

OFFICER CENTRAL STAGE 2 YOURLAND PTY LTD

GENERAL NOTES:

SURVEY

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) 94, ZONE 55.
- ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE MUNICIPAL ENGINEER OR HIS REPRESENTATIVE.

- ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB

EARTHWORKS

- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.

- WHERE REQUIRED ANY BUILDINGS, TRENCHES, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.

- ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF SITE UNLESS NOTED OTHERWISE.

- ALL FILLING ON LOTS AND WITHIN ROAD RESERVES GREATER THAN 200mm IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.

- FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, AS 3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.

- ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.

- NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.

- 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 T.B.M.'S THEREAFTER.

- AT LEAST 3 DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 150m DEEP, A NOTIFICATION FORM MUST BE SENT TO WORKSAFE. THE CONTRACTOR IS TO COMPLY WITH WORKSAFE, THE MINES (TRENCHES) REGULATION 1982, THE MINES ACT 1958 AND OCCUPATIONAL HEALTH AND SAFETY ACT 1985, 2004.

- ALL SERVICE TRENCHES UNDER DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND KERB AND CHANNEL OR PAVED TRAFFIC AREAS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.

- WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DESLUGGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED AND LEVELED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH THE SPECIFICATION

- NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCIL'S PERMISSION.

SERVICES

- GAS AND WATER CONDUITS ARE TO BE, Ø50mm . CLASS 12 P.V.C. - SINGLE SERVICE
Ø100mm . CLASS 12 P.V.C. - DUAL SERVICE (DRINKING AND NON DRINKING WATER)

WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:
ROAD PAVEMENT - 0.80m
VERGE, FOOTPATHS - 0.45m

LOCATION OF THE CONDUITS TO BE MARKED ON THE FACE OF KERB ON EACH SIDE OF THE ROAD WITH A 50mm HIGH LETTER (G FOR GAS, W FOR WATER, E FOR ELECTRICITY AND T FOR TELECOMMUNICATIONS).

- ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.

- WATER TAPPINGS TO BE LOCATED IN CENTRE OF ALLOTMENTS UNLESS OTHERWISE SHOWN.

STORM WATER DRAINAGE

- AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.

- ALL STORMWATER DRAINS ARE TO BE CLASS '2' R.C. PIPES UNLESS OTHERWISE SHOWN. ALL R.C. JOINTS ARE TO BE RUBBER RING JOINTED (R.R.J.) UNLESS OTHERWISE SHOWN
- CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
- WHERE CURVED PIPES ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.

PAVEMENT

- PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.

- WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 95% AUSTRALIAN STANDARD DENSITY.

- WHEN PAVEMENT EXCAVATION IS IN ROCK ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.

SIGNAGE AND LINEMARKING

- LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742 SERIES UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH COUNCIL STANDARDS.

- ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.

- TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.

ENVIRONMENTAL

- CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. PRIOR TO THE COMMENCEMENT OF WORKS.

- ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN. IF ROAD AND DRAINAGE CONSTRUCTION NECESSITATES THEIR REMOVAL, WRITTEN PERMISSION MUST BE OBTAINED FROM THE SUPERINTENDENT.

- TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS.

MISCELLANEOUS

- THE CONTRACTOR IS REQUIRED TO OBTAIN A 'PERMIT TO WORK' FROM MELBOURNE WATER'S SURVEILLANCE OFFICER AT THE PRE-COMMENCEMENT MEETING. THE CONTRACTOR IS REQUIRED TO ENSURE THAT THE 'PERMIT TO WORK' IS KEPT UP TO DATE FOR THE DURATION OF THE CONTRACT.

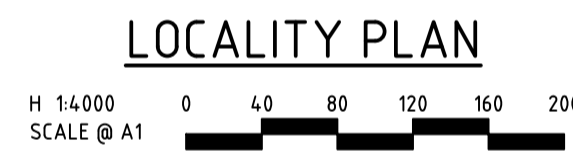
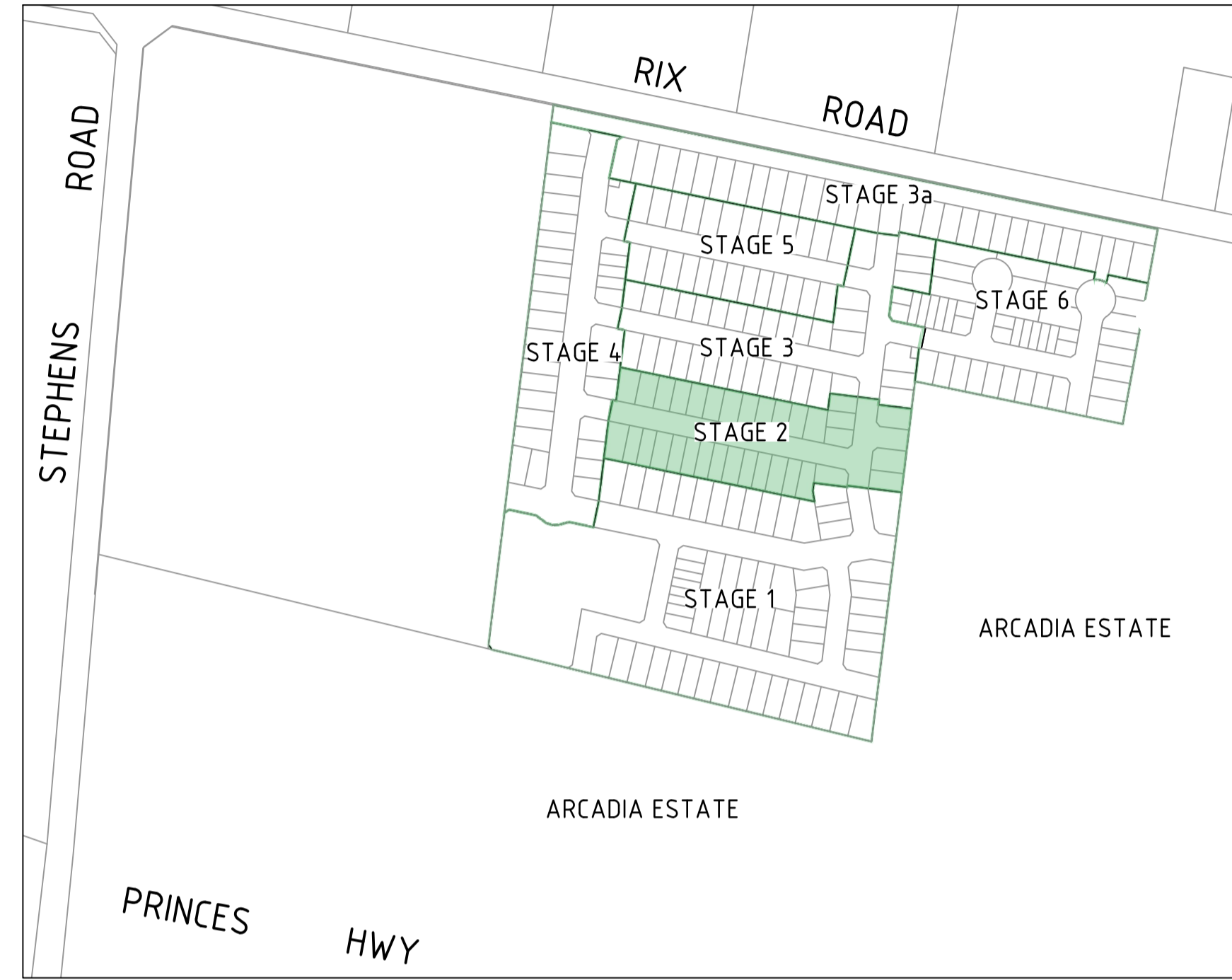
- PROVIDE REFLECTIVE STREET NUMBER MARKERS ON THE KERB IN FRONT OF EACH LOT TO THE SATISFACTION OF COUNCIL.

- UPON COMPLETION OF THE CIVIL WORKS, THE CONTRACTOR SHALL PROVIDE AS CONSTRUCTED PLANS IN AUTOCAD, D-SPEC AND R-SPEC DIGITAL FORMAT TO COUNCIL'S REQUIREMENTS AND TO THE SATISFACTION OF ALL PARTIES.

- HOUSE DRAIN LOCATIONS ARE TO BE STAMPED ON THE KERB FACE IN ACCORDANCE WITH VPA EDM303



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.



DRAWING SCHEDULE

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

LEGEND

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

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Rev	Amendments	Approved	Date
4	AS CONSTRUCTED	B.W	07/09/22
3	DRAWINGS CR100 & CR200 REVISED	B.W	28/03/22
2	DRAWINGS CR100, CR200 & CR403 REVISED	B.W	31/01/22
1	AMENDED SHEET CR201	B.W	01/12/21
0	ISSUED FOR CONSTRUCTION	S.M	17/09/21
A	PRELIMINARY ISSUE	S.M	29/04/21

ISO 9001
ISO 45001
ISO 14001

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spiire.com.au ABN 55 050 029 635

YourLand Developments

Designed
M. WRIGHT

Checked
B. IBBS

Authorised
B. WAREHAM

Date
01/12/21

**OFFICER CENTRAL
STAGE 2
ROAD AND DRAINAGE
GENERAL NOTES**
CARDINIA SHIRE
YOURLAND PTY LTD

AS CONSTRUCTED

Drg No
308546CR100

Rev
4



TBM STAR PICKET
RL 34.385
E 3594405.37
N 5785287.89

TBM STAR PICKET
RL 32.54
E 359698.035
N 5785282.785

FUTURE
STAGE 4

FUTURE
STAGE 3

ARCADIA
ESTATE
STAGE 19

ARCADIA
ESTATE
STAGE 19

RESERVE

EXISTING
STAGE 1

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.



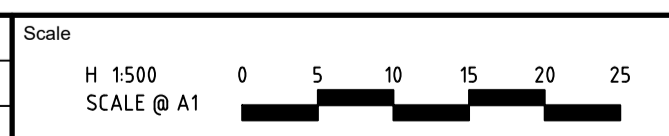
SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		WATER (NDW)		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE SIDE	U/G CABLE SIDE	OFFSET	
SALT MARSH ROAD	W	2.525	W	2.10	W	1.70	E	1.85	E	0.9x	E	2.45
DAISY STREET	S	2.837	S	2.412	S	2.017	N	1.85	N	0.9x	N	2.35
ROALD STREET	S	2.75	S	2.25	S	1.80	N	1.85	N	0.9x	N	2.25

- 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

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Rev	Amendments	Approved	Date
3	AS CONSTRUCTED	B.W	07/09/22
2	OFFSET TABLE REVISED	B.W	28/03/22
1	SERVICE LOCATION TABLE REVISED	B.W	31/01/22
0	ISSUED FOR CONSTRUCTION	S.M	17/09/21
A	PRELIMINARY ISSUE	S.M	29/04/21



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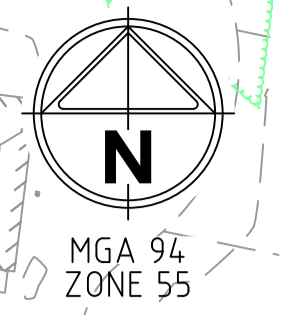


Designed
M. WRIGHT
Authorised
B. WAREHAM
Checked
B. IBBS
Date
01/12/21

**OFFICER CENTRAL
STAGE 2
ROAD AND DRAINAGE
ROAD LAYOUT PLANS - FACE PLAN**
CARDINIA SHIRE
YOURLAND PTY LTD

AS CONSTRUCTED Drg No **308546CR200** Rev **3**

 FILL GREATER THAN 200mm
 CUT GREATER THAN 200mm



TBM STAR PICKET
 RL 34.385
 E 359405.37
 N 5785287.89

TBM STAR PICKET
 RL 32.54
 E 359698.035
 N 5785282.785

FUTURE
 STAGE 4

FUTURE
 STAGE 3

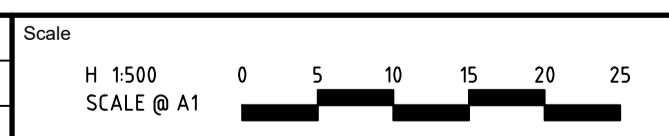
ARCADIA
 ESTATE
 STAGE 19

ARCADIA
 ESTATE
 STAGE 19

EXISTING
 STAGE 1

RESERVE

WARNING
 BEWARE OF UNDERGROUND/OVERHEAD SERVICES
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 B. IBBS
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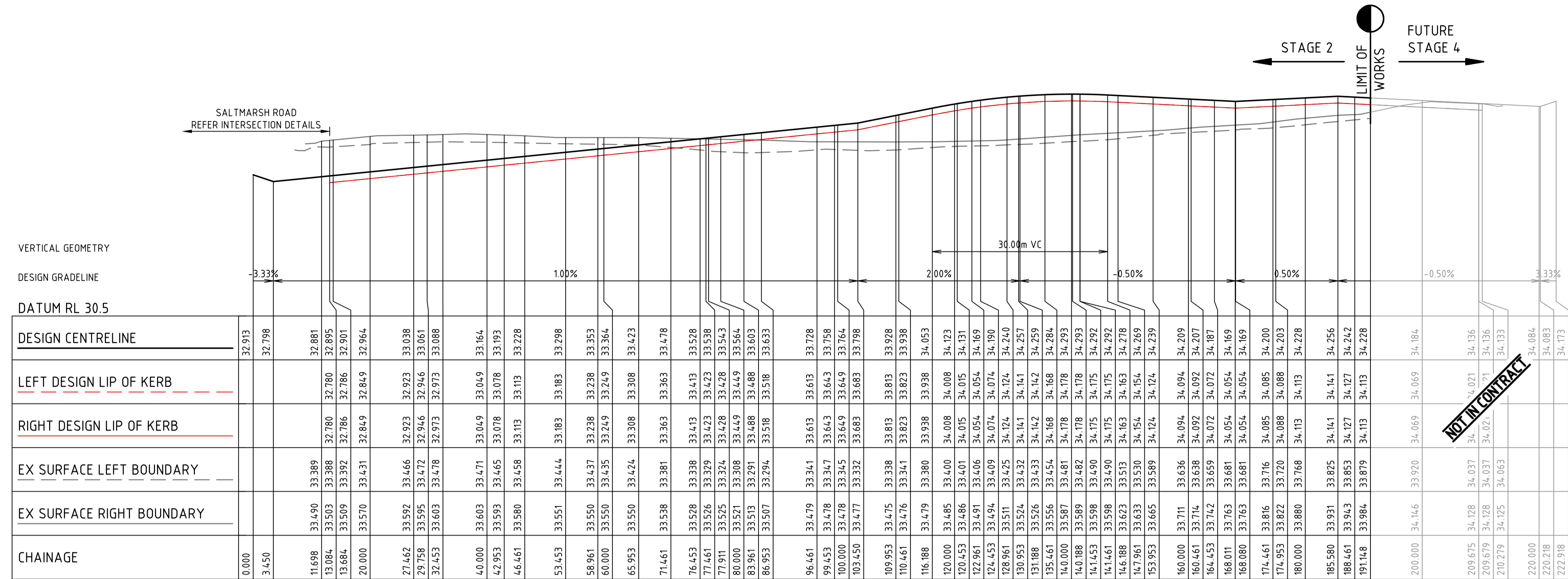
**OFFICER CENTRAL
 STAGE 2
 ROAD AND DRAINAGE
 ROAD LAYOUT PLANS - EARTHWORKS PLAN**
 CARDINIA SHIRE
 YOURLAND PTY LTD

