

OFFICER FIELDS STAGE 4 YOURLAND PTY LTD

GENERAL NOTES:

SURVEY

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) 2020, 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 150mm 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, DESLUDGED 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

- 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.

- TELSTRA ARE TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.

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.).

- 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.

- 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.



LOCALITY PLAN

H 14 000
SCALE @ A1

DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	FACE SHEET	1	A
CR200	EXISTING CONDITIONS PLAN	2	A
CR201	FACE PLAN	3	A
CR202	SERVICES PLAN	4	A
CR300	ROAD LONG SECTIONS - SHEET 1	5	A
CR301	ROAD LONG SECTIONS - SHEET 2	6	A
CR400	ROAD CROSS SECTIONS - SHEET 1	7	A
CR401	ROAD CROSS SECTIONS - SHEET 2	8	A
CR402	ROAD CROSS SECTIONS - SHEET 3	9	A
CR500	INTERSECTION DESTAILS - SHEET 1	10	A
CR501	INTERSECTION DESTAILS - SHEET 2	11	A
CR601	DRAINAGE LONG SECTIONS - SHEET 1	12	A
CR602	DRAINAGE LONG SECTIONS - SHEET 2	13	A
CR603	DRAINAGE LONG SECTIONS & PIT SCHEDULE - SHEET 3	14	A
CR700	PAVEMENT AND TYPICAL DETAILS - SHEET 1	15	A
CR701	PAVEMENT AND TYPICAL DETAILS - SHEET 2	16	A
CR800	SIGNAGE AND LINEMARKING	17	A



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.

LEGEND

DESCRIPTION	EXISTING	PROPOSED
HIGH PRESSURE GAS PIPELINE & "NO GO" ZONE	HP GAS	
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		
STORM WATER DRAINAGE PROPERTY INLETS		
COUNCIL STORM WATER PITS		
HOUSE DRAIN	H	H
AG DRAIN AND FLUSHER	AG	AG
MWC STORM WATER DRAIN & PIT		
MWC STORM WATER PITS		
STORM WATER DRAINAGE PIT NUMBER	Ex. 47	1
GAS & WATER CONDUITS	GW	GW
CONCRETE VEHICLE CROSSING		
RIDGE / CHANGE OF GRADE LINE		
SURFACE CONTOUR MINOR	- 169.00 -	169.00
SURFACE CONTOUR MAJOR	- 169.00 -	168.90
SURFACE LEVEL	E123.45	F124.68
BATTER LEVEL (TOP / TOE)	T124.80	T124.80
RETAINING WALL LEVEL (TOP/BOTTOM)	TW112.76	TW128.50 Bw126.74
EARTHWORKS GRADE		1 in 150
SIGN AND POST		
LIGHT & POLE (BY OTHERS)		
STREET SIGN		
PERMANENT SURVEY MARK		
TEMPORARY BENCH MARK		
BOLLARD		
ROAD CHAINAGES	CH116.57 (L/R)RTP CH116.57	CH116.57 (L/R)RTP CH116.57
LOT CHAINAGES	CH20.06	CH20.06
SETOUT POINT		A2
LIMIT OF WORKS		
BATTER		
EXCAVATION GREATER THAN 0.20m		
FILLING GREATER THAN 0.20m		
ROCK BEACHING		
RETAINING WALL		
FENCE - TREE PROTECTION		
FENCE - VEHICLE EXCLUSION		
FENCES		
GUARD RAIL		
TREE (& SURVEYED CANOPY) TO BE RETAINED		
TREE TO BE PROTECTED		
TREE TO BE REMOVED		
VEGETATION LINE		
FOOTPATH		
TACTILE GROUND SURFACE INDICATOR		
KERB TRANSITION		B2 SM2

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A	PRELIMINARY ISSUE	BW	23/02/22
	Amendments	Approved	Date

Scale: AS SHOWN

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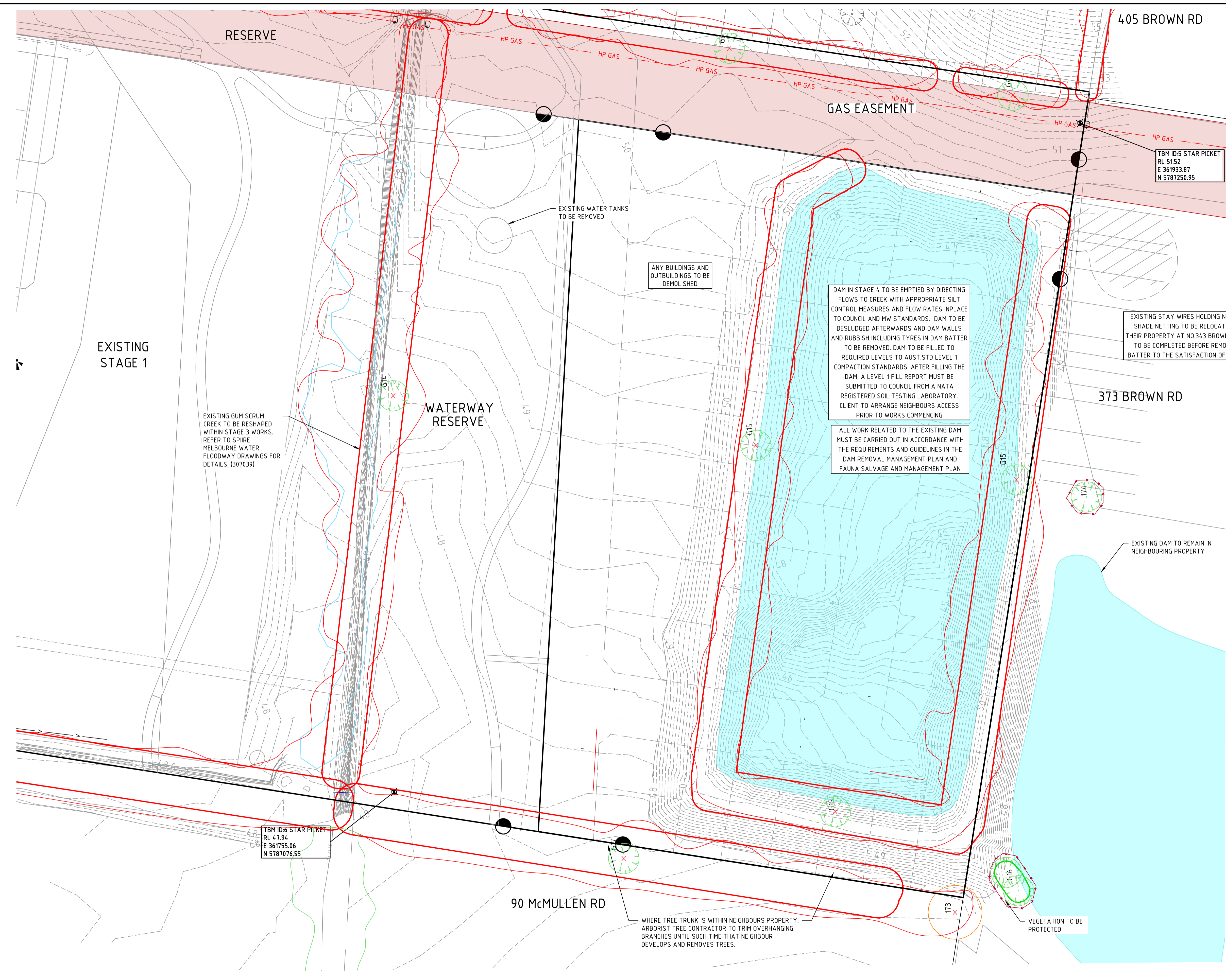
YourLand Developments

