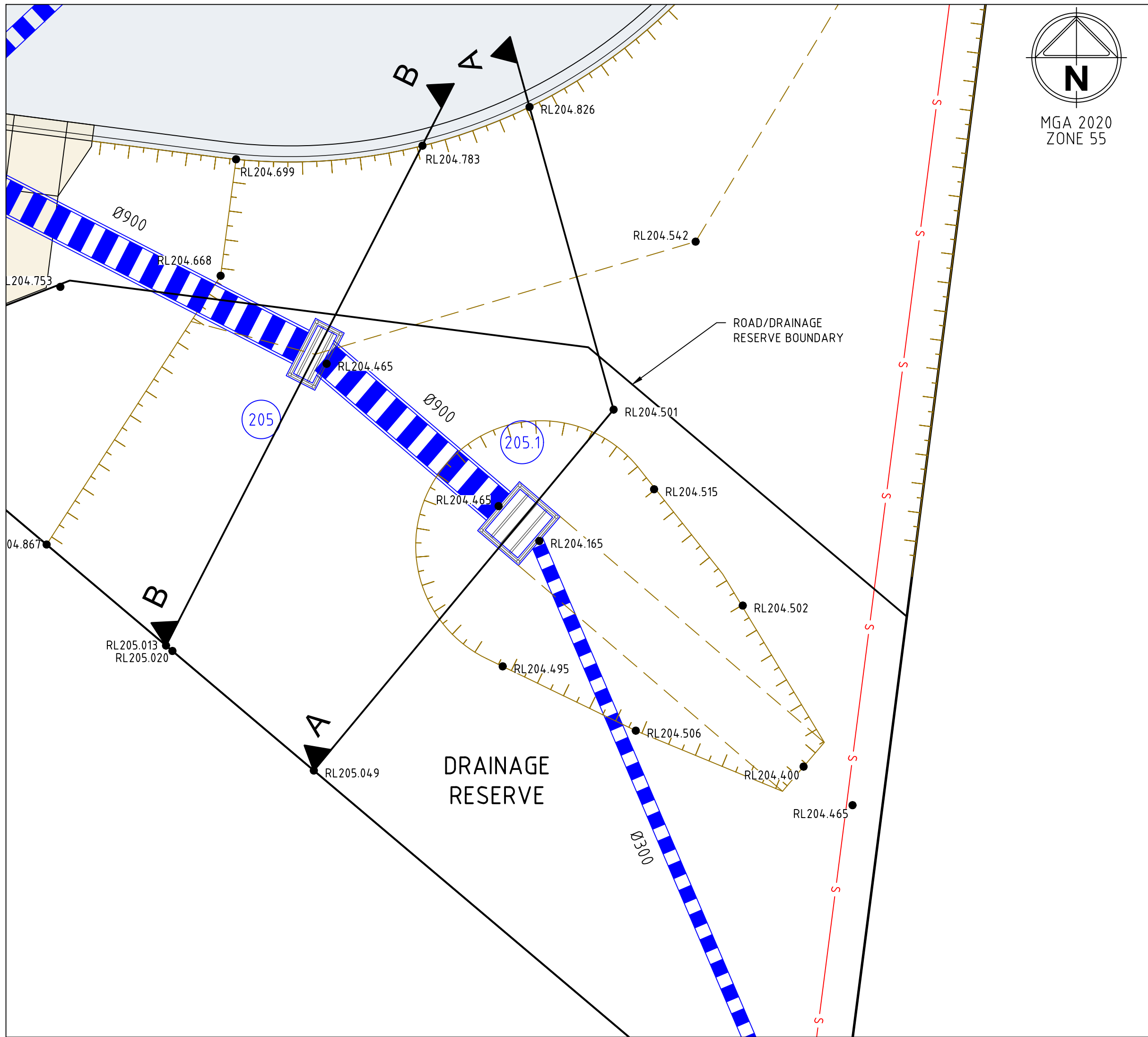
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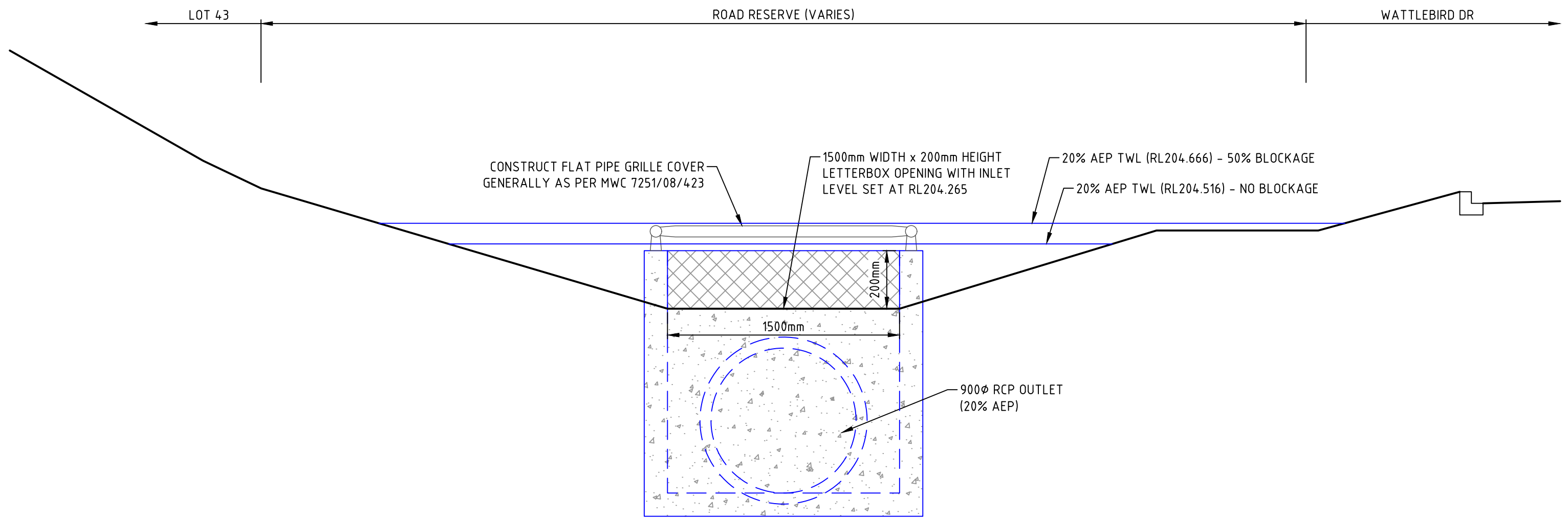
16 BRIDGE STREET BENDIGO
VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

