

GOLDEN GROVE STAGE 3 38 LOT SUBDIVISION WARRINGAL VIEWS P/L

GB4230B

GENERAL NOTES

A. GENERAL

- ALL WORK TO BE CARRIED OUT TO CITY OF GREATER BENDIGO 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).
 - 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 TBMS 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 15 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.
 - 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 GREATER BENDIGO 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.
- ### B. ROAD WORKS
- FOOTPATHS ARE TO BE 15M WIDE UNLESS SHOWN OTHERWISE. FOOTPATHS TO BE CONSTRUCTED TO THE CITY OF GREATER BENDIGO STANDARDS.
 - CONSTRUCT LAYBACK SECTION AT VEHICLE CROSSING, REVERSING BAYS AND CAR PARKING BAYS AND PRAM CROSSING TO THE CITY OF GREATER BENDIGO 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 GREATER BENDIGO STANDARDS.
 - CUT 1 IN 12 UNLESS OTHERWISE SHOWN.
 - FILL 1 IN 12 UNLESS OTHERWISE SHOWN.
 - ALL SET OUT INFORMATION GIVEN IS TO LIP 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 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 FC.R. 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

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 29 June 2020

DRAWING SCHEDULE

REFERENCE	DESCRIPTION	REVISION	SHEET No.
CR100	ROAD & DRAINAGE FACE SHEET	B	1
CR200	ROAD & DRAINAGE LAYOUT PLAN	A	2
CR201	ROAD & DRAINAGE LAYOUT PLAN	B	3
CR202	ROAD & DRAINAGE LAYOUT PLAN	A	4
CR203	ROAD & DRAINAGE LAYOUT PLAN	A	5
CR204	ROAD & DRAINAGE LAYOUT PLAN	B	6
CR205	ROAD & DRAINAGE LAYOUT PLAN	A	7
CR300	ROAD LONGITUDINAL SECTIONS	A	8
CR301	ROAD LONGITUDINAL SECTIONS	A	9
CR400	ROAD CROSS SECTIONS	A	10
CR401	ROAD CROSS SECTIONS	A	11
CR402	ROAD CROSS SECTIONS	A	12
CR500	INTERSECTION DETAILS	B	13
CR501	INTERSECTION DETAILS	B	14
CR502	INTERSECTION DETAILS	A	15
CR503	INTERSECTION DETAILS	B	16
CR600	DRAINAGE LONG SECTIONS	B	17
CR601	DRAINAGE LONG SECTIONS	A	18
CR602	DRAINAGE PIT SCHEDULE	B	19
CR700	PAVEMENT AND TYPICAL DETAILS	B	20
CR800	SIGNAGE AND LINEMARKING	A	21



LOCALITY PLAN
SCALE: NOT TO SCALE
VICROADS: 607 S3

APPROVED DRAINAGE PLAN
PLANNING AND ENVIRONMENT ACT 1987
GREATER BENDIGO PLANNING SCHEME
NO: DS/226/2010 Stage 3
Delegated Officer: Liz Commadeur
For and on behalf of the City of Greater Bendigo
Date: 9 July 2020 Page 1 of 21
All of this Document

LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	DW X	DW
WATER RECYCLED	NDW	NDW
UNDERGROUND ELECTRICITY	E	E
OVERHEAD ELECTRICITY & POLE	OE	OE
TELSTRA & SERVICE PIT	T	T
OPTIC FIBRE	OF	OF
OVERHEAD TELSTRA	OT	OT
GAS MAIN	G	G
BRANCH SEWER & MANHOLE	S	S
SEWER & MANHOLE	S	S
SEWER RISING MAIN	SRM	SRM
CENTRAL INVERT	>	>
COUNCIL STORMWATER DRAIN & PIT	>	>
STORMWATER DRAINAGE PROPERTY INLETS	>	>
COUNCIL STORMWATER PITS	>	>
HOUSE DRAIN	H	H
AG DRAIN AND FLUSHER	AG	AG
MWC STORMWATER DRAIN & PIT	>	>
MWC STORMWATER PITS	>	>
STORMWATER DRAINAGE PIT NUMBER	1	1
GAS & WATER CONDUITS	GW	GW
CONCRETE VEHICLE CROSSING	>	>
PAVEMENT SAWCUT LINE	>	SAWCUT
RIDGE / CHANGE OF GRADE LINE	>	>
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	>	>
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 CHAINAGE	CH20.06	CH20.06
SETOUT POINT	>	A2
LIMIT OF WORKS	>	>
BATTER	>	>
EXCAVATION GREATER THAN 0.20m	>	>
FILLING GREATER THAN 0.20m	>	>
FILL EXTENTS	>	>
ROCK BEACHING	>	>
PARKING BAY/PAVED AREA	>	>
RETAINING WALL - TIMBER	>	>
RETAINING WALL - CONCRETE	>	>
RETAINING WALL - ROCK/STONE	>	>
GRASSED MAINTENANCE ACCESS TRACK	>	>
GRAVEL MAINTENANCE ACCESS TRACK	>	>
FENCE - TREE PROTECTION	>	>
FENCE - VEHICLE EXCLUSION	>	>
FENCES	>	>
GUARD RAIL	>	>
TREE (& SURVEYED CANOPY) TO BE RETAINED	>	>
TREE TO BE REMOVED	>	>
VEGETATION LINE	>	>



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.

SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY				RECYCLED WATER			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE		SIDE	OFFSET		
							SIDE	OFFSET	SIDE	OFFSET				
EUCALYPTUS STREET (LOTS 73 - 81)	N	2.70	N	1.80	S	1.90	S	0.8x	S	2.60	N	2.20	N	2.20
EUCALYPTUS STREET (LOTS 57 - 61)	S	2.70	S	1.80	N	1.90	N	0.8x	N	2.40	S	2.20	S	2.20
OAKWOOD AVENUE (LOTS 69 - 70)	E	2.70	E	1.80	W	13.9	W	0.8x	W	14.4	E	2.20	E	2.20
OAKWOOD AVENUE (LOTS 71 - 72)	W	5.50	W	4.60	W	13.9	W	0.8x	W	14.4	W	5.00	W	5.00
REEF LANE	S	2.70	S	1.80	N	1.90	N	0.8x	N	2.60	S	2.20	S	2.20

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

file name: 307310CR100.dwg, layout name: CR100, plotted by: Harry Oakley-Warren, file location: G:\307310\307310.dwg, plot date: 26/06/2020 4:29 PM, sheet 1 of 21, sheets

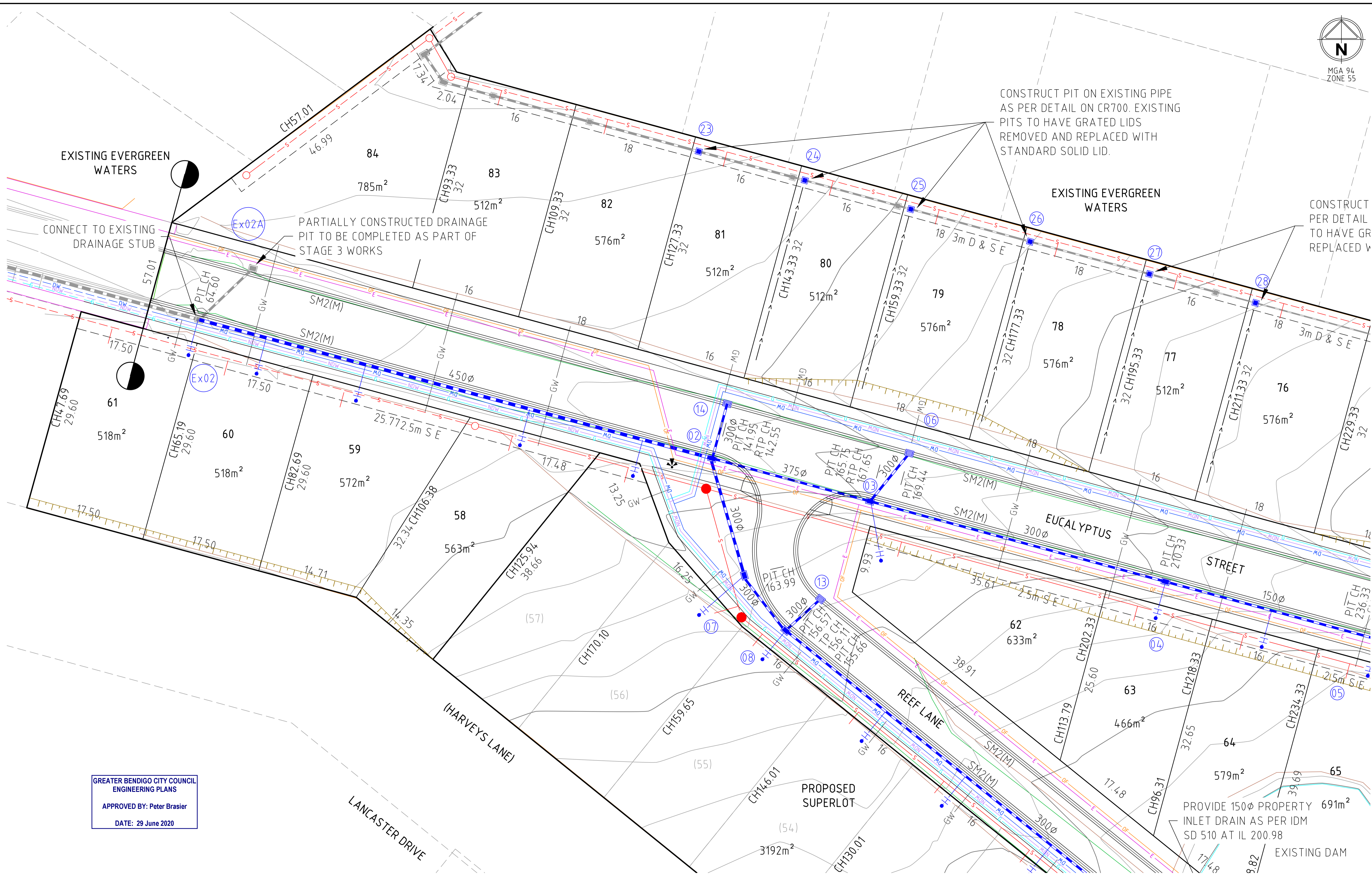
Rev	Description	Approved By	Date
B	AMENDED SHEETS CR204, CR500-501, CR503, CR602, CR700	B. I.	JUN 2020
A	PRELIMINARY ISSUE	B. I.	JUN 2020
	Amendments	Approved	Date



spiire
16 Bridge Street Bendigo
Victoria 3550 Australia T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

Designed H. OAKLEY-WARREN	Checked B. IBBS
Authorised B. IBBS	Date JUN 2020

**GOLDEN GROVE STAGE 3
EUCALYPTUS ST, JACKASS FLAT
ROAD & DRAINAGE FACE SHEET**
FACE SHEET
CITY OF GREATER BENDIGO DS/226/2010 AND AM/904/2011A
WARRINGAL VIEWS P/L
PRELIMINARY Drg No 307310CR100 Rev B



CONSTRUCT PIT ON EXISTING PIPE AS PER DETAIL ON CR700. EXISTING PITS TO HAVE GRATED LIDS REMOVED AND REPLACED WITH STANDARD SOLID LID.

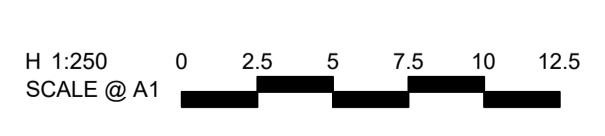
CONSTRUCT PER DETAIL TO HAVE GR REPLACED V

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 29 June 2020

PROVIDE 150Ø PROPERTY INLET DRAIN AS PER IDM SD 510 AT IL 200.98
EXISTING DAM

file name: 307310CR200.dwg layout name: CR200_01 created by: Harry Oakley-Warren
file location: G:\307310CR200\101\101\101.dwg plot date: 16/06/2020 4:29 PM sheet 2 of 21 sheets

Rev	Description	Approved	Date
A	PRELIMINARY ISSUE	B. I.	JUN 2020
	Amendments		



© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



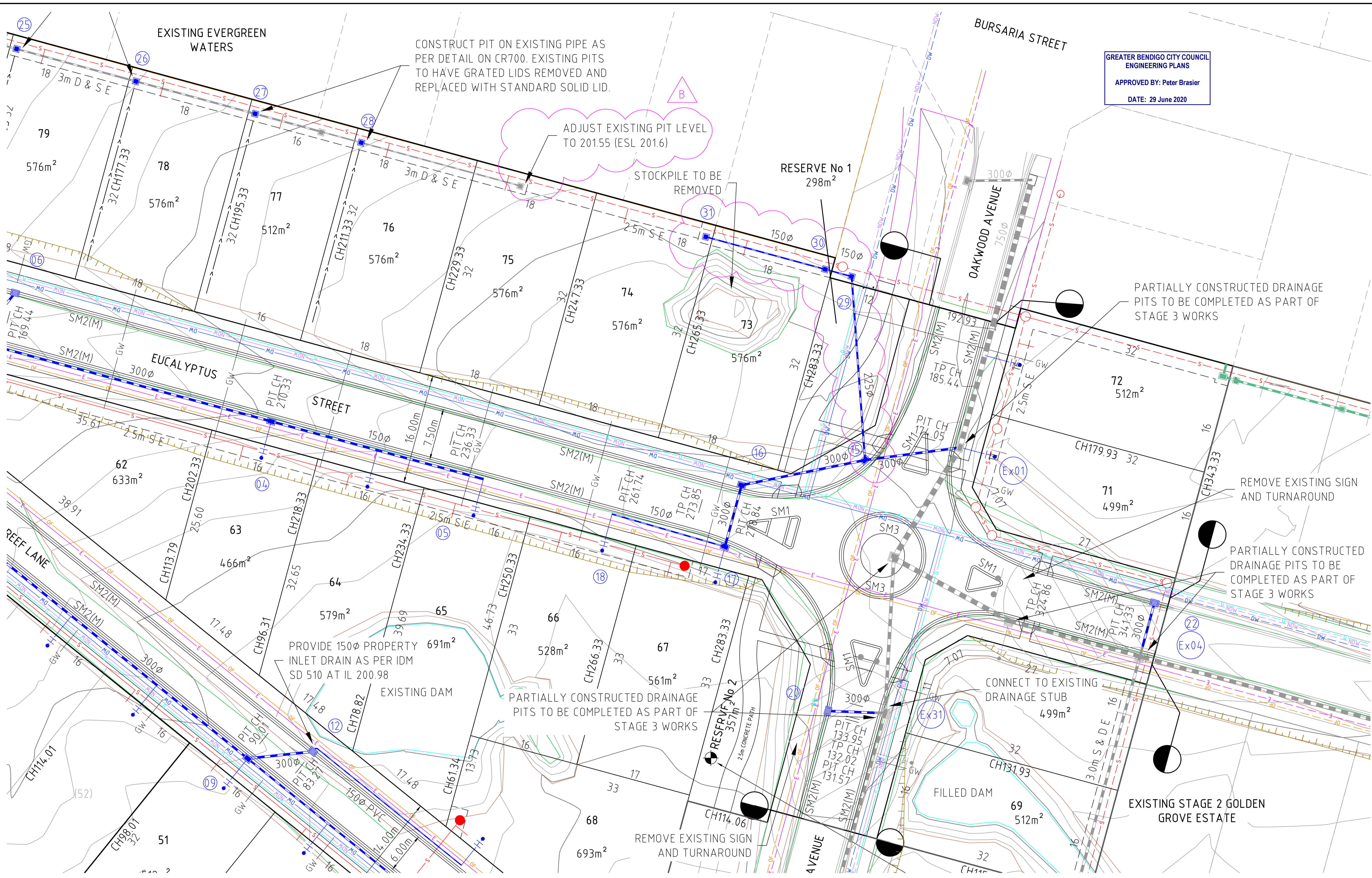
16 Bridge Street Bendigo
Victoria 3550 Australia T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

Designed
H. OAKLEY-WARREN
Authorised
B. IBBS

Checked
B. IBBS
Date
JUN 2020

**GOLDEN GROVE STAGE 3
EUCALYPTUS ST, JACKASS FLAT
ROAD & DRAINAGE LAYOUT PLAN
FACE PLAN 1**
CITY OF GREATER BENDIGO DS/226/2010 AND AM/904/2011A
WARRINGAL VIEWS P/L

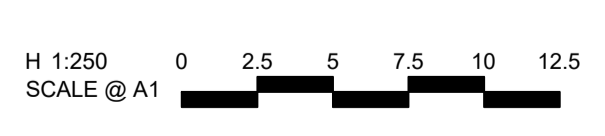
PRELIMINARY Drg No 307310CR200 Rev A



GREATER BENDIGO CITY COUNCIL
 ENGINEERING PLANS
 APPROVED BY: Peter Brasier
 DATE: 29 June 2020

file name: 307310CR201.dwg, layout: crm201, plotted by: Harry Oakley-Warren
 file location: G:\307310CR201\civil\A1.dwg, plot date: 26/06/2020 4:29 PM, sheet 3 of 21 sheets

Rev	Amendments	Approved	Date
B	ADDED DRAINAGE IN REAR OF LOTS 73-74	B. I.	JUN 2020
A	PRELIMINARY ISSUE	B. I.	JUN 2020



© Spiire Australia Pty Ltd All Rights Reserved
 This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



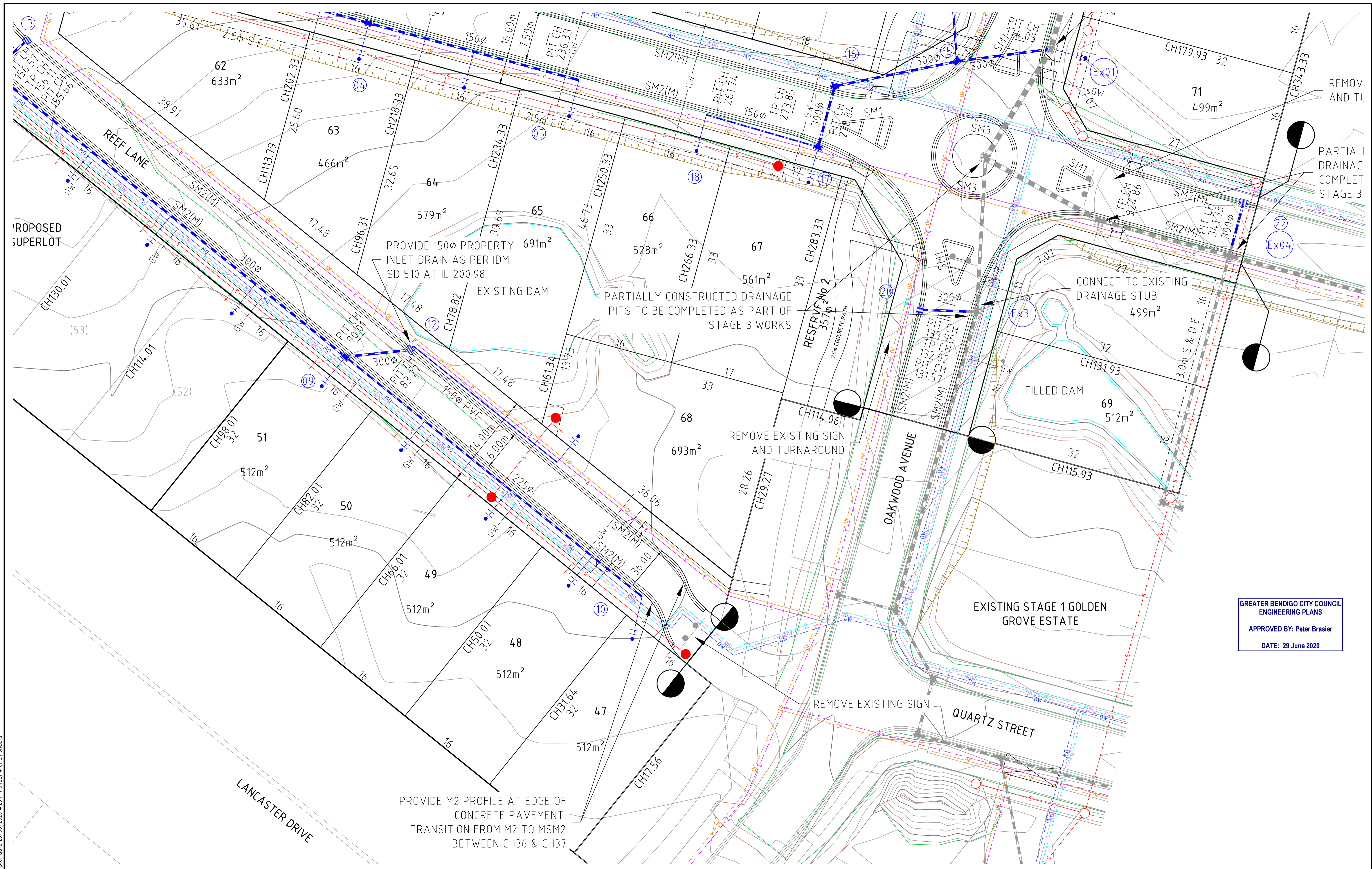
16 Bridge Street Bendigo
 Victoria 3550 Australia T 61 3 5448 2500
 spiire.com.au ABN 55 050 029 635

Designed
 H. OAKLEY-WARREN
 Authorised
 B. IBBS

Checked
 B. IBBS
 Date
 JUN 2020

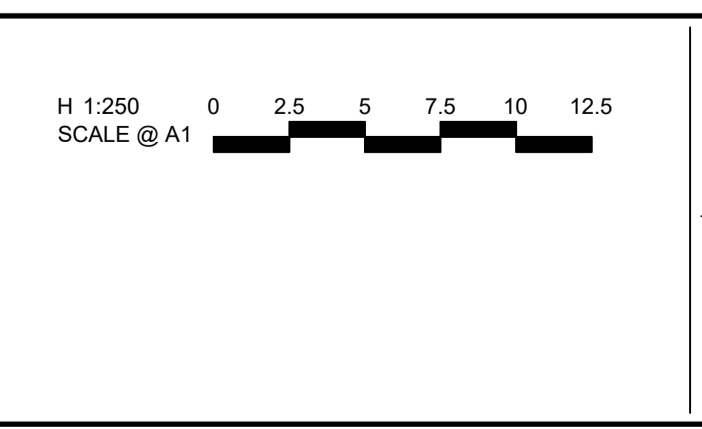
**GOLDEN GROVE STAGE 3
 EUCALYPTUS ST, JACKASS FLAT
 ROAD & DRAINAGE LAYOUT PLAN
 FACE PLAN 2**
 CITY OF GREATER BENDIGO DS/226/2010 AND AM/904/2011A
 WARRINGAL VIEWS P/L

PRELIMINARY Drg No **307310CR201** Rev **B**



GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 29 June 2020

Rev	Amendments	Approved	Date
A	PRELIMINARY ISSUE	B. I.	JUN 2020



© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

16 Bridge Street Bendigo
Victoria 3550 Australia T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

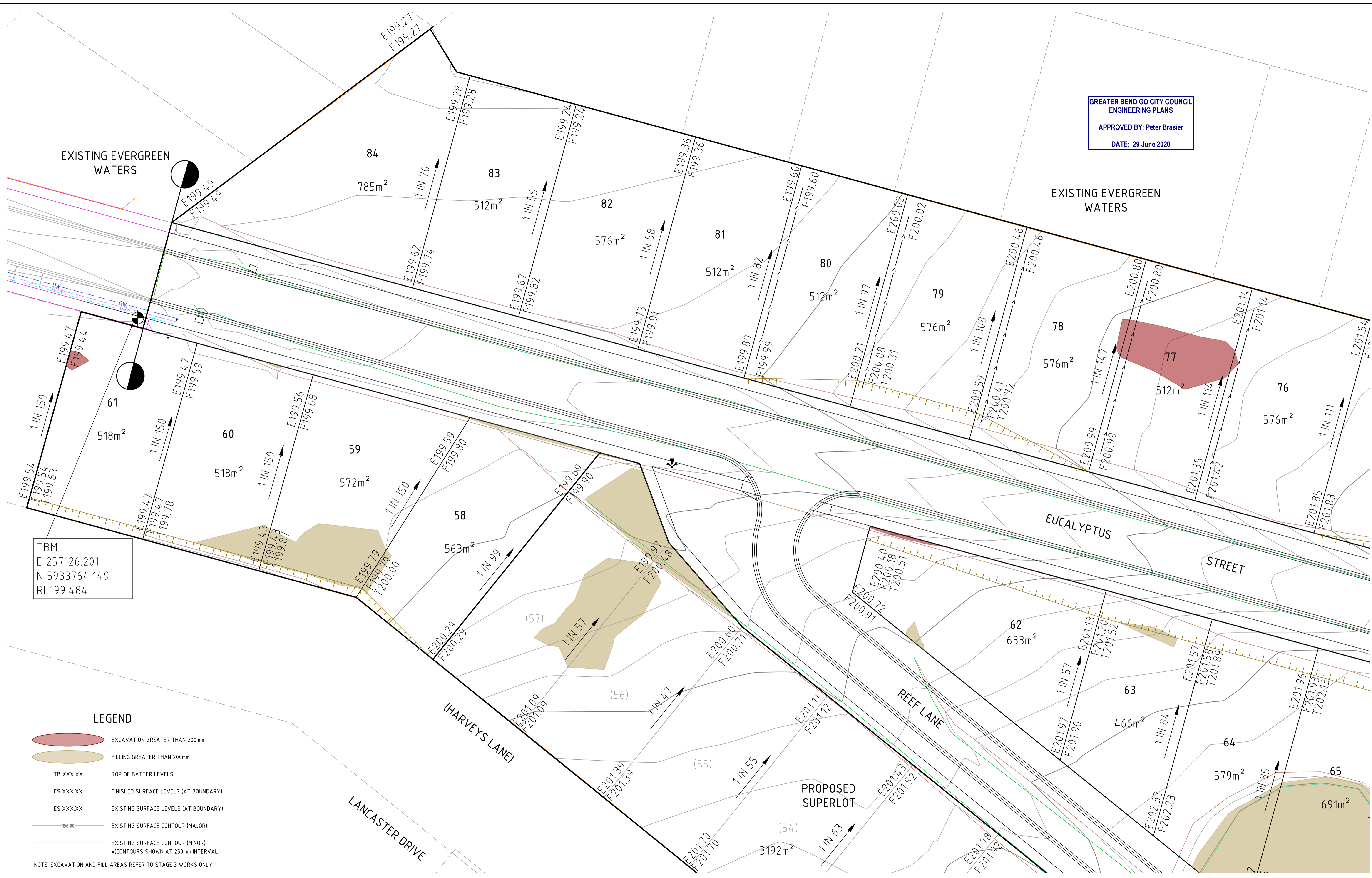
Designed H. OAKLEY-WARREN	Checked B. IBBS
Authorised B. IBBS	Date JUN 2020