Designed: J.SIM
Authorised: B.WAREHAM

Checked: -----
Date: 23-02-2022

**OFFICER FIELDS
STAGE 4
ROAD AND DRAINAGE
GENERAL NOTES - SHEET 1**
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Drg No: 308005CR100 Rev: A



RESERVE

405 BROWN RD

GAS EASEMENT

TBM ID:5 STAR PICKET
RL 51.52
E 361933.87
N 5787250.95

EXISTING WATER TANKS
TO BE REMOVED

ANY BUILDINGS AND
OUTBUILDINGS TO BE
DEMOLISHED

DAM IN STAGE 4 TO BE EMPTIED BY DIRECTING
FLOWS TO CREEK WITH APPROPRIATE SILT
CONTROL MEASURES AND FLOW RATES INPLACE
TO COUNCIL AND MW STANDARDS. DAM TO BE
DESLUDED AFTERWARDS AND DAM WALLS
AND RUBBISH INCLUDING TYRES IN DAM BATTER
TO BE REMOVED. DAM TO BE FILLED TO
REQUIRED LEVELS TO AUST. STD LEVEL 1
COMPACTION STANDARDS. AFTER FILLING THE
DAM, A LEVEL 1 FILL REPORT MUST BE
SUBMITTED TO COUNCIL FROM A NATA
REGISTERED SOIL TESTING LABORATORY.
CLIENT TO ARRANGE NEIGHBOURS ACCESS
PRIOR TO WORKS COMMENCING

EXISTING STAY WIRES HOLDING NEIGHBOURS
SHADE NETTING TO BE RELOCATED WITHIN
THEIR PROPERTY AT NO.343 BROWN RD. WORKS
TO BE COMPLETED BEFORE REMOVING DAM
BATTER TO THE SATISFACTION OF THE OWNER

AFTER FILLING THE DAM, A LEVEL 1 FILL
REPORT MUST BE SUBMITTED TO COUNCIL
FROM A NATA REGISTERED SOIL TESTING
LABORATORY

EXISTING
STAGE 1

EXISTING GUM SCRUM
CREEK TO BE RESHAPED
WITHIN STAGE 3 WORKS.
REFER TO SPIRE
MELBOURNE WATER
FLOODWAY DRAWINGS FOR
DETAILS. (307039)

WATERWAY
RESERVE

373 BROWN RD

ALL WORK RELATED TO THE EXISTING DAM
MUST BE CARRIED OUT IN ACCORDANCE WITH
THE REQUIREMENTS AND GUIDELINES IN THE
DAM REMOVAL MANAGEMENT PLAN AND
FAUNA SALVAGE AND MANAGEMENT PLAN

EXISTING DAM TO REMAIN IN
NEIGHBOURING PROPERTY

!!! BEWARE !!!
APA HIGH PRESSURE GAS TRANSMISSION LINE IN THE
VICINITY OF THE WORKS. "NO GO" ZONE EXTENDS
WITHIN THE APA GAS EASEMENT BOUNDARY.
NO CONSTRUCTION OR ACCESS IS TO BE UNDERTAKEN WITHIN
THE "NO GO" ZONE WITHOUT PRIOR APPROVAL FROM AN
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UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

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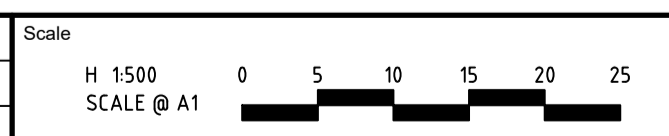
TBM ID:6 STAR PICKET
RL 47.94
E 361755.06
N 5787076.55

90 McMULLEN RD

WHERE TREE TRUNK IS WITHIN NEIGHBOURS PROPERTY,
ARBORIST TREE CONTRACTOR TO TRIM OVERHANGING
BRANCHES UNTIL SUCH TIME THAT NEIGHBOUR
DEVELOPS AND REMOVES TREES.

VEGETATION TO BE
PROTECTED

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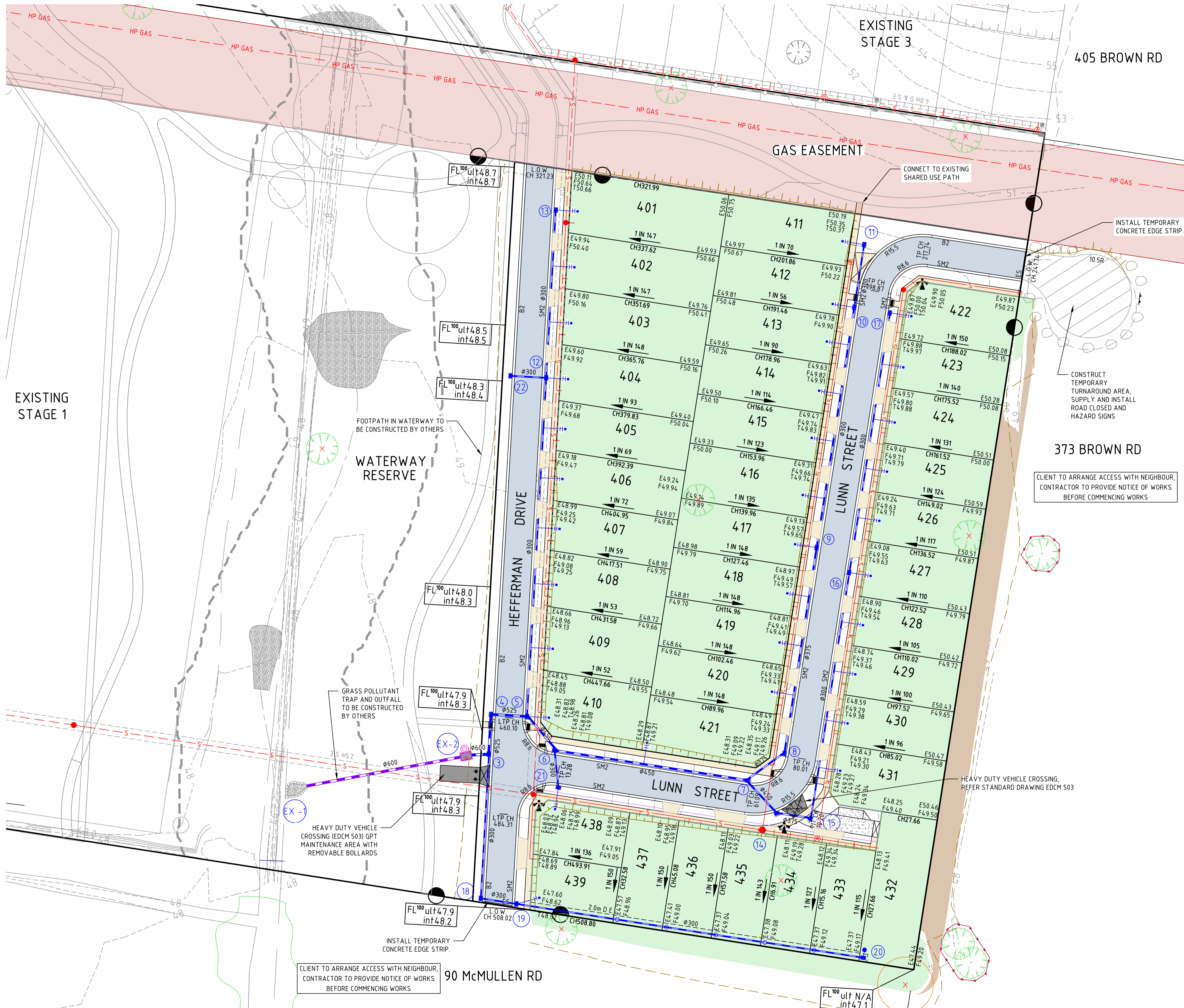