Designed J.CAPACETE	Checked B.IBBS
Authorised M.RULE	Date MAR 2025



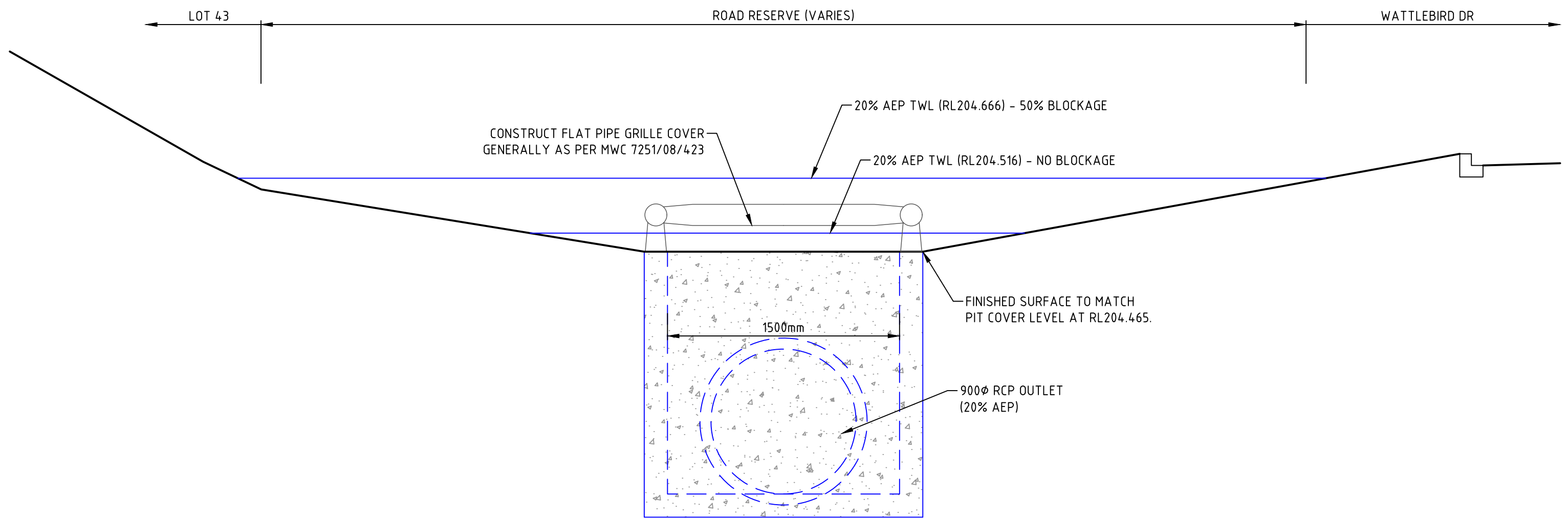
PIT 205 & 205.1 - LAYOUT PLAN

H 1:100
SCALE @ A1



PIT 205.1 - GRATED ENTRY PIT WITH LETTERBOX OPENING

SECTION A-A
(NOT TO SCALE)



PIT 205 - GRATED ENTRY PIT

SECTION B-B
(NOT TO SCALE)

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Rev	Amendments	Approved	Date
B	ADDED RESERVE BOUNDARY, REMOVED ROCK BEACHING & UPDATED TWLS	M.R.	21/03/25
A	WATTLEBIRD DRIVE & DRAINAGE AMENDMENTS	M.R.	JAN 2025

Scale
AS SHOWN



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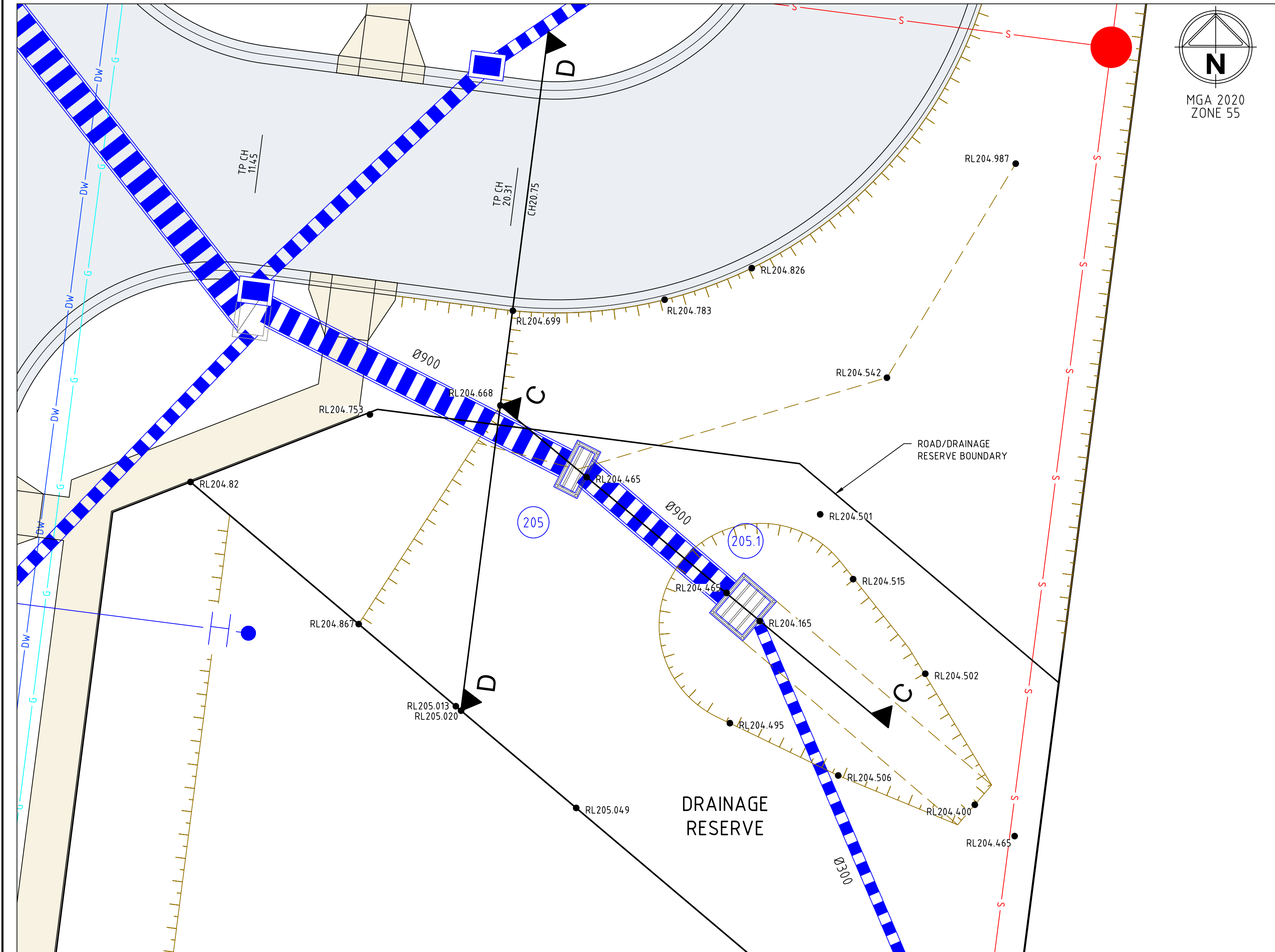
16 BRIDGE STREET BENDIGO
VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