**GOLDEN GROVE STAGE 3
EUCALYPTUS ST, JACKASS FLAT
ROAD & DRAINAGE LAYOUT PLAN
FACE PLAN 3**
CITY OF GREATER BENDIGO DS/226/2010 AND AM/904/2011A
WARRINGAL VIEWS P/L

PRELIMINARY Drg No 307310CR202 Rev A

file name: 307310CR2020.dwg layout name: CD2020, plotted by: Harry Oakley-Warren
 file location: G:\307310CR2020\civil\A1A1.dwg plot date: 16/06/2020 4:29 PM Sheet 1 of 21 Sheets

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 29 June 2020

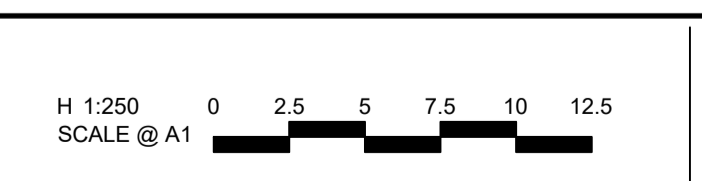


TBM
E 257126.201
N 5933764.149
RL199.484

- LEGEND**
- EXCAVATION GREATER THAN 200mm
 - FILLING GREATER THAN 200mm
 - TB XXX.XX TOP OF BATTER LEVELS
 - FS XXX.XX FINISHED SURFACE LEVELS (AT BOUNDARY)
 - ES XXX.XX EXISTING SURFACE LEVELS (AT BOUNDARY)
 - 56.00 EXISTING SURFACE CONTOUR (MAJOR)
 - EXISTING SURFACE CONTOUR (MINOR)
(CONTOURS SHOWN AT 250mm INTERVAL)
- NOTE: EXCAVATION AND FILL AREAS REFER TO STAGE 3 WORKS ONLY

file name: 307310CR203.dwg; layout name: CR203; plotted by: Harry Oakley-Warren; plot date: 26/06/2020; 4:28 PM; Sheet 5 of 21; Sheets

Rev	Description	Approved	Date
A	PRELIMINARY ISSUE	B. I.	JUN 2020
	Amendments		



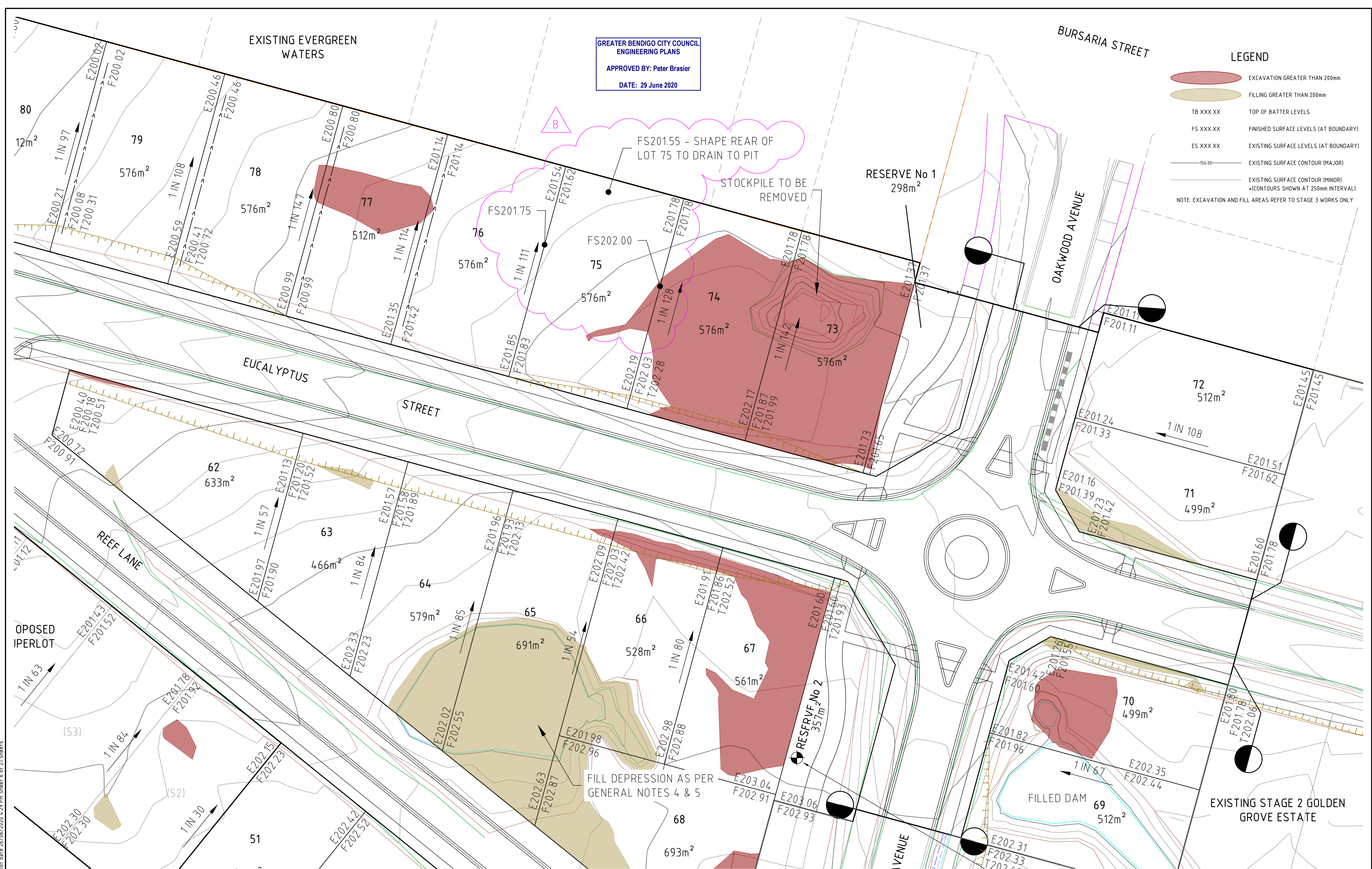
© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

16 Bridge Street Bendigo
Victoria 3550 Australia T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

Designed H. OAKLEY-WARREN	Checked B. IBBS
Authorised B. IBBS	Date JUN 2020

**GOLDEN GROVE STAGE 3
EUCALYPTUS ST, JACKASS FLAT
ROAD & DRAINAGE LAYOUT PLAN
EARTHWORKS PLAN**
CITY OF GREATER BENDIGO DS/226/2010 AND AM/904/2011A
WARRINGAL VIEWS P/L

PRELIMINARY Drg No **307310CR203** Rev **A**

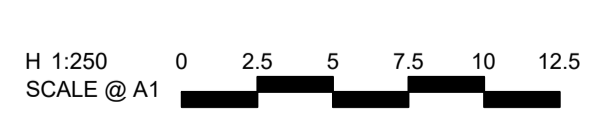


GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 29 June 2020

- LEGEND**
- EXCAVATION GREATER THAN 200mm
 - FILLING GREATER THAN 200mm
 - TB XXX.XX TOP OF BATTER LEVELS
 - FS XXX.XX FINISHED SURFACE LEVELS (AT BOUNDARY)
 - ES XXX.XX EXISTING SURFACE LEVELS (AT BOUNDARY)
 - 56.00 EXISTING SURFACE CONTOUR (MAJOR)
 - EXISTING SURFACE CONTOUR (MINOR)
 - (CONTOURS SHOWN AT 250mm INTERVAL)
 - NOTE: EXCAVATION AND FILL AREAS REFER TO STAGE 3 WORKS ONLY

file name: 307310CR204.dwg, layout name: CR204, plotted by: Harry Oakley-Warren
 file location: G:\307310\307310\WARRINGAL\CR204.dwg plot date: 26/06/2020 02:29 PM Sheet 6 of 21 Sheets

Rev	Amendments	Approved	Date
B	ADJUSTED FS LEVELS	B. I.	JUN 2020
A	PRELIMINARY ISSUE	B. I.	JUN 2020



© Spiire Australia Pty Ltd All Rights Reserved
 This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



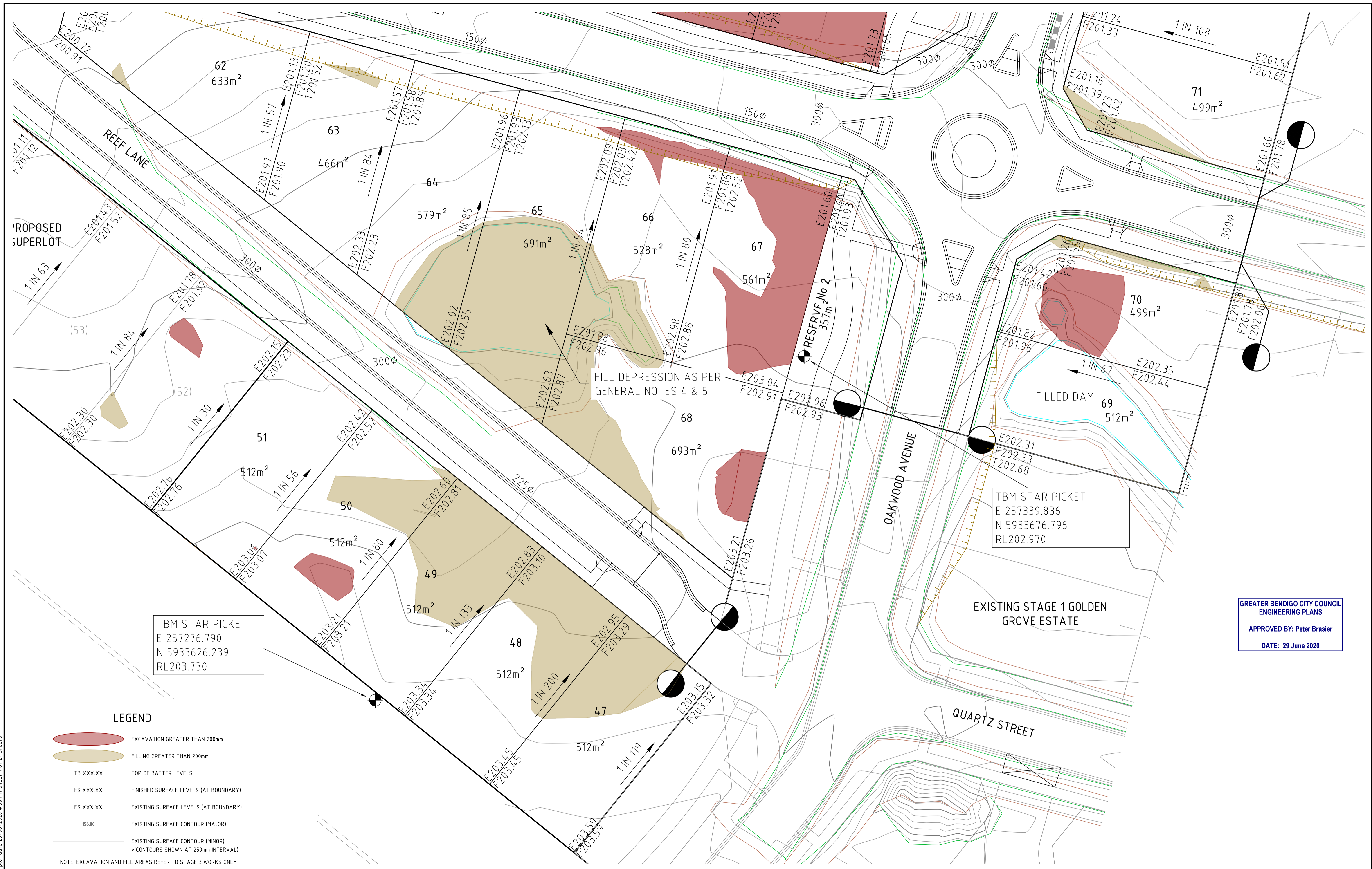
16 Bridge Street Bendigo
 Victoria 3550 Australia T 61 3 5448 2500
 spiire.com.au ABN 55 050 029 635

Designed
 H. OAKLEY-WARREN
 Authorised
 B. IBBS

Checked
 B. IBBS
 Date
 JUN 2020

**GOLDEN GROVE STAGE 3
 EUCALYPTUS ST, JACKASS FLAT
 ROAD & DRAINAGE LAYOUT PLAN
 EARTHWORKS PLAN
 CITY OF GREATER BENDIGO DS/226/2010 AND AM/904/2011A
 WARRINGAL VIEWS P/L**

PRELIMINARY Drg No 307310CR204 Rev B



TBM STAR PICKET
 E 257276.790
 N 5933626.239
 RL203.730

TBM STAR PICKET
 E 257339.836
 N 5933676.796
 RL202.970

GREATER BENDIGO CITY COUNCIL
 ENGINEERING PLANS
 APPROVED BY: Peter Brasier
 DATE: 29 June 2020

LEGEND

- EXCAVATION GREATER THAN 200mm
- FILLING GREATER THAN 200mm
- TB XXX.XX TOP OF BATTER LEVELS
- FS XXX.XX FINISHED SURFACE LEVELS (AT BOUNDARY)
- ES XXX.XX EXISTING SURFACE LEVELS (AT BOUNDARY)
- 156.00 EXISTING SURFACE CONTOUR (MAJOR)
- EXISTING SURFACE CONTOUR (MINOR) (CONTOURS SHOWN AT 250mm INTERVAL)

NOTE: EXCAVATION AND FILL AREAS REFER TO STAGE 3 WORKS ONLY



© Spiire Australia Pty Ltd All Rights Reserved
 This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



16 Bridge Street Bendigo
 Victoria 3550 Australia T 61 3 5448 2500
 spiire.com.au ABN 55 050 029 635

Designed
 H. OAKLEY-WARREN
 Authorised
 B. IBBS

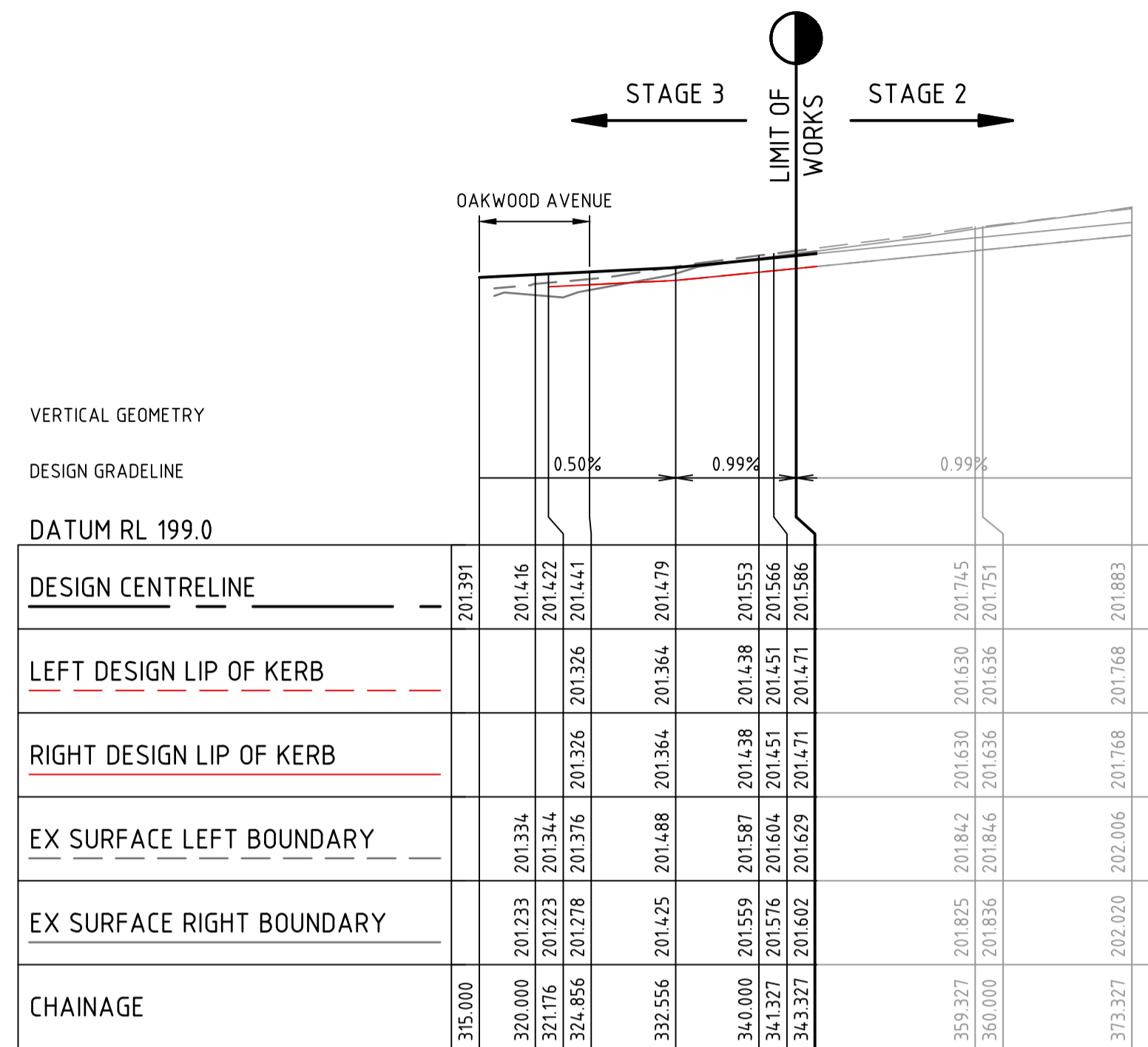
Checked
 B. IBBS
 Date
 JUN 2020

**GOLDEN GROVE STAGE 3
 EUCALYPTUS ST, JACKASS FLAT
 ROAD & DRAINAGE LAYOUT PLAN
 EARTHWORKS PLAN
 CITY OF GREATER BENDIGO DS/226/2010 AND AM/904/2011A
 WARRINGAL VIEWS P/L**

PRELIMINARY Drg No 307310CR205 Rev A

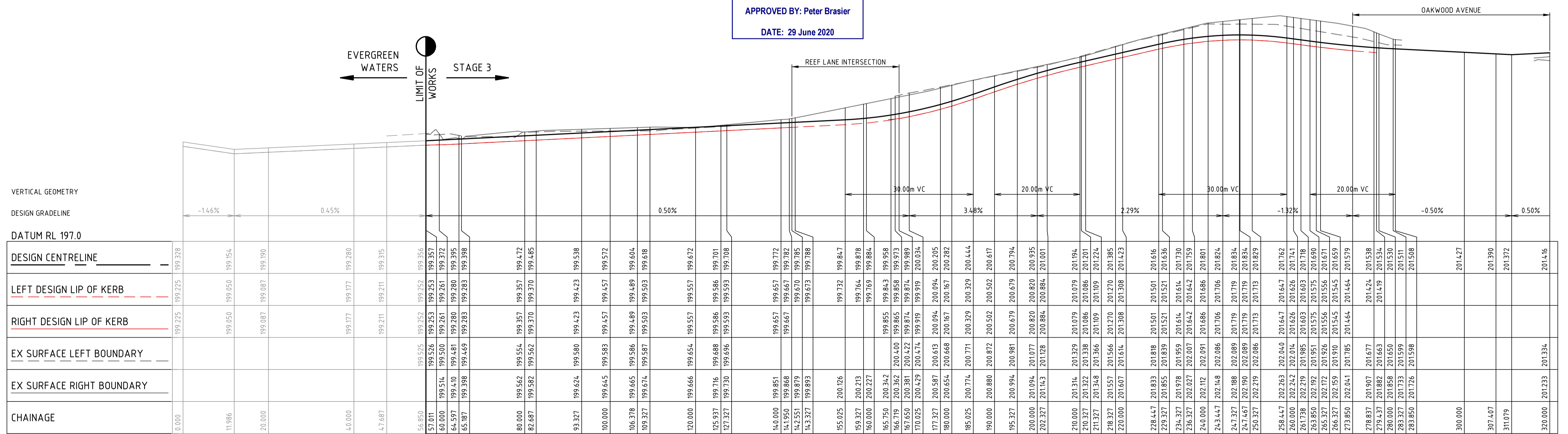
file name: 307310CR205.dwg layout: cems: CD205, plotted by: Harry Oakley-Warren
 file location: G:\307310\307310\WARRINGAL\A1.dwg plot date: 26/06/2020 4:30 PM Sheet 1 of 21 Sheets

Rev	Description	Approved	Date
A	PRELIMINARY ISSUE	B. I.	JUN 2020
	Amendments		



EUCALYPTUS STREET

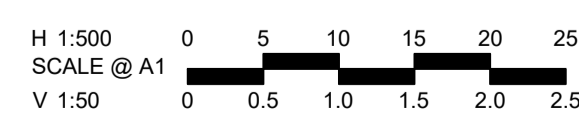
GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 29 June 2020



EUCALYPTUS STREET

file name: 307310CR300.dwg, layout name: G300, plotted by: Harry Oakley-Warren, file location: G:\307310\307310\CAD\plot date: 16/06/2020 4:30 PM, Sheet 8 of 21, Sheets

Rev	Description	By	Date
A	PRELIMINARY ISSUE	B. I.	JUN 2020
	Amendments	Approved	Date



© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



16 Bridge Street Bendigo
Victoria 3550 Australia T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

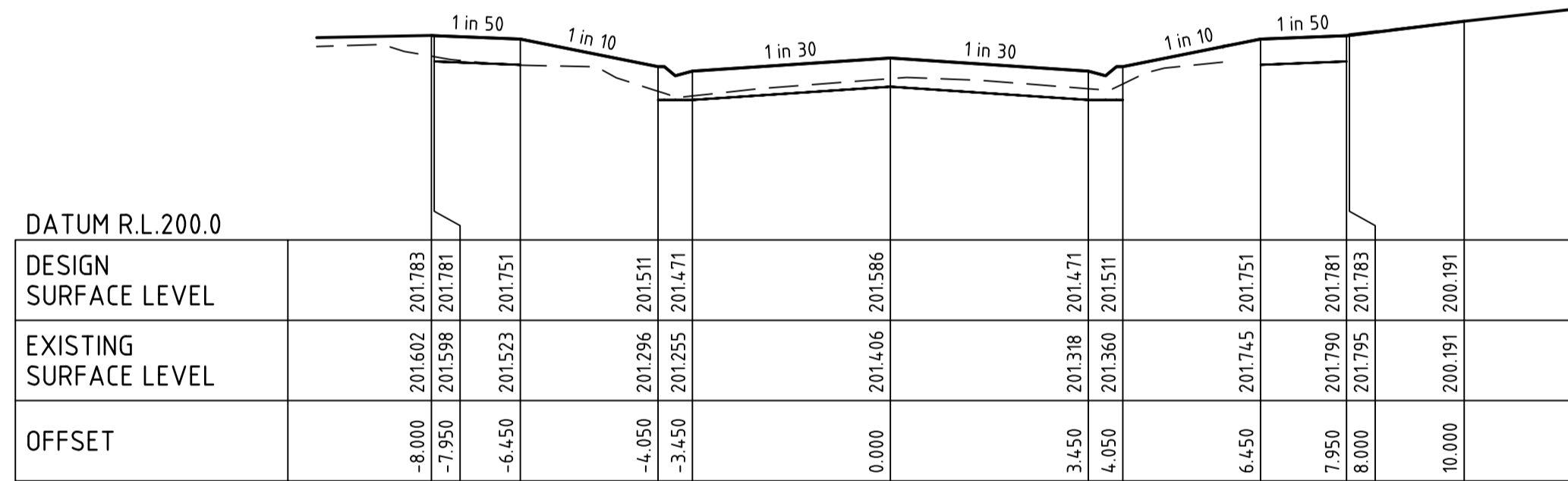
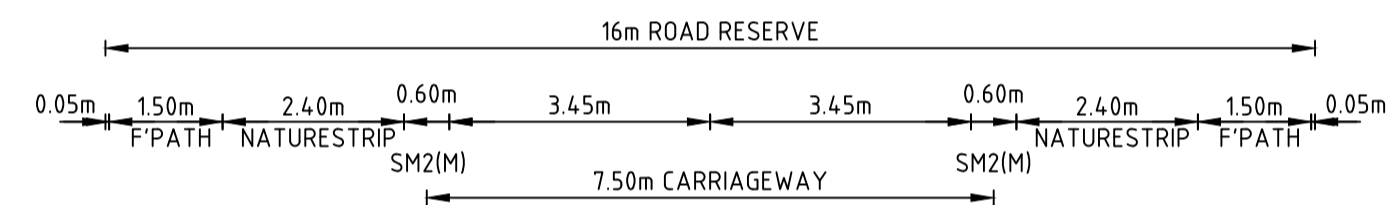
Designed
H. OAKLEY-WARREN
Authorised
B. IBBS

Checked
B. IBBS
Date
JUN 2020

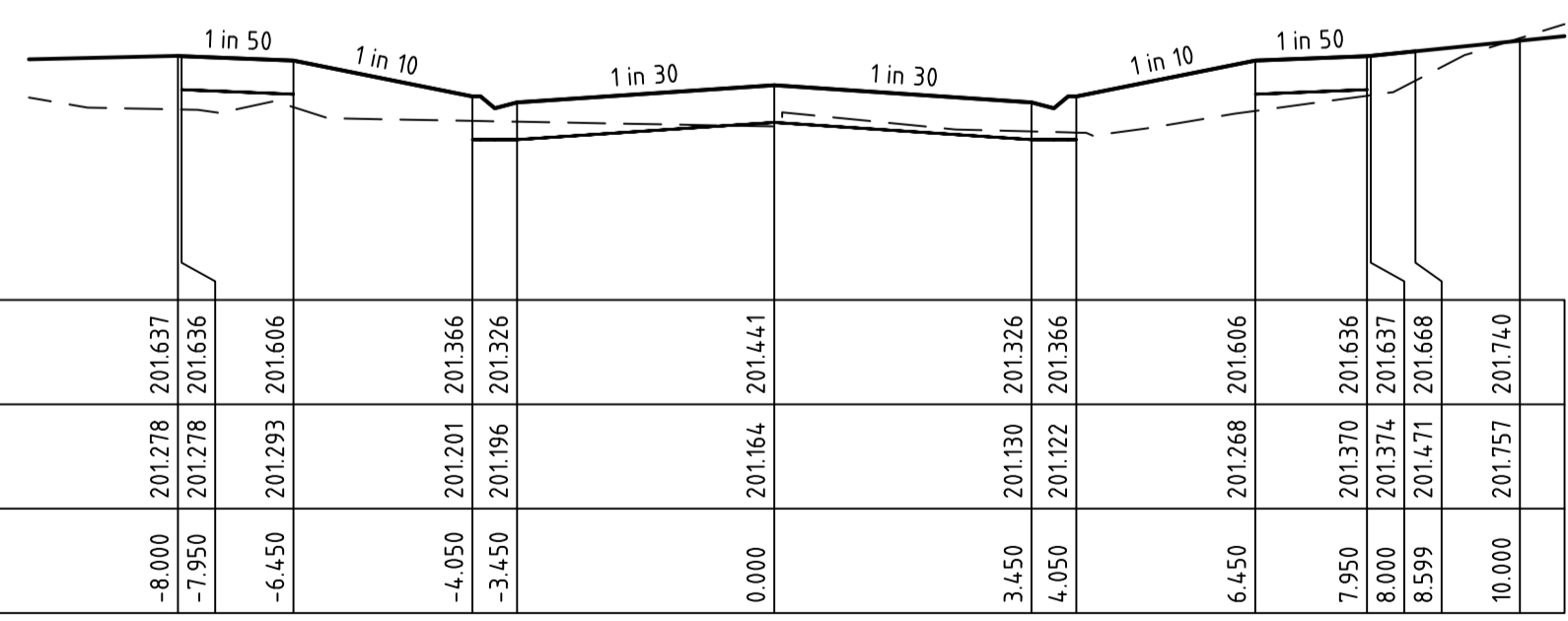
GOLDEN GROVE STAGE 3
EUCALYPTUS ST, JACKASS FLAT
ROAD LONGITUDINAL SECTIONS
EUCALYPTUS STREET
CITY OF GREATER BENDIGO DS/226/2010 AND AM/904/2011A
WARRINGAL VIEWS P/L