AS CONSTRUCTED Drg No **308546CR201** Rev **2**

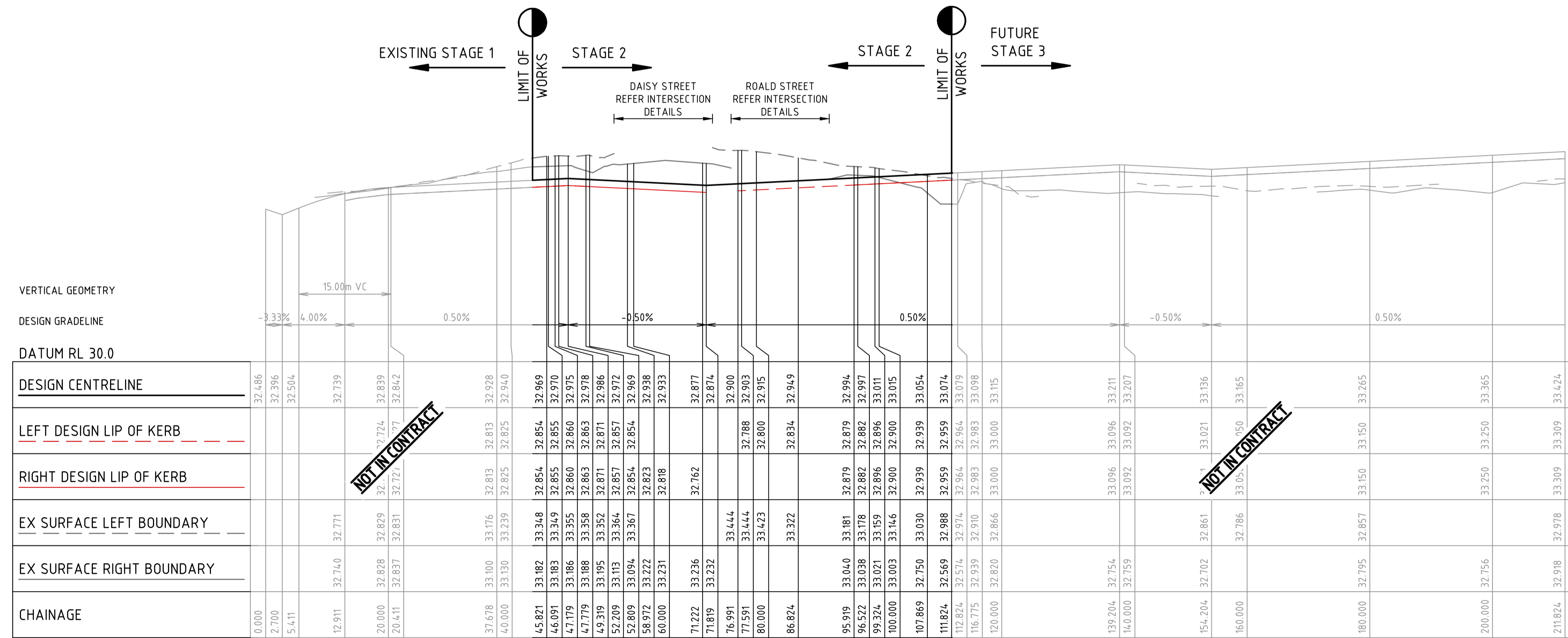
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Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	B.W	07/09/22
1	AMENDED LOT LEVELS	B.W	01/12/21
0	ISSUED FOR CONSTRUCTION	S.M	17/09/21

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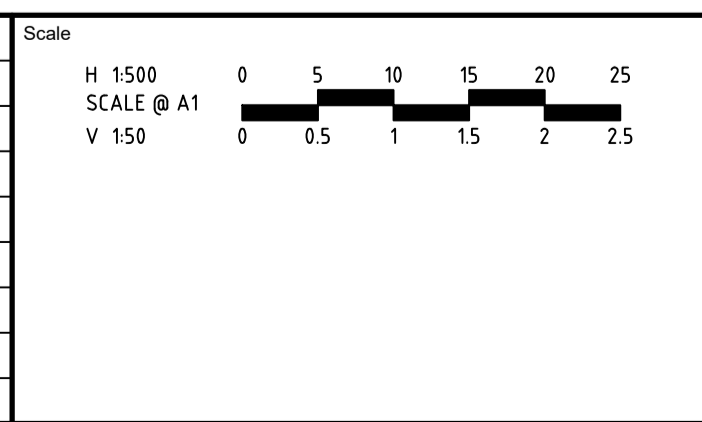


DAISY STREET



SALTMARSH ROAD

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	B.W	07/09/22
0	ISSUED FOR CONSTRUCTION	S.M	17/09/21
A	PRELIMINARY ISSUE	S.M	29/04/21



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Checked
B. IBBS

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B. WAREHAM

Date
01/12/21

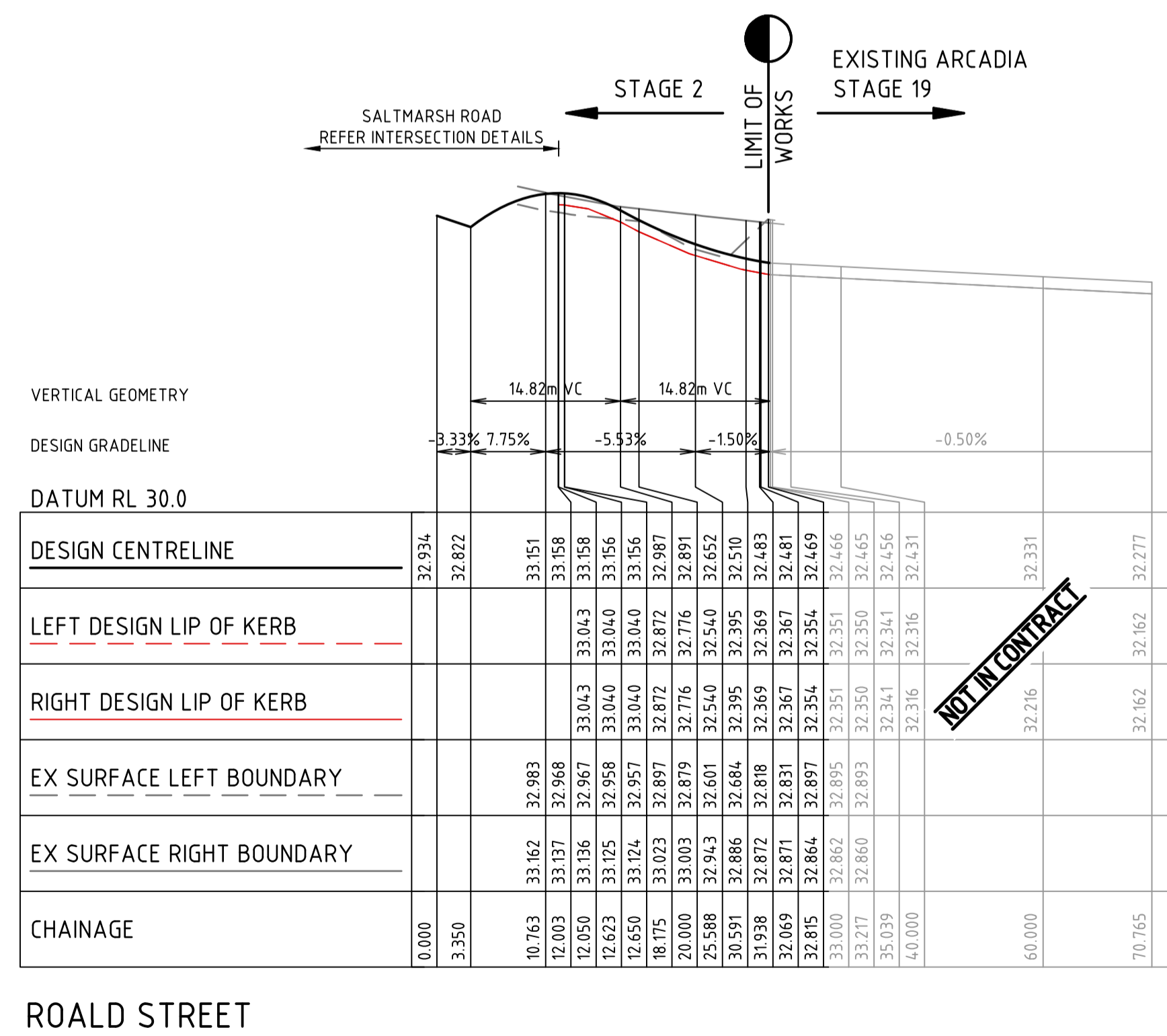
OFFICER CENTRAL
STAGE 2
ROAD AND DRAINAGE
ROAD LONG SECTIONS - SHEET 1
CARDINIA SHIRE
YOURLAND PTY LTD

AS CONSTRUCTED

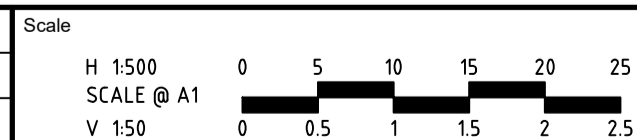
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Rev
1

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ROAD STREET



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Designed M. WRIGHT	Checked B. IBBS
Authorised B. WAREHAM	Date 01/12/21

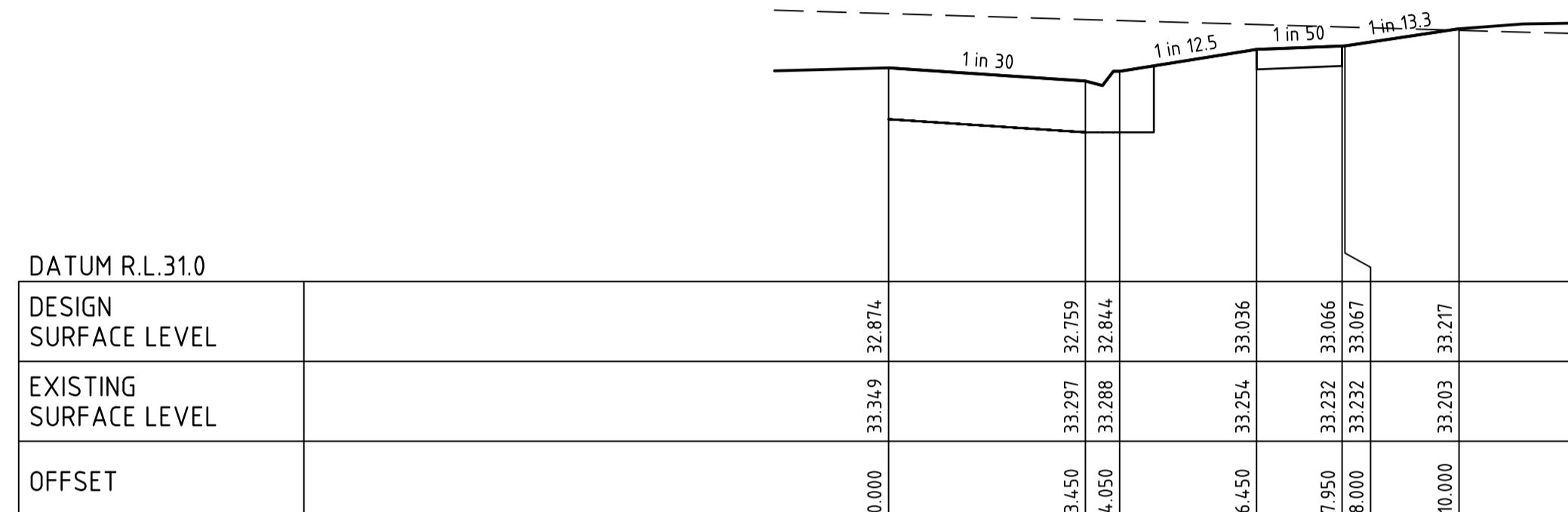
**OFFICER CENTRAL
 STAGE 2
 ROAD AND DRAINAGE
 ROAD LONG SECTIONS - SHEET 2
 CARDINIA SHIRE
 YOURLAND PTY LTD**

AS CONSTRUCTED Drg No **308546CR301** Rev **1**

FILLING NOTE
 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.

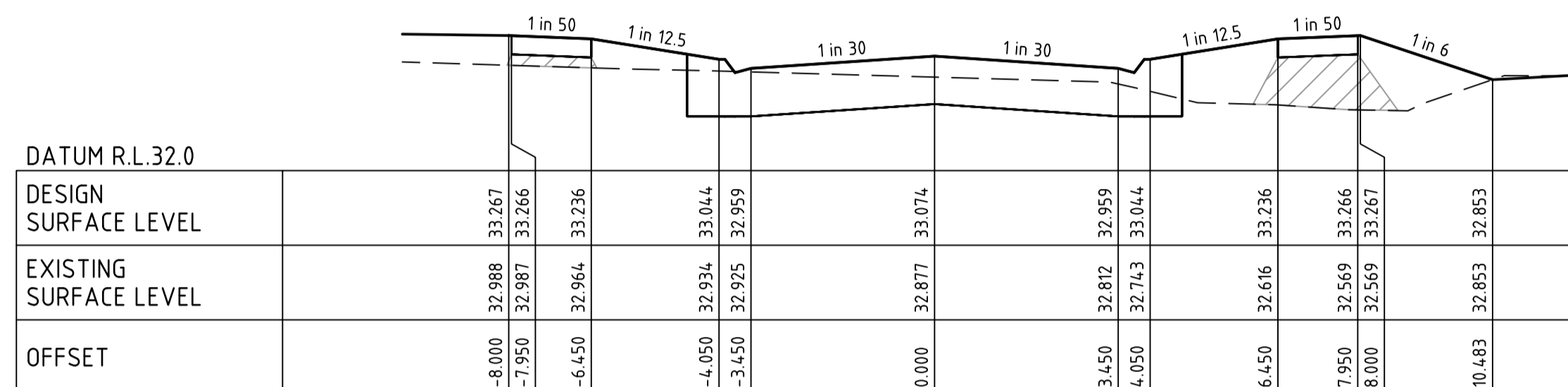
 STRUCTURAL FILL IN ACCORDANCE WITH AS3790-2007 LEVEL 1