Designed
J.CAPACETE
Authorised
M.RULE

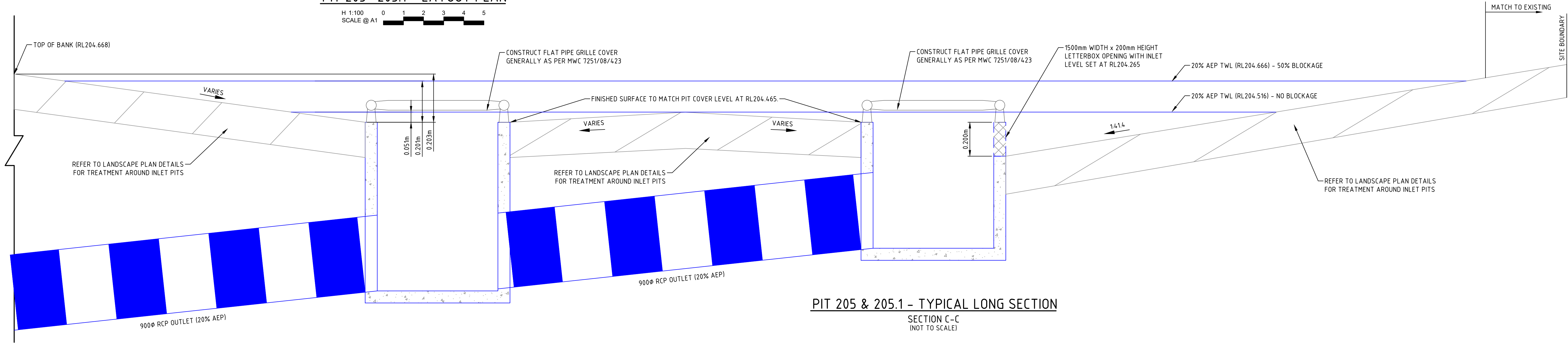
Checked
B.IBBS
Date
JAN 2025

EMU RISE ESTATE - STAGE 2
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD AND DRAINAGE
PIT 205 & 205.1 DETAILS - SHEET 1
CITY OF GREATER BENDIGO
EMU CREEK CONSTRUCTIONS PTY LTD
PRELIMINARY Dwg No 320623-000CR605 Rev B

file name: 320623-000CR600.dwg, layout name: CR606, plotted by: Matthew Rule, file location: \\spire\shared\projects\320623-000CR600\DWG\A1.dwg, plot date: 21/03/2025 4:50 PM, Sheet 23 of 25 Sheets



PIT 205 -205.1 - LAYOUT PLAN
H 1:100
SCALE @ A1



PIT 205 & 205.1 - TYPICAL LONG SECTION
SECTION C-C
(NOT TO SCALE)

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 28 March 2025

DATUM R.L. 203.0

DESIGN SURFACE LEVEL									
EXISTING SURFACE LEVEL									
OFFSET									

SECTION D-D (WATTLEBIRD DRIVE CH20.75)

EMU RISE ESTATE - STAGE 2
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD AND DRAINAGE
PIT 205 & 205.1 DETAILS - SHEET 2
CITY OF GREATER BENDIGO
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY 320623-000CR606

Rev
B

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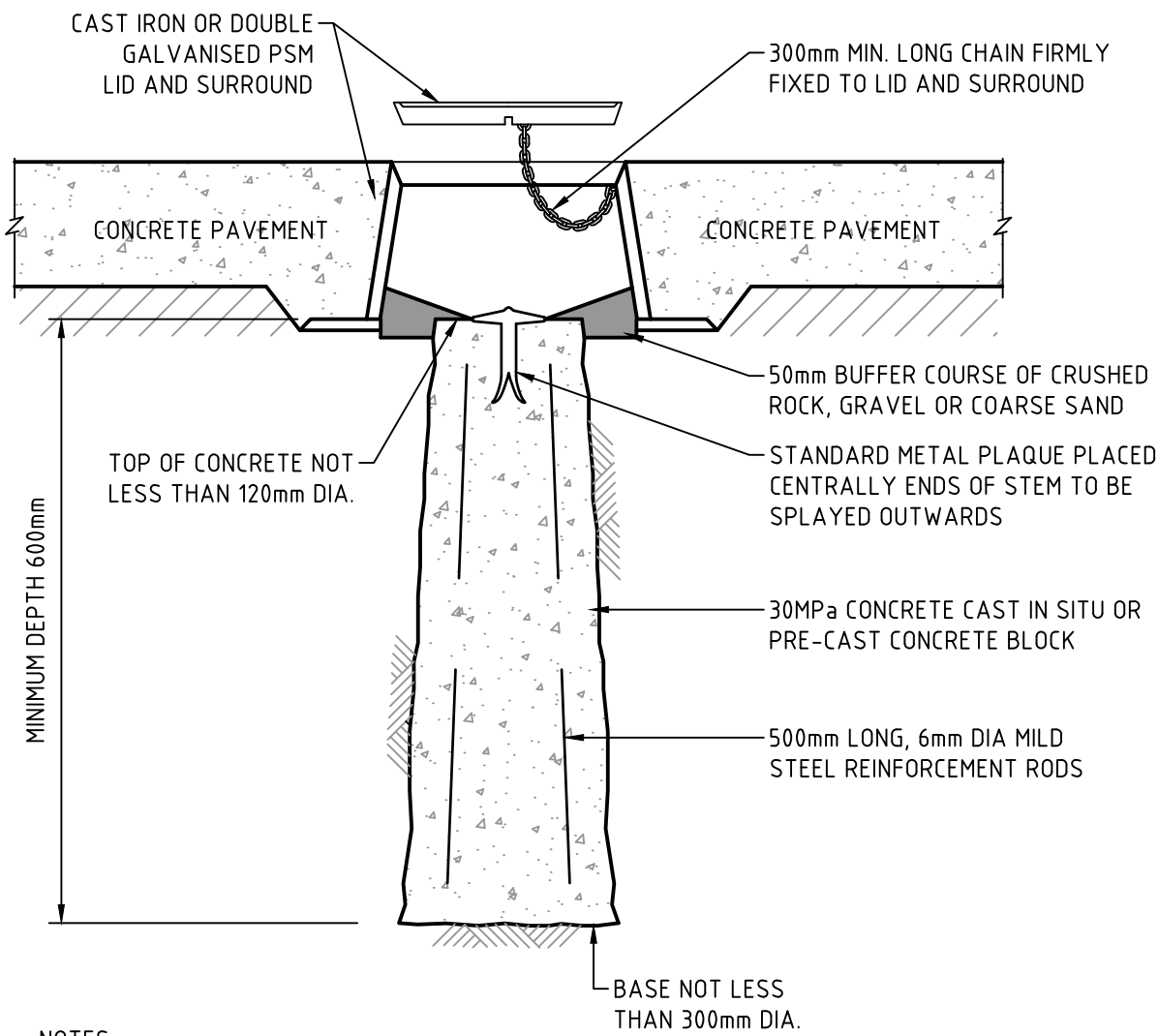
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VICTORIA 3550 AUSTRALIA T 61 3 5448 2500
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Designed
J.CAPACETE
Authorised
M.RULE