PRELIMINARY Drg No **307310CR300** Rev **A**

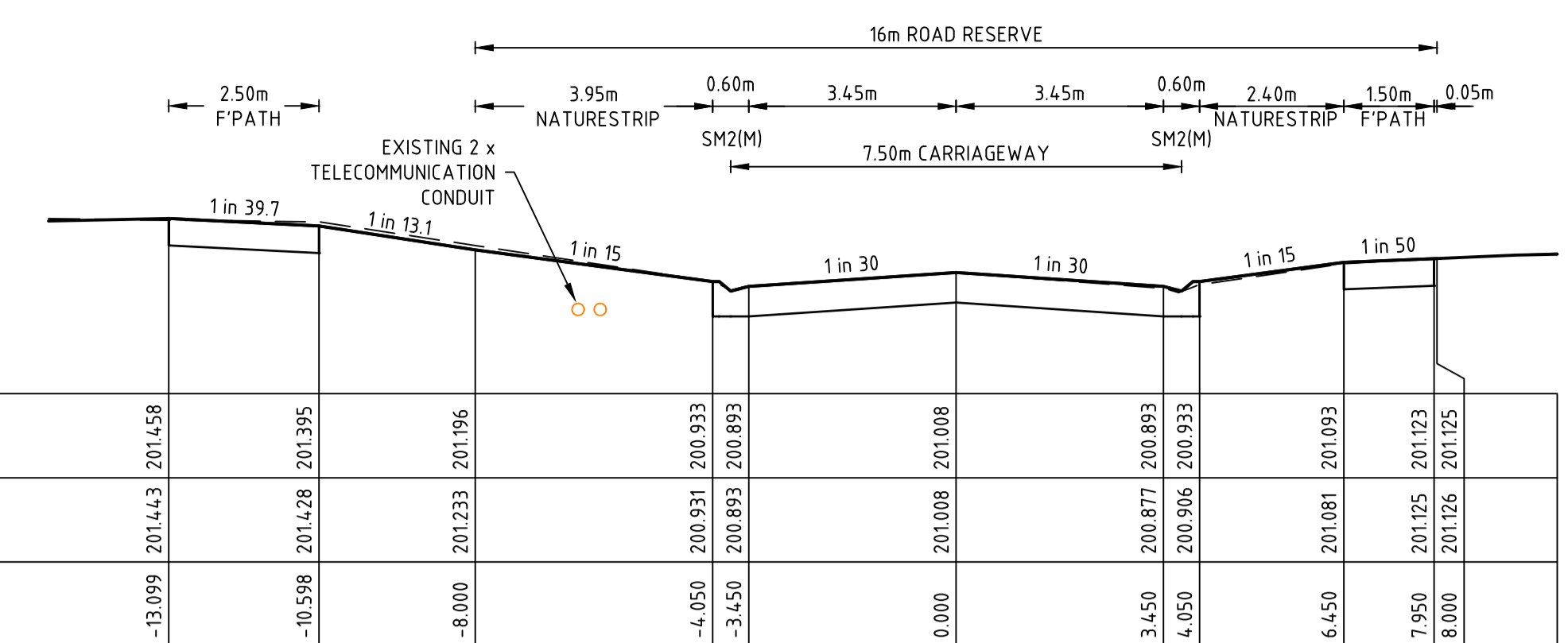
file name: 307310CR401.dwg; layout name: CR401; plotted by: HARRIS, OAKLEY-WARREN
 file location: G:\307310\307310\WARRINGAL\CR401.dwg; plot date: 06/06/2020 4:30 PM; sheet 11 of 21 sheets



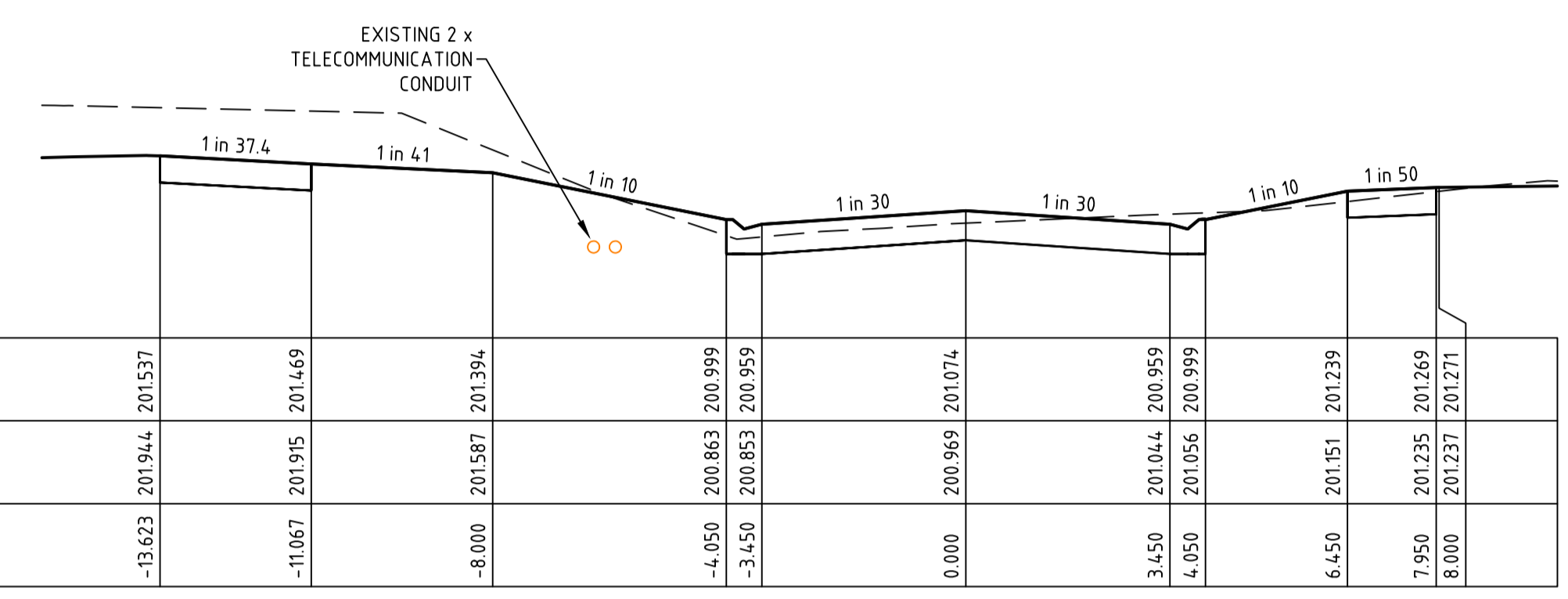
EUCALYPTUS STREET CH 343.33



EUCALYPTUS STREET CH 324.86

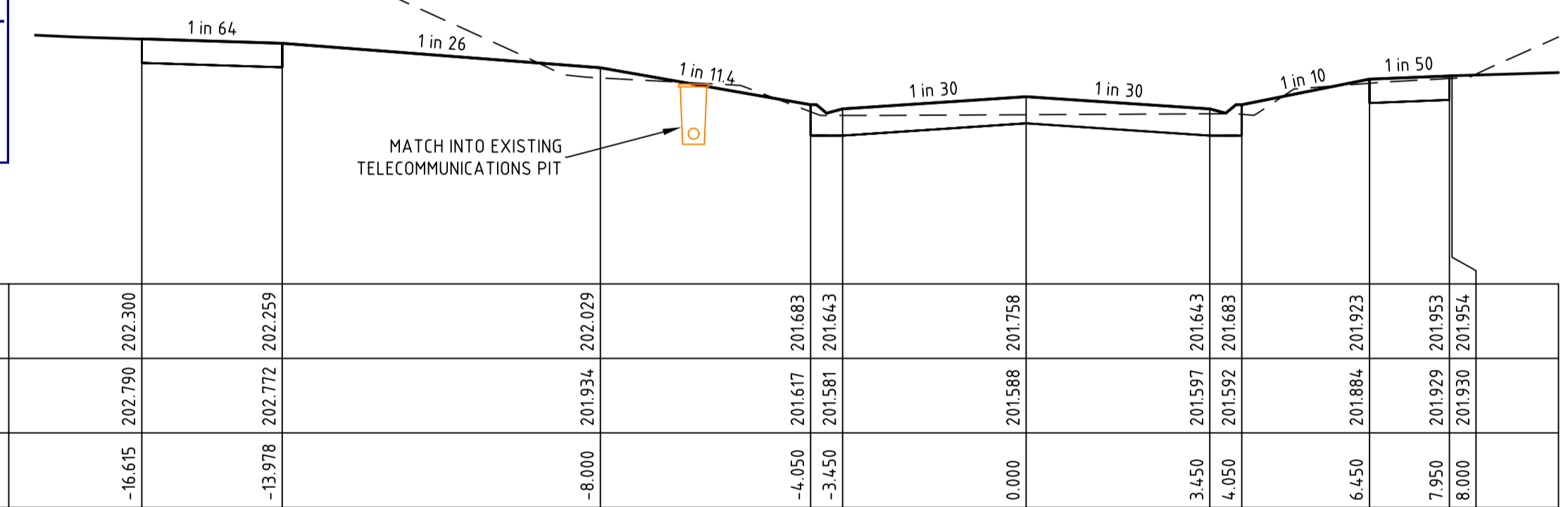


OAKWOOD AVENUE CH 193.90

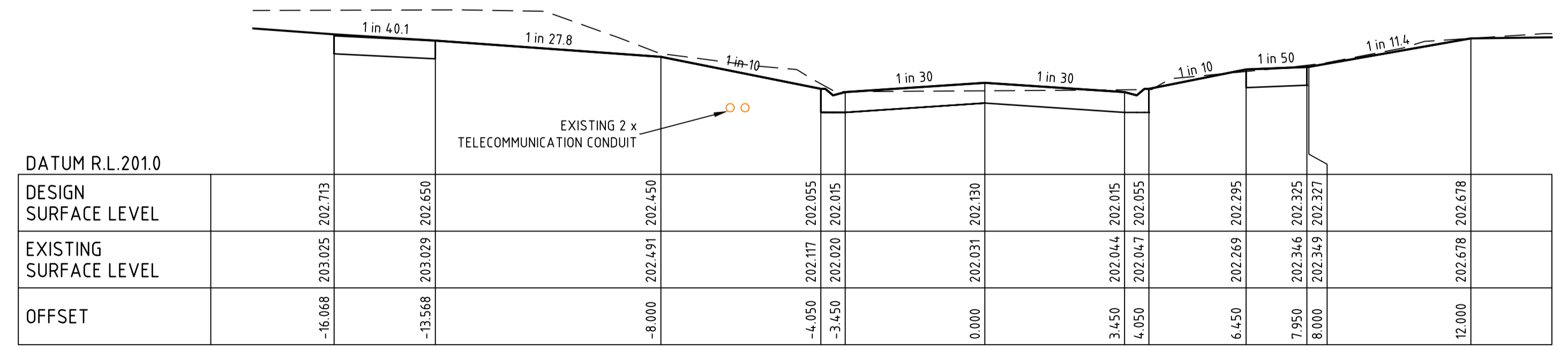


OAKWOOD AVENUE CH 185.44

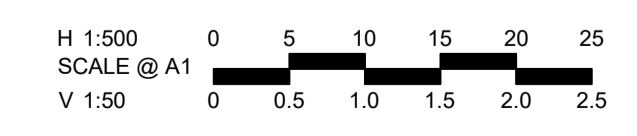
**GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS**
 APPROVED BY: Peter Brasier
 DATE: 29 June 2020



OAKWOOD AVENUE CH 132.02



OAKWOOD AVENUE CH 115.93



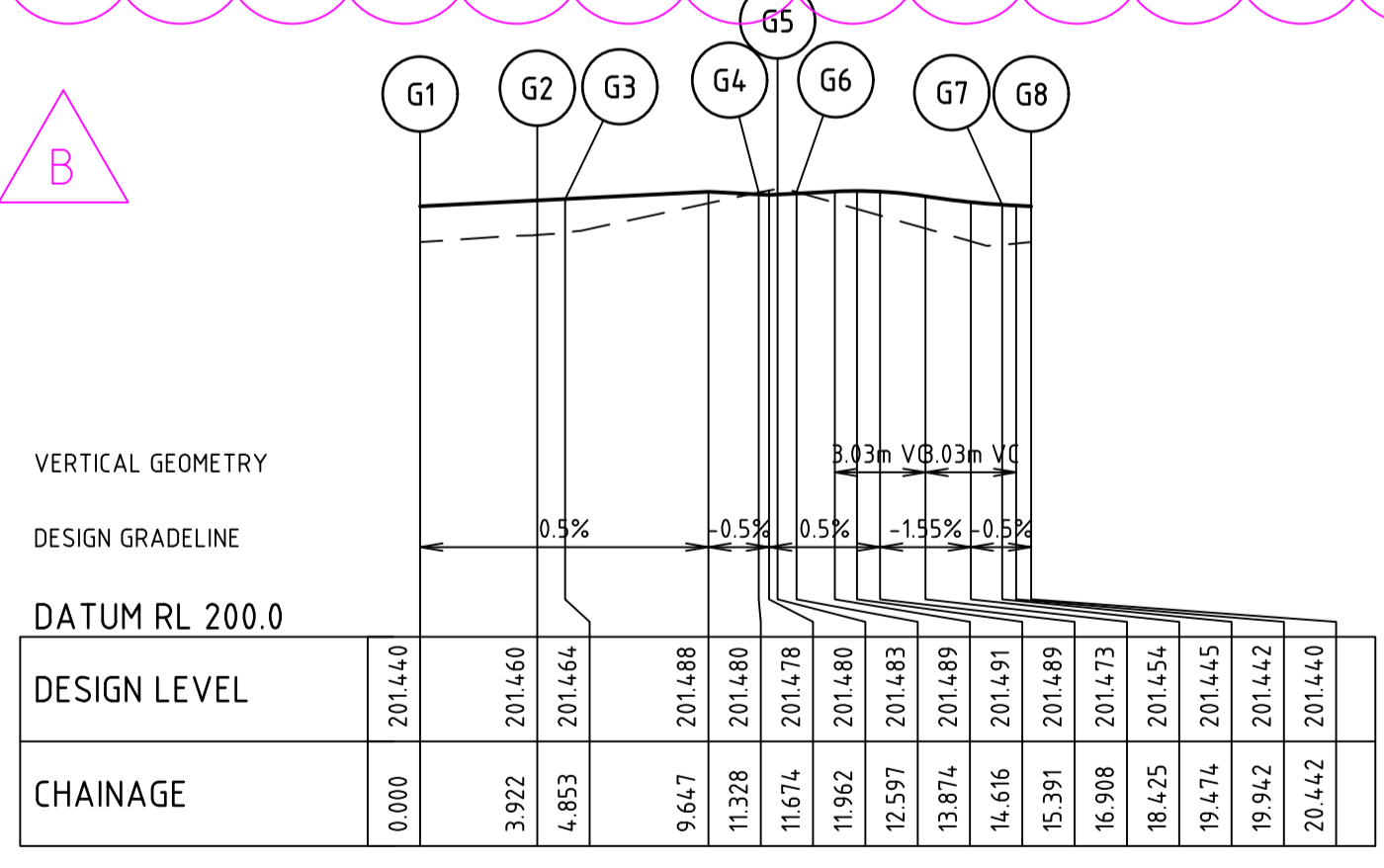
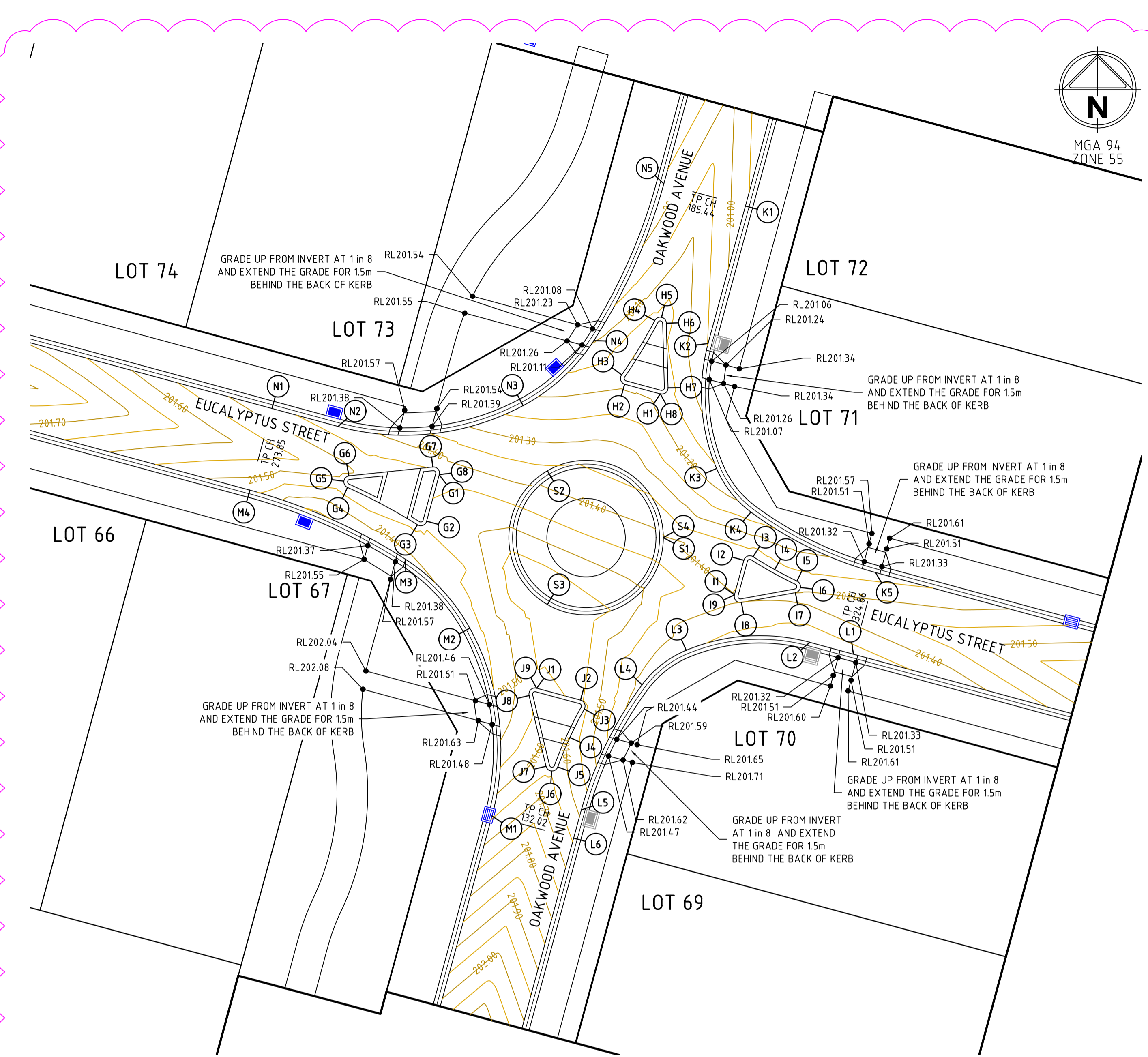
© Spiire Australia Pty Ltd All Rights Reserved
 This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

spiire
 16 Bridge Street Bendigo
 Victoria 3550 Australia T 61 3 5448 2500
 spiire.com.au ABN 55 050 029 635

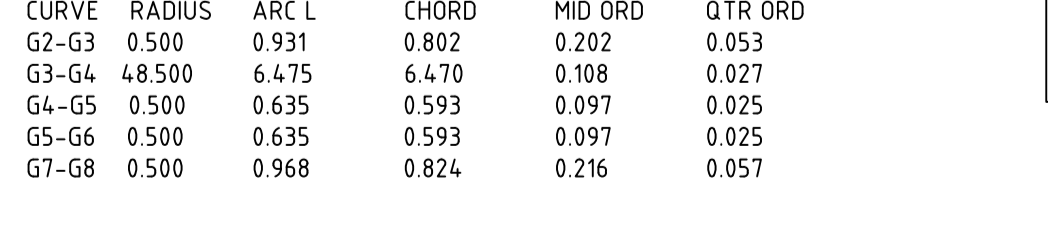
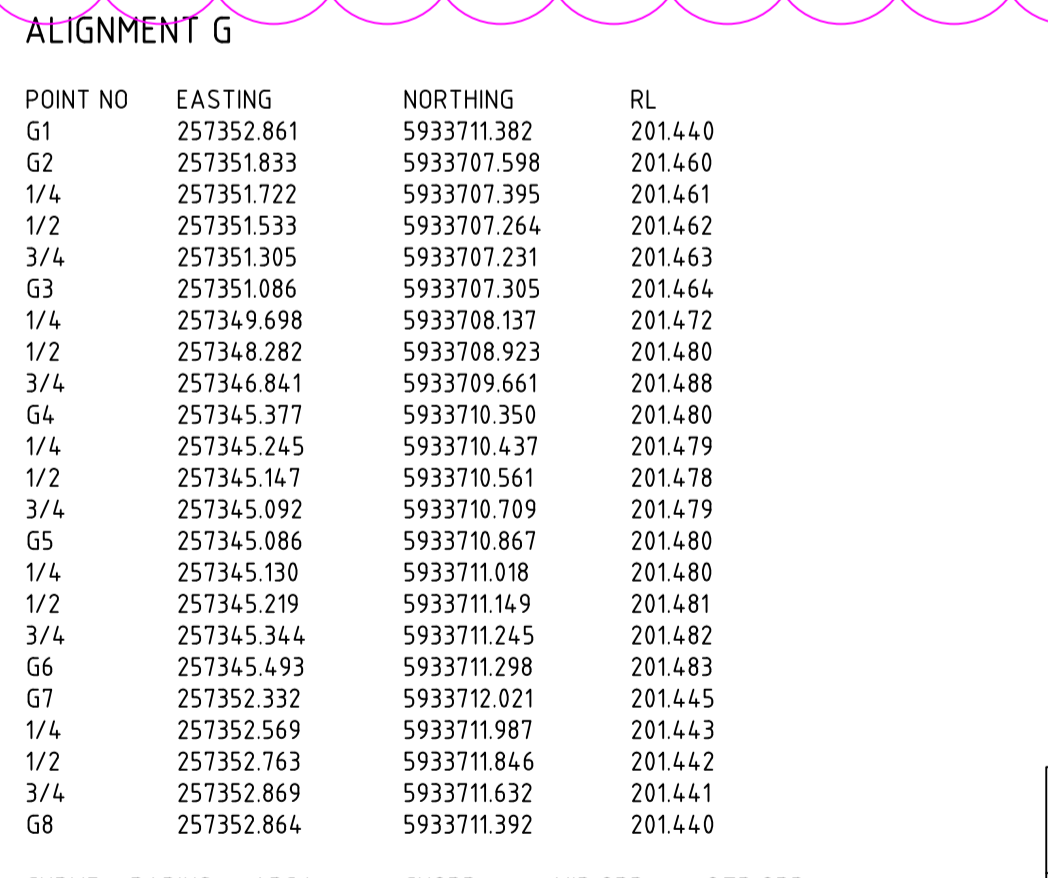
Designed
H. OAKLEY-WARREN
 Authorised
B. IBBS
 Checked
B. IBBS
 Date
JUN 2020

**GOLDEN GROVE STAGE 3
EUCALYPTUS ST, JACKASS FLAT
ROAD CROSS SECTIONS
EUCALYPTUS ST & OAKWOOD AVE
CITY OF GREATER BENDIGO DS/226/2010 AND AM/904/2011A
WARRINGAL VIEWS P/L**
PRELIMINARY Drg No **307310CR401** Rev **A**