DAISY STREET.
 REFER INTERSECTION DETAILS



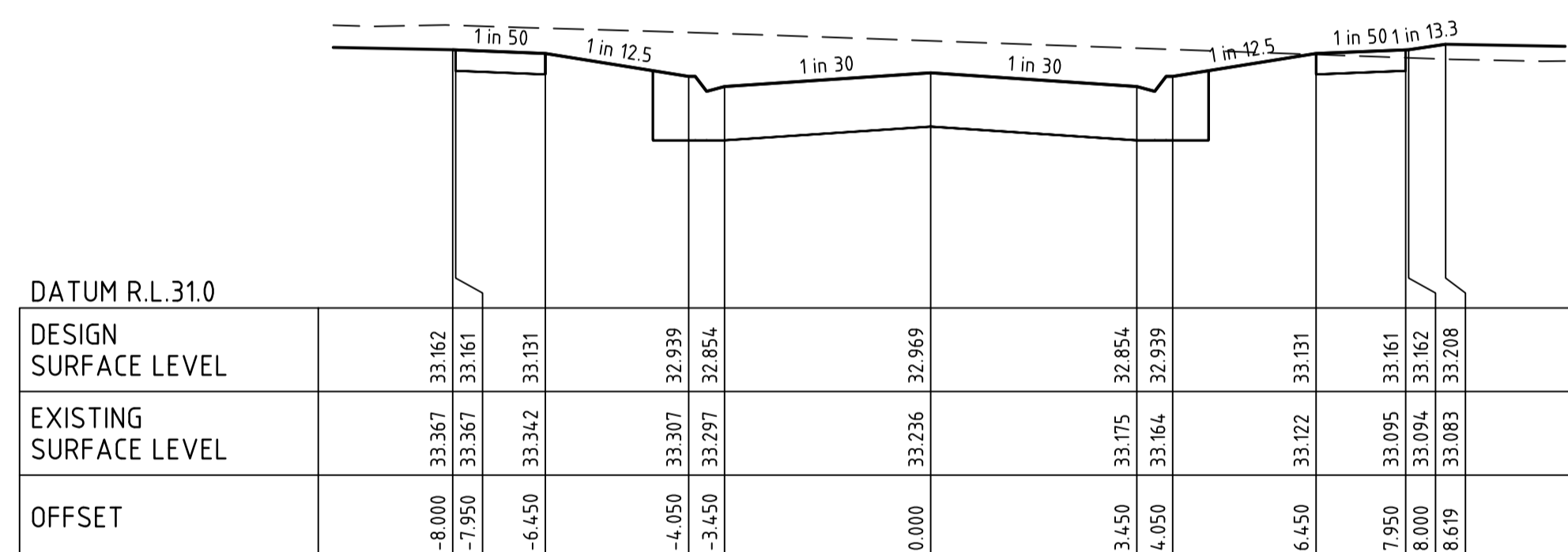
SALTMARSH ROAD

CH 71.82



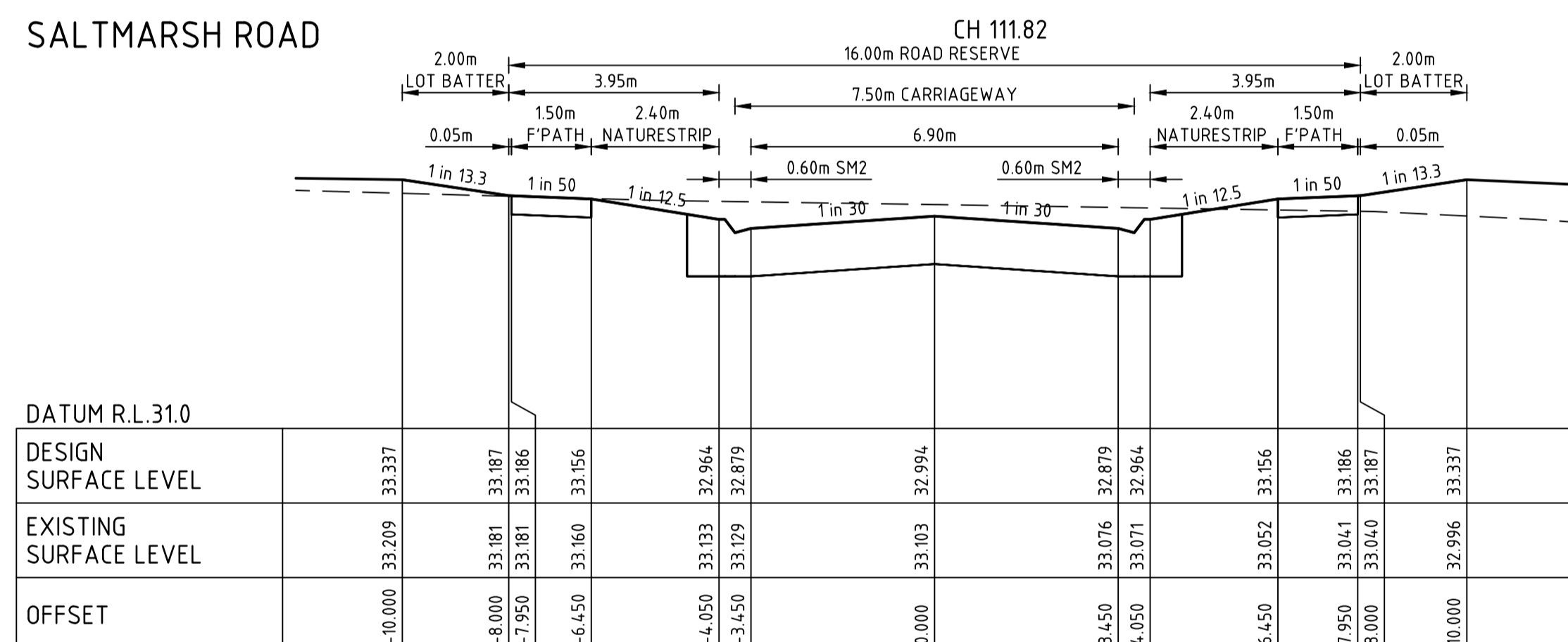
SALTMARSH ROAD

CH 111.82



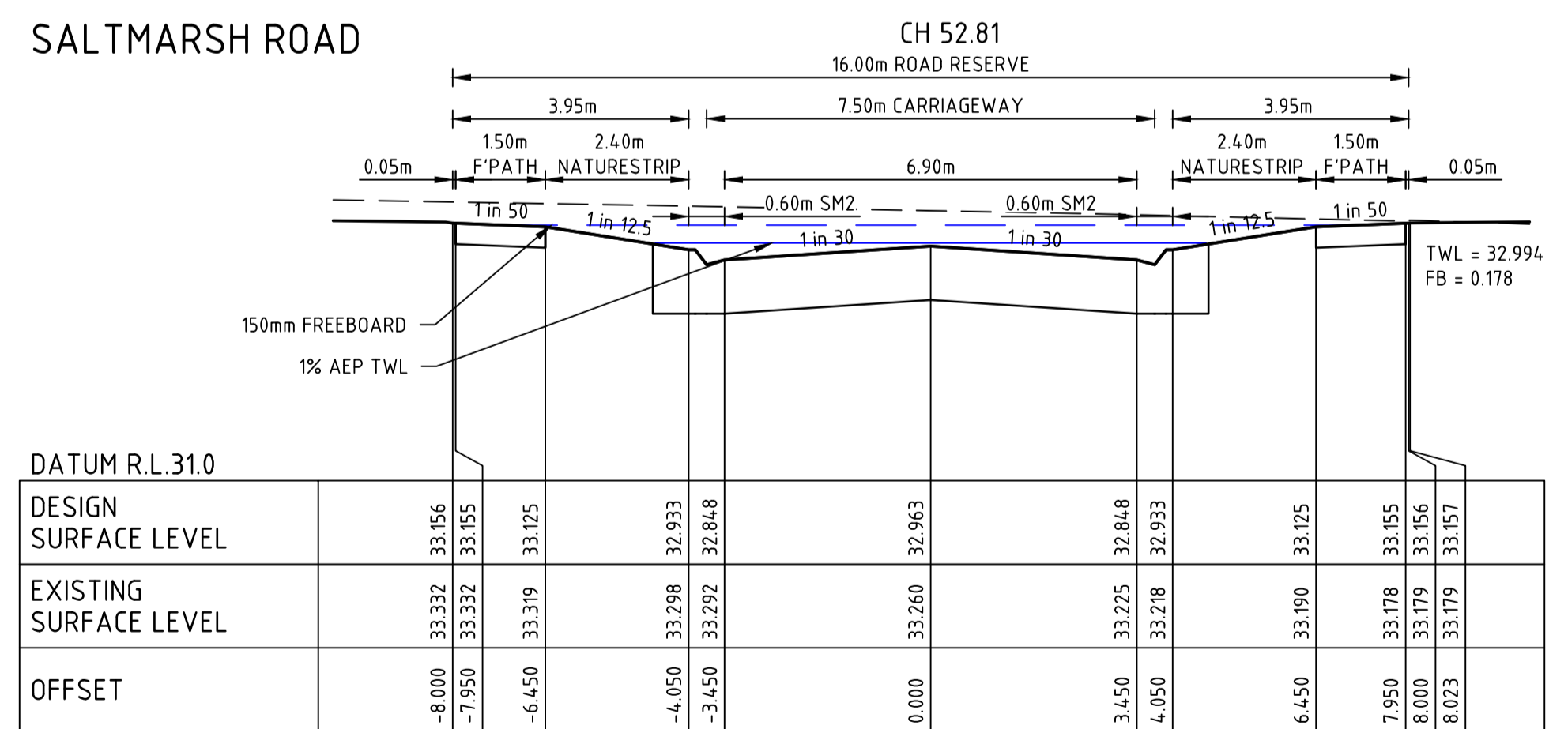
SALTMARSH ROAD

CH 52.81



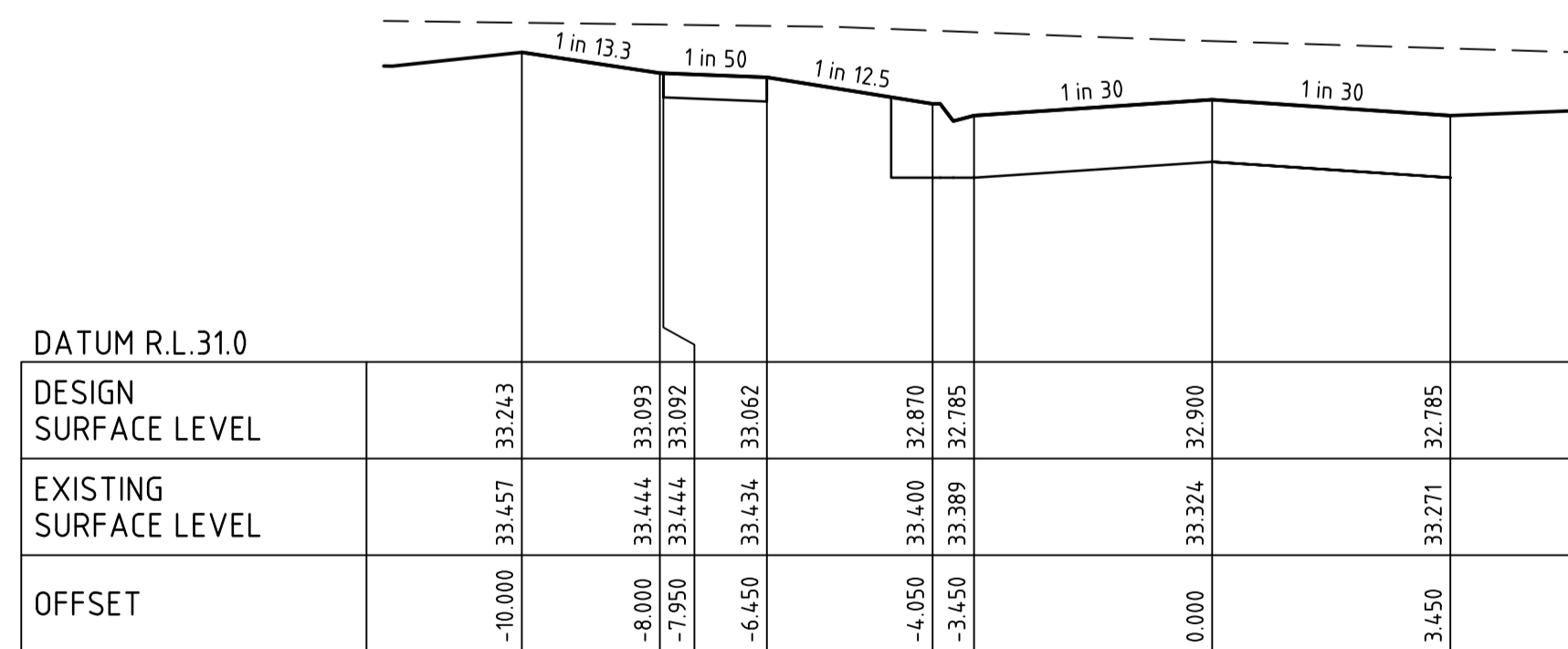
SALTMARSH ROAD

CH 95.92



SALTMARSH ROAD

CH 44.60



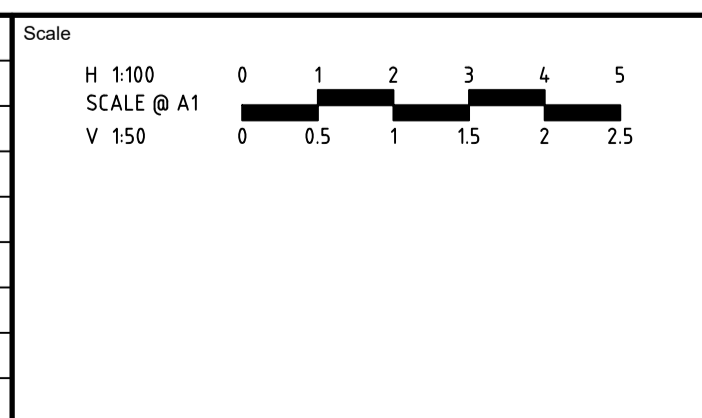
SALTMARSH ROAD


CH 76.99

ROAD STREET.
 REFER INTERSECTION DETAILS


file name: 308546CR400.dwg, layout name: C81400, plotted by: Bryan Wicksman, file location: \\spire\shared\proj_data\308546\308546.dwg, plot date: 12/09/2022 12:27 PM, Sheet: 6 of 16 Sheets

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	B.W	07/09/22
0	ISSUED FOR CONSTRUCTION	S.M	17/09/21
A	PRELIMINARY ISSUE	S.M	29/04/21




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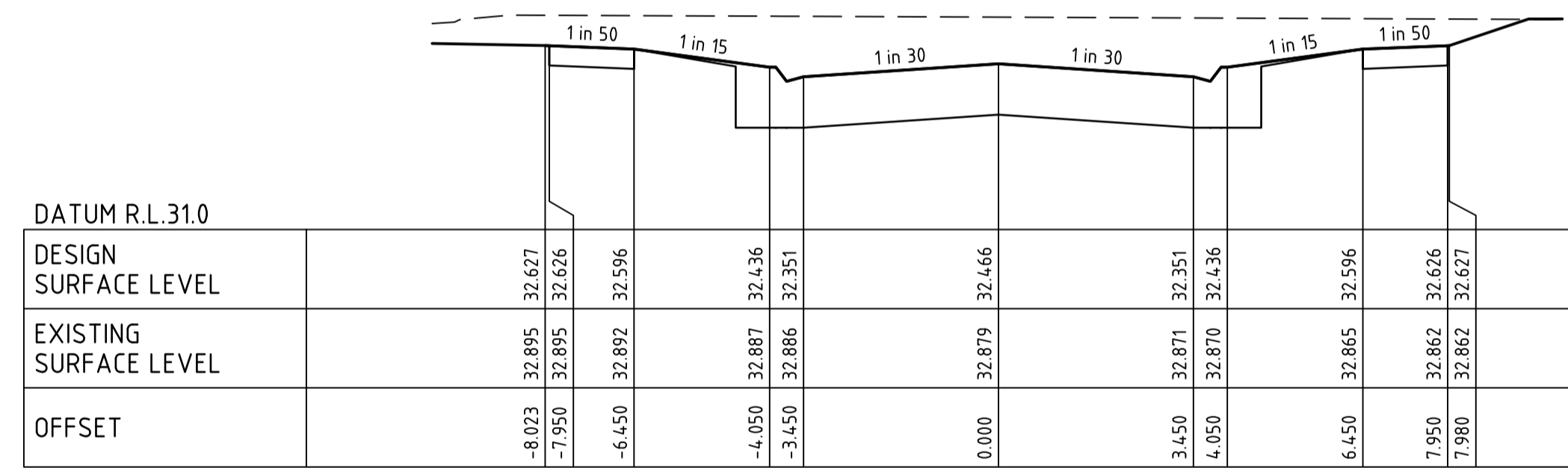

 L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE
 VICTORIA 8007 AUSTRALIA T 61 3 9993 7888
 spiire.com.au ABN 55 050 029 635


 Designed: M. WRIGHT
 Authorised: B. WAREHAM
 Checked: B. IBBS
 Date: 01/12/21

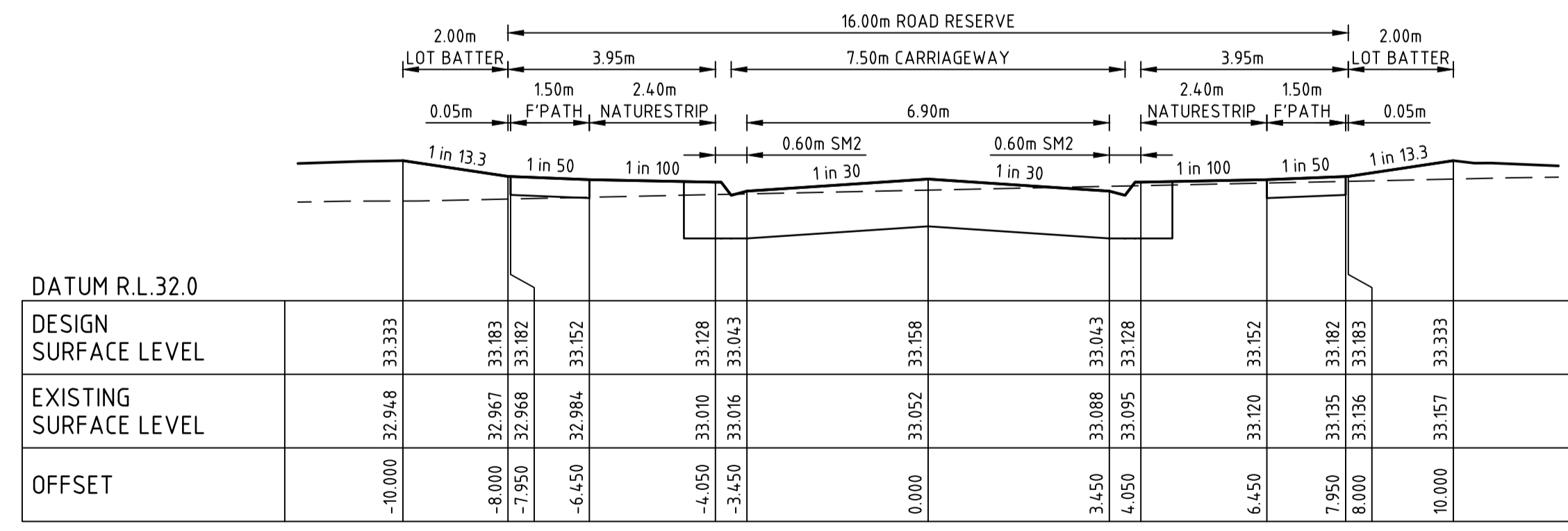
OFFICER CENTRAL
STAGE 2
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 1
 CARDINIA SHIRE
 YOURLAND PTY LTD
AS CONSTRUCTED Drg No: 308546CR400 Rev: 1

FILLING NOTE
 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.