Checked
B.IBBS
Date
JAN 2025

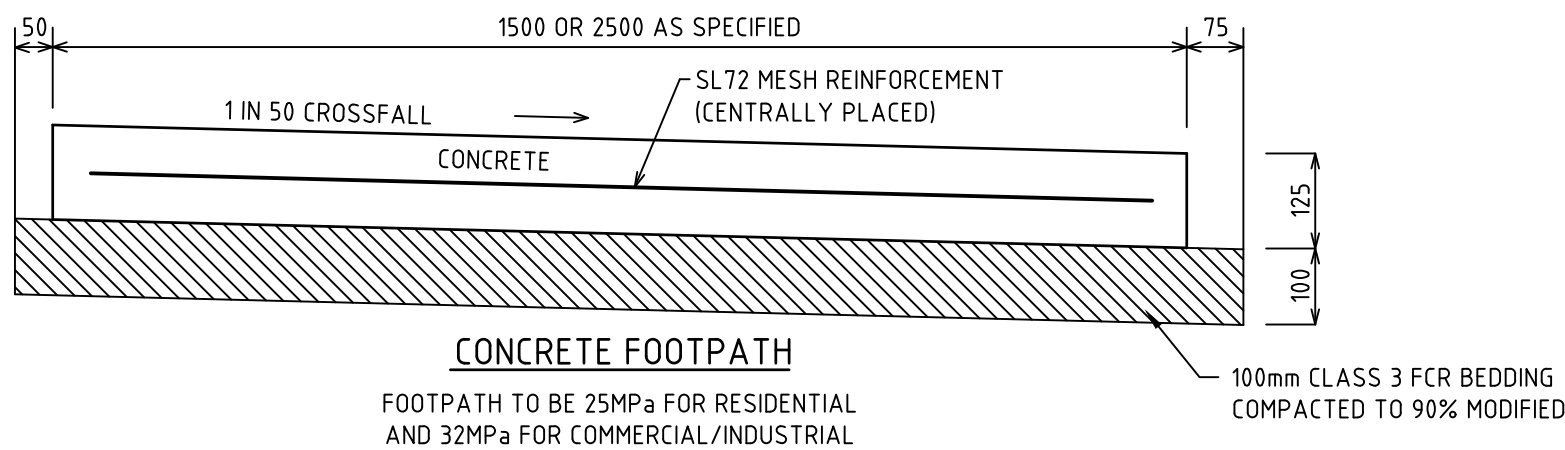
AS SHOWN

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file location: G:\320623\000CR700.dwg (CAD plot date: 27/03/2025 4:51 PM Sheet: 24 of 25 Sheets)



NOTES :
CONCRETE BLOCK IS TO BE A MINIMUM 600mm DEEP
METAL PLAQUE MUST PROTRUDE ABOVE SURFACE OF CONCRETE BLOCK
THE PSM BOX COVER IS NOT TO BE PHYSICALLY CONNECTED TO CONCRETE PSM BASE.

PERMANENT SURVEY MARK DETAIL
(IN CONCRETE FOOTPATH)
(NOT TO SCALE)

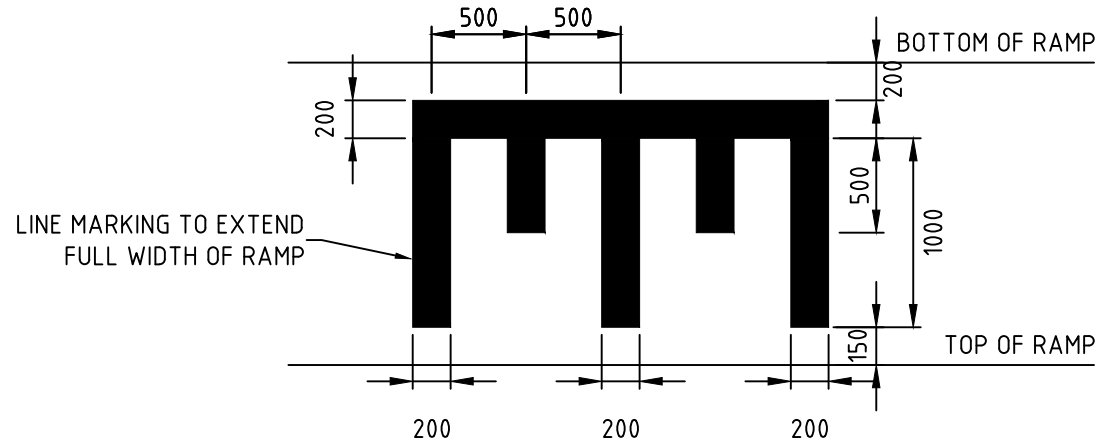
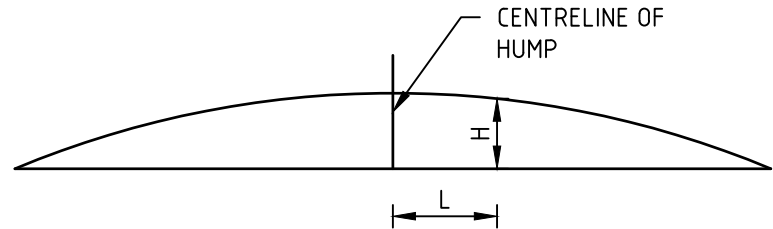