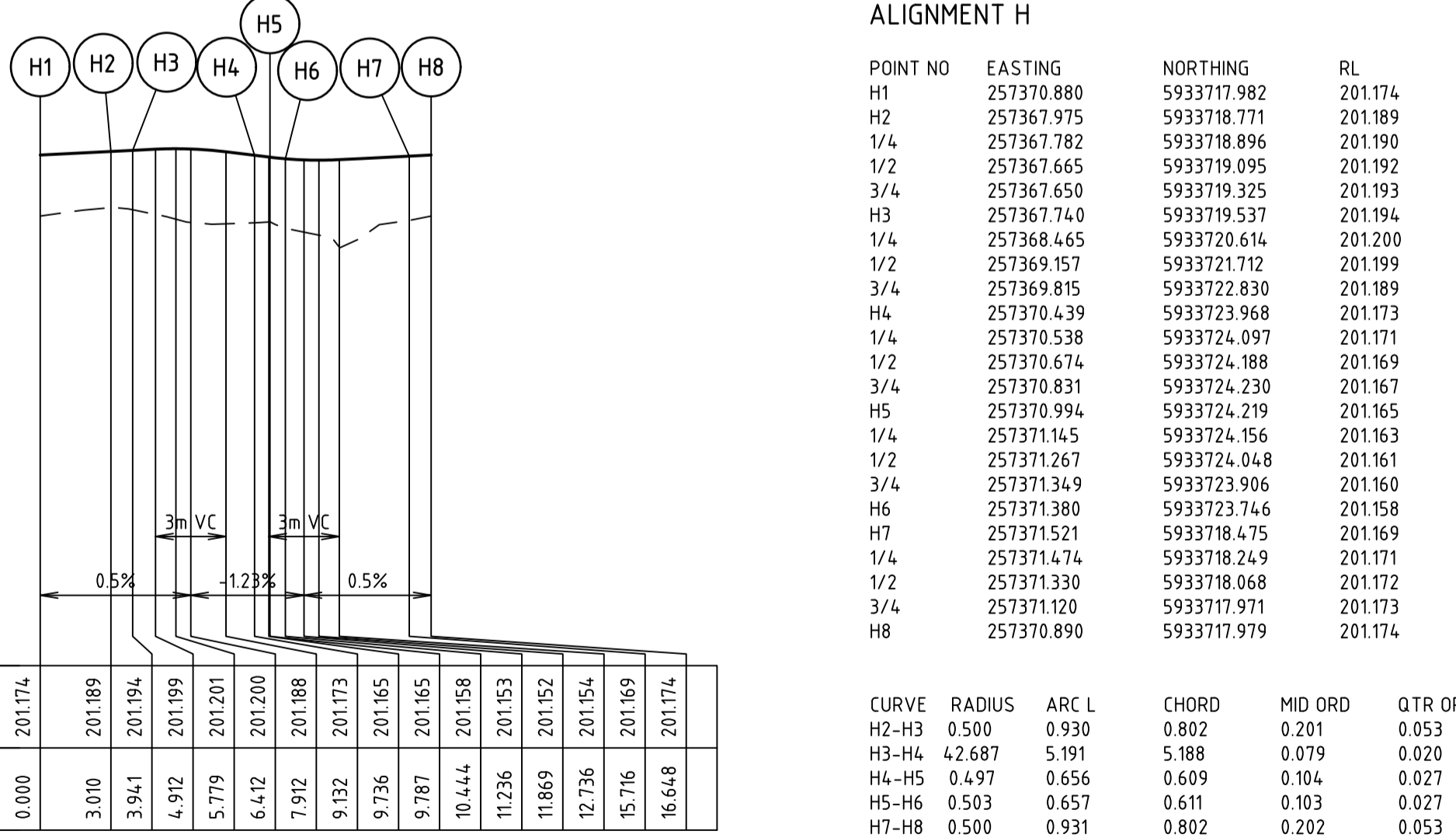
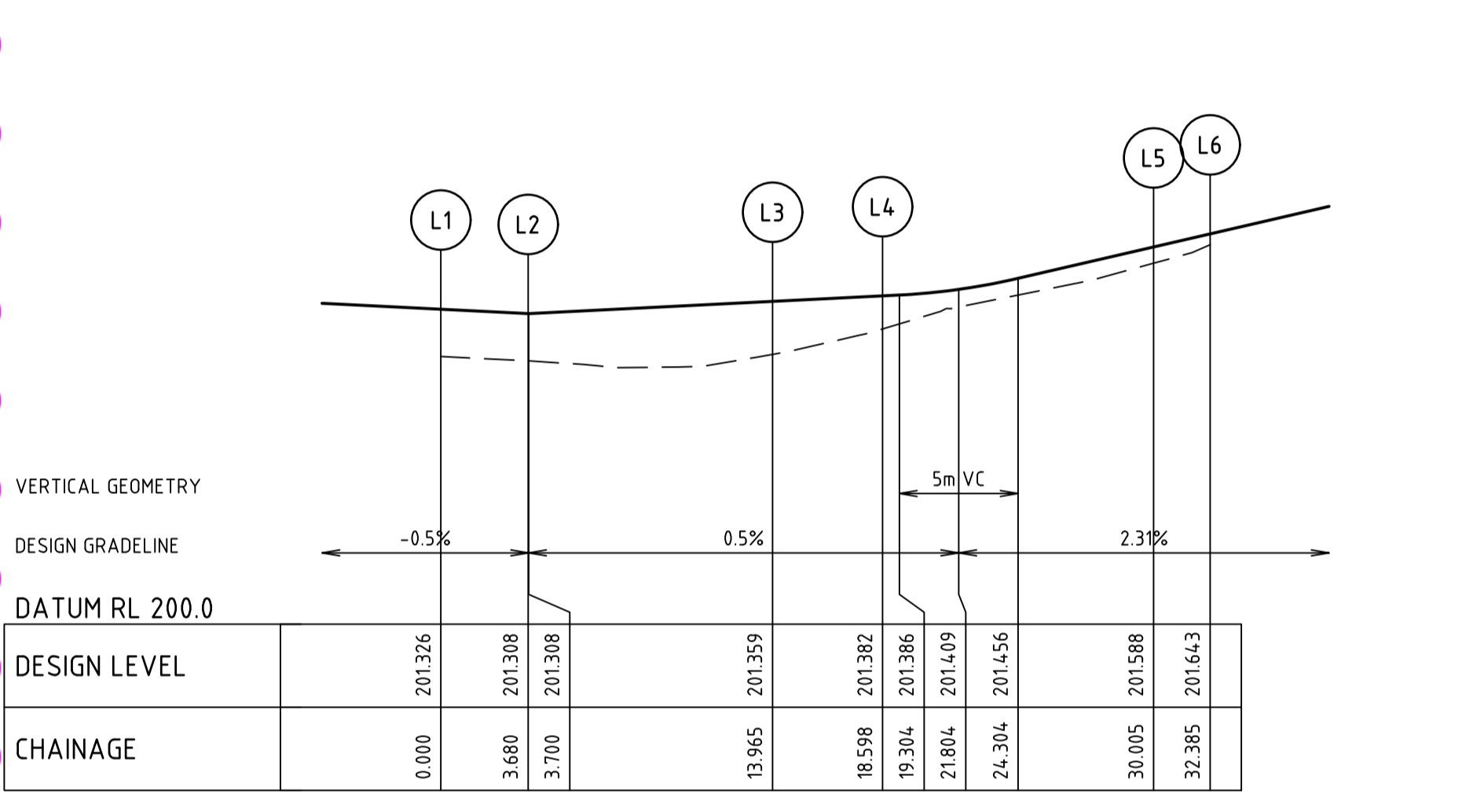
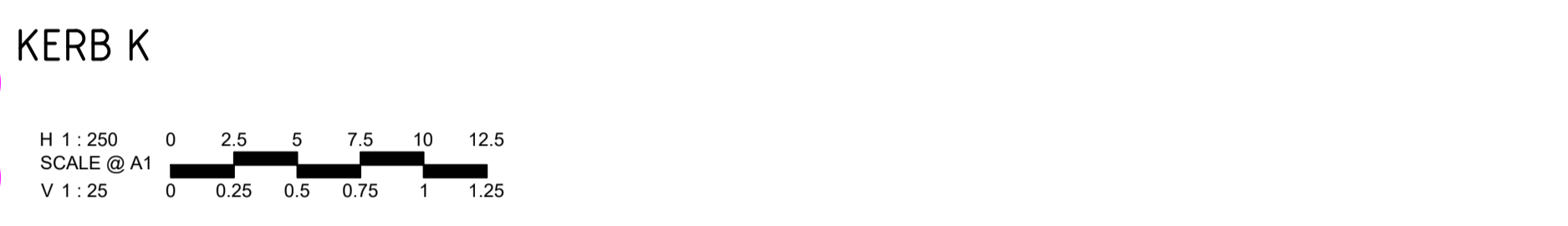
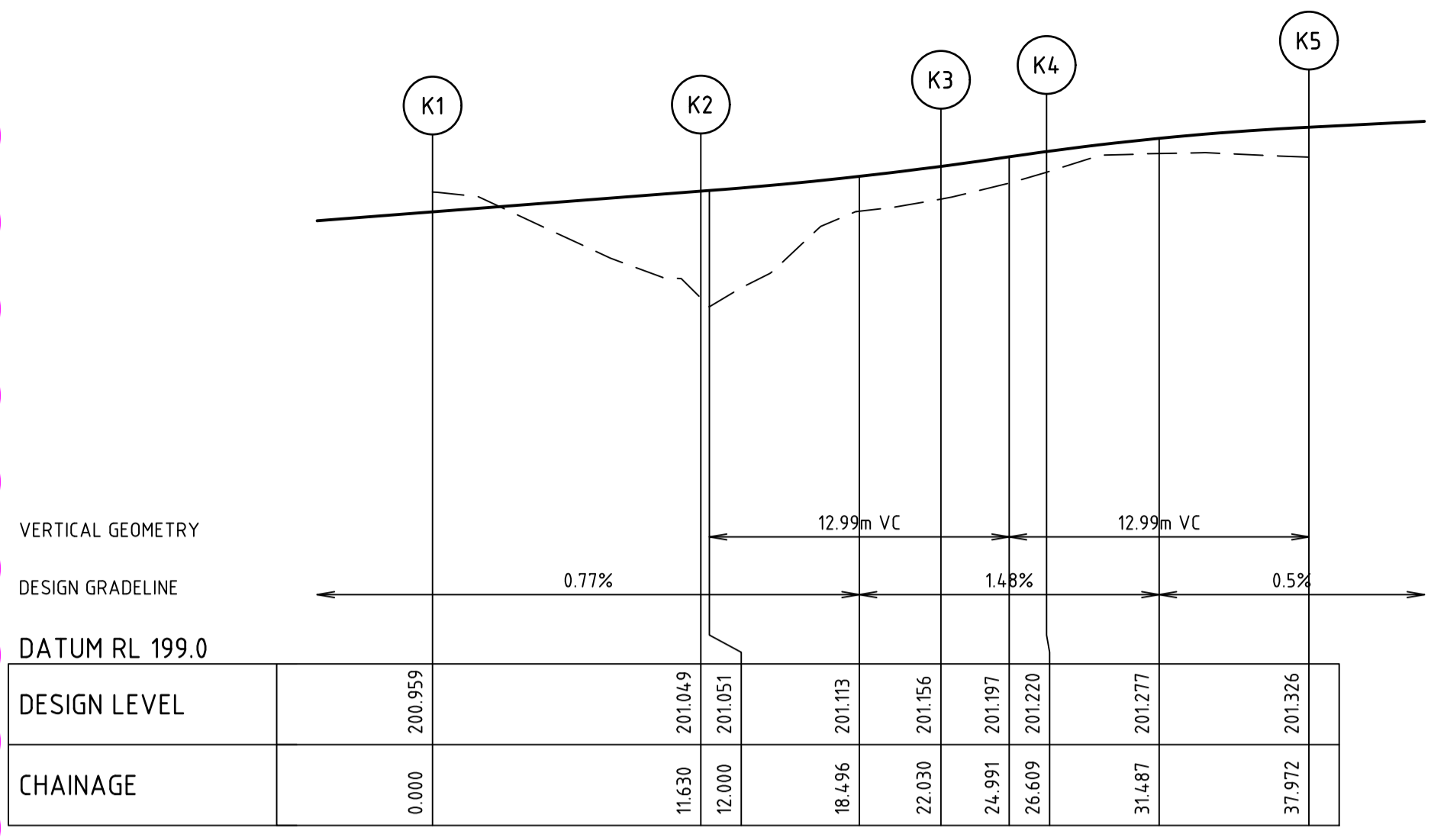
Rev	Description	Approved	Date
A	PRELIMINARY ISSUE	B. I.	JUN 2020
	Amendments		



Rev	Description	Approved	Date
B	AMENDED FOOTPATH CROSSING LOCATION ON OAKWOOD AVE	B. I.	JUN 2020
A	PRELIMINARY ISSUE	B. I.	JUN 2020
	Amendments	Approved	Date



Rev	Description	Approved	Date
B	AMENDED FOOTPATH CROSSING LOCATION ON OAKWOOD AVE	B. I.	JUN 2020
A	PRELIMINARY ISSUE	B. I.	JUN 2020
	Amendments	Approved	Date



Rev	Description	Approved	Date
B	AMENDED FOOTPATH CROSSING LOCATION ON OAKWOOD AVE	B. I.	JUN 2020
A	PRELIMINARY ISSUE	B. I.	JUN 2020
	Amendments	Approved	Date

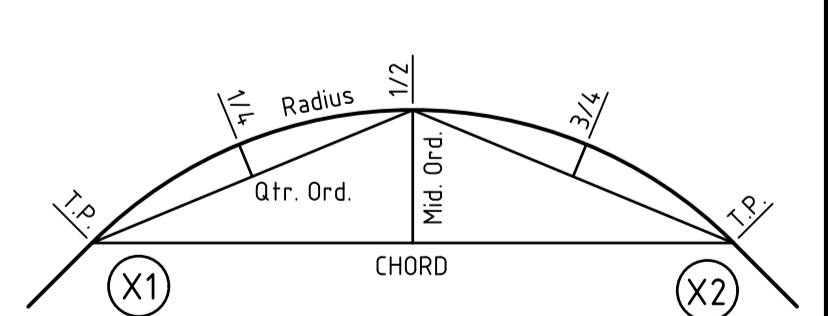
POINT NO	EASTING	NORTHING	RL
K1	257377.834	5933733.304	200.959
K2	257374.784	5933722.081	201.049
1/4	257374.314	5933719.527	201.070
1/2	257374.274	5933716.930	201.095
3/4	257374.665	5933714.363	201.124
K3	257375.477	5933711.896	201.156
1/4	257375.993	5933710.875	201.171
1/2	257376.640	5933709.932	201.188
3/4	257377.406	5933709.082	201.204
K4	257378.279	5933708.342	201.220
1/4	257380.637	5933706.761	201.256
1/2	257383.132	5933705.405	201.285
3/4	257385.742	5933704.286	201.308
K5	257388.445	5933703.414	201.326

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
K2-K3	15.600	10.400	10.208	0.859	0.216
K3-K4	8.600	4.579	4.526	0.303	0.076
K4-K5	30.600	11.363	11.298	0.526	0.132

POINT NO	EASTING	NORTHING	RL
L1	257386.635	5933696.756	2013.26
L2	257383.085	5933697.721	2013.08
1/4	257380.559	5933698.189	2013.20
1/2	257377.991	5933698.235	2013.33
3/4	257375.450	5933697.860	2013.46
L3	257373.005	5933697.072	2013.59
1/4	257371.969	5933696.557	2013.65
1/2	257371.011	5933695.908	2013.70
3/4	257370.149	5933695.136	2013.76
L4	257369.399	5933694.255	2013.82
1/4	257367.809	5933691.888	2014.05
1/2	257366.446	5933689.384	2014.56
3/4	257365.323	5933686.764	2015.22
L5	257364.448	5933684.051	2015.88
L6	257363.823	5933681.754	2016.43

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
L2-L3	15.600	10.286	10.100	0.840	0.211
L3-L4	8.600	4.633	4.571	0.310	0.078
L4-L5	30.600	11.407	11.342	0.530	0.133

**GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS**
APPROVED BY: Peter Brasier
DATE: 29 June 2020



KERB RETURN SETOUT DETAIL

file name: 307310CR500.dwg, layout name: C5E500, plotted by: Harry Oakley-Warren, file location: G:\307310CR500\civil\CAD\plot date: 16/06/2020 4:31 PM, Sheet 10 of 21, Sheets

AS SHOWN



© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



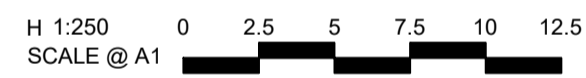
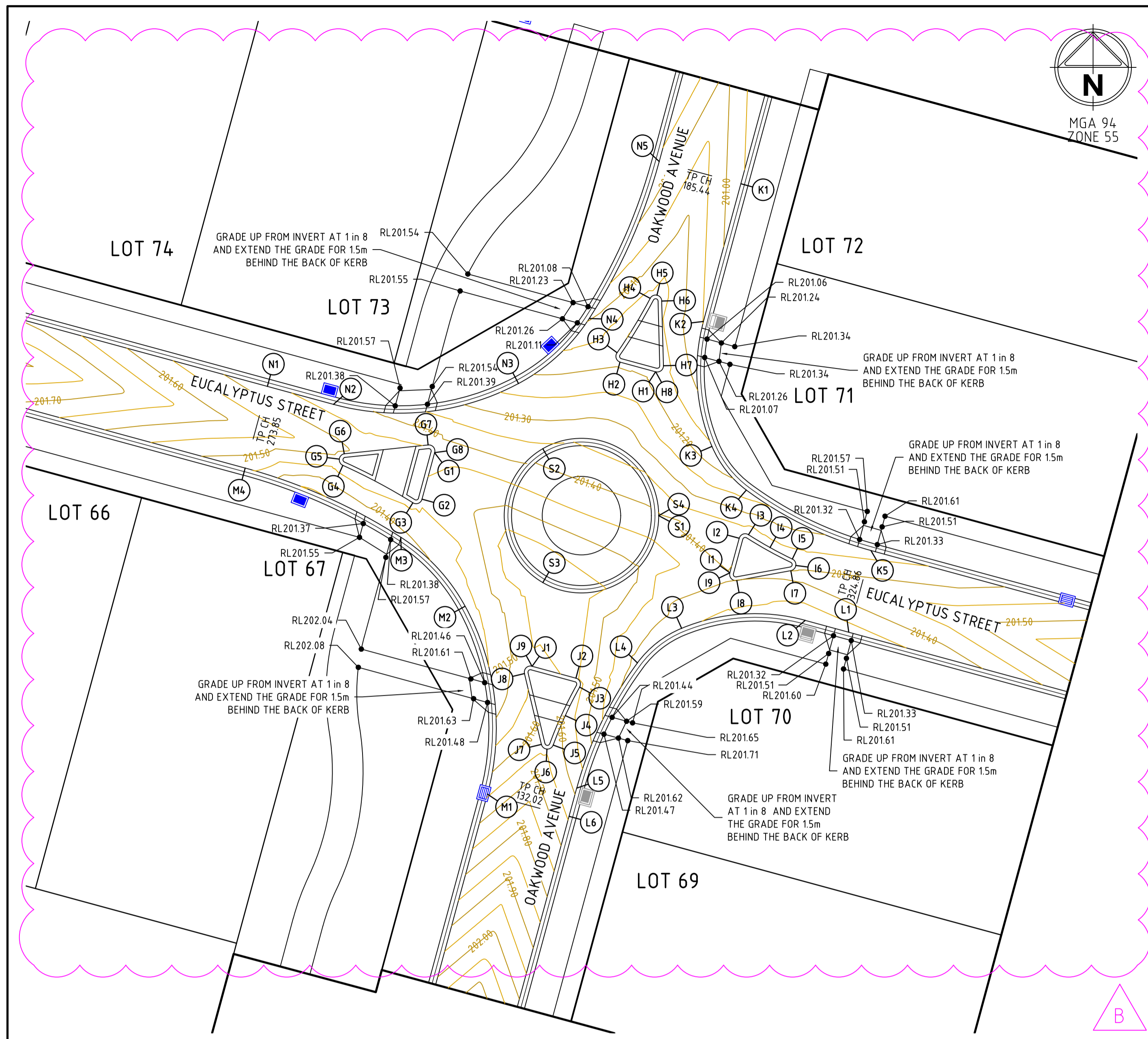
16 Bridge Street Bendigo
Victoria 3550 Australia T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

Designed
H. OAKLEY-WARREN
Authorised
B. IBBS

Checked
B. IBBS
Date
JUN 2020

**GOLDEN GROVE STAGE 3
EUCALYPTUS ST, JACKASS FLAT
INTERSECTION DETAILS
EUCALYPTUS ST & OAKWOOD AVE
CITY OF GREATER BENDIGO DS/226/2010 AND AM/904/2011A
WARRINGAL VIEWS P/L**

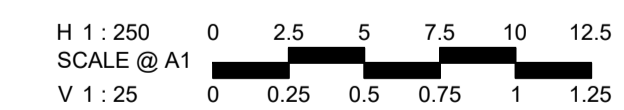
PRELIMINARY Drg No **307310CR500** Rev **B**



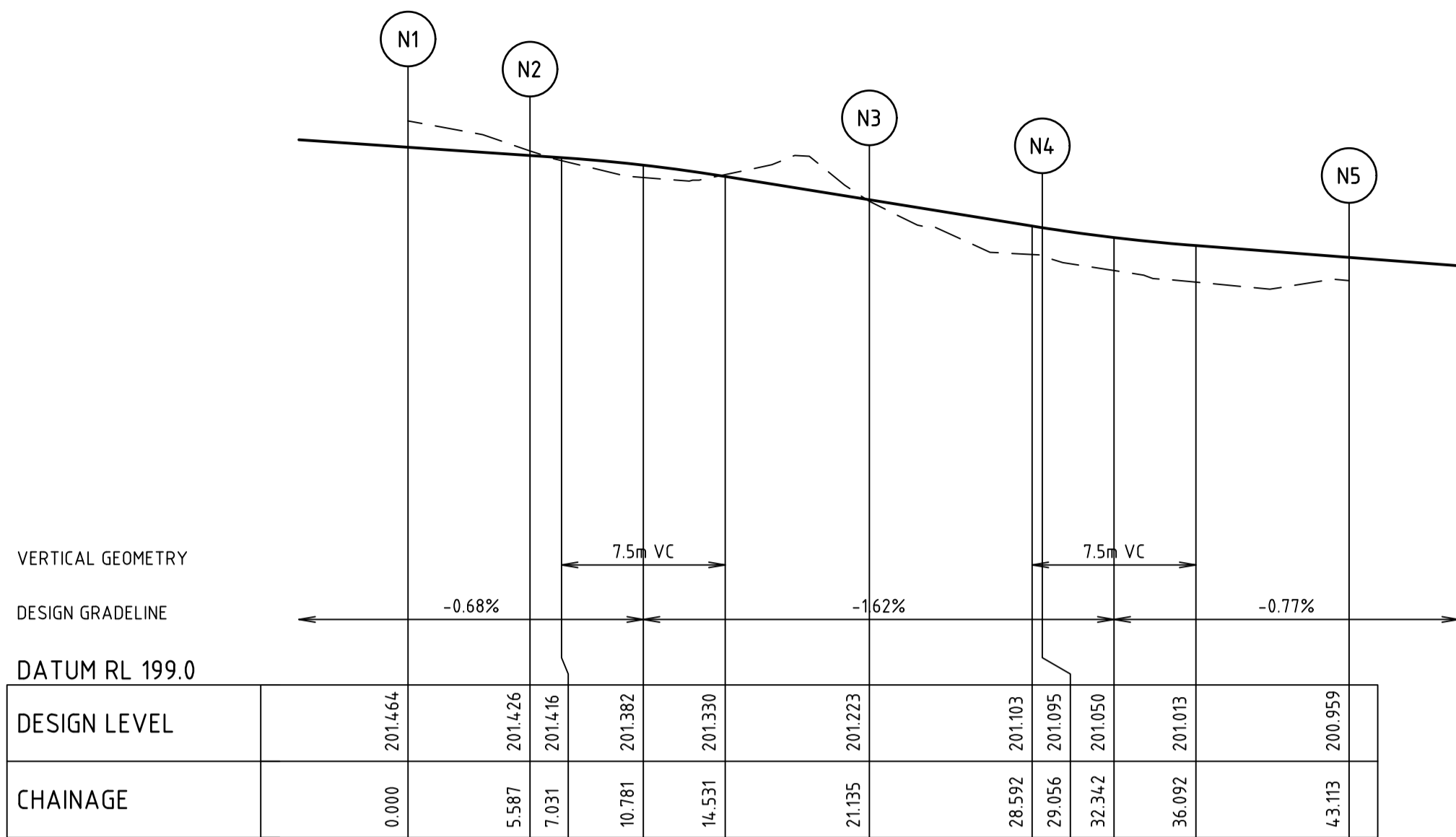
ALIGNMENT I

POINT NO	EASTING	NORTHING	RL
I1	257376.939	5933701.602	201.403
I2	257377.703	5933704.413	201.388
1/4	257377.814	5933704.617	201.387
1/2	257378.005	5933704.748	201.386
3/4	257378.236	5933704.779	201.385
I3	257378.455	5933704.703	201.384
1/4	257378.888	5933704.431	201.381
1/2	257379.325	5933704.165	201.379
3/4	257379.767	5933703.907	201.376
I4	257380.213	5933703.655	201.373
1/4	257380.662	5933703.411	201.372
1/2	257381.116	5933703.172	201.372
3/4	257381.572	5933702.941	201.374
I5	257382.032	5933702.716	201.379
1/4	257382.161	5933702.627	201.381
1/2	257382.256	5933702.503	201.383
3/4	257382.308	5933702.356	201.385
I6	257382.312	5933702.199	201.387
1/4	257382.267	5933702.049	201.390
1/2	257382.178	5933701.920	201.393
3/4	257382.054	5933701.825	201.396
I7	257381.906	5933701.773	201.399
I8	257377.509	5933700.969	201.413
1/4	257377.260	5933700.987	201.410
1/2	257377.050	5933701.123	201.408
3/4	257376.933	5933701.343	201.405
I9	257376.936	5933701.592	201.403

KERB I



CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
I2-I3	0.500	0.938	0.806	0.204	0.054
I3-I4	31.972	2.047	2.046	0.016	0.004
I4-I5	35.180	2.047	2.047	0.015	0.004
I5-I6	0.501	0.629	0.588	0.095	0.024
I6-I7	0.499	0.629	0.588	0.096	0.025
I8-I9	0.500	1.008	0.846	0.233	0.062