Designed
J.SIM
Authorised
B.WAREHAM
Checked

Date
23-02-2022

**OFFICER FIELDS
STAGE 4
ROAD AND DRAINAGE
EXISTING CONDITIONS PLAN**
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Dwg No **308005CR200** Rev **A**



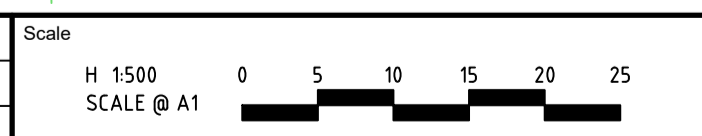
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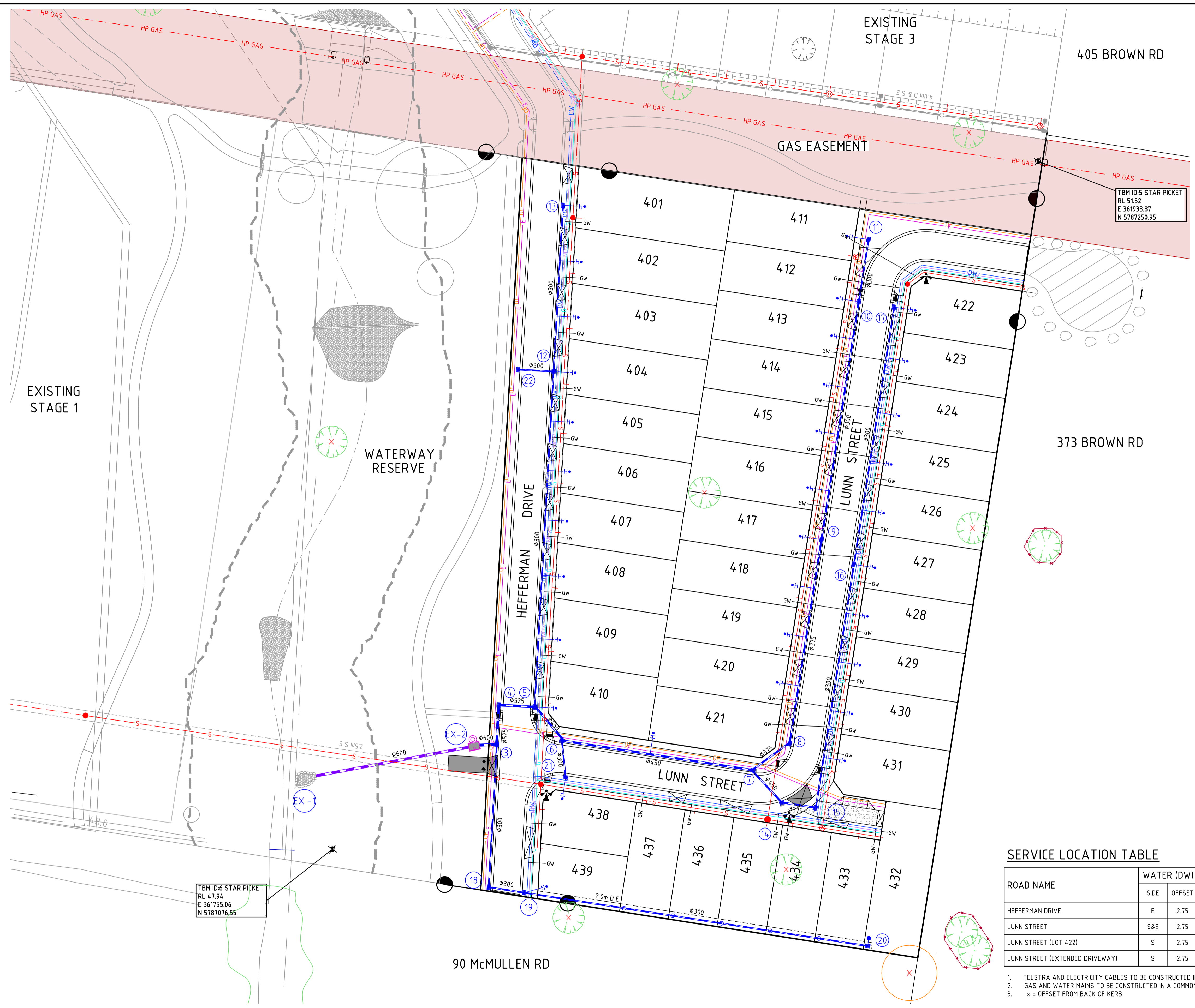
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**OFFICER FIELDS
STAGE 4
ROAD AND DRAINAGE
FACE PLAN**
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

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SERVICE LOCATION TABLE

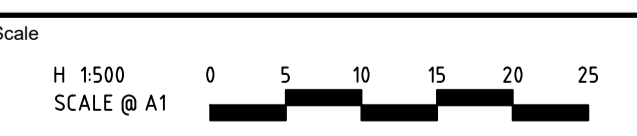
ROAD NAME	WATER (DW)		WATER (NDW)		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE	
									SIDE	OFFSET	SIDE	OFFSET
HEFFERMAN DRIVE	E	2.75	E	2.25	E	1.80	W	0.50	W	150x	W	1.10
LUNN STREET	S&E	2.75	S&E	2.25	S&E	1.80	N&W	1.85	N&W	150x	N&W	2.65
LUNN STREET (LOT 422)	S	2.75	S	2.25	S	1.80	N	0.50	N	150x	N	1.10
LUNN STREET (EXTENDED DRIVEWAY)	S	2.75	S	2.25	S	1.80	N	0.80	-	-	N	1.60