CONCRETE FOOTPATH

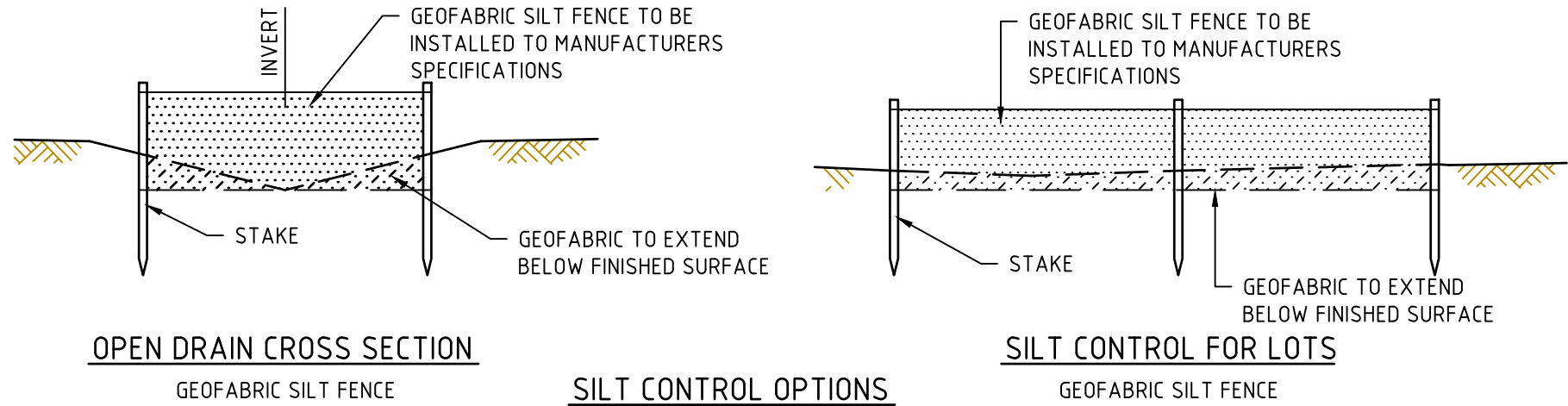
FOOTPATH TO BE 25MPa FOR RESIDENTIAL
AND 32MPa FOR COMMERCIAL/INDUSTRIAL

L (mm)	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8
H (mm)	100	100	99	97	95	93	90	86	81	76	71	65	58	51	43	34	25	16	5

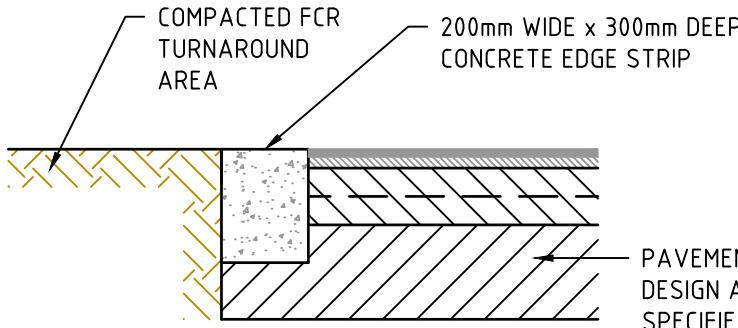
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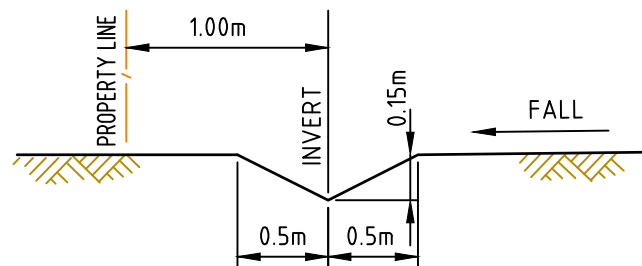
RAMP LINE MARKING DETAIL
(NOT TO SCALE)