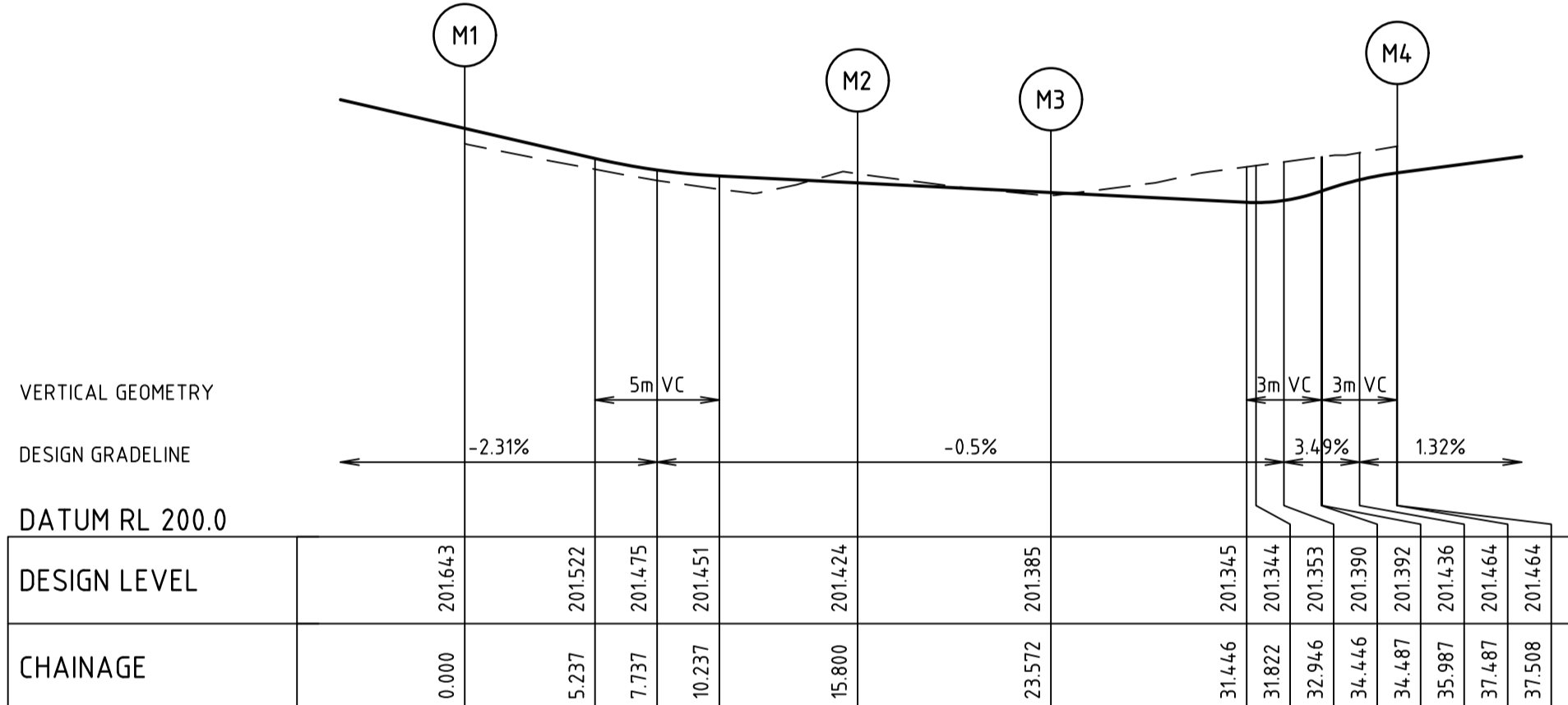
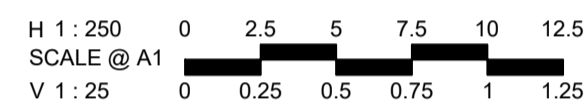


ALIGNMENT N

POINT NO	EASTING	NORTHING	RL
N1	257339.226	5933716.792	201.464
N2	257344.617	5933715.327	201.426
1/4	257348.442	5933714.666	201.396
1/2	257352.322	5933714.735	201.348
3/4	257356.121	5933715.530	201.286
N3	257359.704	5933711.024	201.223
1/4	257361.388	5933718.063	201.191
1/2	257362.927	5933719.307	201.159
3/4	257364.296	5933720.736	201.127
N4	257365.473	5933722.327	201.095
1/4	257367.265	5933725.349	201.047
1/2	257368.818	5933728.500	201.013
3/4	257370.125	5933731.761	200.986
N5	257371.176	5933735.114	200.959

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
N2-N3	20.600	15.548	15.182	1.450	0.366
N3-N4	15.600	7.921	7.836	0.500	0.126
N4-N5	45.600	14.057	14.001	0.541	0.135

KERB N

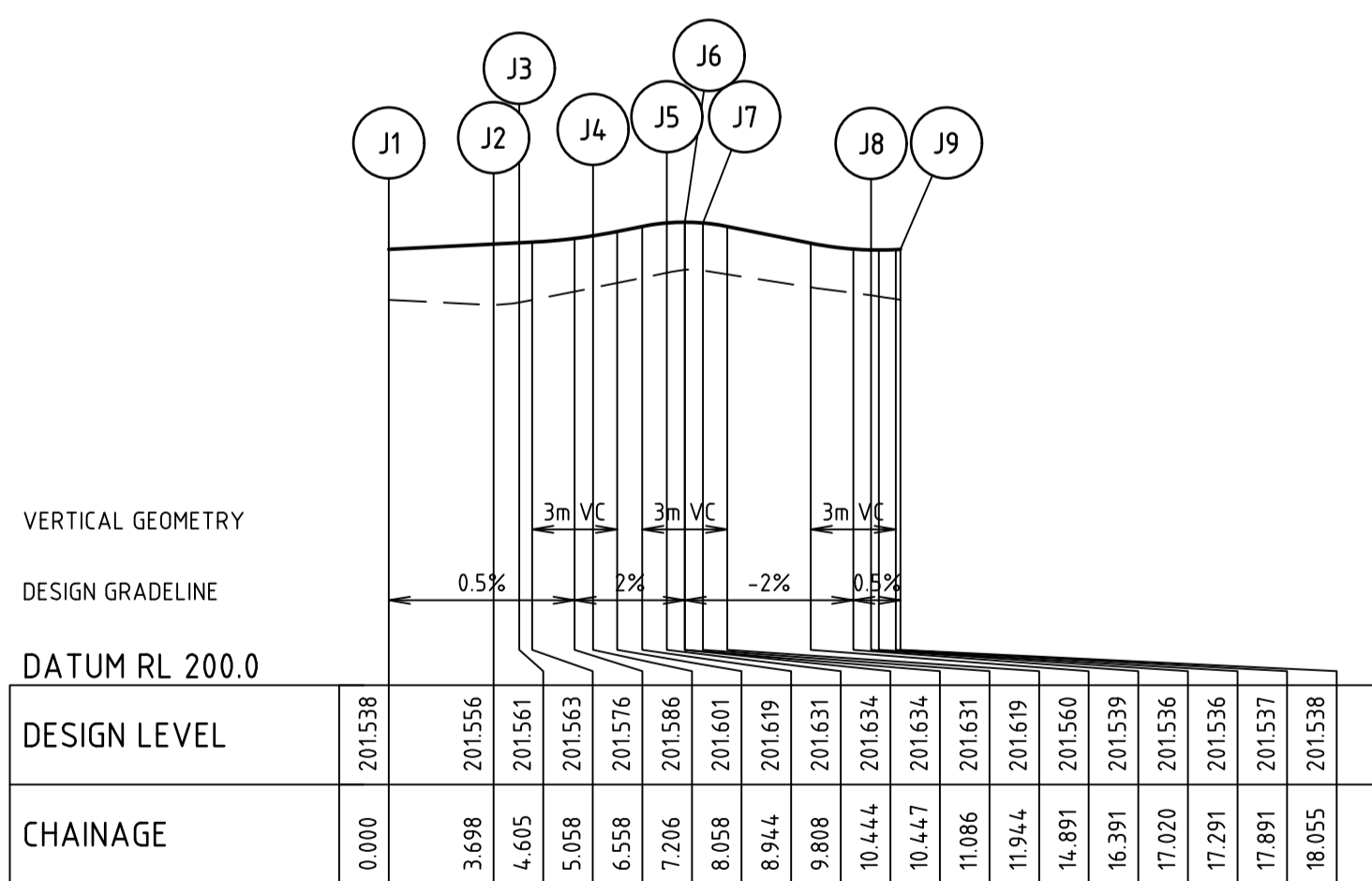
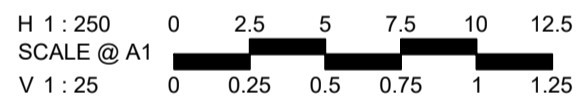


ALIGNMENT M

POINT NO	EASTING	NORTHING	RL
M1	257357.165	5933683.564	201.643
1/4	257357.830	5933687.451	201.551
1/2	257357.743	5933691.394	201.473
3/4	257356.905	5933695.248	201.443
M2	257355.348	5933698.872	201.424
1/4	257354.310	5933700.513	201.414
1/2	257353.077	5933702.013	201.404
3/4	257351.667	5933703.347	201.394
M3	257350.101	5933704.496	201.385
1/4	257347.101	5933706.265	201.367
1/2	257343.974	5933707.801	201.350
3/4	257340.740	5933709.092	201.377
M4	257337.416	5933710.134	201.464

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
M1-M2	20.600	15.800	15.416	1.496	0.378
M2-M3	15.600	7.772	7.692	0.481	0.121
M3-M4	45.600	13.936	13.882	0.531	0.133

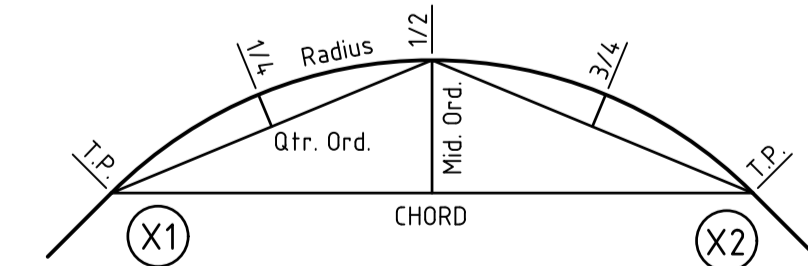
KERB M



ALIGNMENT J

POINT NO	EASTING	NORTHING	RL
J1	257360.813	5933693.982	201.538
J2	257364.382	5933693.012	201.556
1/4	257364.580	5933692.906	201.558
1/2	257364.711	5933692.724	201.559
3/4	257364.750	5933692.503	201.560
J3	257364.688	5933692.287	201.561
1/4	257364.378	5933691.715	201.564
1/2	257364.079	5933691.137	201.569
3/4	257363.791	5933690.554	201.576
J4	257363.515	5933689.965	201.586
1/4	257363.250	5933689.371	201.597
1/2	257362.996	5933688.772	201.610
3/4	257362.755	5933688.168	201.622
J5	257362.525	5933687.560	201.631
1/4	257362.447	5933687.421	201.632
1/2	257362.330	5933687.314	201.633
3/4	257362.184	5933687.249	201.633
J6	257362.026	5933687.233	201.634
1/4	257361.871	5933687.267	201.633
1/2	257361.734	5933687.348	201.633
3/4	257361.630	5933687.469	201.632
J7	257361.569	5933687.615	201.631
J8	257361.186	5933687.386	201.536
1/4	257360.192	5933693.642	201.536
1/2	257360.324	5933693.861	201.536
3/4	257360.547	5933693.986	201.537
J9	257360.803	5933693.985	201.538

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
J2-J3	0.500	0.906	0.787	0.192	0.050
J3-J4	33.500	2.602	2.601	0.025	0.006
J4-J5	33.500	2.602	2.601	0.025	0.006
J5-J6	0.500	0.639	0.596	0.099	0.025
J6-J7	0.500	0.639	0.596	0.099	0.025
J8-J9	0.500	1.036	0.860	0.245	0.066



KERB RETURN SETOUT DETAIL

file name: 307310CR501.dwg, layout name: C501, plotted by: Henry Oakley-Warren, file location: G:\307310\307310\1\ALCAD\plot_date_26/06/2020_4:31 PM Sheet 14 of 21 Sheets

Rev	Description	Approved	Date
B	AMENDED FOOTPATH CROSSING LOCATION ON OAKWOOD AVE	B. I.	JUN 2020
A	PRELIMINARY ISSUE	B. I.	JUN 2020
Rev	Amendments	Approved	Date