 STRUCTURAL FILL IN ACCORDANCE WITH AS3790-2007 LEVEL 1



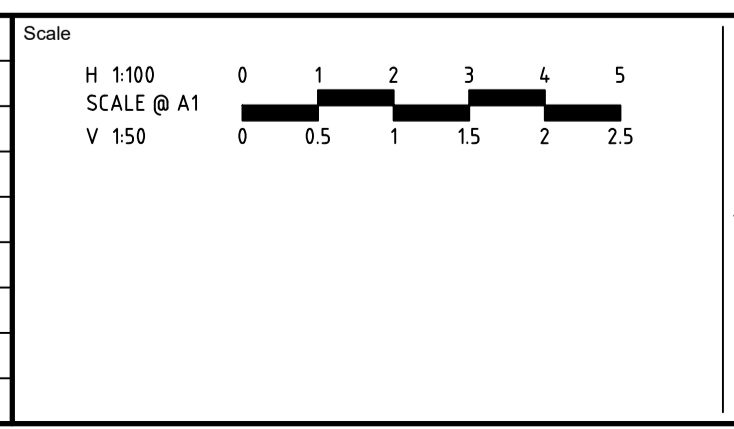
ROAD STREET CH 33.00 EXISTING




ROAD STREET CH 12.05

file name: 308546CR402.dwg, last modified by: Dariusz Wicisniewski
 file location: D:\308546CR402\308546CR402\CAD\plot date: 12/09/2022 12:28 PM Sheet 8 of 16 Sheets

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	B.W	07/09/22
0	ISSUED FOR CONSTRUCTION	S.M	17/09/21
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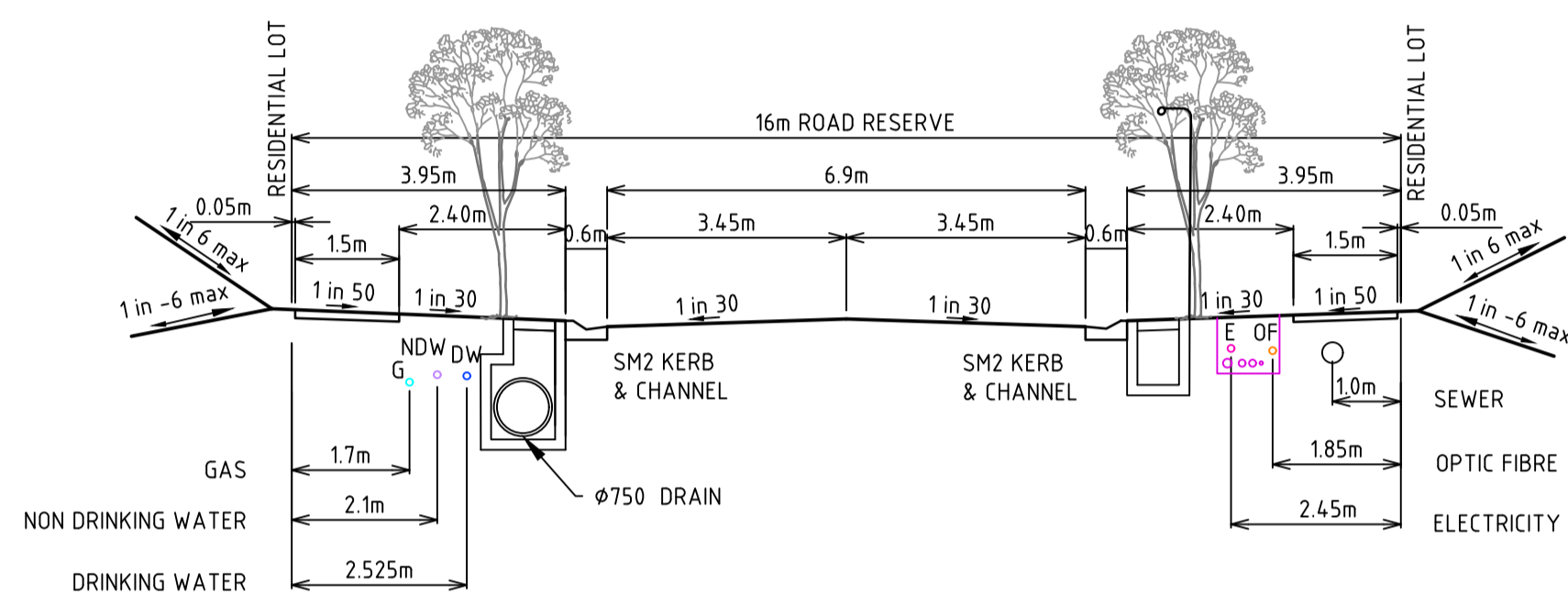



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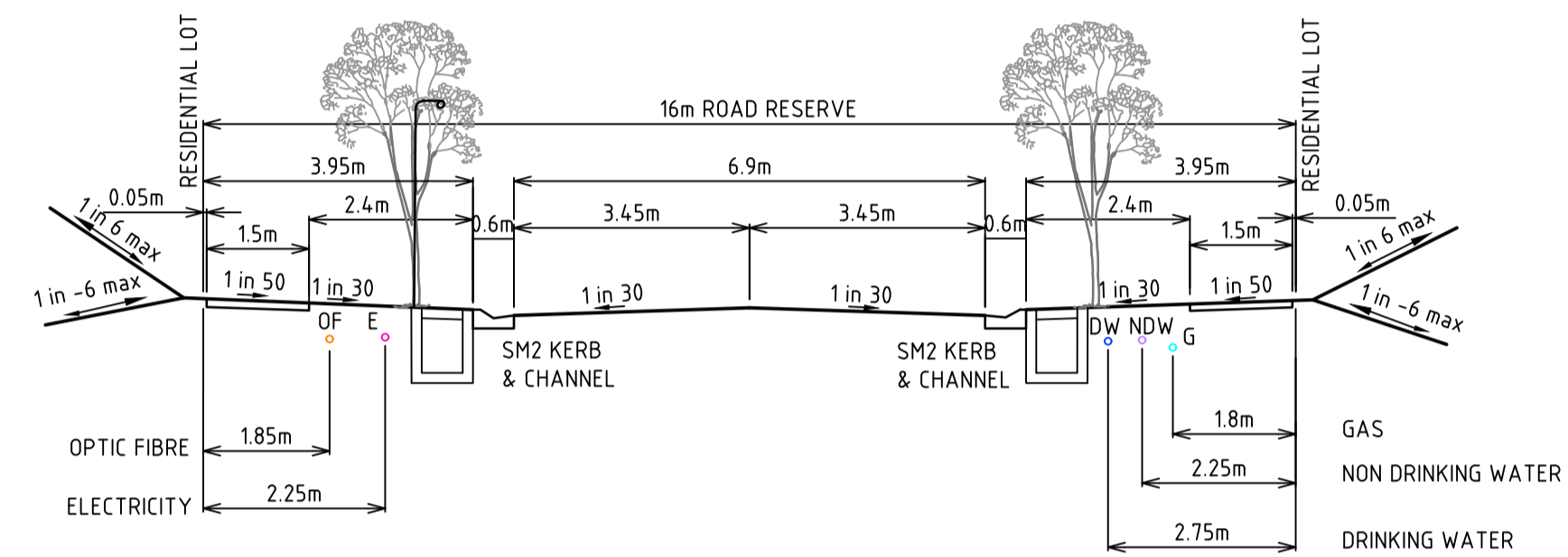

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 M. WRIGHT
 Authorised
 B. WAREHAM
 Checked
 B. IBBS
 Date
 01/12/21

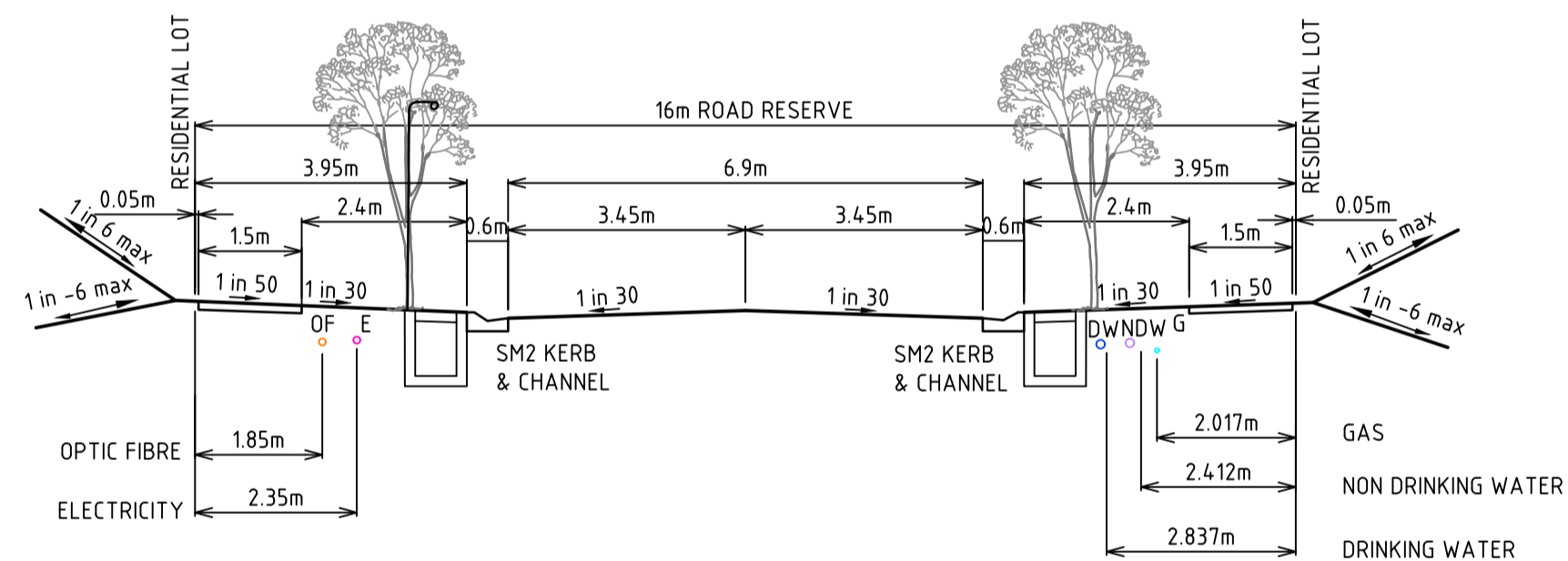
**OFFICER CENTRAL
 STAGE 2
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 3**
 CARDINIA SHIRE
 YOURLAND PTY LTD
AS CONSTRUCTED Drg No **308546CR402** Rev **1**



1. SALT MARSH ROAD
16m WIDE RESIDENTIAL ROAD



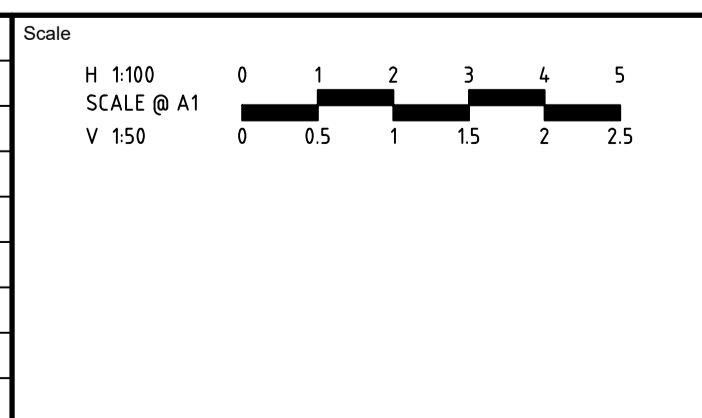
2. ROALD STREET
16m WIDE RESIDENTIAL ROAD



2. DAISY STREET
16m WIDE RESIDENTIAL ROAD

file name: 308546CR403.dwg, location: C:\Users\peter\OneDrive\Documents\308546CR403.dwg, plot date: 12/09/2022, 12:28 PM, Sheet: 9 of 16 Sheets

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	B.W	07/09/22
1	SERVICE OFFSETS REVISED	B.W	31/01/22
0	ISSUED FOR CONSTRUCTION	S.M	17/09/21
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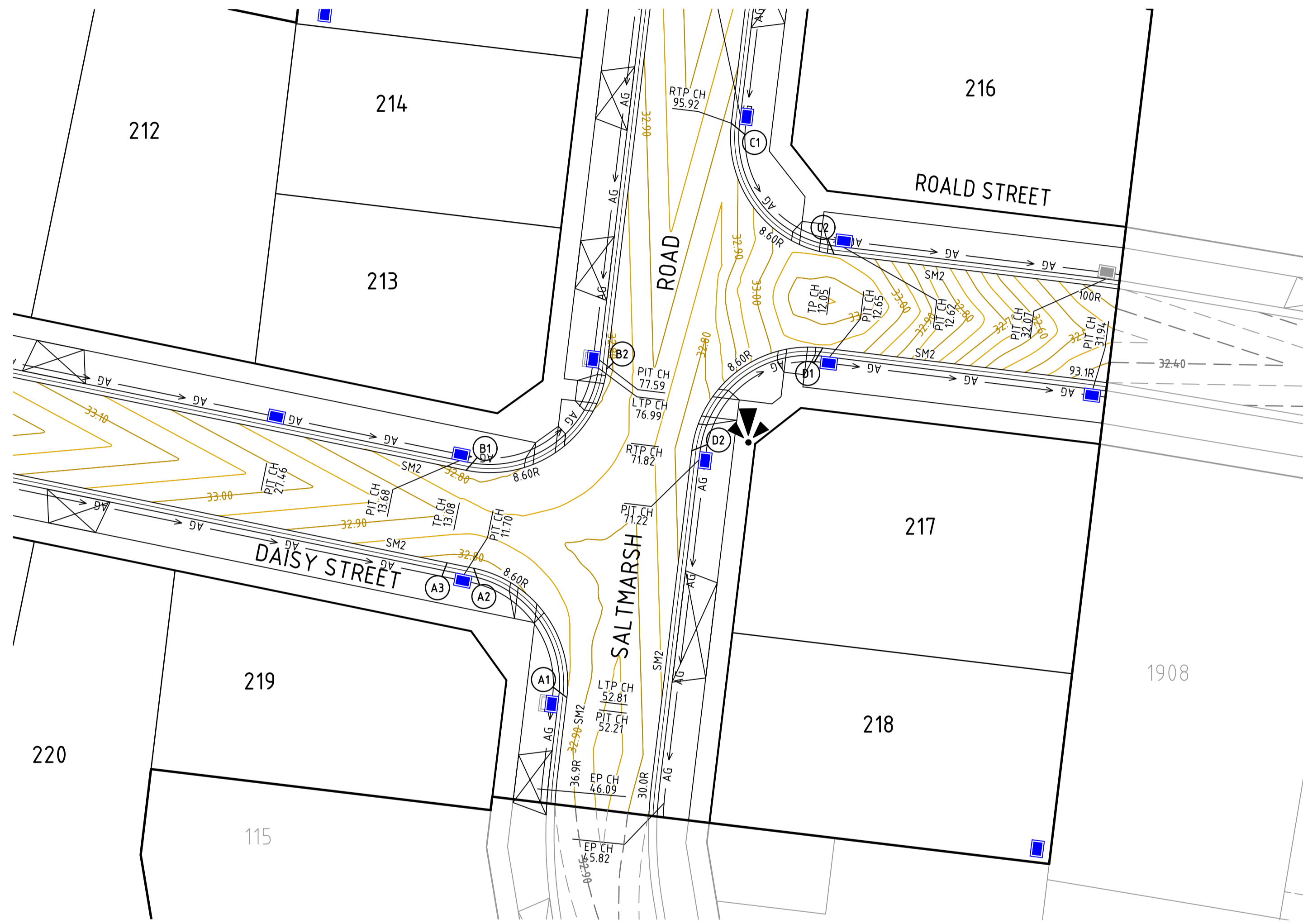
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Designed M. WRIGHT	Checked B. IBBS
Authorised B. WAREHAM	Date 01/12/21

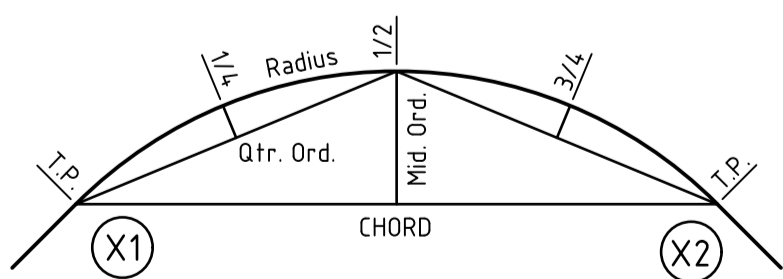
OFFICER CENTRAL
STAGE 2
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 4
 CARDINIA SHIRE
 YOURLAND PTY LTD