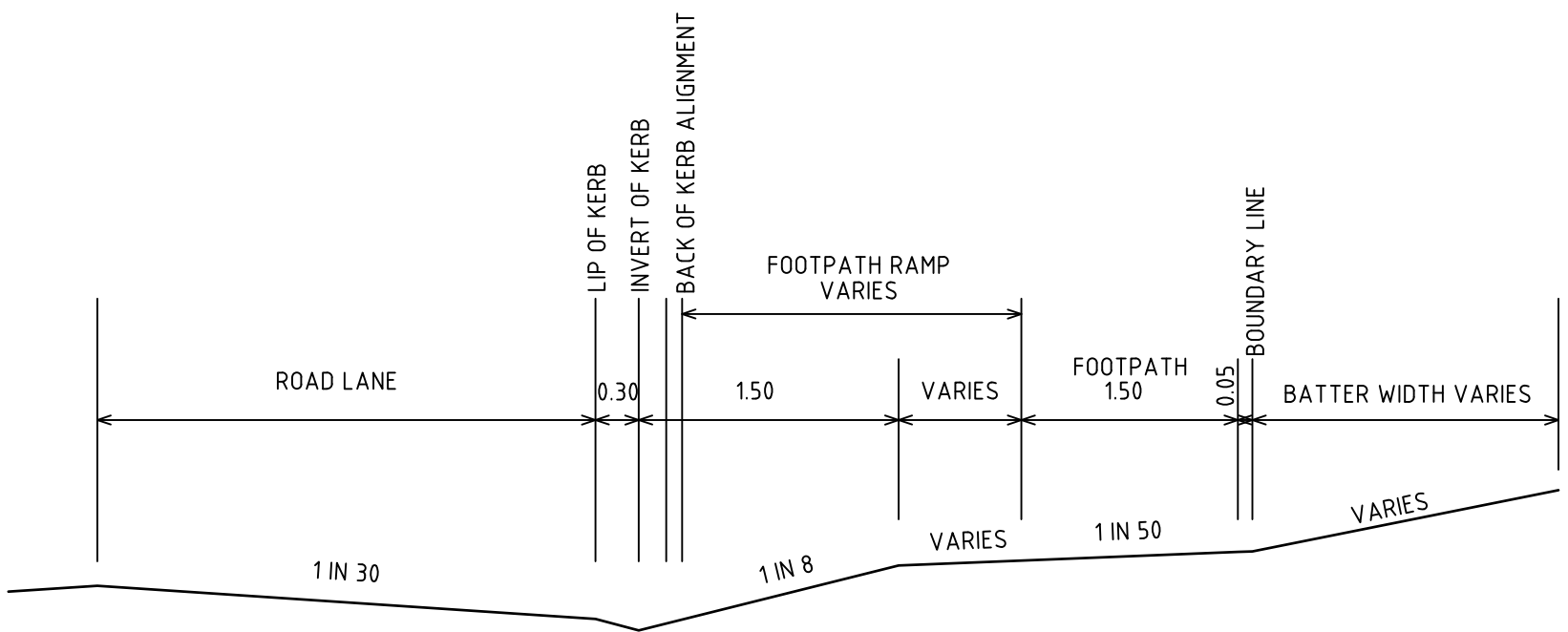
SILT CONTROL OPTIONS
NOT TO SCALE



LIMIT OF WORKS CONCRETE EDGE STRIP &
PAVEMENT INTERFACE - DETAIL

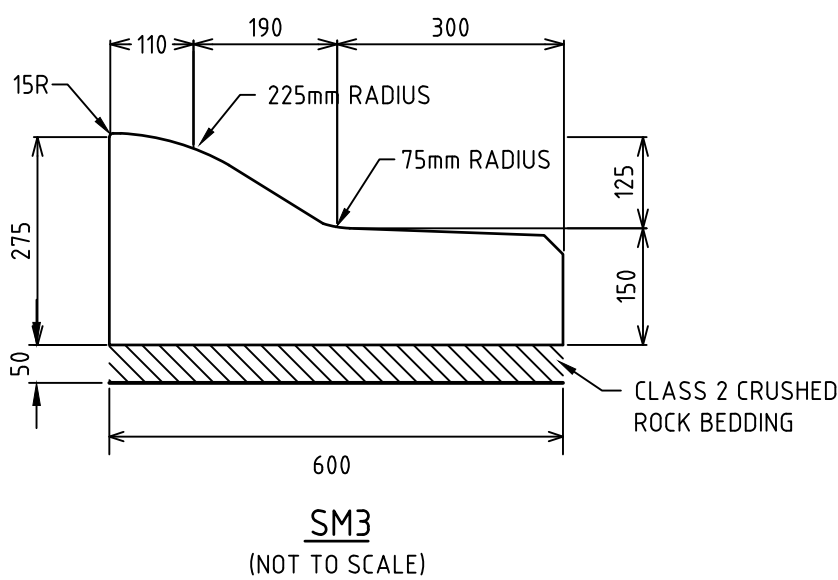


TYPICAL CATCH DRAIN SECTION

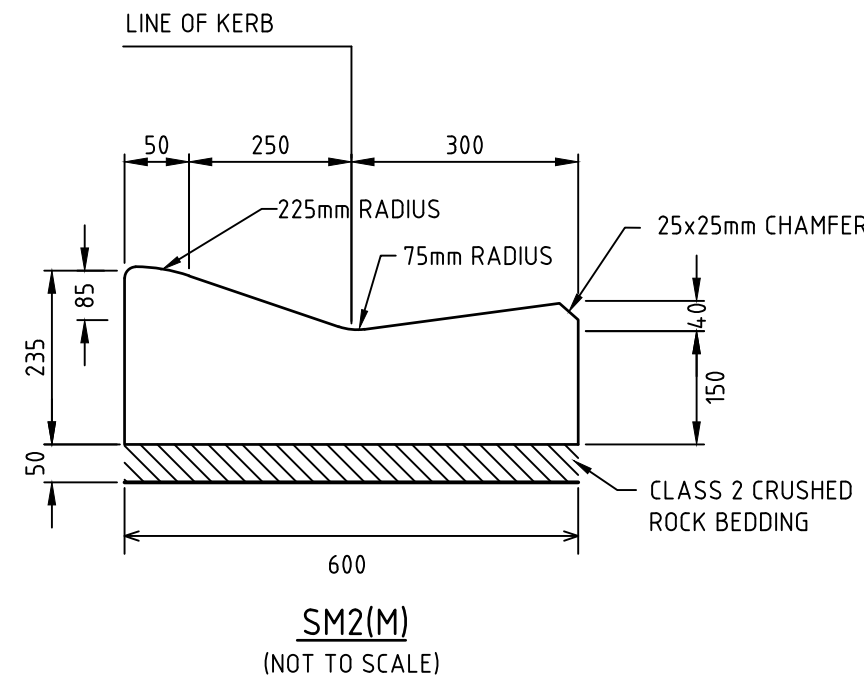


GRADE OF 1 IN 8 TO START AT INVERT OF KERB AND TO
EXTEND TO 1.5m BEHIND INVERT OF KERB ALIGNMENT

NOTE: THIS CONSTRUCTION ALLOWS TGS1 TO BE OMITTED
FOOTPATH LAYBACK / CROSSING DETAIL
(NOT TO SCALE)

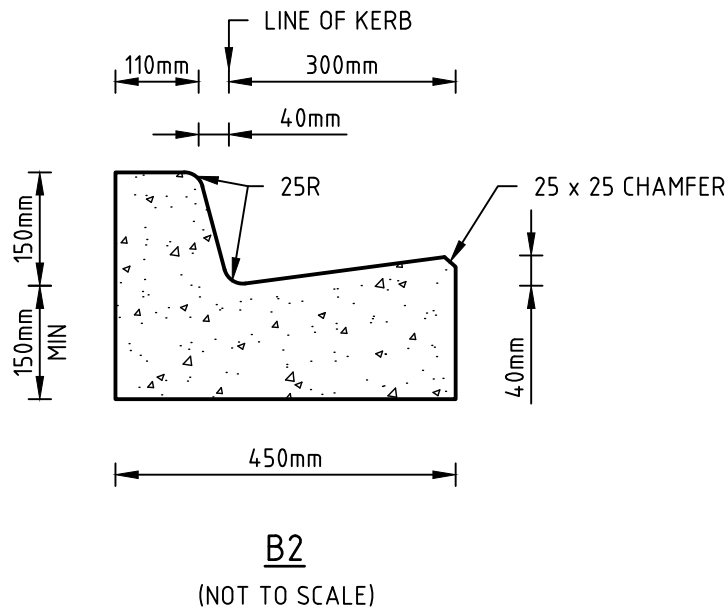


SM3
(NOT TO SCALE)



SM2(M)
(NOT TO SCALE)

STANDARD KERB & CHANNEL PROFILES
ALL DIMENSIONS IN mm



B2
(NOT TO SCALE)