AS SHOWN



© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



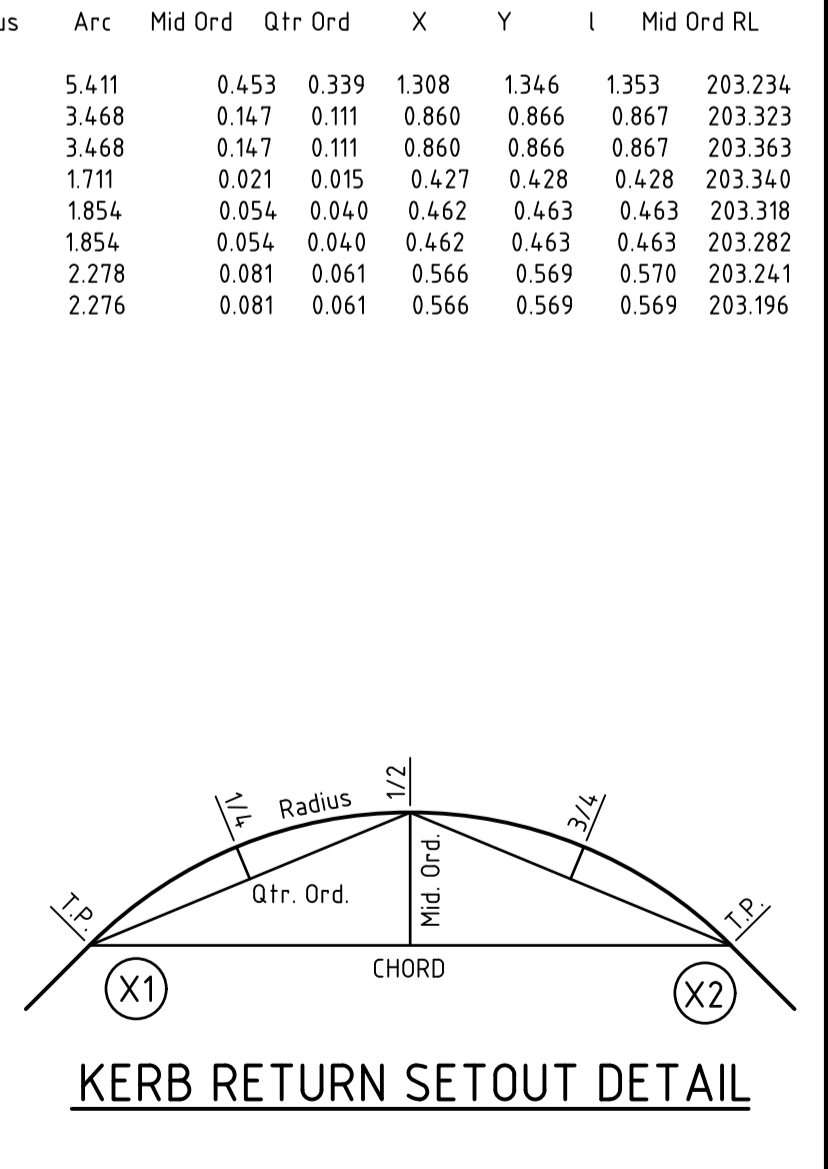
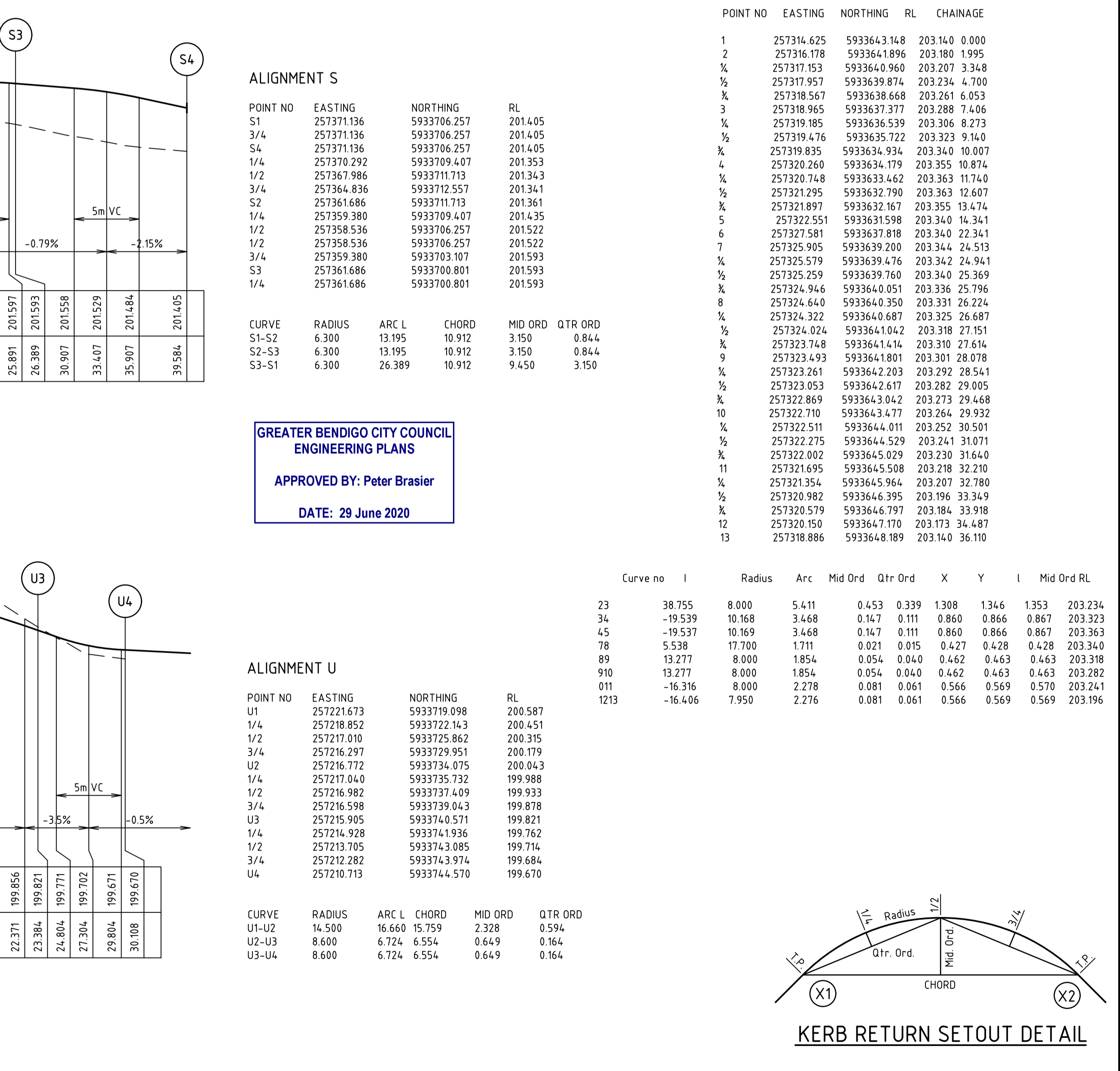
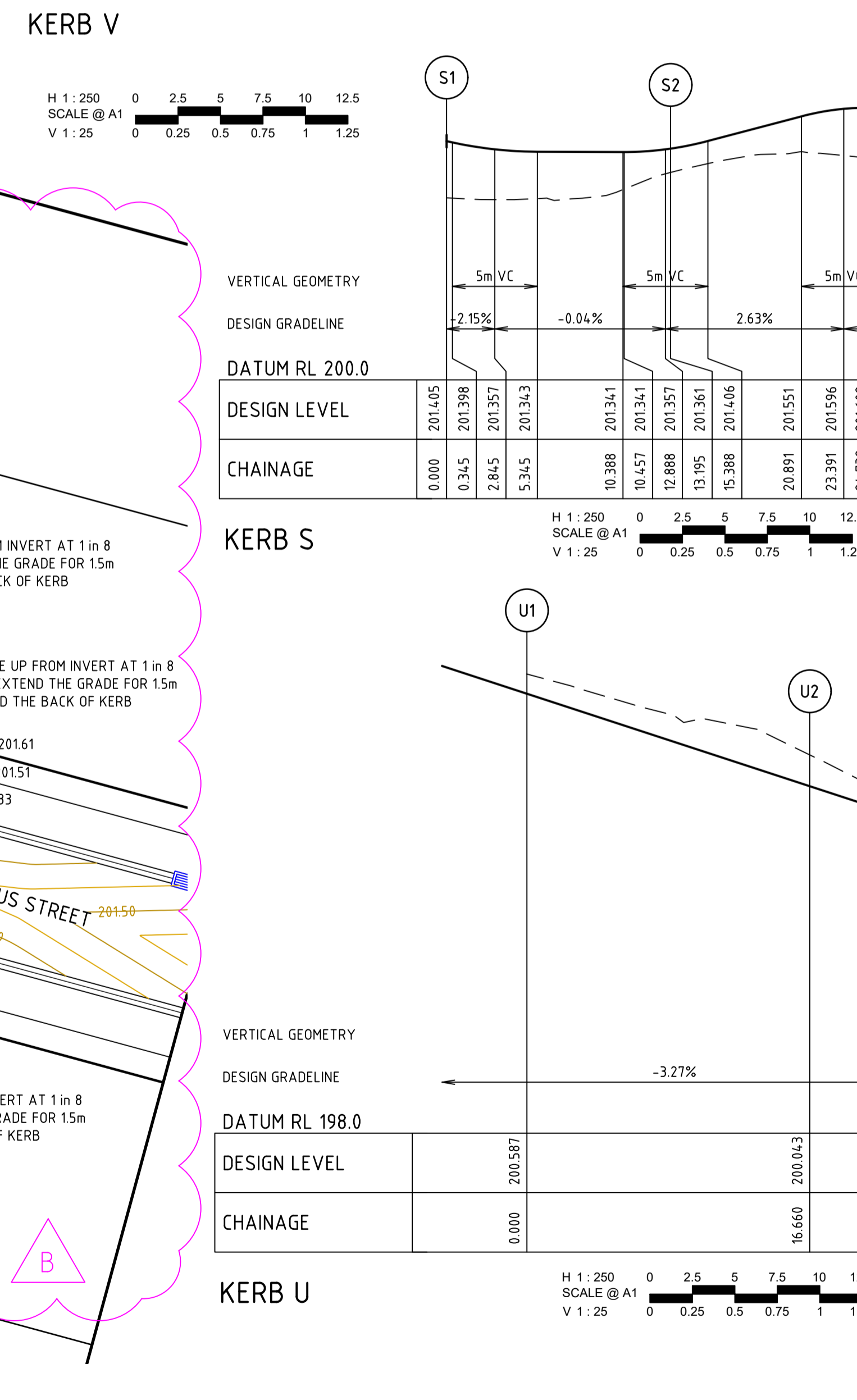
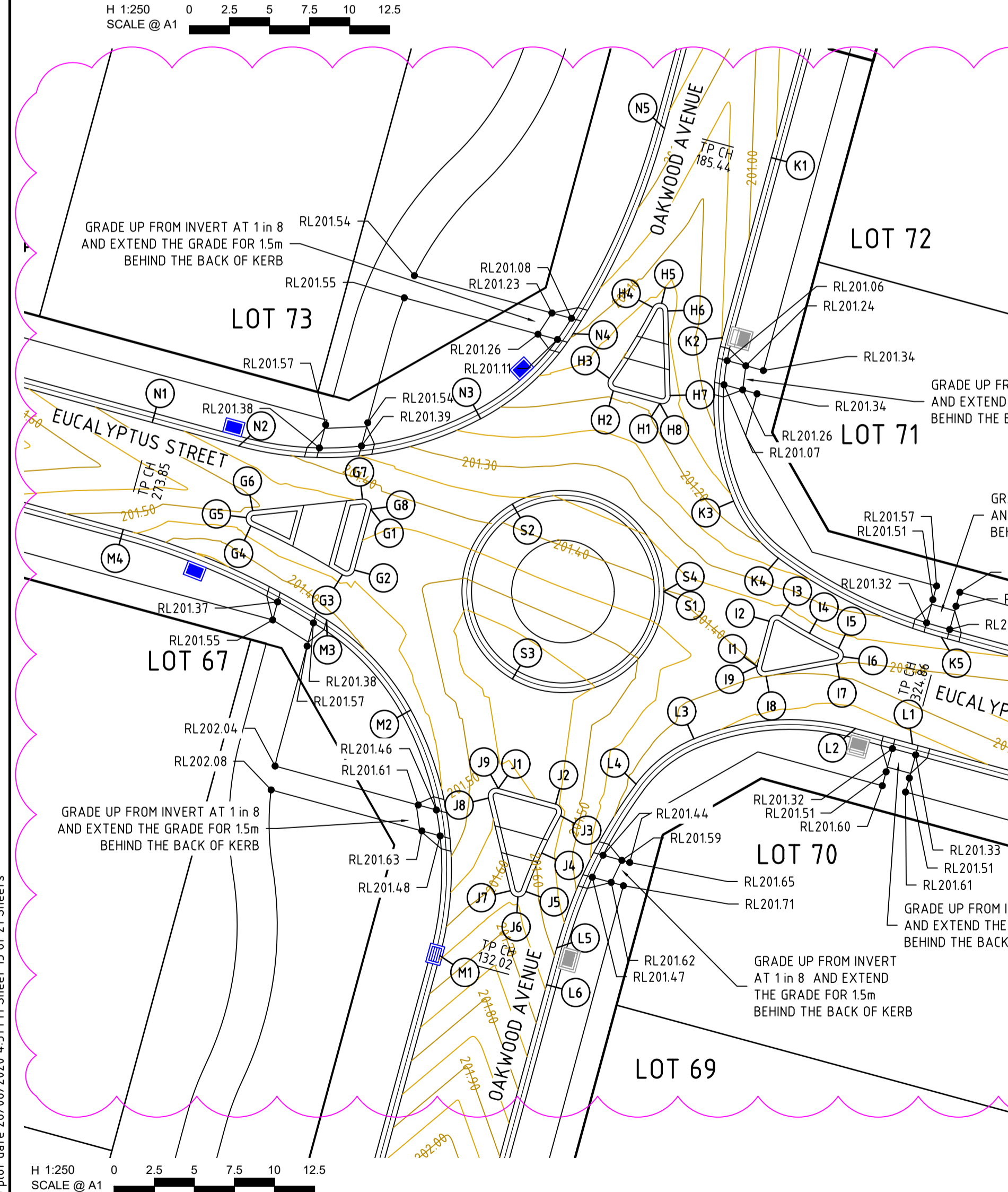
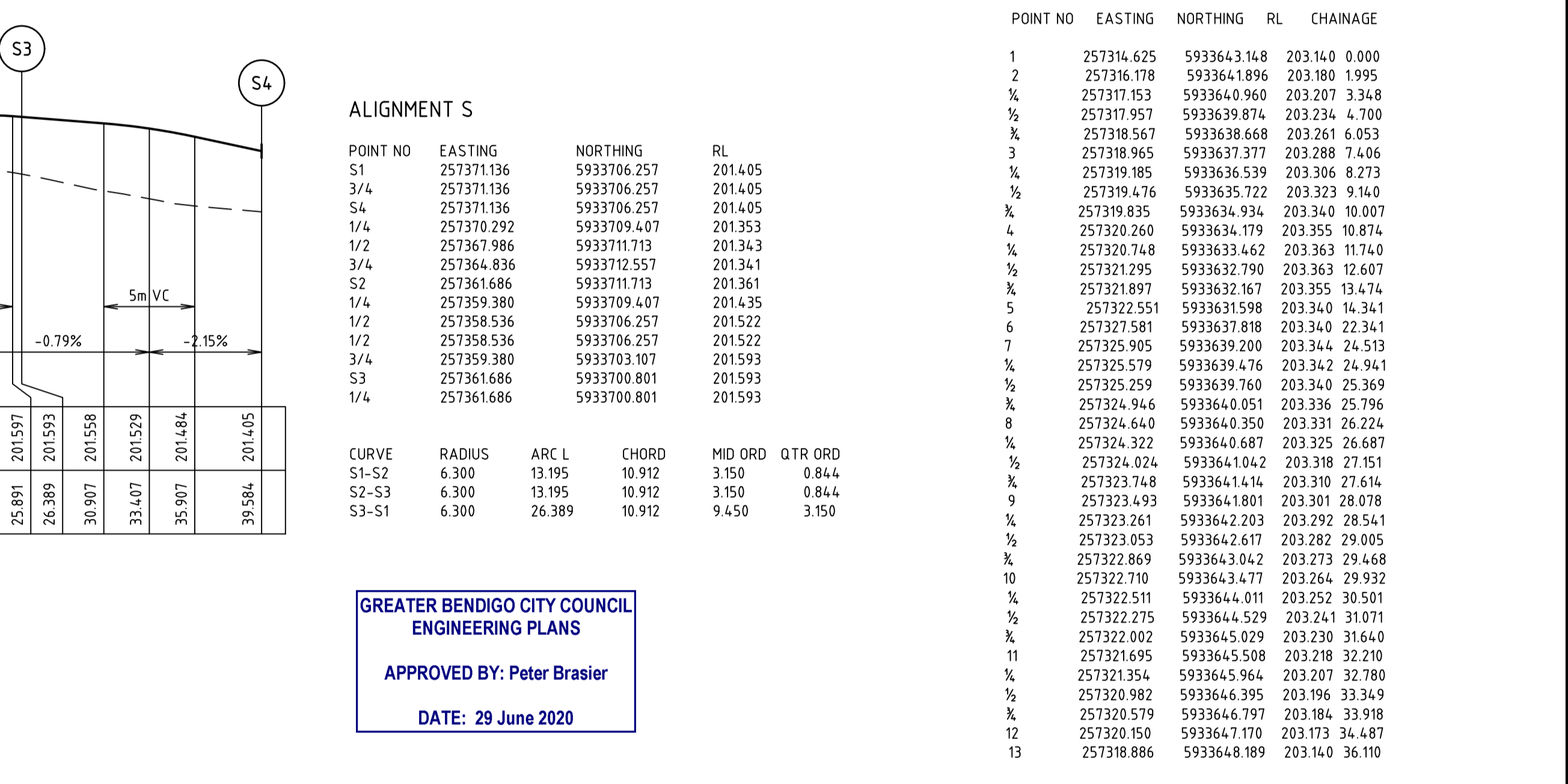
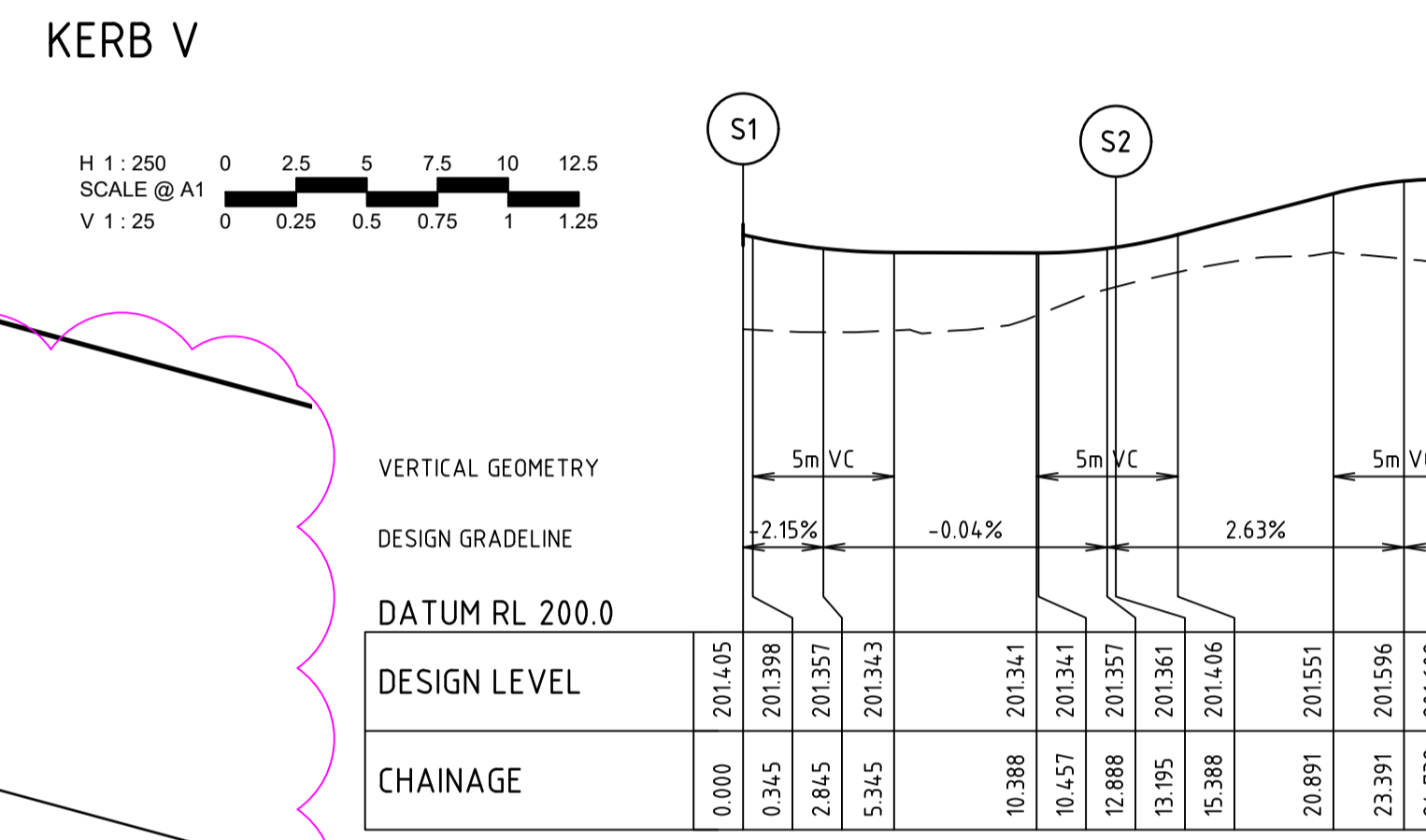
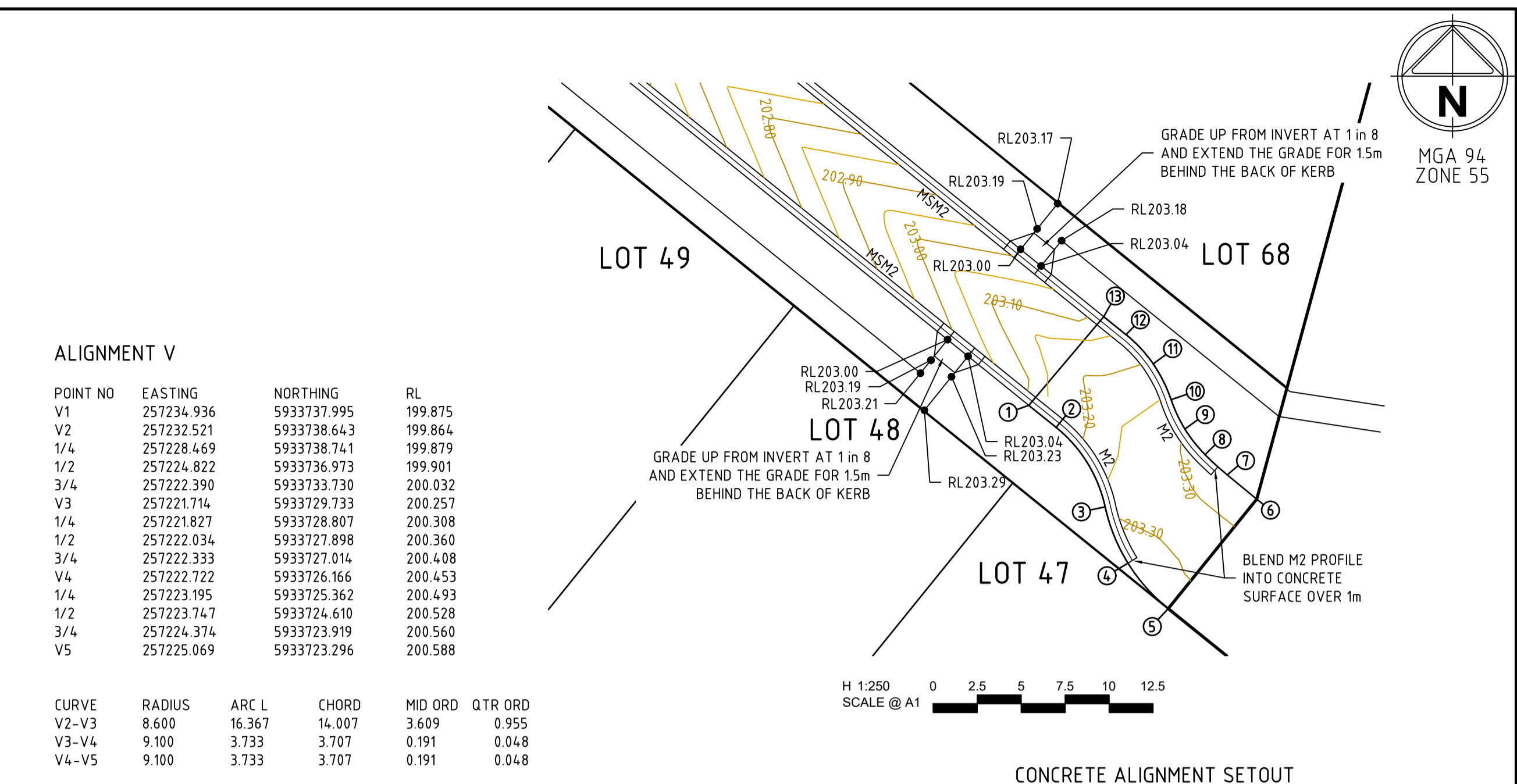
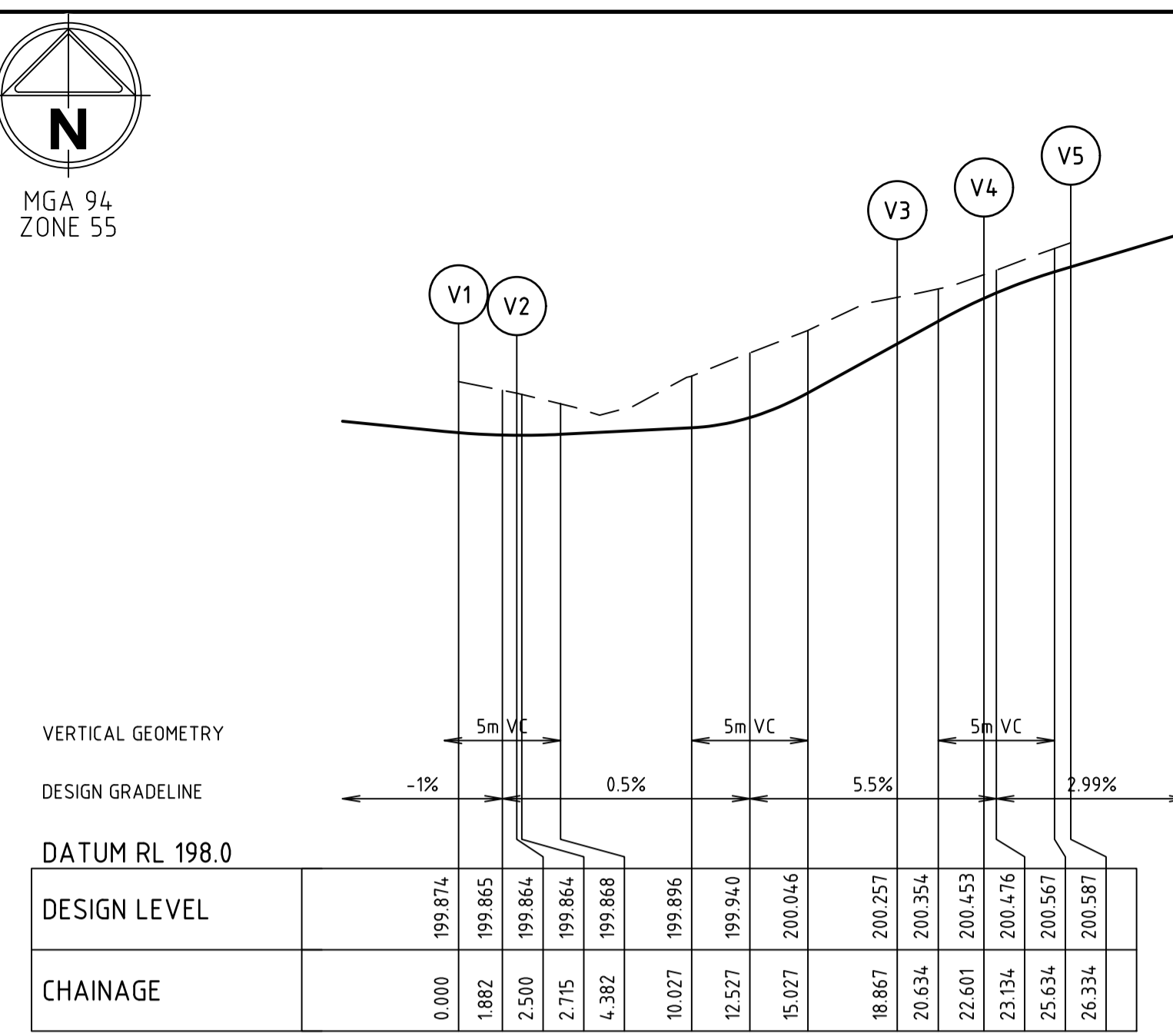
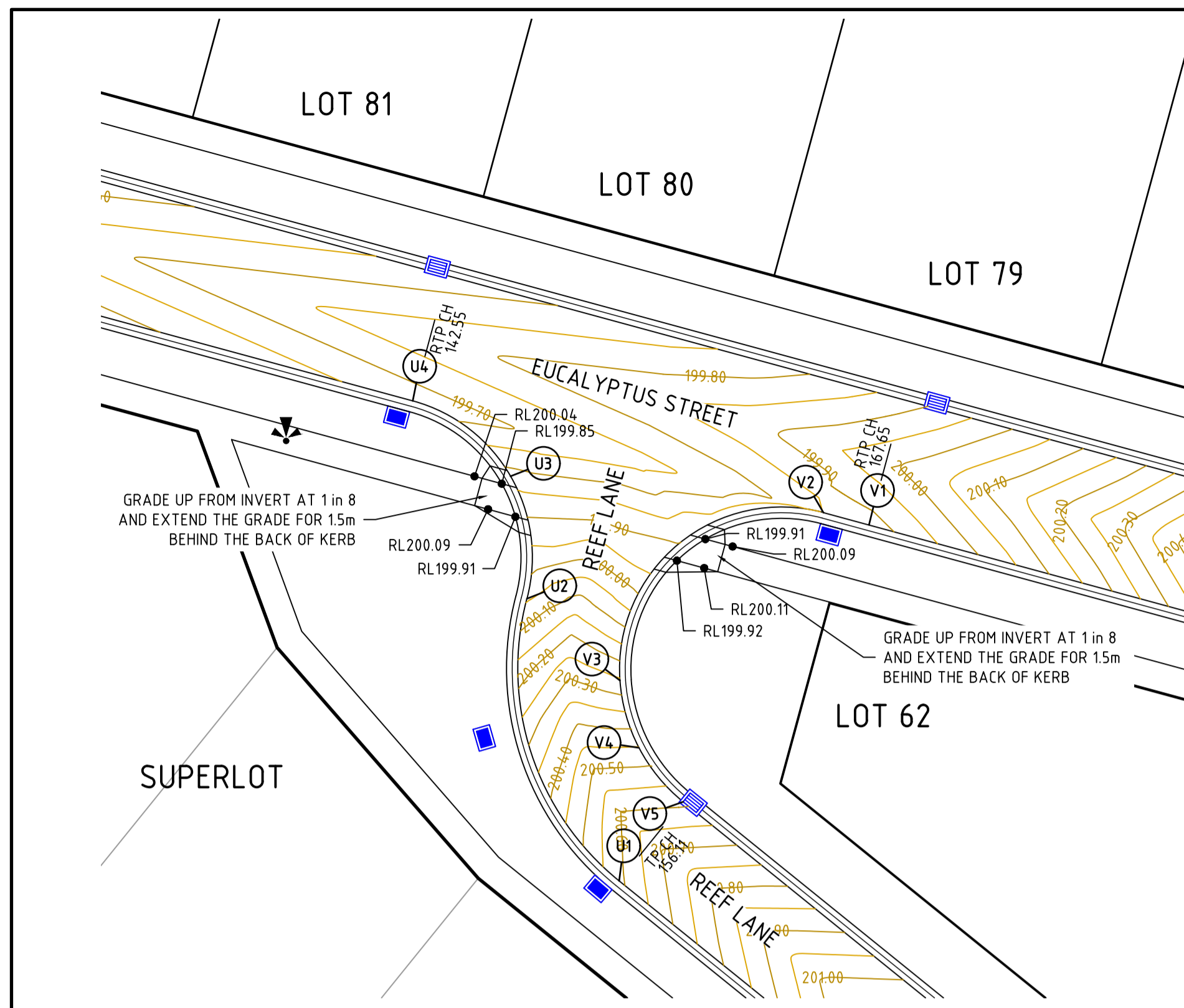
16 Bridge Street Bendigo
Victoria 3550 Australia T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

Designed
H. OAKLEY-WARREN
Authorised
B. IBBS

Checked
B. IBBS
Date
JUN 2020

GOLDEN GROVE STAGE 3
EUCALYPTUS ST, JACKASS FLAT
INTERSECTION DETAILS
EUCALYPTUS ST & OAKWOOD AVE
CITY OF GREATER BENDIGO DS/226/2010 AND AM/904/2011A
WARRINGAL VIEWS P/L

PRELIMINARY Drg No **307310CR501** Rev **B**



Rev	Description	Approved	Date
B	AMENDED FOOTPATH CROSSING LOCATION ON OAKWOOD AVE	B. I.	JUN 2020
A	PRELIMINARY ISSUE	B. I.	JUN 2020
	Amendments		

AS SHOWN

© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

16 Bridge Street Bendigo
Victoria 3550 Australia T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

**GOLDEN GROVE STAGE 3
EUCALYPTUS ST, JACKASS FLAT
INTERSECTION DETAILS
EUCALYPTUS ST, OAKWOOD AVE & REEF LANE
CITY OF GREATER BENDIGO DS/226/2010 AND AM/904/2011A
WARRINGAL VIEWS P/L**

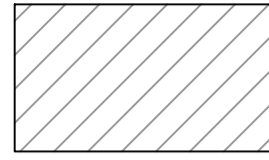
Designed
H. OAKLEY-WARREN

Checked
B. IBBS

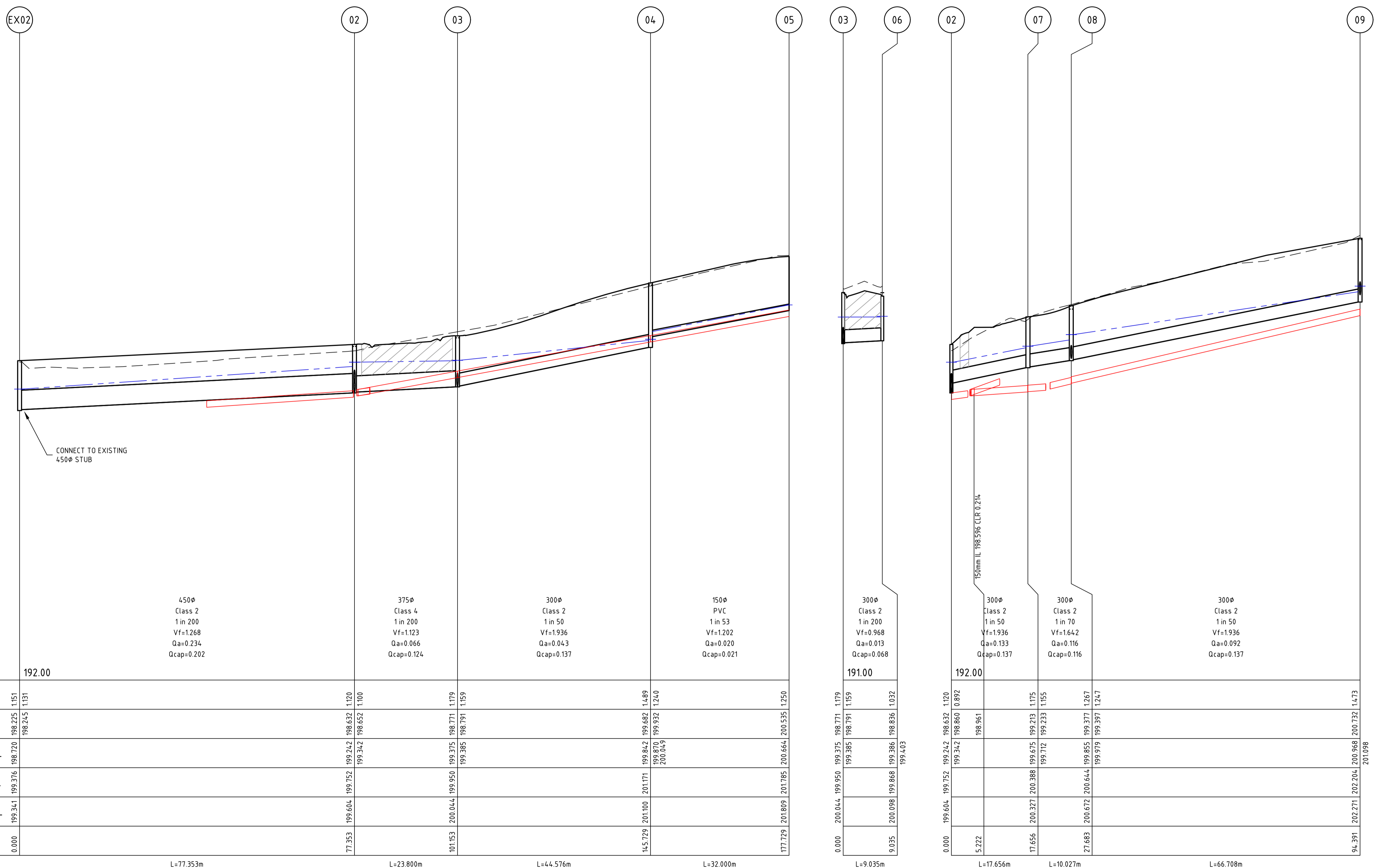
Authorised
B. IBBS

Date
JUN 2020

PRELIMINARY Drg No **307310CR502** Rev **B**

 FCR BACKFILL

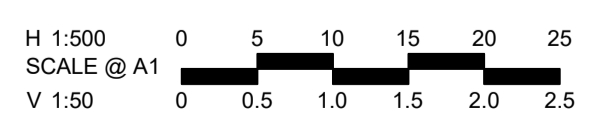
GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 29 June 2020



Chainage	0.000	77.353	101.153	145.729	177.729	200.045	200.045	200.098	200.098	200.672	200.672	202.211
Pipe Diameter	450Φ	375Φ	300Φ	150Φ	300Φ	300Φ	300Φ	300Φ	300Φ	300Φ	300Φ	300Φ
Pipe Class	Class 2	Class 4	Class 2	PVC	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2
Pipe Grade	1 in 200	1 in 200	1 in 50	1 in 53	1 in 200	1 in 50	1 in 70	1 in 50	1 in 70	1 in 50	1 in 50	1 in 50
Velocity (m/s)	Vf=1.268	Vf=1.123	Vf=1.936	Vf=1.202	Vf=0.968	Vf=1.936	Vf=1.642	Vf=1.936	Vf=1.642	Vf=1.936	Vf=1.642	Vf=1.936
Pipe Flow (m3/s)	Qa=0.234	Qa=0.066	Qa=0.043	Qa=0.020	Qa=0.013	Qa=0.133	Qa=0.116	Qa=0.133	Qa=0.116	Qa=0.092	Qa=0.092	Qa=0.092
Pipe Capacity (m3/s)	Qcap=0.202	Qcap=0.124	Qcap=0.137	Qcap=0.021	Qcap=0.068	Qcap=0.137	Qcap=0.116	Qcap=0.137	Qcap=0.116	Qcap=0.137	Qcap=0.137	Qcap=0.137
DATUM RL	192.00					191.00	192.00					
DEPTH TO INVERT	1.151	1.120	1.179	1.489	1.159	1.159	0.892	1.175	1.155	1.267	1.247	1.473
DESIGN INVERT LEVEL	198.225	198.632	198.771	199.662	200.535	199.870	199.860	199.213	199.233	199.377	199.397	200.732
HYDRAULIC GRADE LEVEL	198.245	198.652	198.791	199.682	200.545	199.870	199.860	199.213	199.233	199.377	199.397	200.732
FINISHED SURFACE LEVEL	195.341	199.752	199.950	201.171	201.785	200.044	200.044	200.388	200.388	200.644	200.644	202.204
EXISTING SURFACE LEVEL	195.341	199.604	200.044	201.100	201.785	200.044	200.044	200.388	200.388	200.644	200.644	202.211
CHAINAGE	0.000	77.353	101.153	145.729	177.729	200.045	200.045	200.098	200.098	200.672	200.672	202.211
Length	L=77.353m	L=23.800m	L=44.576m	L=32.000m	L=9.035m	L=17.656m	L=10.027m	L=66.708m				

file name: 307310CR600.dwg, layout name: CR600, plotted by: Herry Oakley-Warren, file location: G:\307310\307310\WARRINGAL\A1.dwg, plot date: 26/06/2020, 4:37 PM, Sheet 11 of 21, Sheets

Rev	Description	By	Date
A	PRELIMINARY ISSUE	B. I.	JUN 2020
	Amendments	Approved	Date



© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



16 Bridge Street Bendigo
Victoria 3550 Australia T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

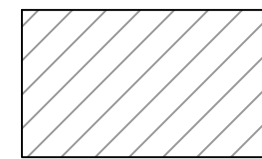
Designed
H. OAKLEY-WARREN
Authorised
B. IBBS