AS CONSTRUCTED

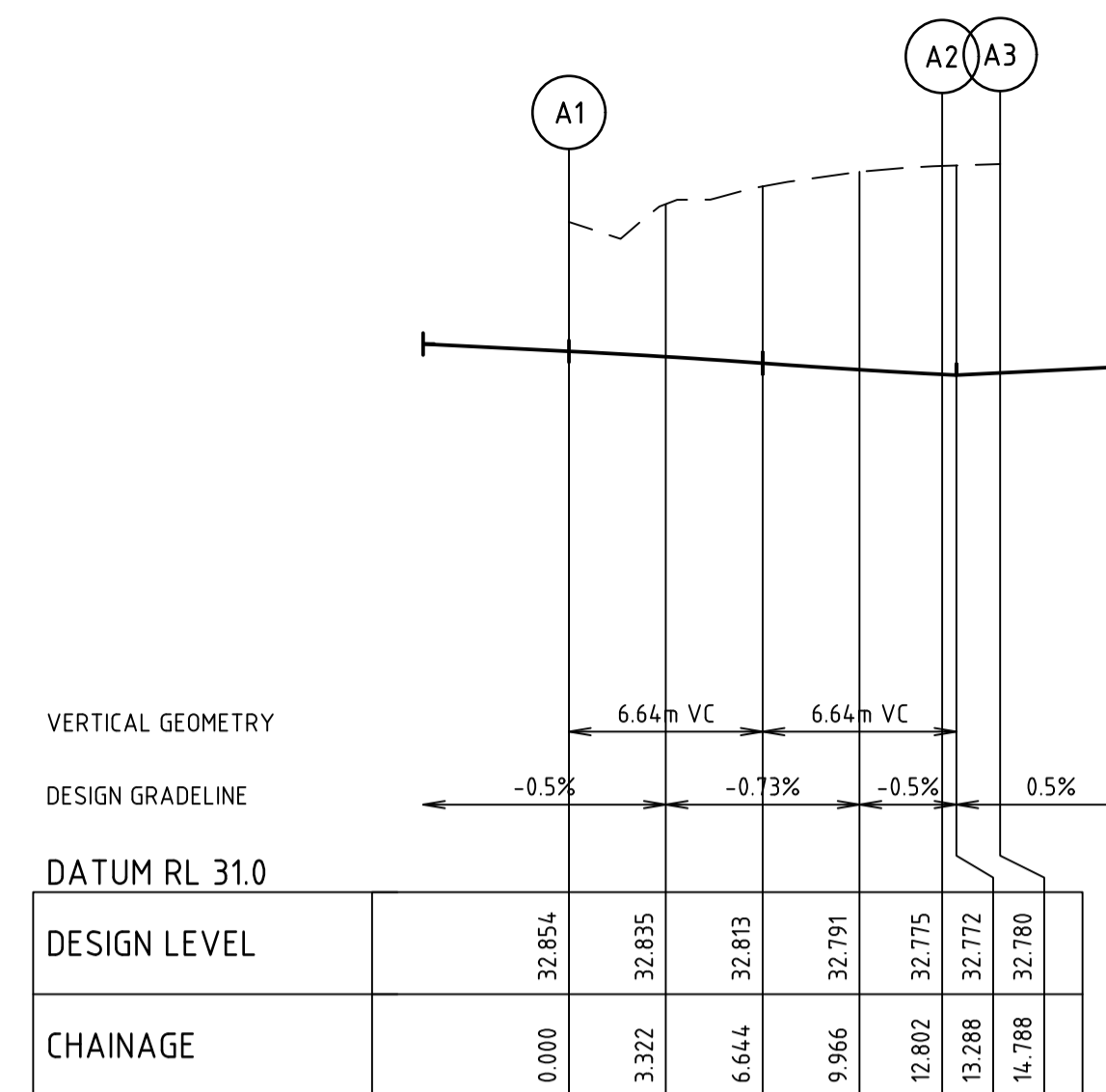
Dwg No **308546CR403** Rev **2**



INTERSECTION DETAIL PLAN
INTERSECTION OF SALTMARSH ROAD, DAISY STREET AND ROALD STREET



KERB RETURN SETOUT DETAIL

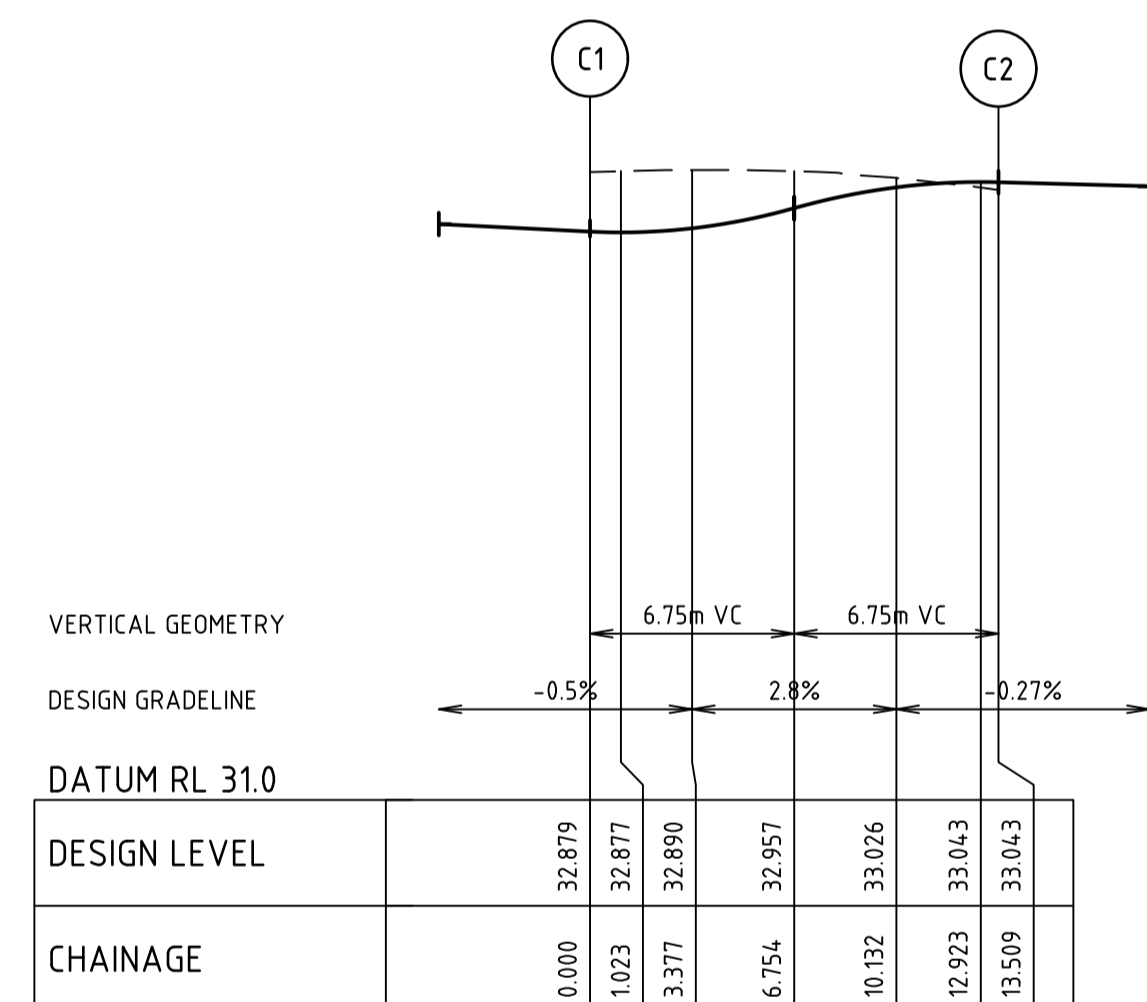


ALIGNMENT A

ALIGNMENT A

POINT NO	EASTING	NORTHING	RL	CHAINAGE
A1	359653.664	5785210.600	32.854	0.000
1/4	359653.455	5785213.775	32.836	3.200
1/2	359652.105	5785216.657	32.815	6.401
3/4	359649.800	5785218.851	32.793	9.601
A2	359646.855	5785220.056	32.775	12.802
A3	359644.910	5785220.455	32.780	14.788

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1-A2	8.600	12.802	11.652	2.274	0.589

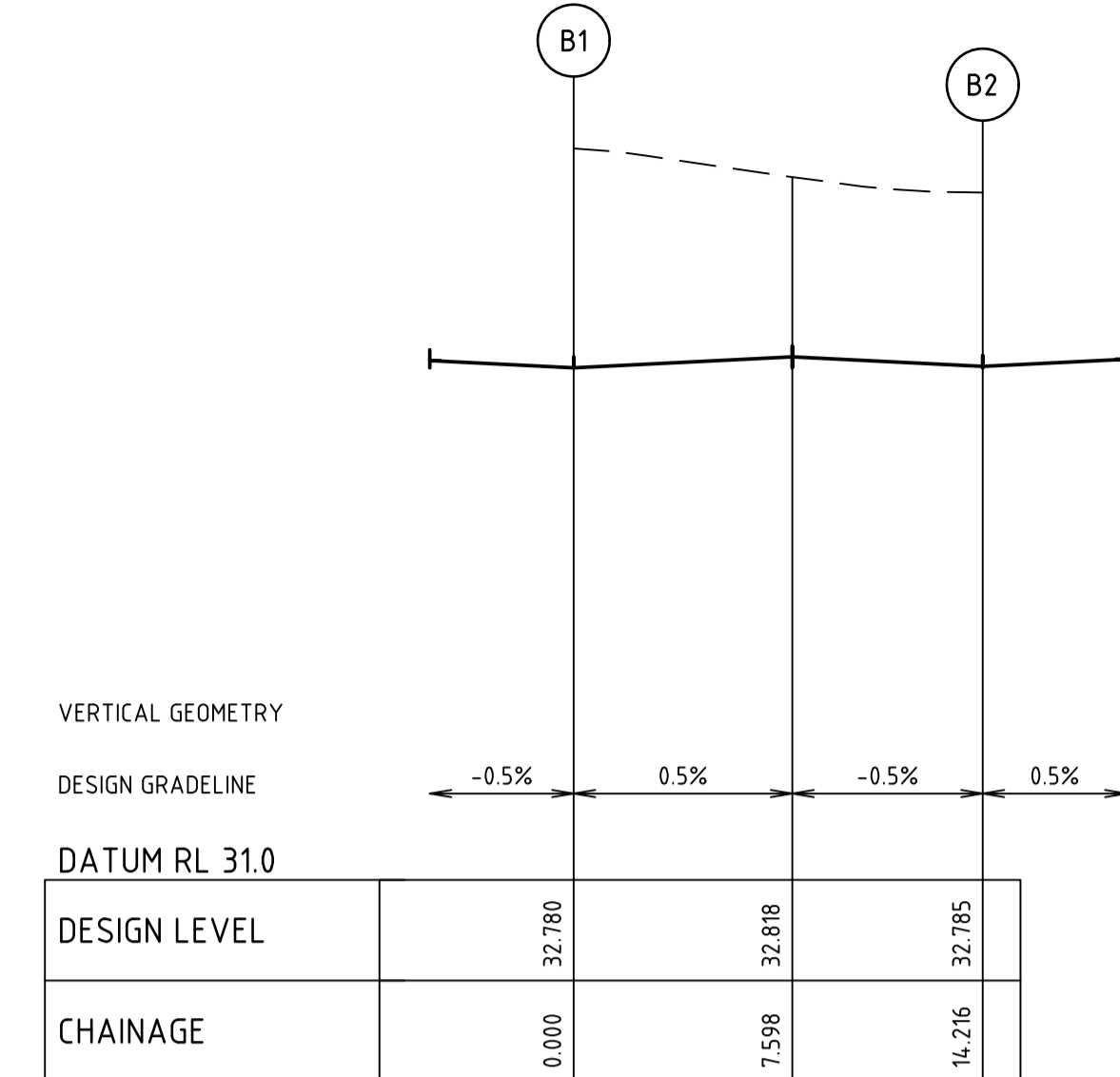


ALIGNMENT C

ALIGNMENT C

POINT NO	EASTING	NORTHING	RL	CHAINAGE
C1	359665.683	5785252.571	32.879	0.000
1/4	359665.939	5785249.225	32.890	3.377
1/2	359667.455	5785246.232	32.957	6.754
3/4	359670.001	5785244.047	33.026	10.132
C2	359673.190	5785243.002	33.043	13.509

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
C1-C2	8.600	13.509	12.162	2.519	0.655

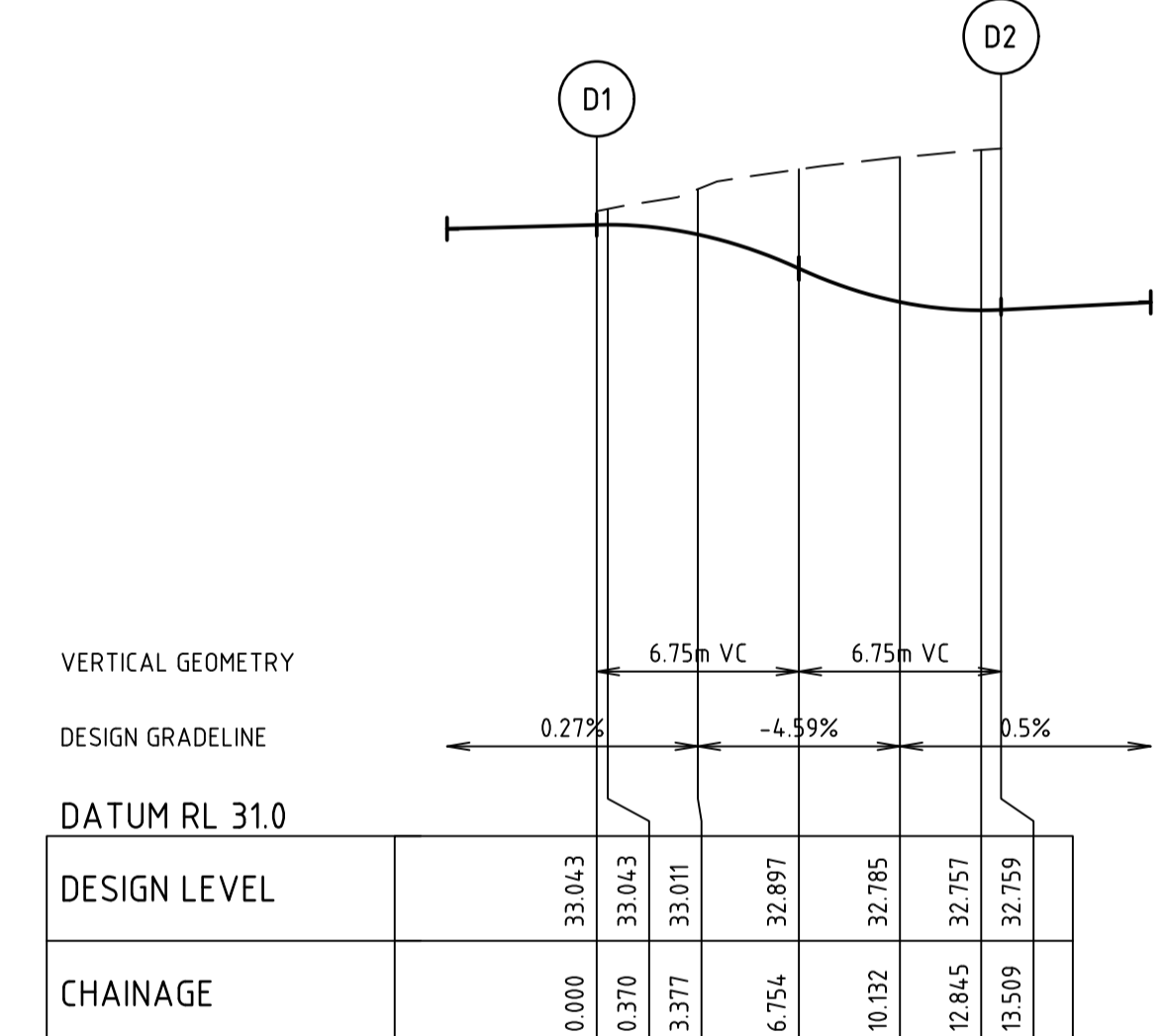


ALIGNMENT B

ALIGNMENT B

POINT NO	EASTING	NORTHING	RL	CHAINAGE
B1	359646.297	5785227.214	32.780	0.000
1/4	359649.826	5785227.229	32.797	3.554
1/2	359653.051	5785228.660	32.815	7.108
3/4	359655.431	5785231.266	32.802	10.662
B2	359656.564	5785234.607	32.785	14.216