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 GTS REPORT NO. 22C 0058 "29 EMU CREEK ROAD, STRATHFIELDSAYE, GEOTECHNICAL INVESTIGATION FOR EMU CREEK CONSTRUCTIONS PTY LTD ". 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 DETAILS - REFER TO PAVEMENT DESIGN

PAVEMENT LAYER	COLLECTOR
PAVEMENT THICKNESS	450
ASPHALT WEARING COURSE (mm) Type N Size 7mm with Prime	30mm
BASE COURSE ASPHALT (mm) Type SI Size 20mm in 2 x 80mm Layers	-
BASE COURSE FCR (mm) CLASS 1 or 2 FCR minimum CBR value of 80 compacted to minimum density ratio of 100% MMDD	160mm
SUB BASE (mm) CLASS 3 20mm or 40mm FCR minimum CBR value of 30 compacted to minimum density ratio of 98% MMDD	140mm
LOWER SUB BASE (mm) CLASS 4 CR Or similar with minimum CBR value of 15 compacted to minimum density ratio of 95% MMDD Soaked CBR tests for the proposed material will be required to demonstrate its compliance with the standard. Including assessment of the PI of the material & it's suitability as a subbase.	120mm
STABILISED SUBGRADE (mm) Conducted with 3% lime and 1% cement by mass over a depth of 200mm with a minimum CBR value of 8 Extend to 500mm behind back of kerb	200mm (PROVISIONAL)

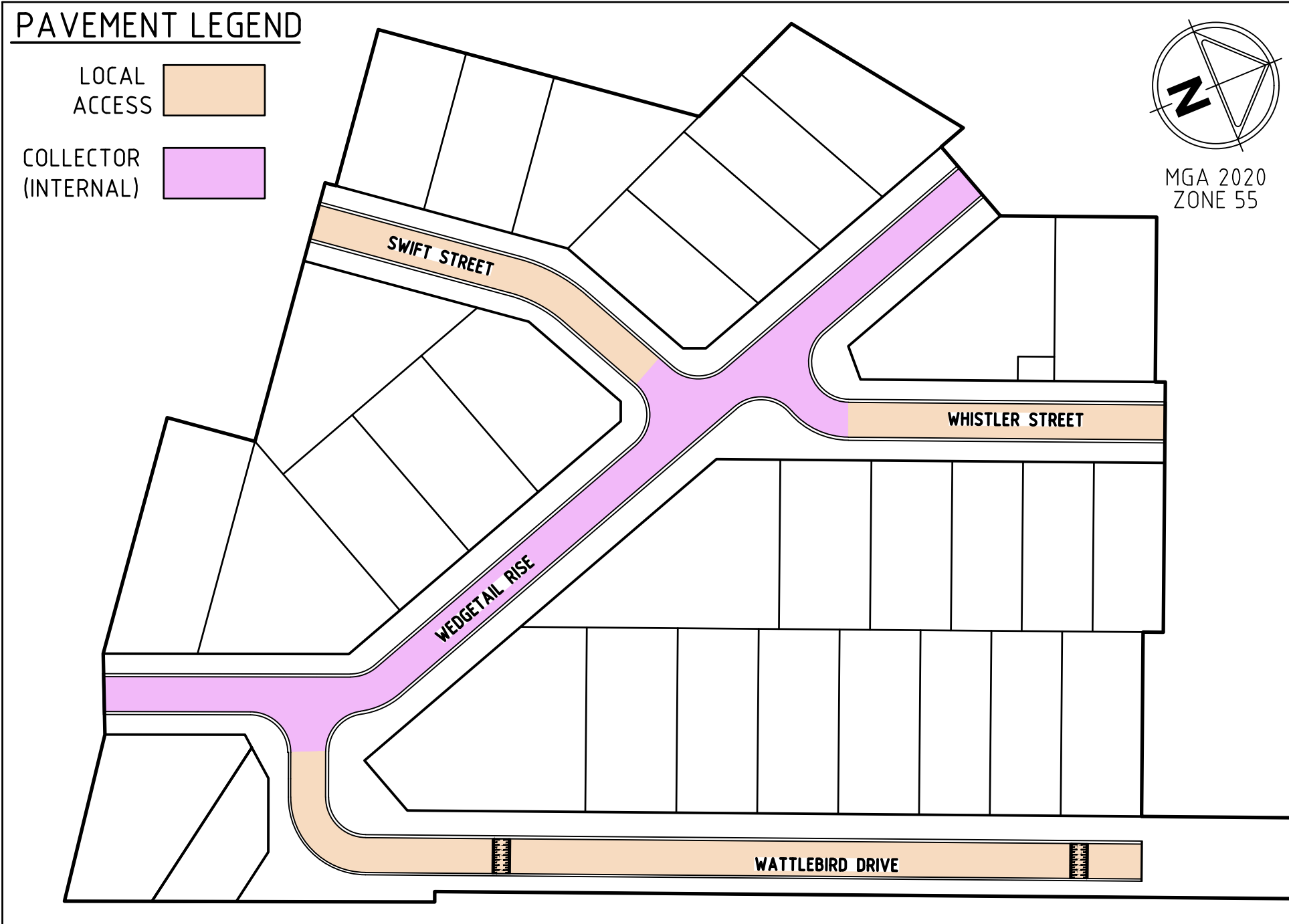
- EXPOSED SUBGRADE TO BE PROOF ROLLED PRIOR TO PLACING OF PAVEMENT MATERIAL.
- NATURE STRIPS ARE TO BE TOPSOILED WITH MATERIAL STOCKPILED FROM STRIPPING TO A DEPTH OF APPROXIMATELY 100mm. IMPORTED TOPSOIL AND/OR SEEDING MAY BE REQUIRED TO PROVIDE GOOD GRASS COVER.
- THE LOCATION OF ALL SERVICE CONDUITS IS TO BE MARKED ON THE FACE OF BOTH KERBS DIRECTLY ABOVE THE CONDUIT
- THE LOCATION OF ALL SERVICE CONDUITS IS TO BE MARKED ON THE FACE OF BOTH KERBS DIRECTLY ABOVE THE CONDUIT
- KERB AND CHANNELS TO BE CONSTRUCTED AS SHOWN ON THE DETAIL DRAWING AND AS PER COUNCIL STANDARDS