Checked
B. IBBS
Date
JUN 2020

**GOLDEN GROVE STAGE 3
EUCALYPTUS ST, JACKASS FLAT
DRAINAGE LONG SECTIONS**

CITY OF GREATER BENDIGO DS/226/2010 AND AM/904/2011A
WARRINGAL VIEWS P/L

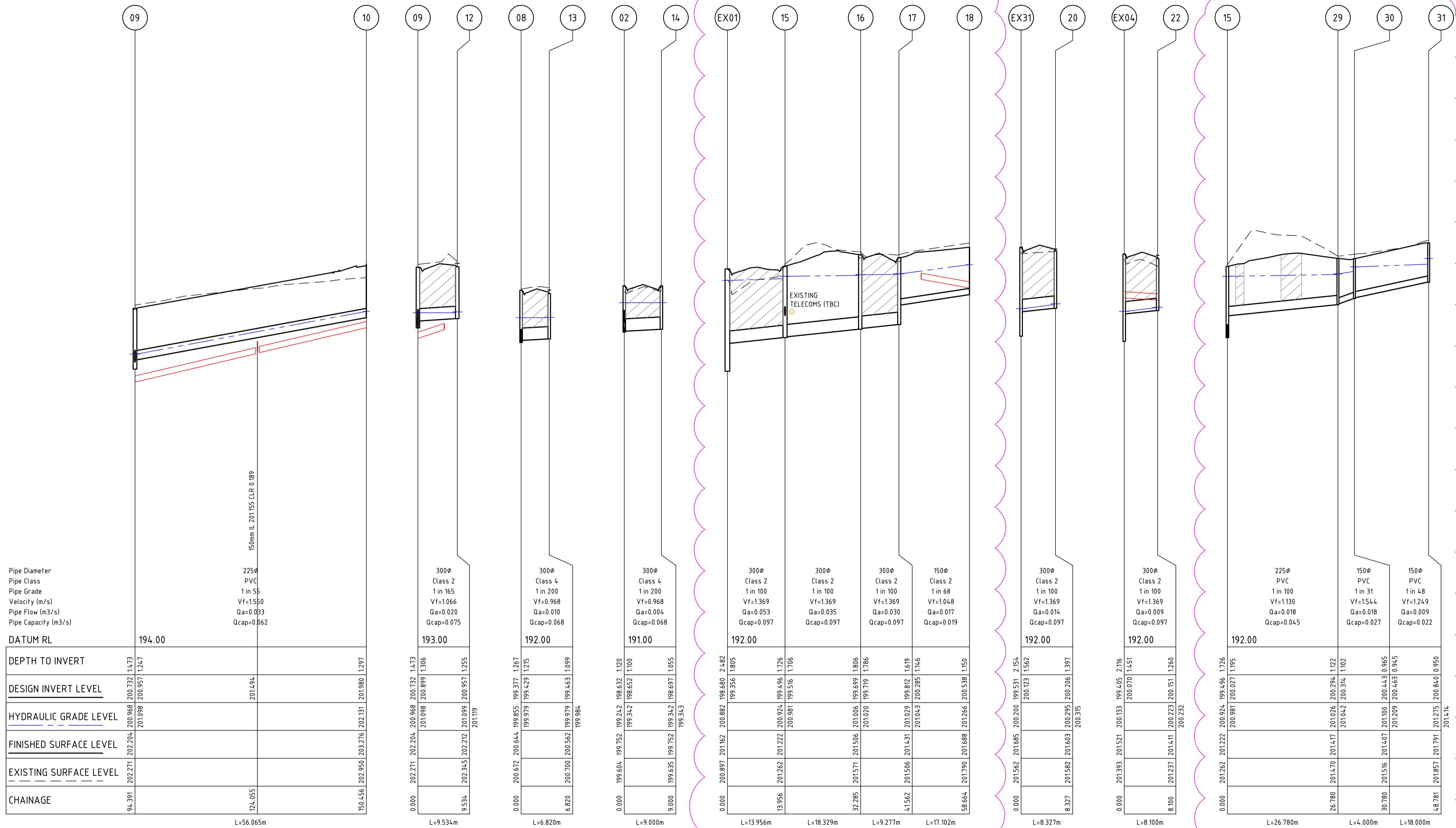
PRELIMINARY Drg No **307310CR600** Rev **A**

 FCR BACKFILL

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS

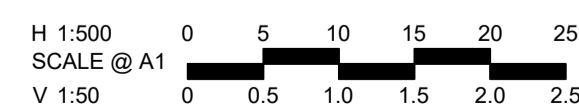
APPROVED BY: Peter Brasier

DATE: 29 June 2020



file name: 307310CR601.dwg, layout name: CR601, plotted by: Harry Oakley-Warren, file location: G:\307310\307310\WARRINGAL\307310.dwg, plot date: 26/06/2020, L=37, PHS Sheet 18 of 21 Sheets

Rev	Amendments	Approved	Date
B	ADDED DRAINAGE TO REAR OF LOTS 73-74	B. I.	JUN 2020
A	PRELIMINARY ISSUE	B. I.	JUN 2020



© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



16 Bridge Street Bendigo
Victoria 3550 Australia T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

Designed
H. OAKLEY-WARREN
Authorised
B. IBBS

Checked
B. IBBS
Date
JUN 2020

**GOLDEN GROVE STAGE 3
EUCALYPTUS ST, JACKASS FLAT
DRAINAGE LONG SECTIONS**

CITY OF GREATER BENDIGO DS/226/2010 AND AM/904/2011A
WARRINGAL VIEWS P/L

PRELIMINARY Drg No **307310CR601** Rev **B**

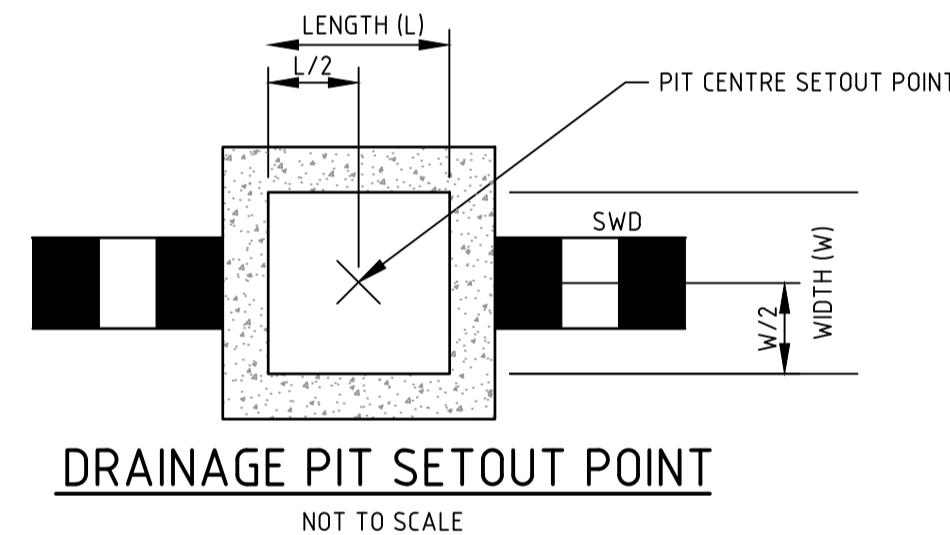
DRAINAGE PIT SCHEDULE

NAME	PIT TYPE	INTERNAL		INLET		OUTLET		PIT		REMARKS
		WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
Ex02	EXISTING	600	900	450	198.245			199.376	1.151	COMPLETE PIT AS IDM SD 440.
02	SIDE ENTRY PIT	600	900	375	198.652	450	198.632	199.752	1.120	REFER IDM SD 440.
				300	198.860					
				300	198.652					
03	SIDE ENTRY PIT	600	900	300	198.791	375	198.771	199.950	1.179	REFER IDM SD 440.
				300	198.791					
04	SIDE ENTRY PIT	600	900	150	199.932	300	199.682	201.171	1.489	REFER IDM SD 480.
05	ENDPIPE	0	0			150	200.535	201.785	1.250	
06	GRATED ENTRY PIT	600	900			300	198.836	199.868	1.032	REFER IDM SD 481.
07	JUNCTION PIT	600	900	300	199.233	300	199.213	200.388	1.175	REFER IDM SD 420.
08	SIDE ENTRY PIT	600	900	300	199.397	300	199.377	200.644	1.267	REFER IDM SD 480.
				300	199.429					
09	SIDE ENTRY PIT	600	900	225	200.957	300	200.732	202.204	1.473	REFER IDM SD 480.
				300	200.899					
10	ENDPIPE	0	0			225	201.980	203.276	1.297	
12	GRATED ENTRY PIT	600	900			300	200.957	202.212	1.255	REFER TO IDM SD 481.
13	GRATED ENTRY PIT	600	900			300	199.463	200.562	1.099	REFER TO IDM SD 481.
14	GRATED ENTRY PIT	600	900			300	198.697	199.752	1.055	REFER IDM SD 481.
Ex01	EXISTING	1050	900	300	199.457			201.183	2.503	CONNECT TO EXISTING STUB.
15	JUNCTION PIT	600	900	300	199.516	300	199.496	201.222	1.726	REFER IDM SD 420.
				225	200.027					
16	SIDE ENTRY PIT	600	900	300	199.719	300	199.699	201.506	1.806	REFER IDM SD 440.
17	SIDE ENTRY PIT	600	900	150	200.285	300	199.812	201.431	1.619	REFER IDM SD 440.
18	ENDPIPE	0	0			150	200.538	201.688	1.150	
Ex31	EXISTING	600	900	300	200.123			201.685	2.154	CONNECT TO EXISTING STUB.
20	GRATED ENTRY PIT	600	900			300	200.206	201.603	1.397	REFER TO IDM SD 481.
Ex04	EXISTING	600	900	300	200.070			201.521	2.116	CONNECT TO EXISTING STUB.
22	GRATED ENTRY PIT	600	900			300	200.151	201.411	1.260	REFER TO IDM SD 481.
23	GRATED ENTRY PIT	450	450	300	198.706	300	198.686	199.421	0.735	PIT TO BE CONSTRUCTED OVER THE EX DRAINAGE PIPE AS PER DETAIL ON CR700
24	GRATED ENTRY PIT	450	450	225	198.884	300	198.864	199.640	0.776	PIT TO BE CONSTRUCTED OVER THE EX DRAINAGE PIPE AS PER DETAIL ON CR700
25	GRATED ENTRY PIT	450	450	225	199.297	225	199.277	200.054	0.777	PIT TO BE CONSTRUCTED OVER THE EX DRAINAGE PIPE AS PER DETAIL ON CR700
26	GRATED ENTRY PIT	450	450	225	199.723	225	199.703	200.488	0.785	PIT TO BE CONSTRUCTED OVER THE EX DRAINAGE PIPE AS PER DETAIL ON CR700
27	GRATED ENTRY PIT	450	450	150	200.149	225	200.129	200.827	0.698	PIT TO BE CONSTRUCTED OVER THE EX DRAINAGE PIPE AS PER DETAIL ON CR700
28	GRATED ENTRY PIT	450	450	150	200.536	150	200.516	201.189	0.673	PIT TO BE CONSTRUCTED OVER THE EX DRAINAGE PIPE AS PER DETAIL ON CR700
29	JUNCTION PIT	600	900	150	200.314	225	200.294	201.417	1.122	REFER IDM SD 420.
30	GRATED ENTRY PIT	450	450	150	200.463	150	200.443	201.407	0.964	REFER CoGB SD24
31	GRATED ENTRY PIT	450	450			150	200.840	201.791	0.950	REFER CoGB SD24

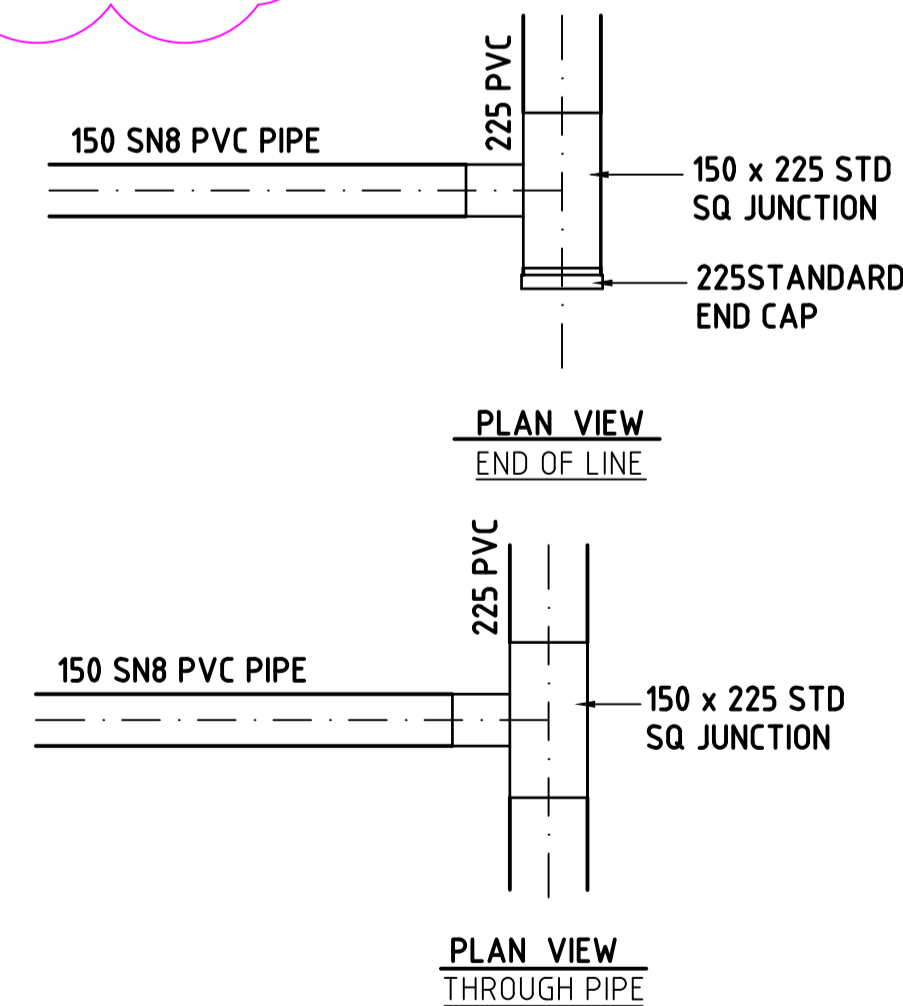
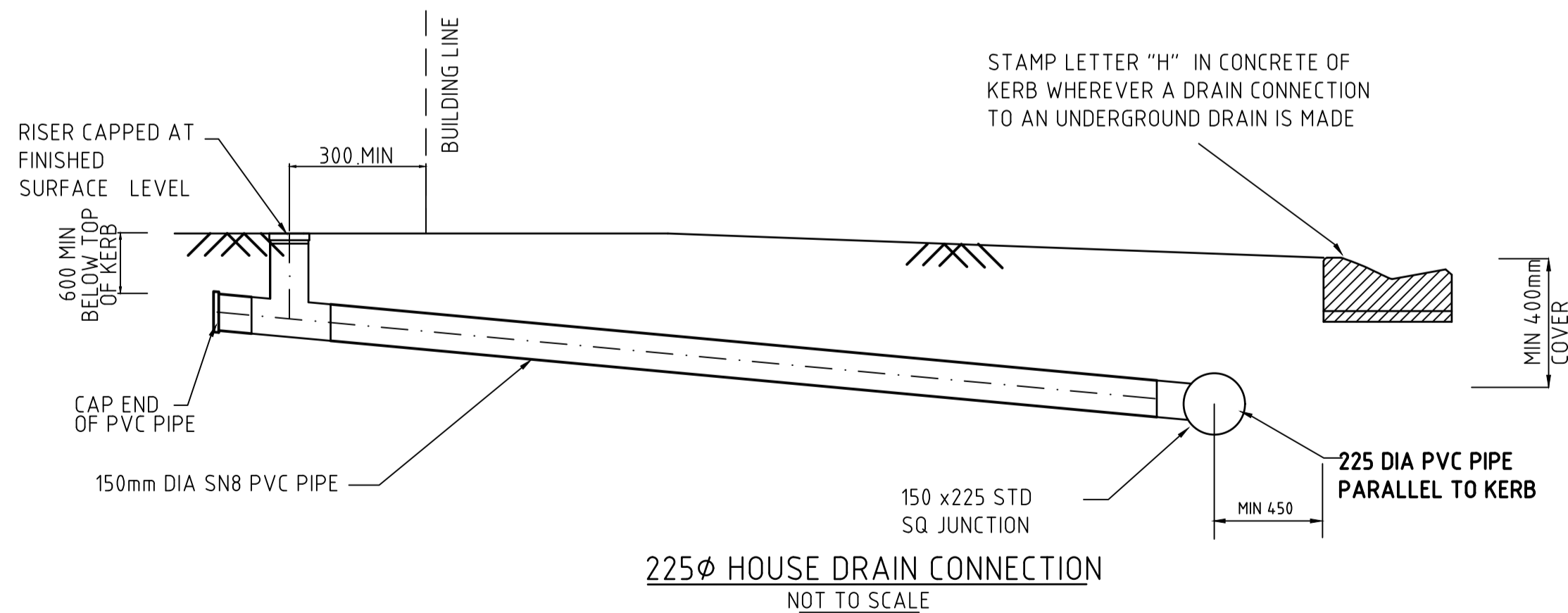
- NOTE:
- ALL PITS IN ROAD RESERVE TO BE FITTED WITH HINGED CLASS B FIBREGLASS LIDS.
 - PITS Ex01, Ex02, Ex02A, Ex04 & Ex31 TO BE COMPLETED AS PART OF STAGE 3 WORKS.

PIT SETOUT

PIT NUMBER	EASTINGS	NORTHINGS
15	257362.274	5933720.151
29	257360.327	5933746.860



B



**GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS**
APPROVED BY: Peter Brasier
DATE: 29 June 2020

AS SHOWN



© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

spiire

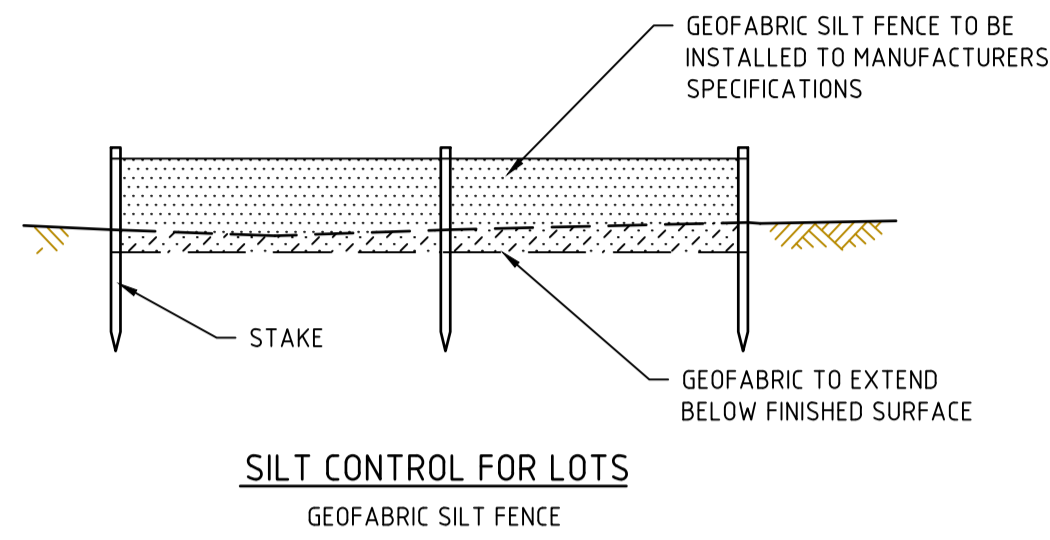
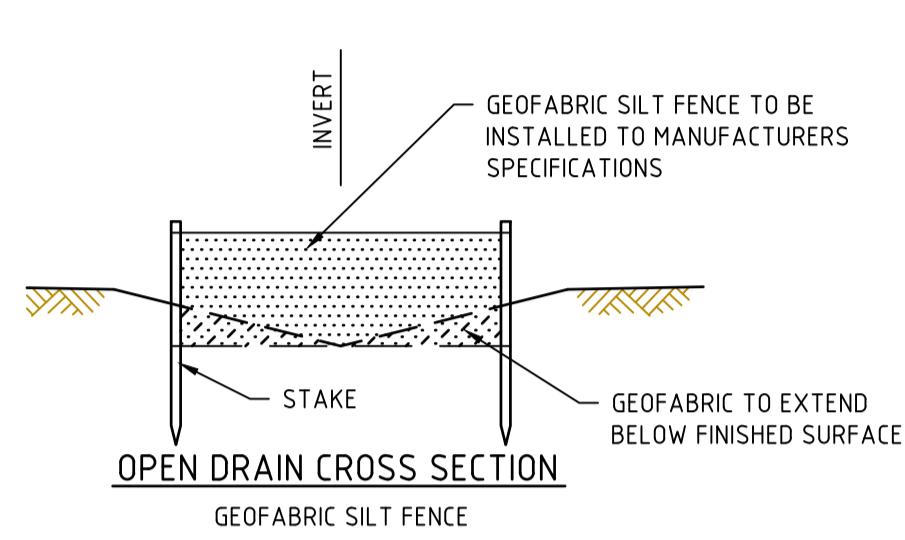
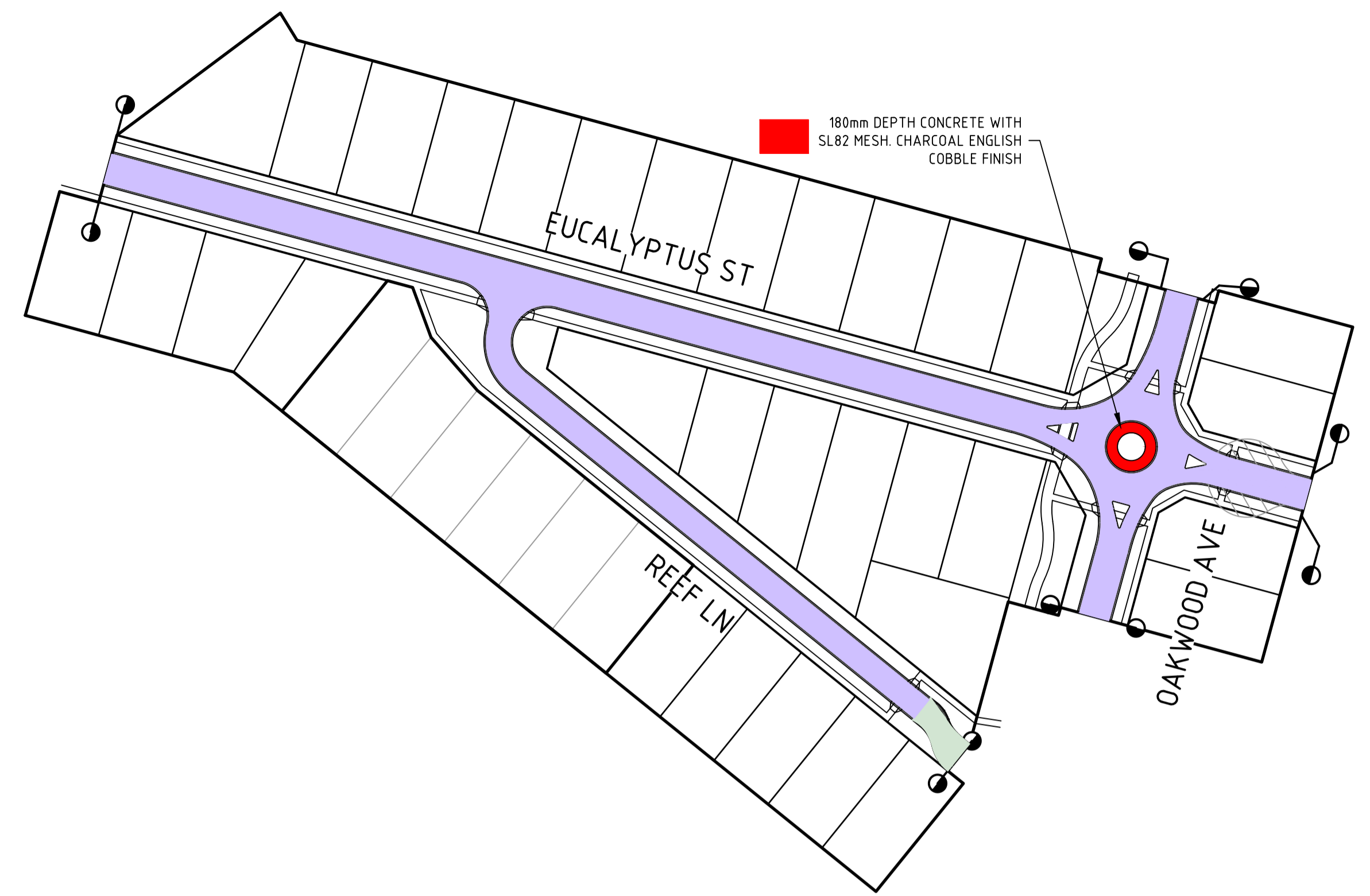
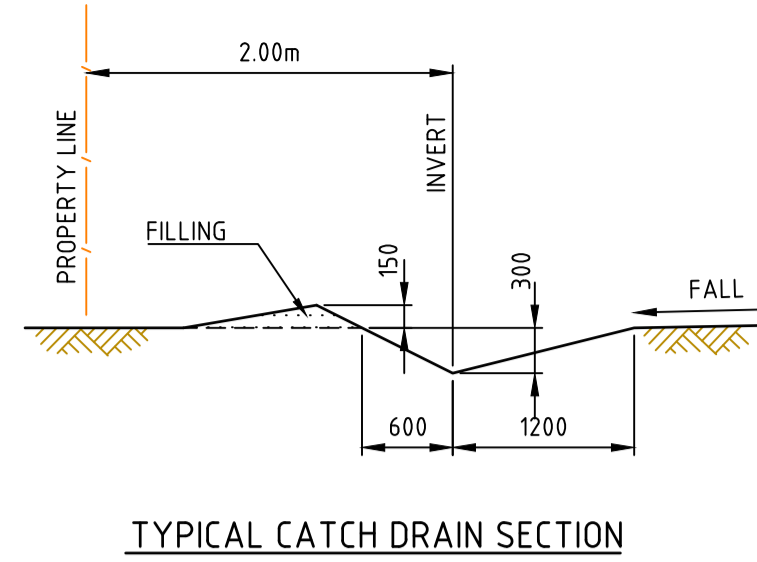
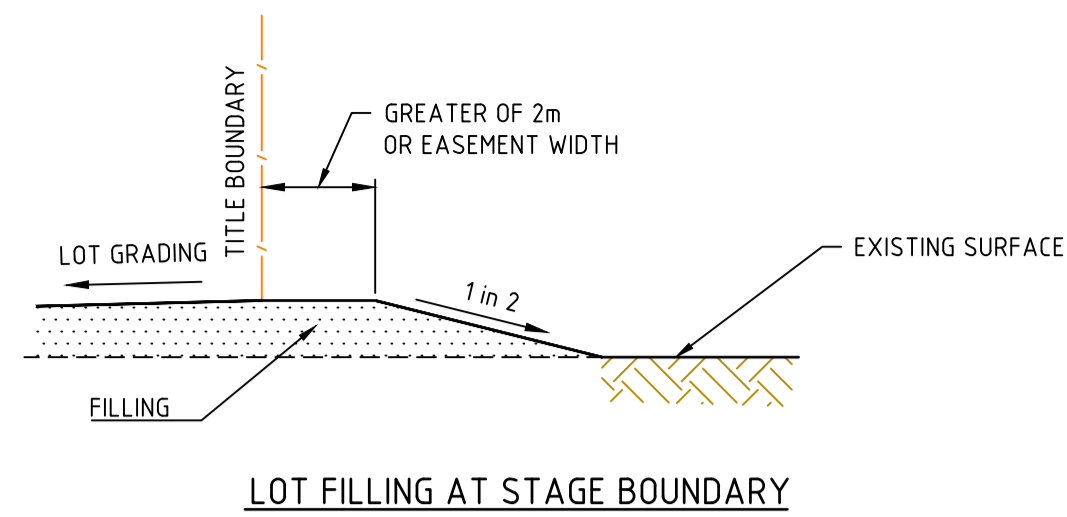
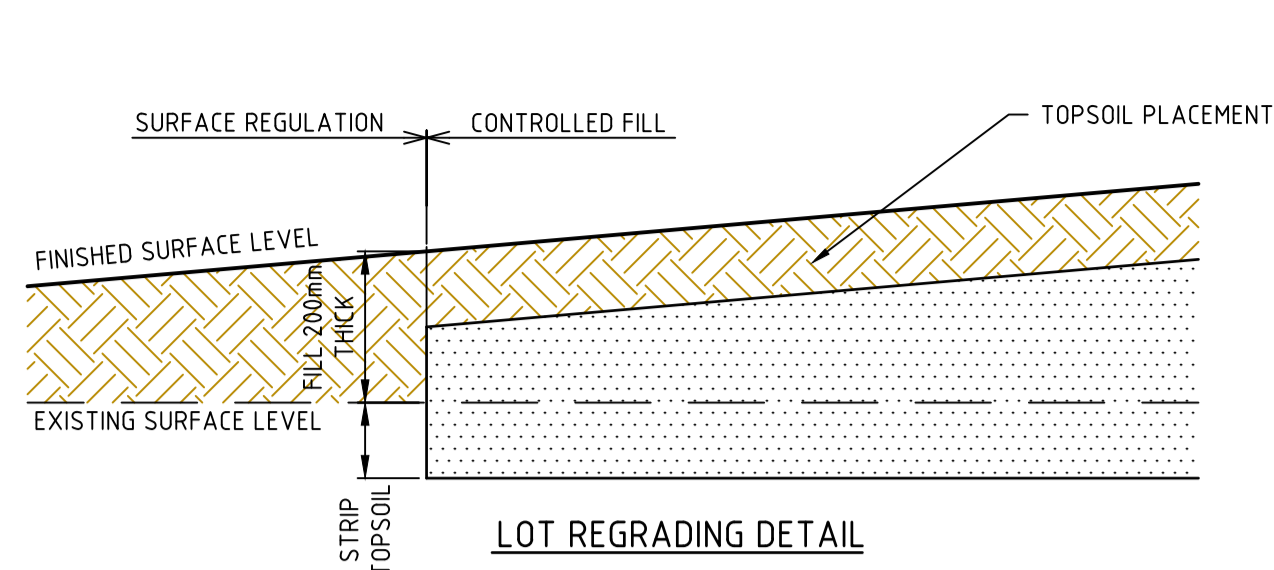
16 Bridge Street Bendigo
Victoria 3550 Australia T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