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B1-B2	8.600	14.216	12.652	2.774	0.724



ALIGNMENT D

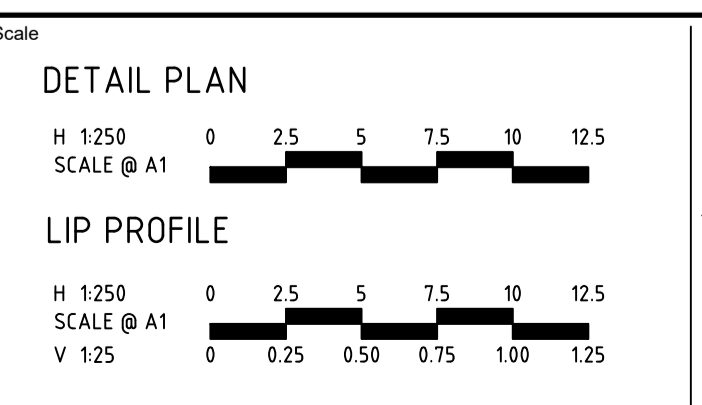
ALIGNMENT D

POINT NO	EASTING	NORTHING	RL	CHAINAGE
D1	359672.363	5785236.152	33.043	0.000
1/4	359669.017	5785235.897	33.011	3.377
1/2	359666.024	5785234.380	32.897	6.754
3/4	359663.838	5785231.834	32.785	10.132
D2	359662.794	5785228.645	32.759	13.509

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D1-D2	8.600	13.509	12.162	2.519	0.655

file name: 308546CR500.dwg, location: C:\projects\308546\308546.dwg, plot date: 12/09/2022 12:28 PM, sheet: 10 of 16 sheets

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	B.W	07/09/22
0	ISSUED FOR CONSTRUCTION	S.M	17/09/21
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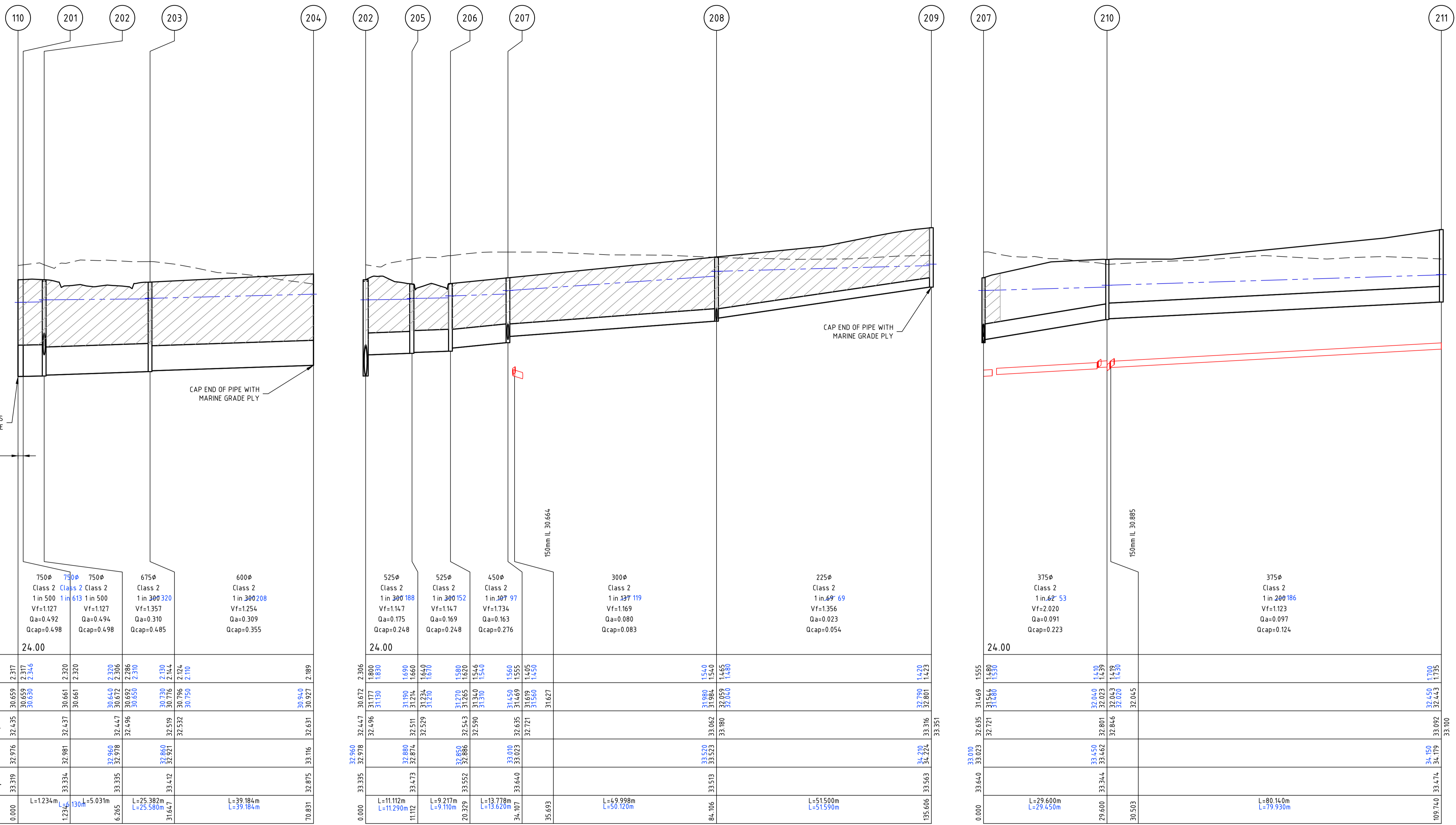
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spiire.com.au ABN 55 050 029 635

Designed: M. WRIGHT
Authorised: B. WAREHAM
Checked: B. IBBS
Date: 01/12/21

OFFICER CENTRAL
STAGE 2
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 1
CARDINIA SHIRE
YOURLAND PTY LTD

AS CONSTRUCTED Drg No: 308546CR500 Rev: 1

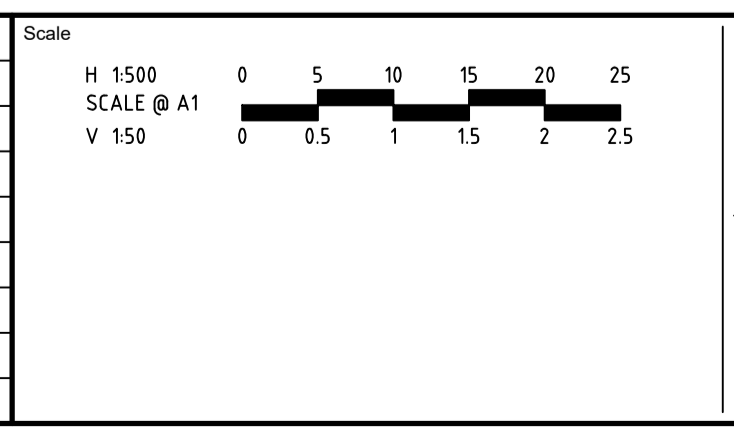


Pipe Diameter	750φ	750φ	750φ	675φ	600φ	525φ	525φ	450φ	300φ	225φ	375φ	375φ												
Pipe Class	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2												
Pipe Grade	1 in 500	1 in 613	1 in 500	1 in 300	1 in 300	1 in 300	1 in 300	1 in 107	1 in 127	1 in 69	1 in 62	1 in 200												
Velocity (m/s)	Vf=1.127	Vf=1.127	Vf=1.127	Vf=1.357	Vf=1.254	Vf=1.147	Vf=1.147	Vf=1.734	Vf=1.169	Vf=1.356	Vf=2.020	Vf=1.123												
Pipe Flow (m3/s)	Qa=0.492	Qa=0.494	Qa=0.310	Qa=0.309	Qa=0.175	Qa=0.169	Qa=0.163	Qa=0.080	Qa=0.023	Qa=0.091	Qa=0.097	Qa=0.124												
Pipe Capacity (m3/s)	Qcap=0.498	Qcap=0.498	Qcap=0.485	Qcap=0.355	Qcap=0.248	Qcap=0.248	Qcap=0.276	Qcap=0.083	Qcap=0.054	Qcap=0.223	Qcap=0.124	Qcap=0.124												
DATUM RL	24.00																							
DEPTH TO INVERT	2.317	2.317	2.320	2.130	2.189	1.800	1.800	1.560	1.423	1.555	1.590	1.755												
DESIGN INVERT LEVEL	30.659	30.630	30.661	30.672	30.927	31.177	31.130	31.450	31.984	32.059	32.470	32.443												
HYDRAULIC GRADE LEVEL	32.435	32.437	32.437	32.447	32.631	32.496	32.541	32.835	33.062	33.180	32.801	33.092												
FINISHED SURFACE LEVEL	32.976	32.981	32.981	32.980	33.116	32.880	32.874	33.010	33.523	34.210	33.450	34.179												
EXISTING SURFACE LEVEL	33.319	33.334	33.334	33.335	33.875	33.473	33.473	33.640	33.513	34.224	33.442	33.474												
CHAINAGE	0.000	L=1.234m	L=1.30m	L=5.031m	L=25.382m	L=25.580m	L=11.112m	L=11.290m	L=9.217m	L=9.110m	L=13.778m	L=13.620m	L=39.184m	L=39.184m	L=49.998m	L=50.120m	L=51.500m	L=51.590m	L=29.600m	L=29.450m	L=33.344	L=33.344	L=80.140m	L=79.930m

NOTE: AS CONSTRUCTED LEVELS ARE SHOWN IN BLUE.

file name: 308546CR600.dwg, layout name: CR600, plotted by: Bryce Wareham, file location: \\spire\shared\308546\308546.dwg, plot date: 12/09/2022 12:28 PM, Sheet: 11 of 16 Sheets

Rev	Description	By	Date
1	AS CONSTRUCTED	B.W	07/09/22
0	ISSUED FOR CONSTRUCTION	S.M	17/09/21
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spiire.com.au ABN 55 050 029 635

Designed
M. WRIGHT

Checked
B. IBBS

Authorised
B. WAREHAM

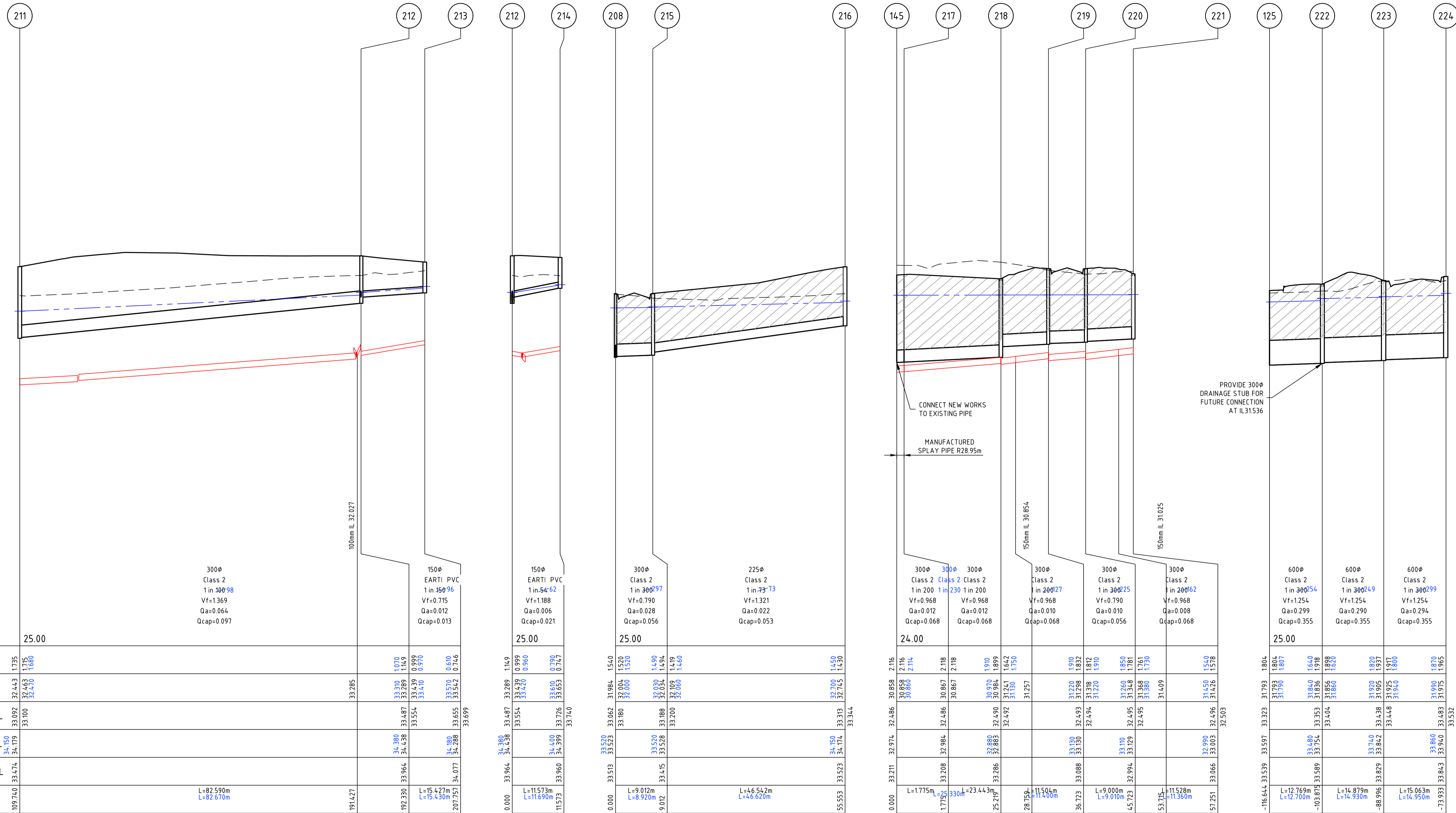
Date
01/12/21

**OFFICER CENTRAL
STAGE 2
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 1**
CARDINIA SHIRE
YOURLAND PTY LTD

AS CONSTRUCTED

Dwg No
308546CR600

Rev
1



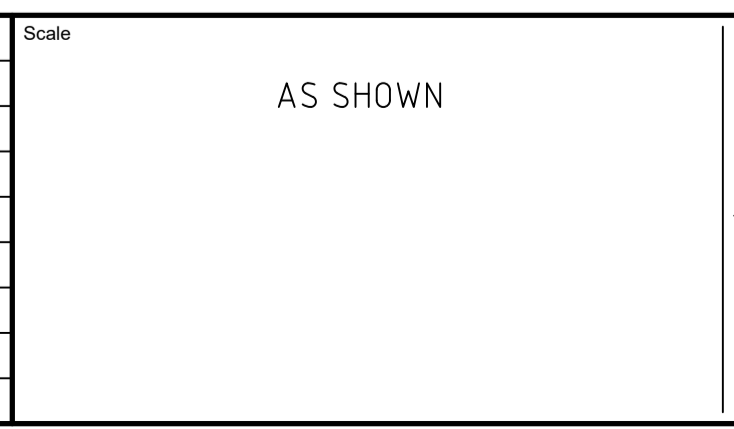
Pipe Diameter	300φ	150φ	300φ	225φ	300φ	300φ	300φ	300φ	300φ	600φ	600φ	600φ
Pipe Class	Class 2	EARTI PVC	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2
Pipe Grade	1 in 300 ⁹⁸	1 in 350 ⁹⁶	1 in 200 ⁹⁷	1 in 75 ⁷³	1 in 200 ²³⁰	1 in 200	1 in 200 ²⁷	1 in 200 ²⁵	1 in 200 ⁶²	1 in 300 ⁵⁴	1 in 300 ⁴⁹	1 in 300 ²⁹⁹
Velocity (m/s)	Vf=1.369	Vf=0.715	Vf=0.790	Vf=1.321	Vf=0.968	Vf=0.968	Vf=0.968	Vf=0.790	Vf=0.968	Vf=1.254	Vf=1.254	Vf=1.254
Pipe Flow (m ³ /s)	Qa=0.064	Qa=0.012	Qa=0.028	Qa=0.022	Qa=0.012	Qa=0.012	Qa=0.010	Qa=0.010	Qa=0.008	Qa=0.299	Qa=0.290	Qa=0.294
Pipe Capacity (m ³ /s)	Qcap=0.097	Qcap=0.013	Qcap=0.056	Qcap=0.021	Qcap=0.068	Qcap=0.068	Qcap=0.068	Qcap=0.056	Qcap=0.068	Qcap=0.355	Qcap=0.355	Qcap=0.355