1. TELSTRA AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG'S.
2. GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
3. * = OFFSET FROM BACK OF KERB

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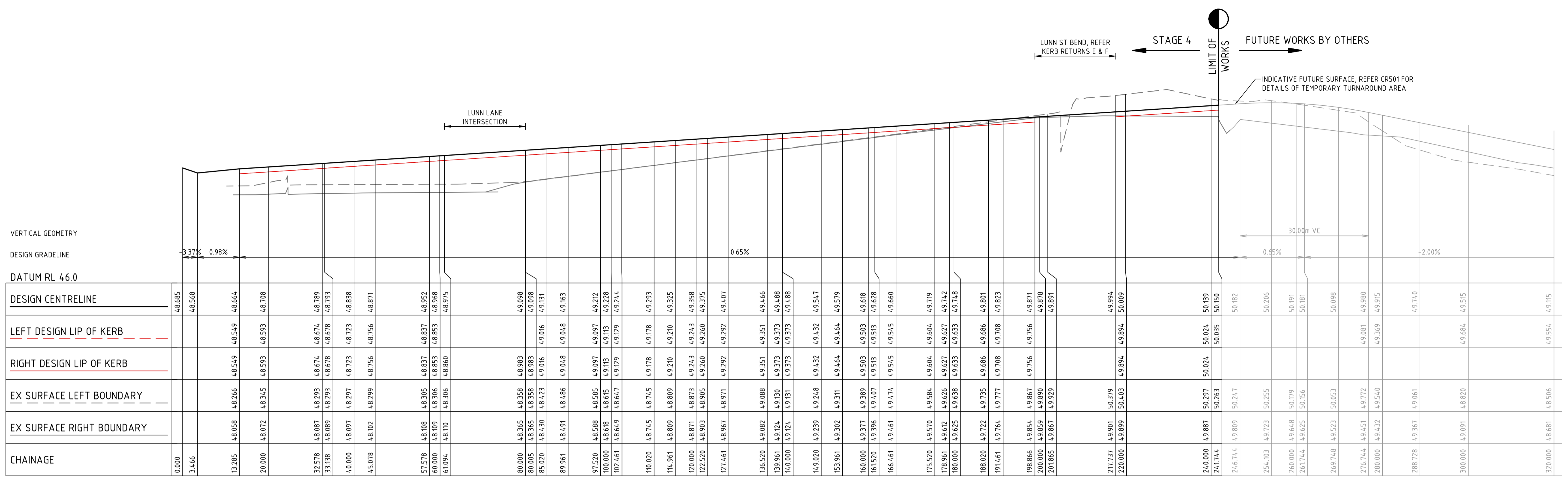
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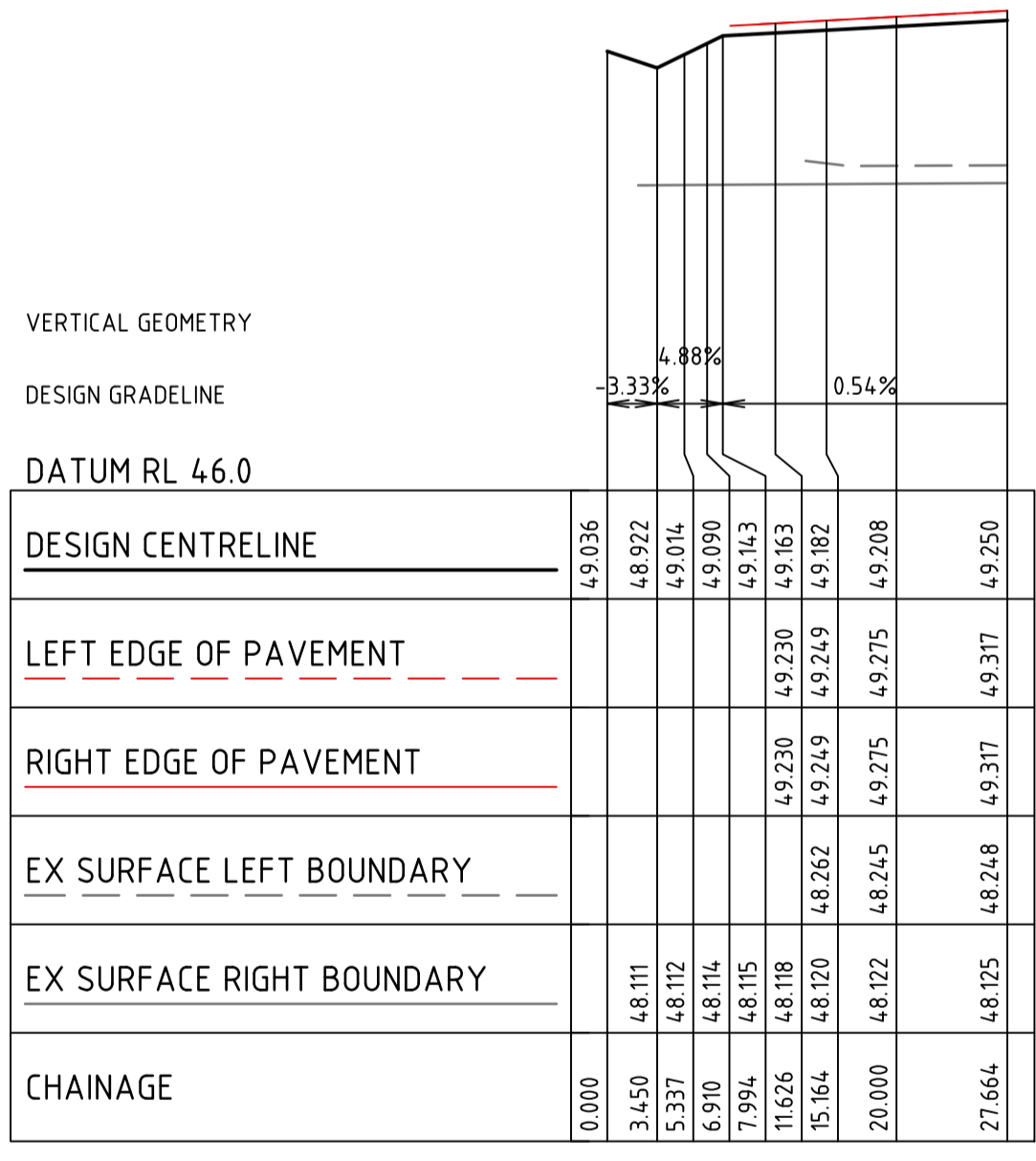
**OFFICER FIELDS
 STAGE 4
 ROAD AND DRAINAGE
 SERVICES PLAN**
 CARDINIA SHIRE COUNCIL
 YOURLAND PTY LTD