PAVEMENT DETAILS - REFER TO PAVEMENT DESIGN

PAVEMENT LAYER	LOCAL ACCESS
PAVEMENT THICKNESS	330
ASPHALT WEARING COURSE (mm) Type N Size 7mm with Prime	30mm
BASE COURSE (mm) CLASS 1 or 2 FCR minimum CBR value of 80 compacted to minimum density ratio of 98% MMDD	160mm
SUB BASE (mm) CLASS 3 20mm or 40mm FCR minimum CBR value of 30 compacted to minimum density ratio of 97% MMDD	140mm
LOWER SUB BASE (mm) CLASS 4 CR Or similar with minimum CBR value of 15 compacted to minimum density ratio of 95% MMDD Soaked CBR tests for the proposed material will be required to demonstrate its compliance with the standard. Including assessment of the PI of the material & it's suitability as a subbase.	-
STABILISED SUBGRADE (mm) Conducted with 3% lime and 1% cement by mass over a depth of 200mm with a minimum CBR value of 8 Extend to 500mm behind back of kerb	-

PAVEMENT LEGEND

LOCAL ACCESS	
COLLECTOR (INTERNAL)	



MGA 2020
ZONE 55

Scale

NOT TO SCALE



System Certified

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spiire

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

Designed
J.CAPACETE

Authorised
M.RULE

Checked
B.IBBS

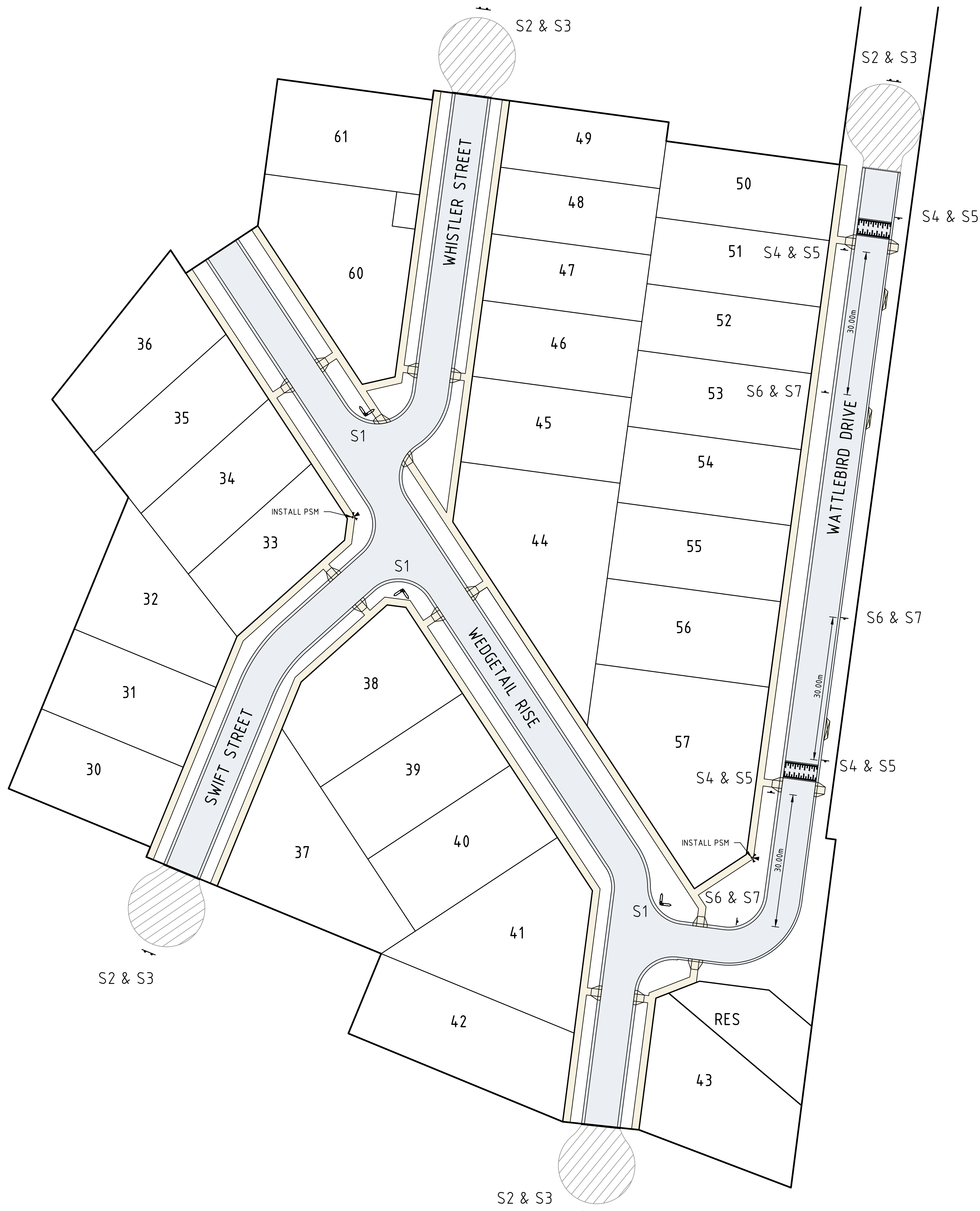
Date
MAR 2025

EMU RISE ESTATE - STAGE 2
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD AND DRAINAGE
PAVEMENT AND TYPICAL DETAILS - SHEET 1
CITY OF GREATER BENDIGO
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No 320623-000CR700

Rev
B

file name: 320623-000CR800.dwg layout name: C8000, plotted by: Matthew Rule
file location: G:\320623\000CR800\320623-000CR800.dwg plot date: 2/03/2025 4:51 PM Sheet: 25 of 25 Sheets



GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS

APPROVED BY: Peter Brasier

DATE: 28 March 2025

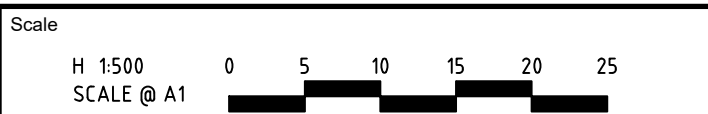
LEGEND - SIGNAGE

S1		STREET NAME PLATES INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE
S2		G9-20
S3		D4-5
S4		W5-10
S5		W8-2
S6		W3-4
S7		W8-17-2

NOTES:

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.

Rev	Amendments	Approved	Date
B	WATTLEBIRD DRIVE & DRAINAGE AMENDMENTS	M.R.	JAN 2025
A	PRELIMINARY ISSUE	M.R.	MAY 2024



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Designed
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Authorised
M.RULE

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Date
MAR 2025

EMU RISE ESTATE - STAGE 2
29 EMU CREEK ROAD, STRATHFIELDSAYE
ROAD AND DRAINAGE
SIGNAGE AND LINEMARKING - SHEET 1
CITY OF GREATER BENDIGO
EMU CREEK CONSTRUCTIONS PTY LTD

PRELIMINARY Drg No 320623-000CR800 Rev B