DATUM RL	25.00		25.00	25.00	24.00					25.00		
DEPTH TO INVERT												
DESIGN INVERT LEVEL												
HYDRAULIC GRADE LEVEL												
FINISHED SURFACE LEVEL												
EXISTING SURFACE LEVEL												
CHAINAGE												

NOTE: AS CONSTRUCTED LEVELS ARE SHOWN IN BLUE

file name: 308546CR601.dwg, layout name: CR601, plotted by: Ryan Warham, file location: D:\308546\308546.dwg, LALD plot date: 12/09/2022, 12:08 PM, Sheet 12 of 16 Sheets

Scale	AS SHOWN		
Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	B.W	07/09/22
0	ISSUED FOR CONSTRUCTION	S.M	17/09/21
A	PRELIMINARY ISSUE	S.M	29/04/21

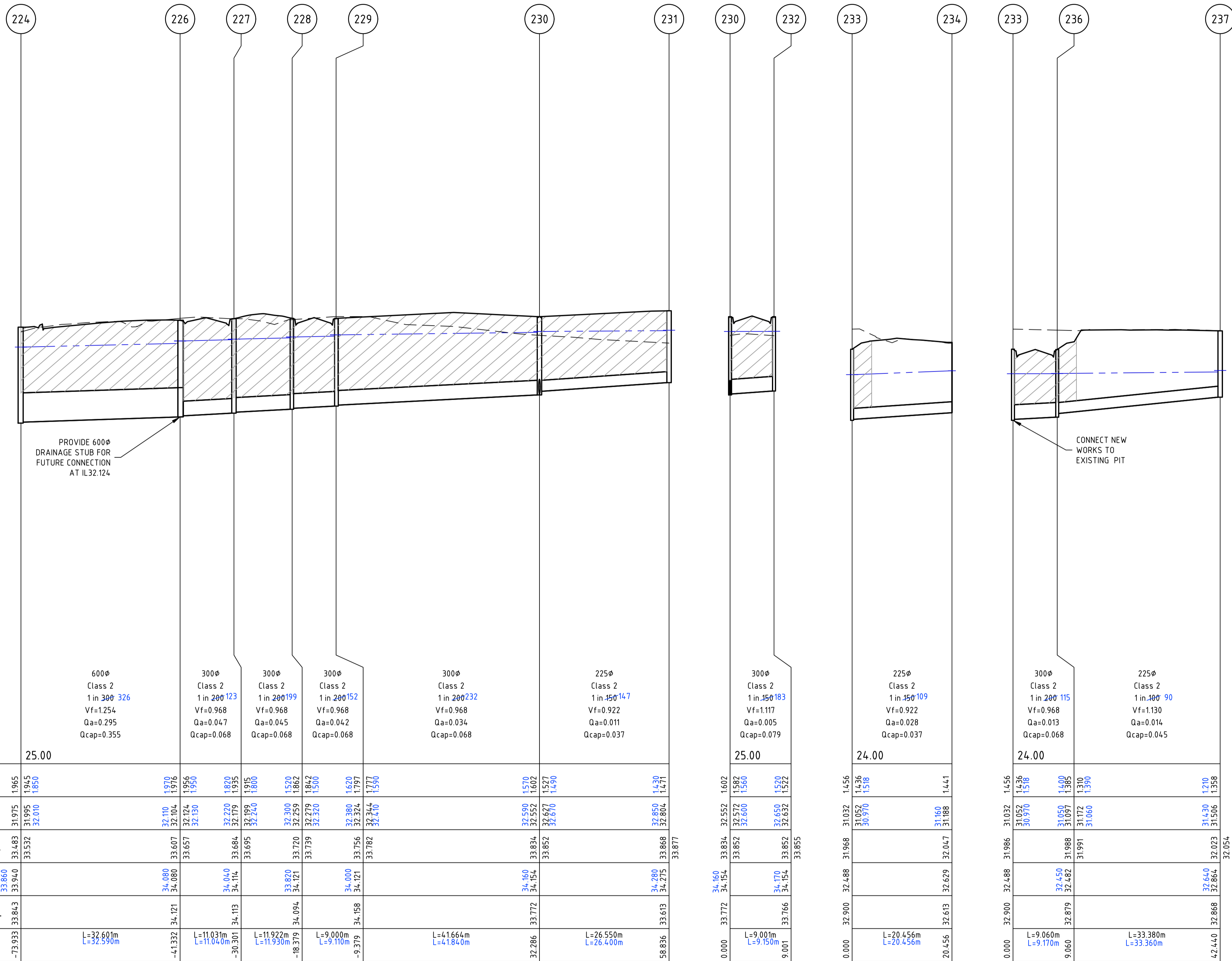


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YourLand Developments
 Designed M. WRIGHT
 Authorised B. WAREHAM
 Checked B. IBBS
 Date 01/12/21

**OFFICER CENTRAL
 STAGE 2
 ROAD AND DRAINAGE
 DRAINAGE LONG SECTIONS - SHEET 2
 CARDINIA SHIRE
 YOURLAND PTY LTD**
AS CONSTRUCTED Drg No **308546CR601** Rev **1**



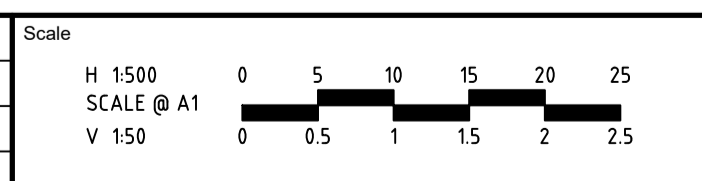
Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m³/s)
Pipe Capacity (m³/s)

DATUM RL	25.00	25.00	24.00	24.00
DEPTH TO INVERT	33.660 33.483 31.975 1.965	32.110 32.004 1.976	31.032 30.970 1.536	31.430 31.506 1.270
DESIGN INVERT LEVEL	33.532 32.010 1.850	32.110 32.004 1.976	31.032 30.970 1.536	31.430 31.506 1.270
HYDRAULIC GRADE LEVEL	33.532 33.657 32.124 1.956	33.657 32.124 1.956	31.032 30.970 1.536	31.430 31.506 1.270
FINISHED SURFACE LEVEL	33.860 33.940	34.080 34.080 33.607 32.104 1.976	34.154 34.154	34.280 34.275 33.868 32.804 1.471
EXISTING SURFACE LEVEL	33.843	34.121 34.113	34.154	34.275 33.613 33.877
CHAINAGE	-73.933	L=32.600m L=32.590m	L=9.001m L=9.150m	L=26.550m L=26.400m

NOTE: AS CONSTRUCTED LEVELS ARE SHOWN IN BLUE.

file name: 308546CR602.dwg, Location: Home, CR602, created by: Ryan Warburton
 file location: D:\308546\308546.dwg, LALAD plot date: 02/09/2022 12:28 PM, Sheet 13 of 16 Sheets

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	B.W	07/09/22
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Designed M. WRIGHT	Checked B. IBBS
Authorised B. WAREHAM	Date 01/12/21

**OFFICER CENTRAL
 STAGE 2
 ROAD AND DRAINAGE
 DRAINAGE LONG SECTIONS - SHEET 3**
 CARDINIA SHIRE
 YOURLAND PTY LTD

AS CONSTRUCTED

Drg No 308546CR602 Rev 1

DESIGN PAVEMENT PROFILE

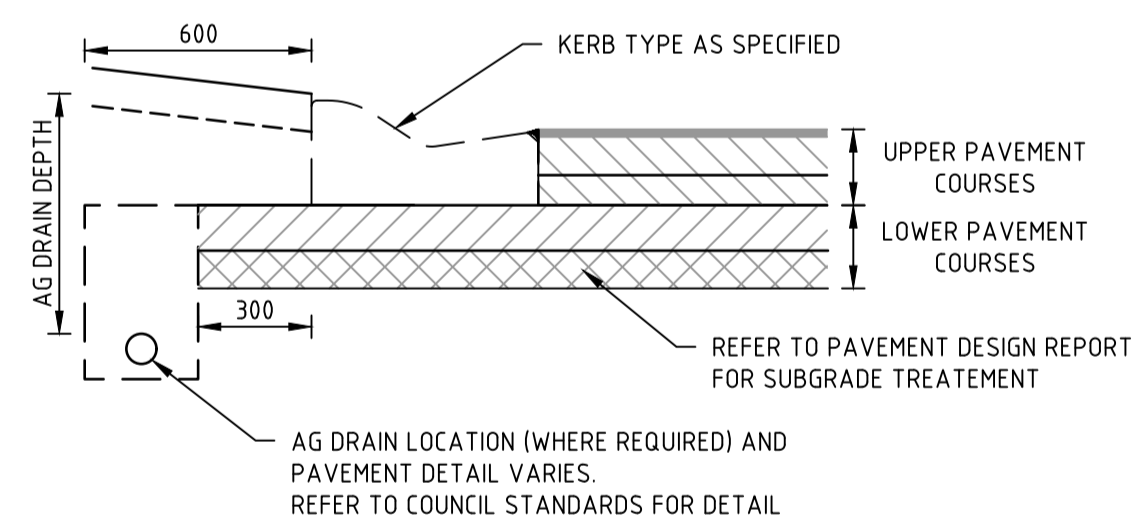
PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		TYPE B* (ACCESS STREET Level 1)
ASPHALT WEARING COURSE	VICROADS SIZE 10 TYPE N CLASS C170 BINDER	30
ASPHALT BASE COURSE	VICROADS SIZE 10 TYPE N CLASS C170 BINDER	30
BITUMINOUS PRIME	NOMINAL	NOMINAL
BASE	VICROADS 20mm CLASS 2 CRUSHED ROCK OR EQUIVALENT	130
UPPER SUBBASE	VICROADS 20mm CLASS 3 CRUSHED ROCK OR BETTER, 20mm CLASS CC3 CRUSHED CONCRETE OR BETTER	100
LOWER SUBBASE	VICROADS CLASS 4 CRUSHED ROCK OR BETTER, CLASS CC3 CRUSHED CONCRETE OR BETTER	160
SUBGRADE	SILTY CLAY WITH DESIGN CBR OF 3.5%	
TOTAL PAVEMENT DEPTH		450

* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES

ROAD NAME	TYPE
DAISY STREET	B
ROAD STREET	B
SALT MARSH ROAD	B

GENERAL NOTES:

- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE, OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
- ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
- CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
- PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
- CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
- SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
- ALL DOWELS TO BE GRADE 250R STEEL BARS, 450mm LONG AND PLACED AT 300mm CENTRES. REFER CCAA - "CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS" FOR DOWEL DIAMETERS. DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED.
- ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.



TYPICAL SUBSURFACE DRAIN DETAIL FOR NON-EXPANSIVE SUBGRADE
REFER TO AUTHORITY REQUIREMENTS FOR SPECIFIC DETAILS

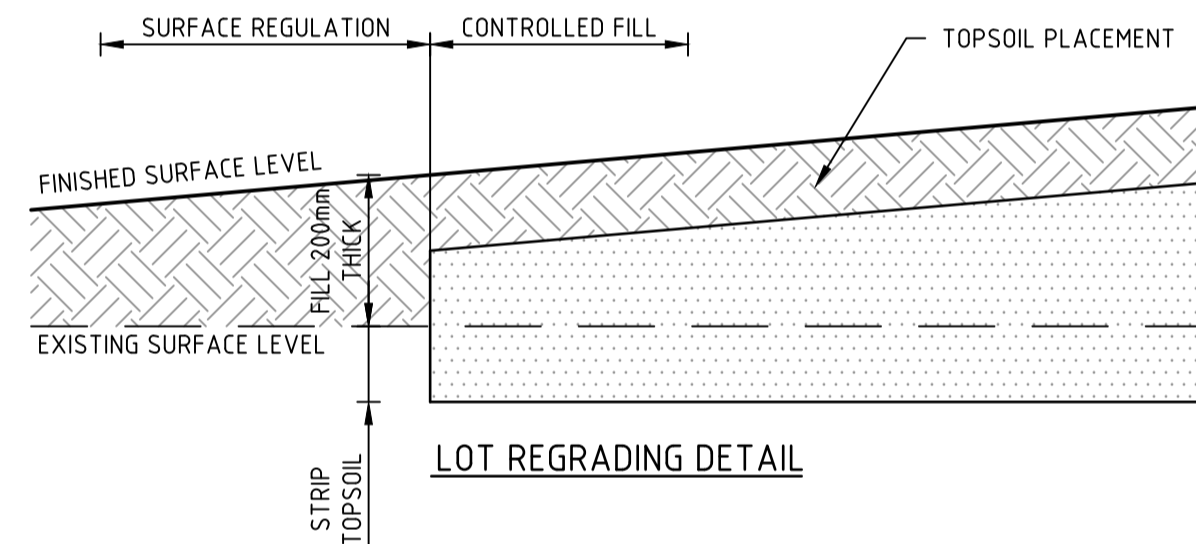
PAVEMENT DETAILS

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

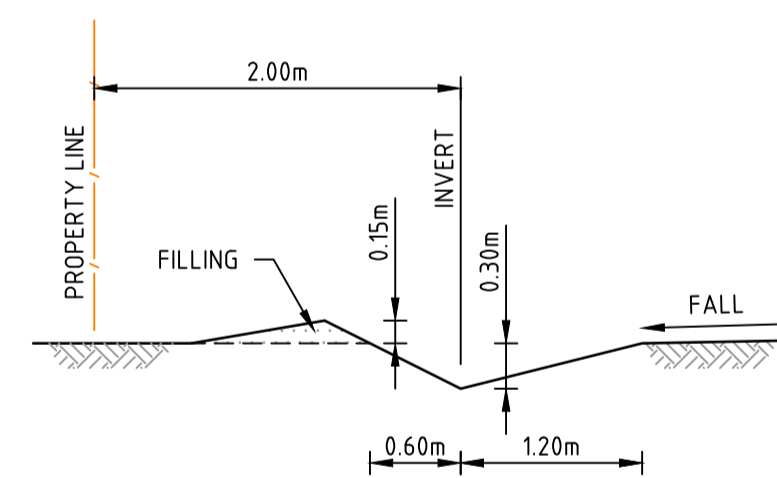
THE DESIGN HAS BEEN EXTRACTED FROM THE LOT 2 45-51 RIX ROAD, OFFICER - GEOTECHNICAL INVESTIGATION AND PAVEMENT DESIGN REPORT ON "GEOTECHNICAL INVESTIGATION FOR OFFICER CENTRAL" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

A COPY OF THE DOCUMENT WILL BE PROVIDED ON REQUEST.

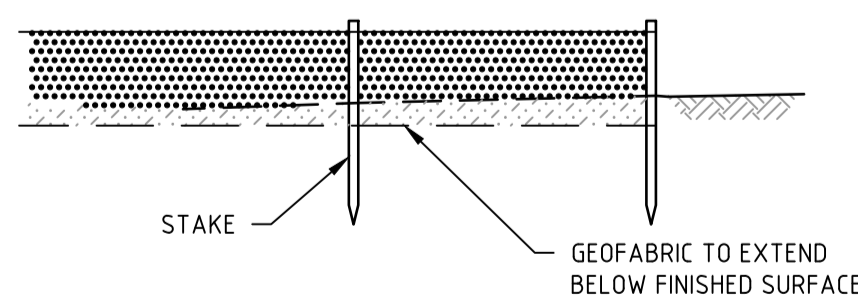
SPIIRE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS. ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO COFFEY AND COPIED TO SPIIRE.