PRELIMINARY Drg No **308005CR202** Rev **A**

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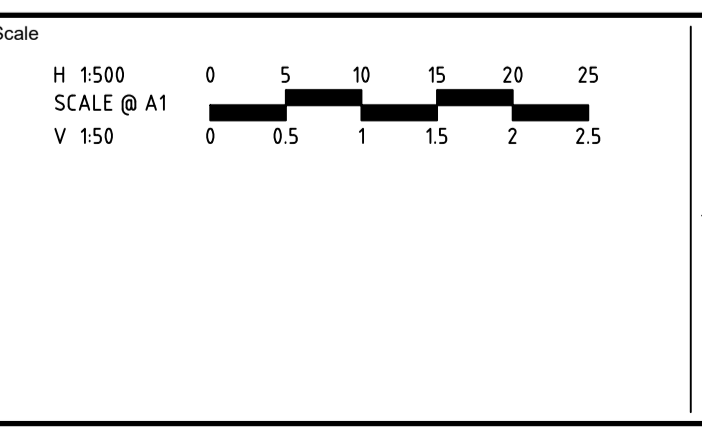


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OFFICER FIELDS

STAGE 4

ROAD AND DRAINAGE

ROAD LONG SECTIONS - SHEET 2

 CARDINIA SHIRE COUNCIL

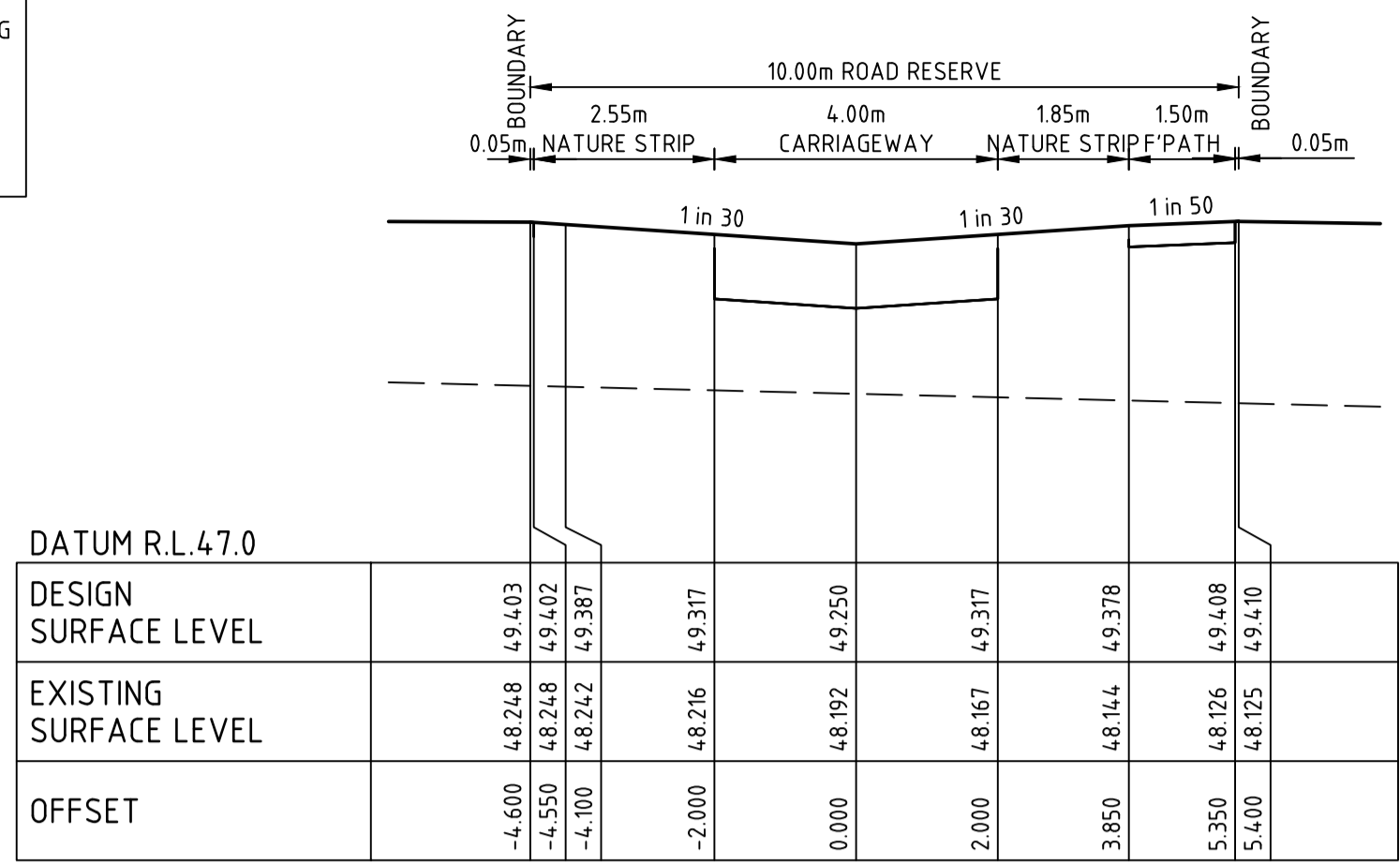
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PRELIMINARY