Designed
H. OAKLEY-WARREN
Authorised
B. IBBS

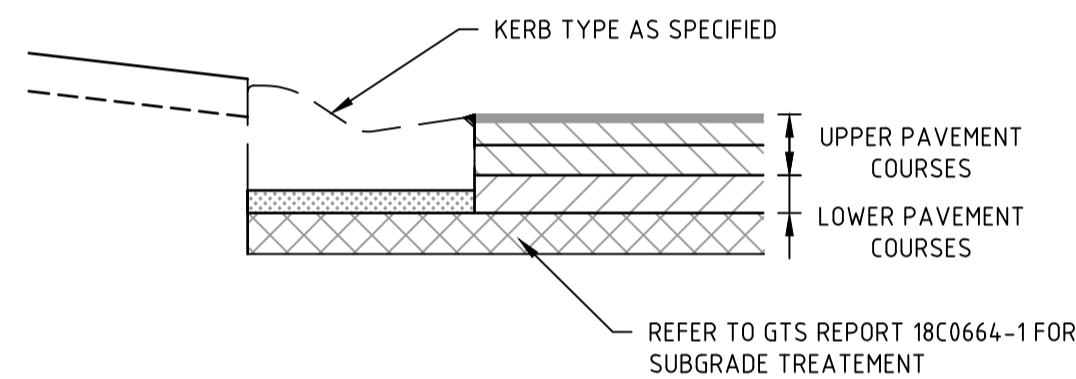
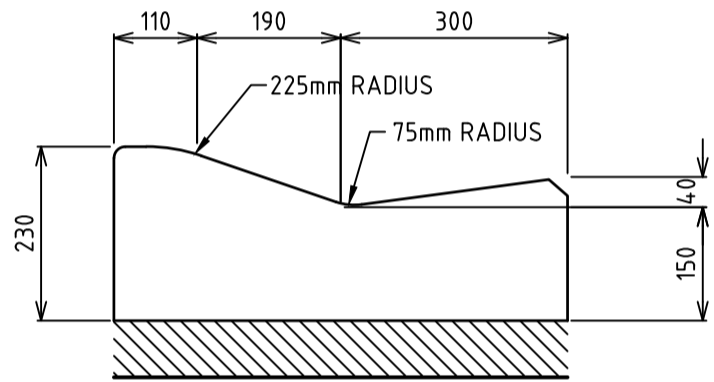
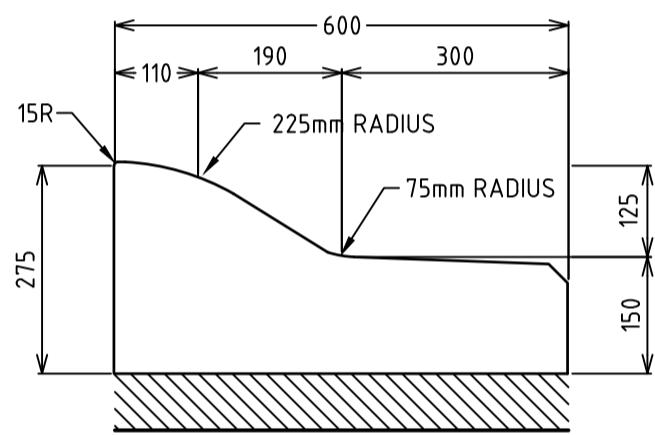
Checked
B. IBBS
Date
JUN 2020

**GOLDEN GROVE STAGE 3
EUCALYPTUS ST, JACKASS FLAT
DRAINAGE LONG SECTIONS
DRAINAGE PIT SCHEDULE**
CITY OF GREATER BENDIGO DS/226/2010 AND AM/904/2011A
WARRINGAL VIEWS P/L

PRELIMINARY Drg No **307310CR602** Rev **B**



SILT CONTROL OPTIONS
NOT TO SCALE



**GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS**
APPROVED BY: Peter Brasier
DATE: 29 June 2020

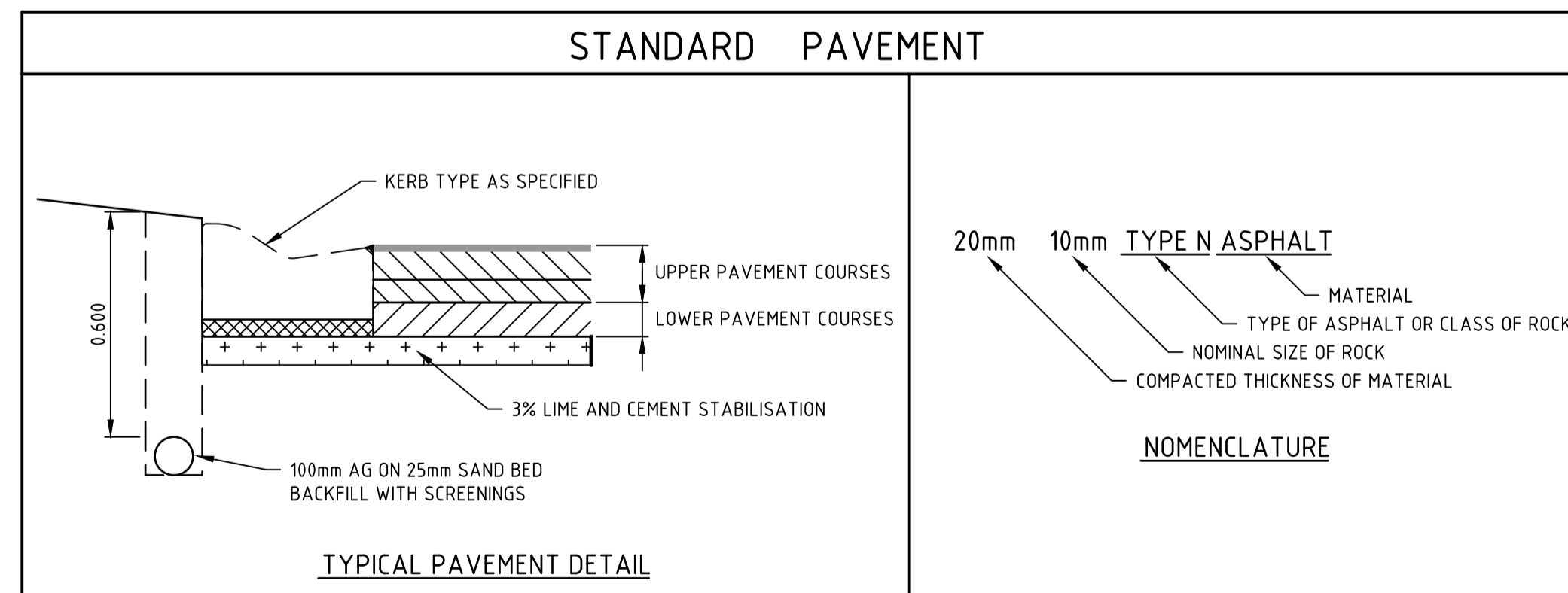
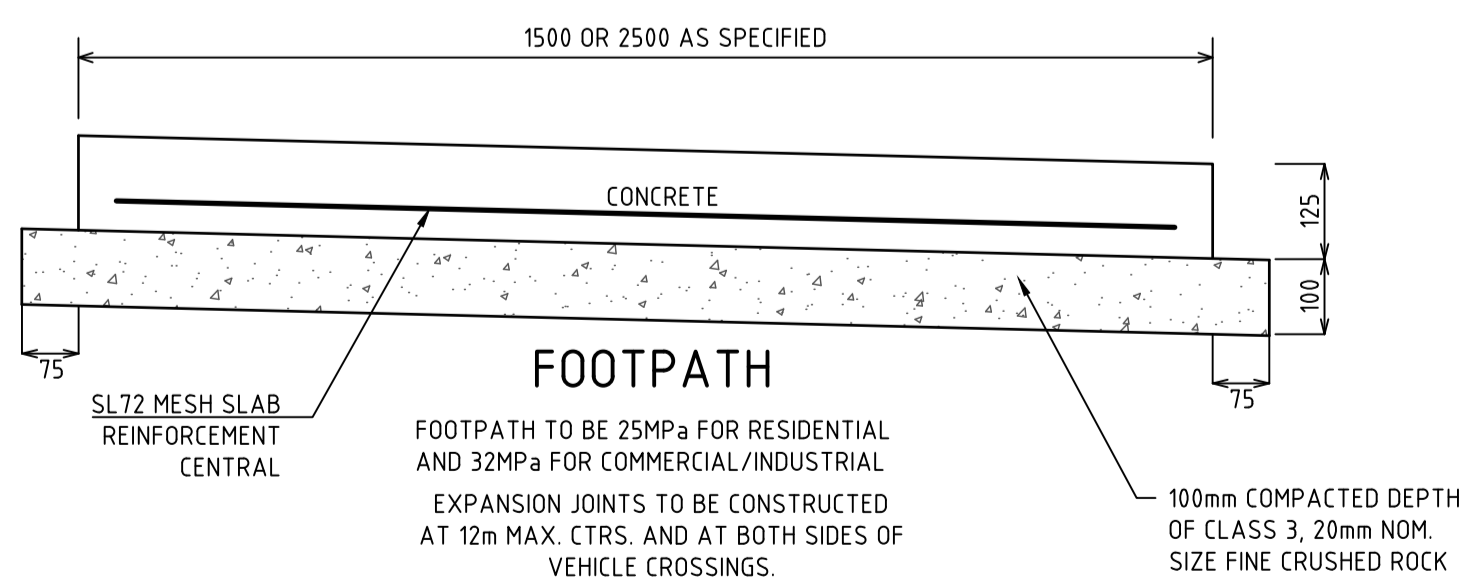
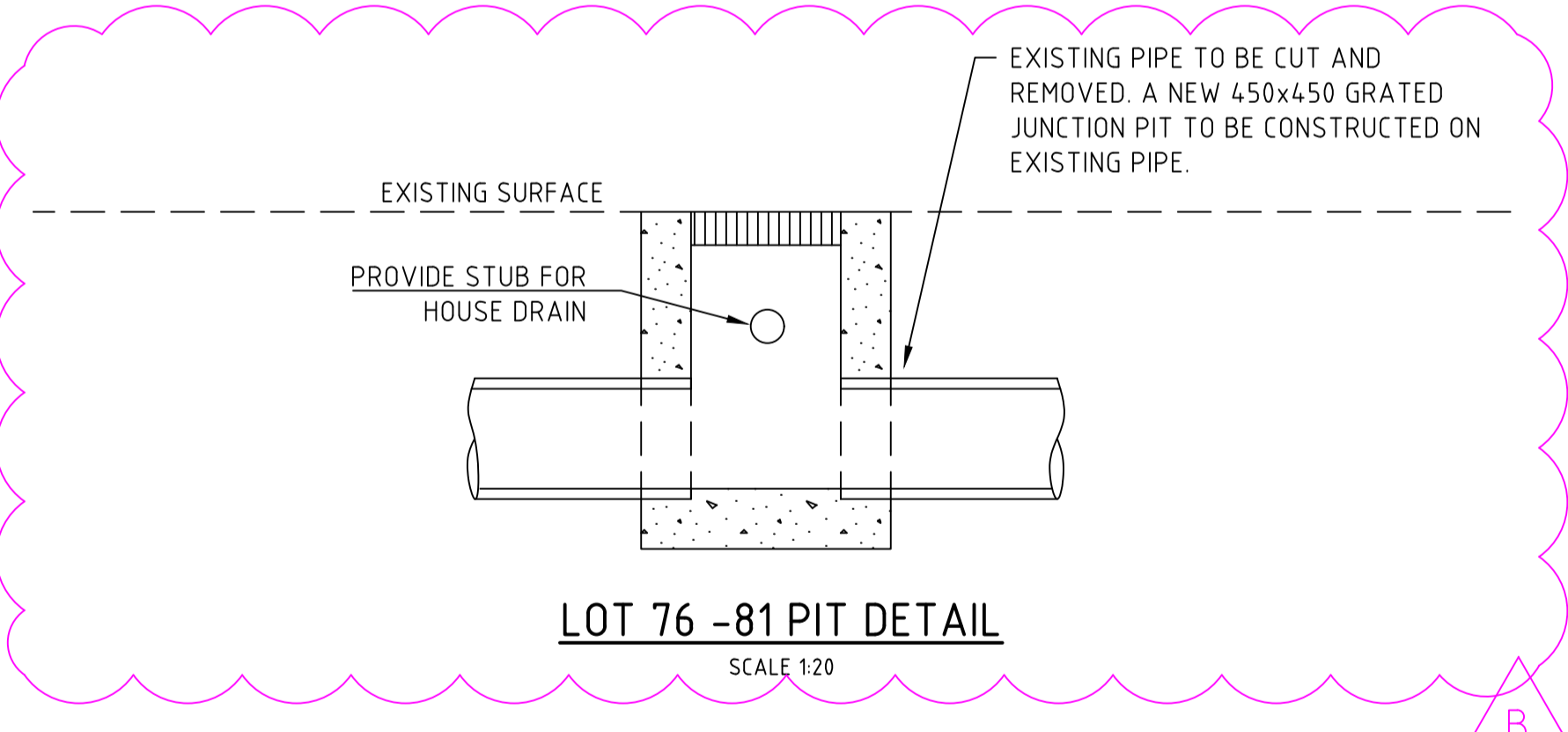
PAVEMENT PLAN
H: 1:1000
SCALE @ A1

STANDARD KERB PROFILES
NOT TO SCALE

- NOTES:**
- ALL KERBS AND KERB & CHANNEL TO BE REINFORCED IN ACCORDANCE WITH MUNICIPALITY STD DRAWINGS.
 - ALL KERBS AND KERB & CHANNEL TO HAVE 150mm DEPTH OF CONCRETE BELOW TOP OF PAVEMENT LEVEL.

TYPICAL PAVEMENT DETAILS
REFER TO AUTHORITY REQUIREMENTS FOR SPECIFIC DETAILS

- GENERAL NOTES:**
- NATURE STRIPS ARE TO BE TOPSOILED WITH MATERIAL STOCKPILED FROM STRIPPING TO A DEPTH OF 100mm. IMPORTED TOPSOIL AND/OR SEEDING MAY BE REQUIRED TO PROVIDE GOOD GRASS COVER.
 - LOCATION OF ALL SERVICE CONDUITS IS TO BE MARKED ON THE FACE OF BOTH KERBS WITH A UNIFORM 50mm DIAMETER MARK, 5mm DEEP. WATER & GAS CONDUITS TO BE 50mm DIAMETER CLASS 12uPVC PIPE. POWER & TELSTRA CONDUIT ARE AS SPECIFIED ON THE POWER PLAN.



PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)	
		A	B
ASPHALT WEARING COURSE	ASPHALT TYPE N, SIZE 10 WITH PRIME	30	0
BASE COURSE	CLASS 2, 20mm NOMINAL SIZE COMPACTED FCR TO A MINIMUM DENSITY OF 98% MMDD	100	0
CONCRETE	30 MPa CONCRETE WITH SL82 MESH	0	150
UPPER PAVEMENT TOTAL		130	150
SUBBASE	CLASS 1 OR 2, 20mm NOMINAL SIZE COMPACTED FCR COMPACTED TO A MINIMUM DENSITY OF 96% MMDD	0	100
SUBBASE	CLASS 3 OR 4, 20mm OR 40mm COMPACTED FCR TO A MINIMUM DENSITY OF 96% MMDD	120	0
STABILISATION	3% LIME AND CEMENT STABILISATION	(200)	0
TOTAL PAVEMENT DEPTH		250	250

ROAD NAME	TYPE
EUCALYPTUS STREET	A
OAKWOOD AVENUE	A
REEF LANE	A
REEF LANE (ADJACENT LOT 47)	B

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 10C 581 REPORT ON "EVERGREEN WATERS - STAGE 1, JACKASS FLAT" AND 17C 0495 REPORT ON "GOLDEN PARK ESTATE STAGE 1" THESE DOCUMENTS SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

A COPY OF THE DOCUMENTS WILL BE PROVIDED 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 COPIED TO SPIIRE.

file name: 307310CR700.dwg, layout name: CR700, plotted by: Harry Oakley-Warren, file location: G:\307310\307310\civil\A1\A1.dwg, plot date: 16/06/2020, 4:37 PM, Sheet 20 of 21 Sheets

AS SHOWN



16 Bridge Street Bendigo
Victoria 3550 Australia T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

Designed
H. OAKLEY-WARREN
Authorised
B. IBBS

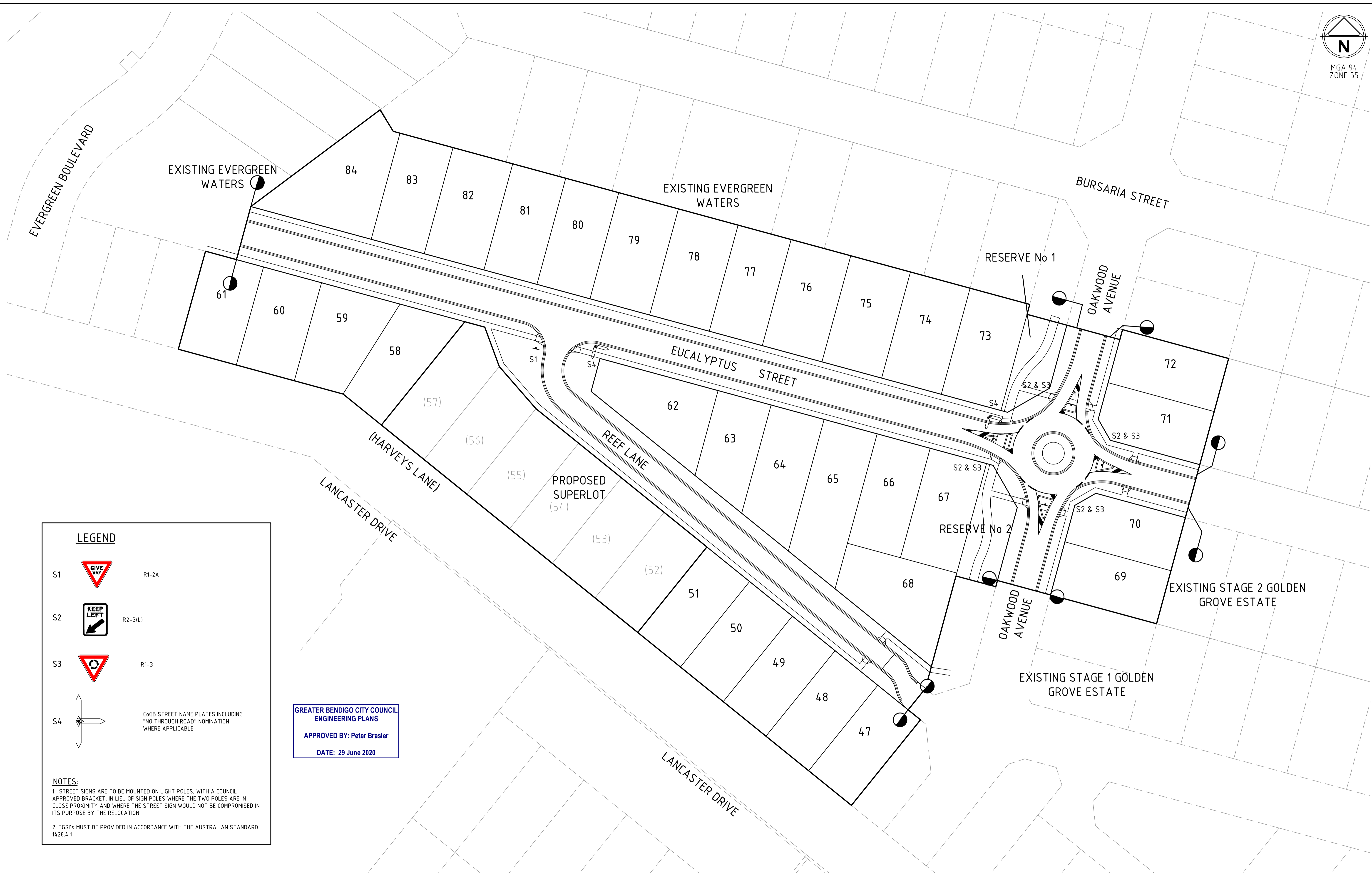
Checked
B. IBBS
Date
JUN 2020

**GOLDEN GROVE STAGE 3
EUCALYPTUS ST, JACKASS FLAT
PAVEMENT AND TYPICAL DETAILS**

CITY OF GREATER BENDIGO DS/226/2010 AND AM/904/2011A
WARRINGAL VIEWS P/L

PRELIMINARY Drg No **307310CR700** Rev **B**

Rev	Amendments	Approved	Date
B	AMENDED PIT DETAIL	B. I.	JUN 2020
A	PRELIMINARY ISSUE	B. I.	JUN 2020



LEGEND

S1		R1-2A
S2		R2-3(L)
S3		R1-3
S4		CoGB STREET NAME PLATES INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE

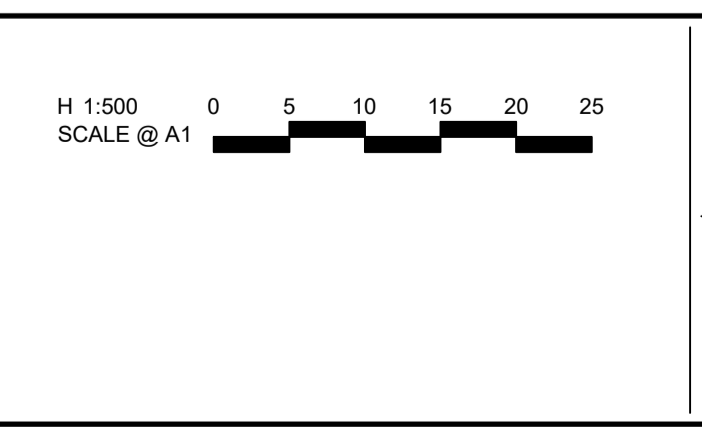
NOTES:

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.

2. TGSi's MUST BE PROVIDED IN ACCORDANCE WITH THE AUSTRALIAN STANDARD 1428.4.1

GREATER BENDIGO CITY COUNCIL
ENGINEERING PLANS
APPROVED BY: Peter Brasier
DATE: 29 June 2020

Rev	Description	Approved	Date
A	PRELIMINARY ISSUE	B. I.	JUN 2020
	Amendments		



© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

spiire

16 Bridge Street Bendigo
Victoria 3550 Australia T 61 3 5448 2500
spiire.com.au ABN 55 050 029 635

Designed H. OAKLEY-WARREN	Checked B. IBBS
Authorised B. IBBS	Date JUN 2020

GOLDEN GROVE STAGE 3
EUCALYPTUS ST, JACKASS FLAT
SIGNAGE AND LINEMARKING

CITY OF GREATER BENDIGO DS/226/2010 AND AM/904/2011A
WARRINGAL VIEWS P/L

PRELIMINARY Drg No **307310CR800** Rev **A**

file name: 307310CR800.dwg layout name: CR800_1.dwg created by: Harry Oakley-Warren
file location: G:\307310\307310\WARRINGAL\307310.dwg plot date: 06/06/2020 16:33 PMS Sheet 21 of 21 Sheets