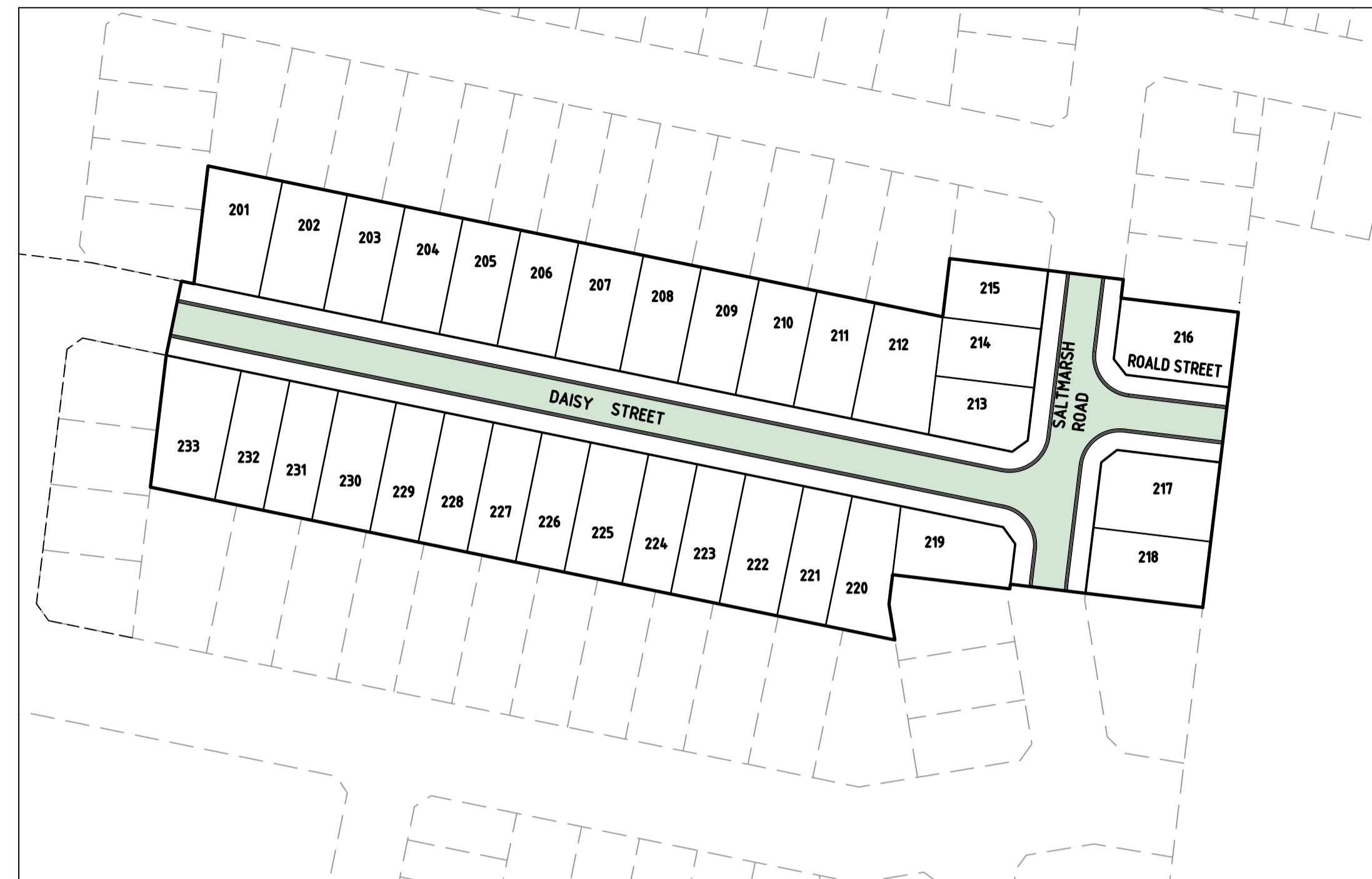
LOT REGRADING DETAIL



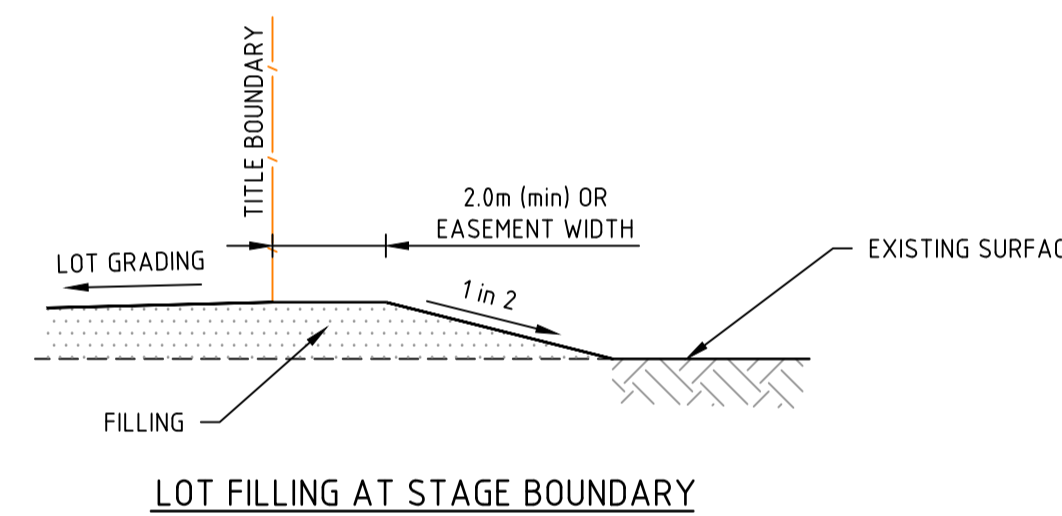
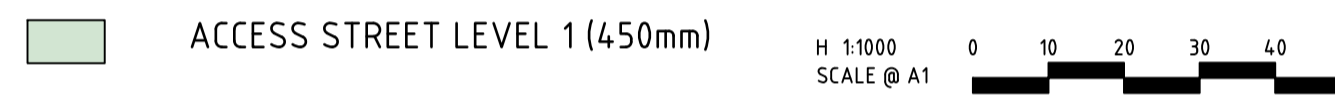
TYPICAL CATCH DRAIN SECTION



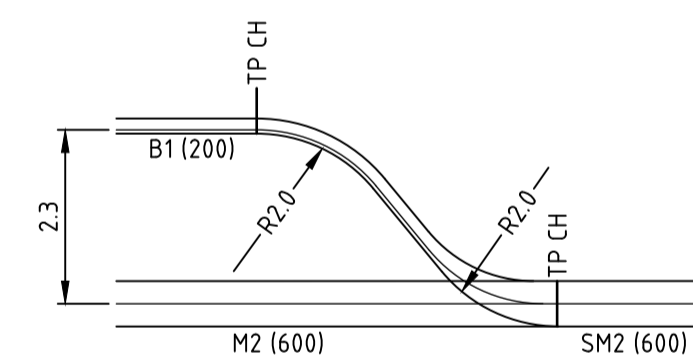
SILT CONTROL FOR LOTS
GEOFABRIC SILT FENCE



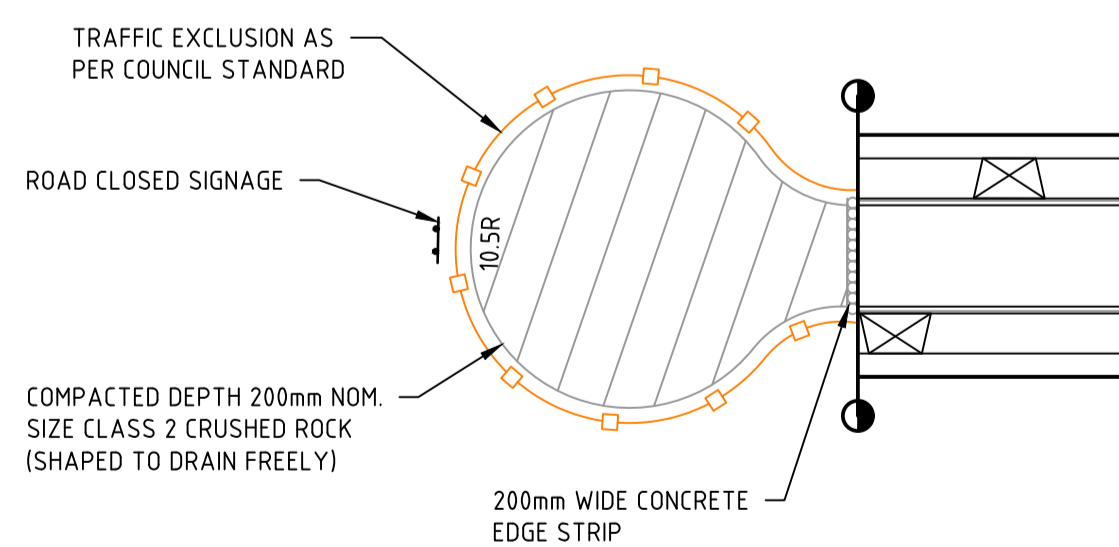
PAVEMENT PLAN



LOT FILLING AT STAGE BOUNDARY

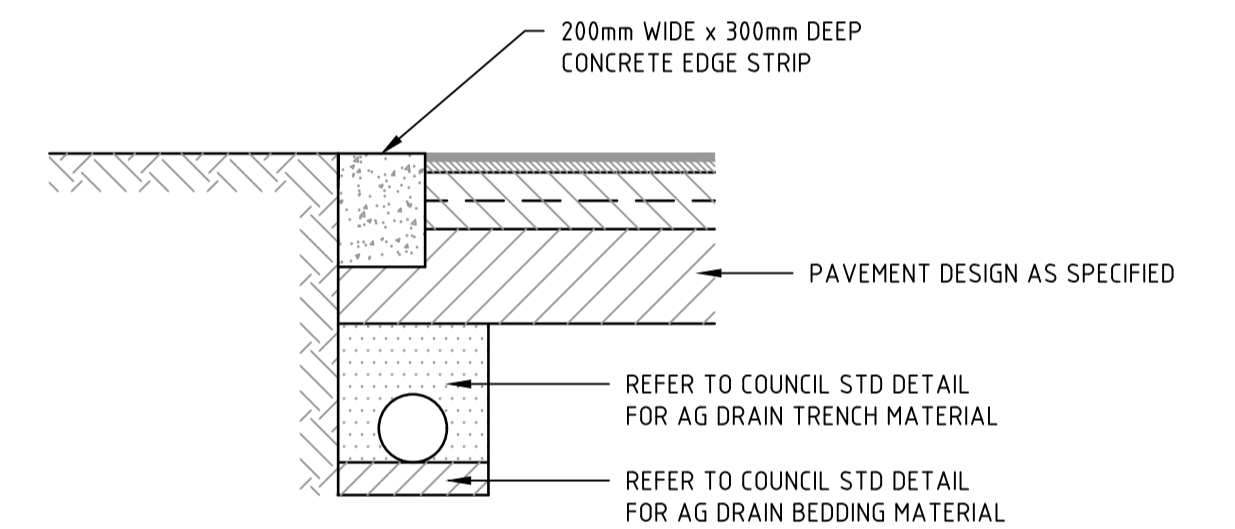


PARKING BAY SETOUT

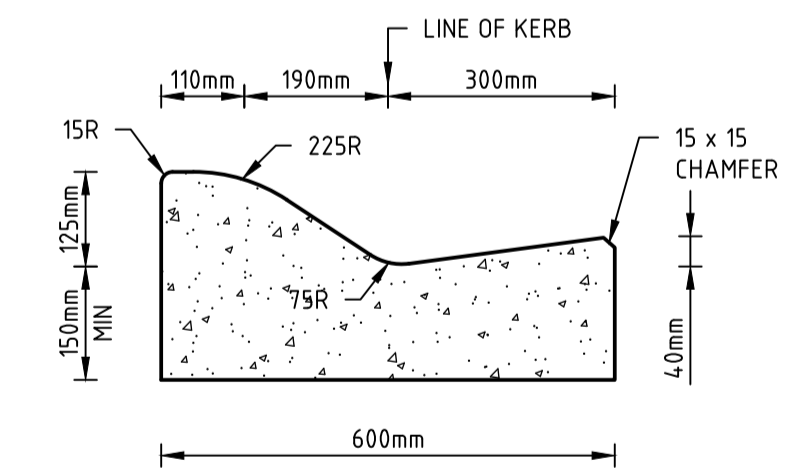


NOT TO SCALE

TEMPORARY TURNING AREA DETAIL



LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE DETAIL



SM2

STANDARD KERB PROFILES

NOTE: ALL KERB & CHANNEL AS PER GAA STD DRAWING EDMC 301



file name: 308546CR700.dwg, layout name: CR700, plotted by: Bryce Warburton, file location: \\spire\server\projects\308546\308546.dwg, plot date: 12/09/2022 12:28 PM, sheet: 15 of 16 sheets

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	B.W	07/09/22
0	ISSUED FOR CONSTRUCTION	S.M	17/09/21
A	PRELIMINARY ISSUE	S.M	29/04/21

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Designed
 M. WRIGHT

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 B. WAREHAM

 Checked
 B. IBBS

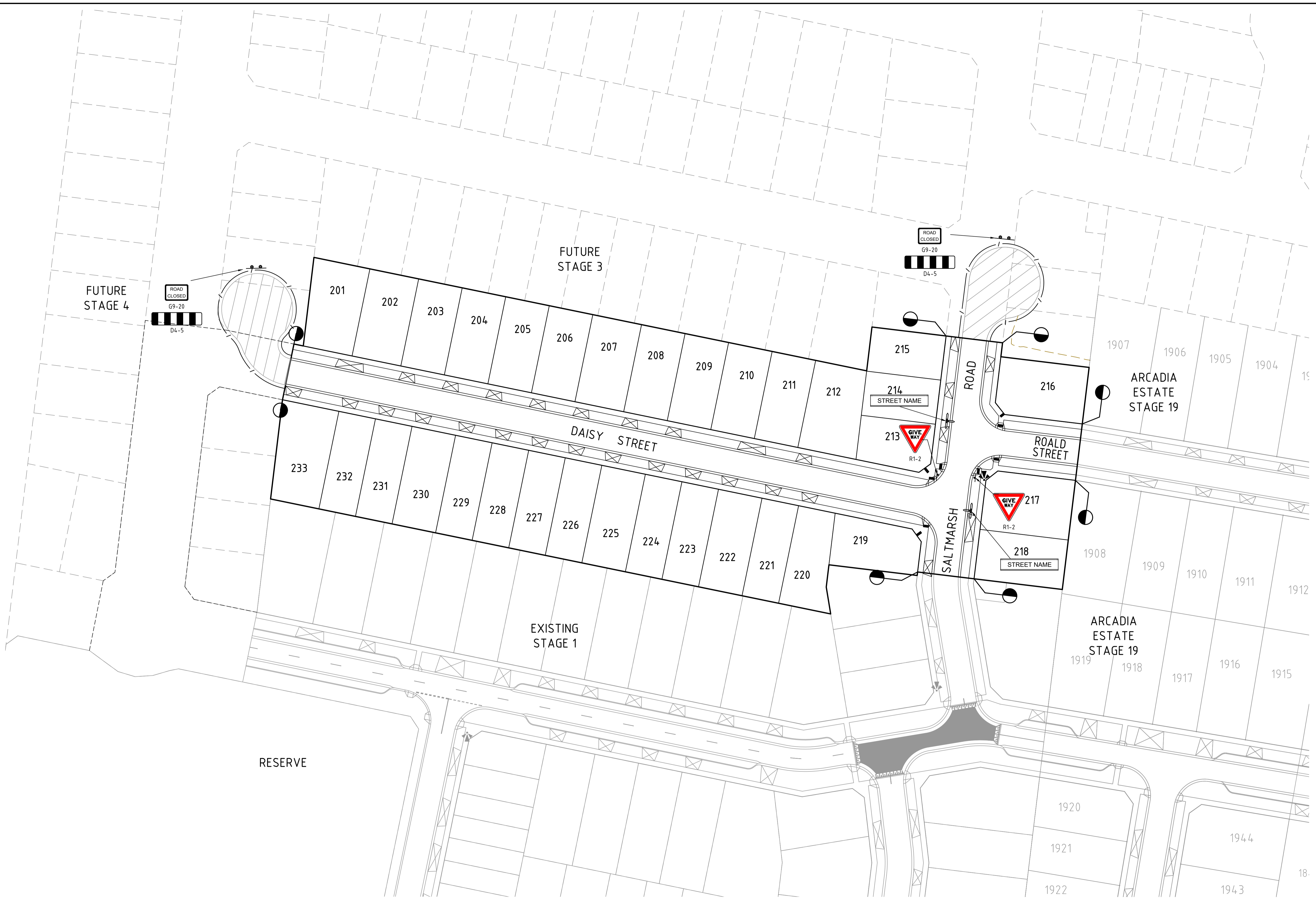
 Date
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OFFICER CENTRAL
STAGE 2
ROAD AND DRAINAGE
PAVEMENT AND TYPICAL DETAILS
 CARDINIA SHIRE
 YOURLAND PTY LTD

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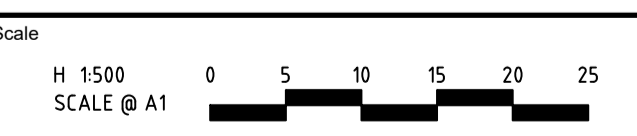
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B. WAREHAM

Checked
B. IBBS
Date
01/12/21

**OFFICER CENTRAL
STAGE 2**
ROAD AND DRAINAGE
SIGNAGE AND LINEMARKING
CARDINIA SHIRE
YOURLAND PTY LTD

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