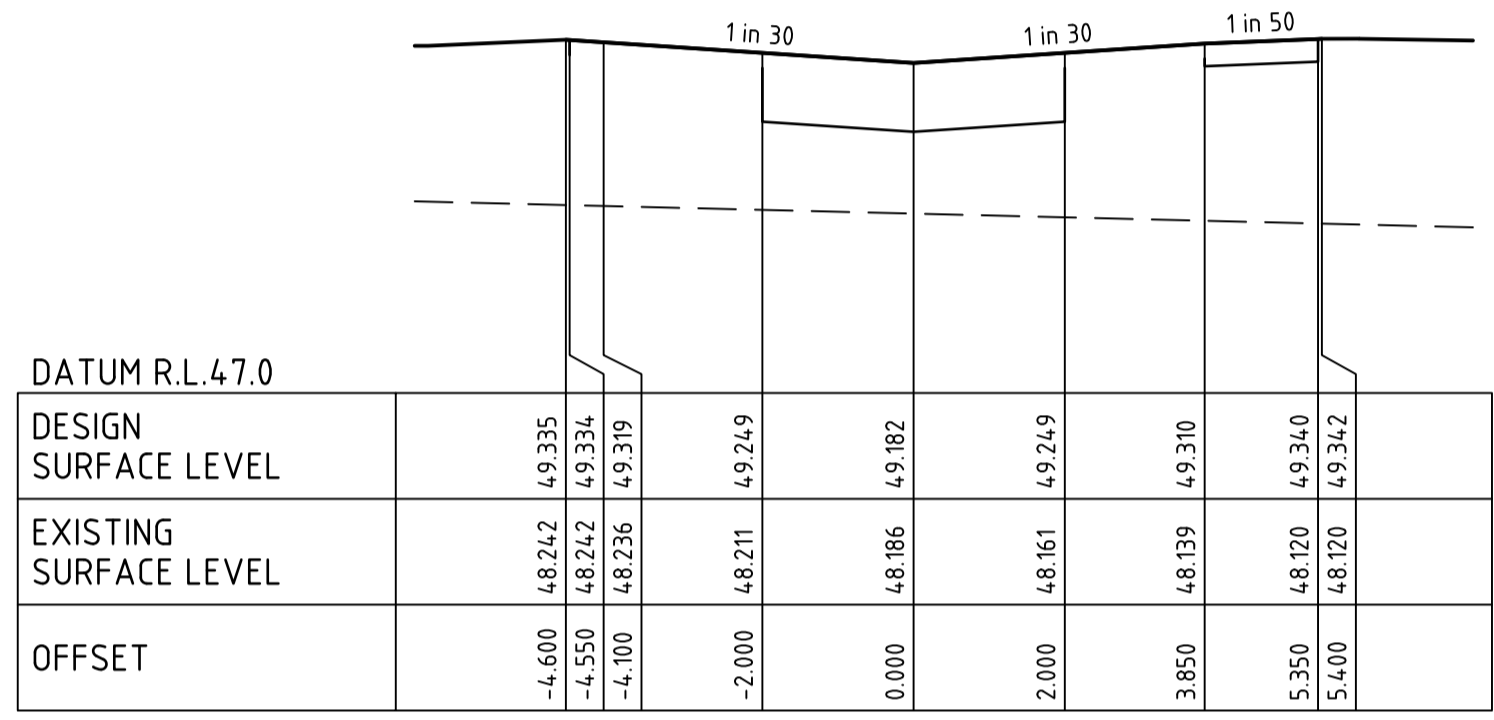
 Drg No: 308005CR301

 Rev: A

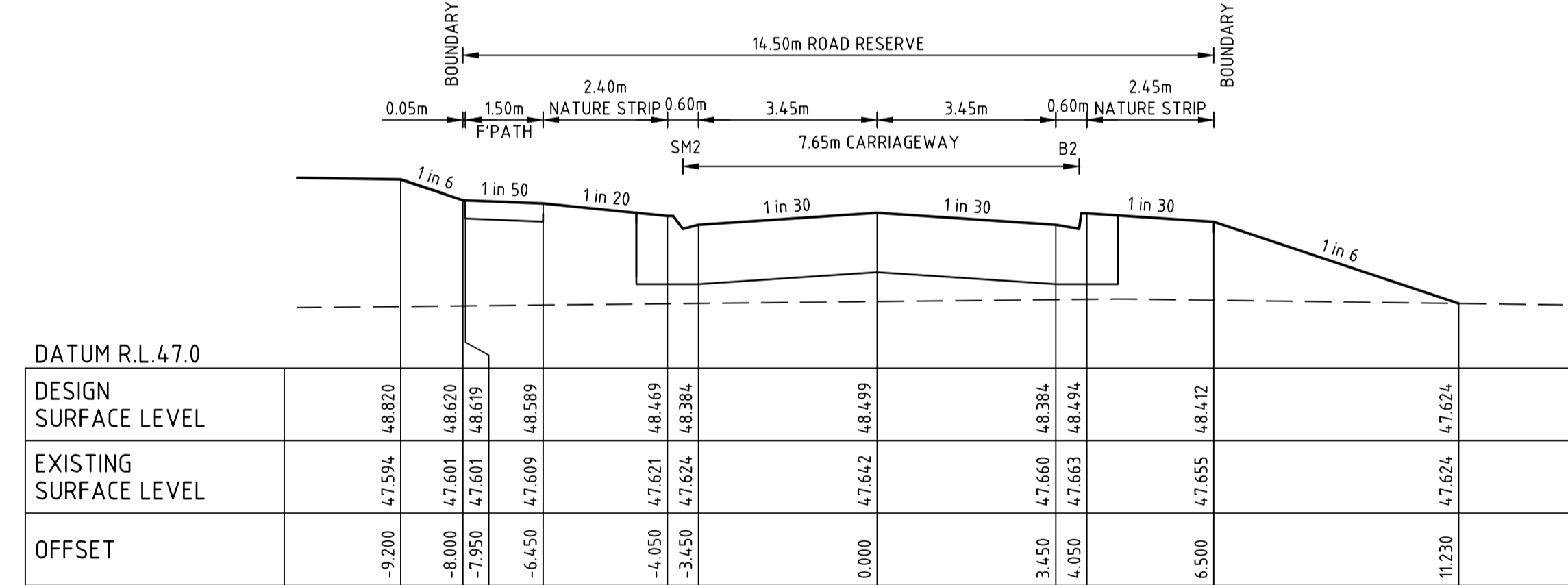
FILLING NOTE
 ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN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



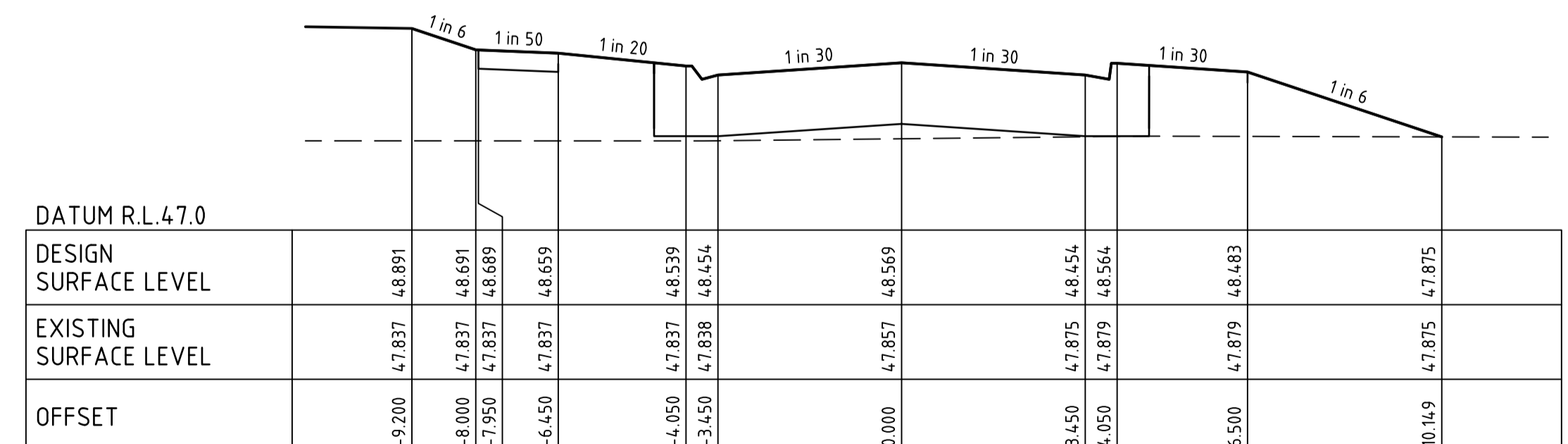
LUNN LN CH 27.66



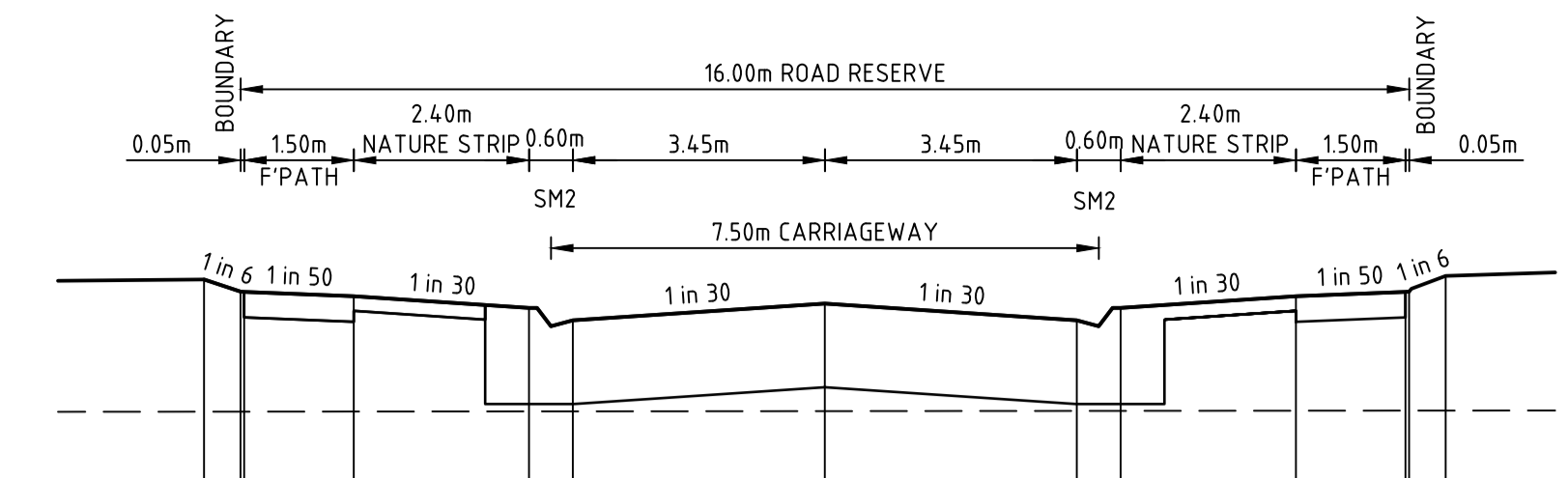
LUNN LN CH 15.16



HEFFERMAN DVE CH 508.02

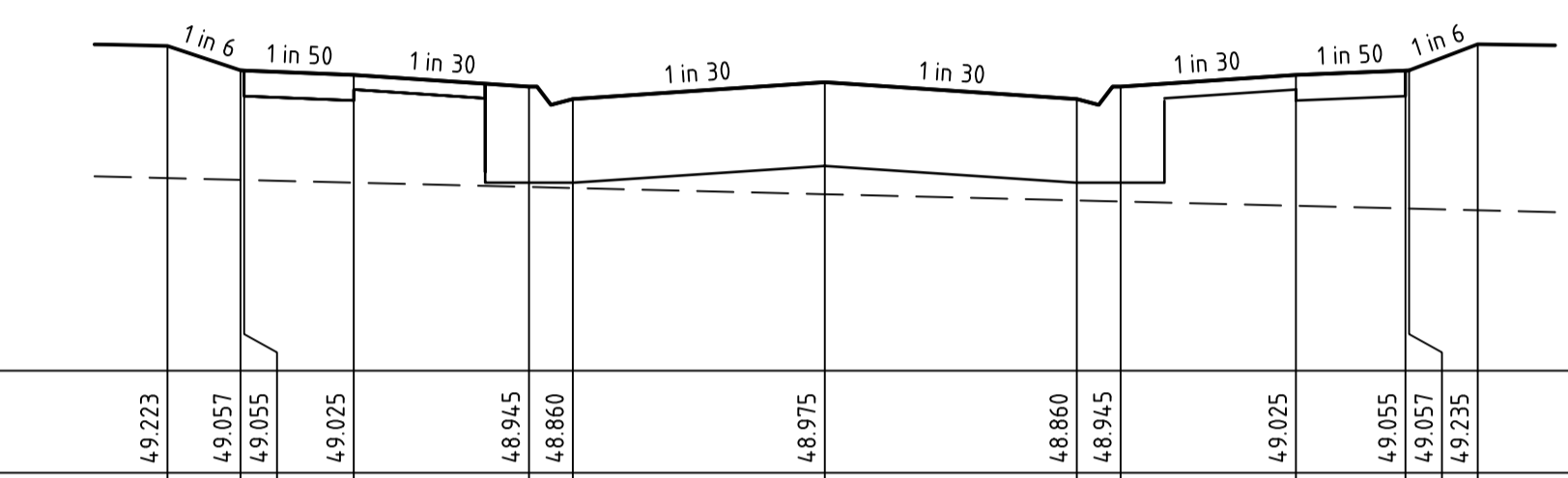


HEFFERMAN DVE CH 493.92



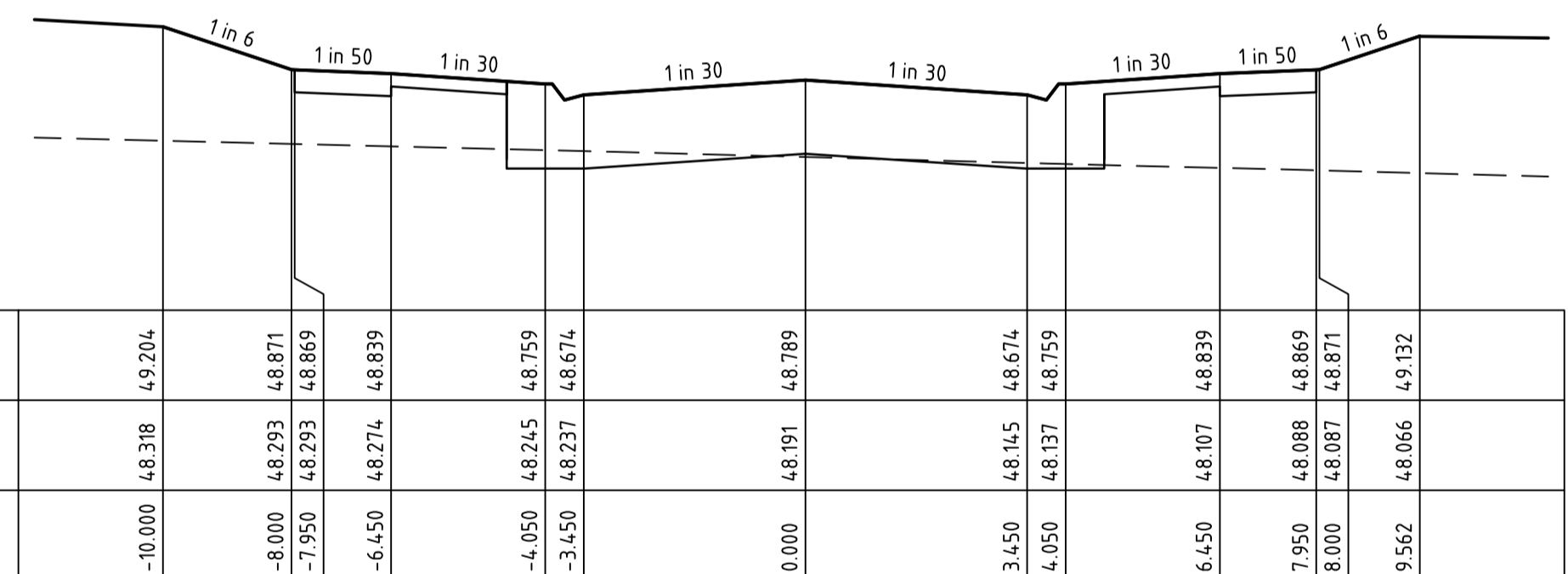
DATUM R.L. 47.0	
DESIGN SURFACE LEVEL	-8.500 48.358 49.263 -8.000 48.358 49.180 -7.950 48.358 49.178 -6.450 48.358 49.148 -4.050 48.359 49.068 -3.450 48.360 48.983
EXISTING SURFACE LEVEL	0.000 48.361 49.098 3.450 48.363 48.983 4.050 48.363 49.068 6.450 48.364 49.148 7.950 48.365 49.178 8.000 48.365 49.180 8.500 48.365 49.287
OFFSET	

LUNN ST CH 80.00



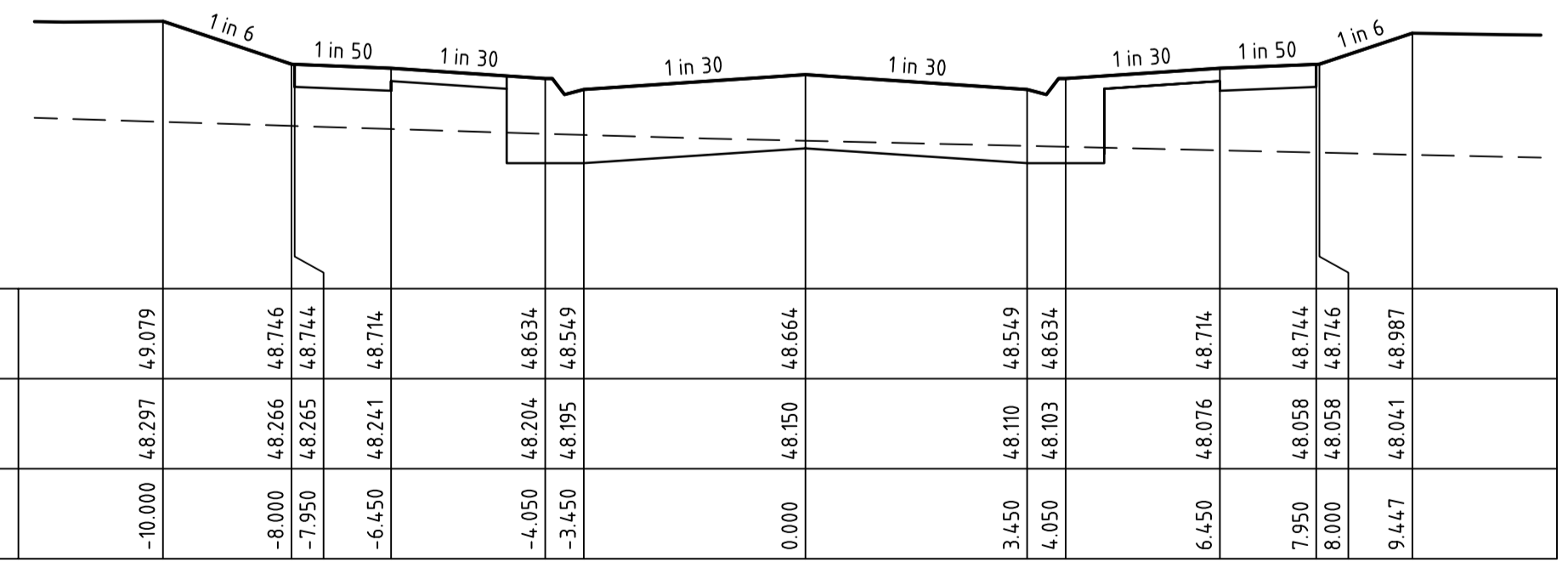
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DESIGN SURFACE LEVEL	-9.009 48.319 49.223 -8.000 48.306 49.057 -7.950 48.306 49.055 -6.450 48.287 49.025 -4.050 48.258 48.945 -3.450 48.250 48.860
EXISTING SURFACE LEVEL	0.000 48.208 48.875 3.450 48.166 48.860 4.050 48.158 48.945 6.450 48.129 49.025 7.950 48.110 49.055 8.000 48.110 49.057 8.939 48.098 49.235
OFFSET	

LUNN ST CH 61.09



DATUM R.L. 47.0	
DESIGN SURFACE LEVEL	-10.000 48.318 49.204 -8.000 48.293 48.871 -7.950 48.293 48.869 -6.450 48.274 48.839 -4.050 48.245 48.759 -3.450 48.237 48.674
EXISTING SURFACE LEVEL	0.000 48.191 48.789 3.450 48.145 48.674 4.050 48.137 48.759 6.450 48.107 48.839 7.950 48.088 48.869 8.000 48.087 48.871 9.562 48.066 49.132
OFFSET	

LUNN ST CH 32.58



DATUM R.L. 47.0	
DESIGN SURFACE LEVEL	-10.000 48.297 49.079 -8.000 48.266 48.746 -7.950 48.265 48.744 -6.450 48.241 48.714 -4.050 48.204 48.634 -3.450 48.195 48.549
EXISTING SURFACE LEVEL	0.000 48.150 48.664 3.450 48.110 48.549 4.050 48.103 48.634 6.450 48.076 48.714 7.950 48.058 48.744 8.000 48.058 48.746 9.447 48.041 48.987
OFFSET	

LUNN ST CH 13.29

file name: 308005CR401.dwg, layout name: CR401, file location: G:\308005\civil\CAD\plot date: 23/02/2022 10:39 AM, Sheet: 8 of 17, Sheets

Rev	Description	By	Date
A	PRELIMINARY ISSUE	BW	23/02/22
	Amendments	Approved	

Scale
 H 1:100
 SCALE @ A1
 V 1:50

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Designed
J.SIM
 Authorised
B.WAREHAM

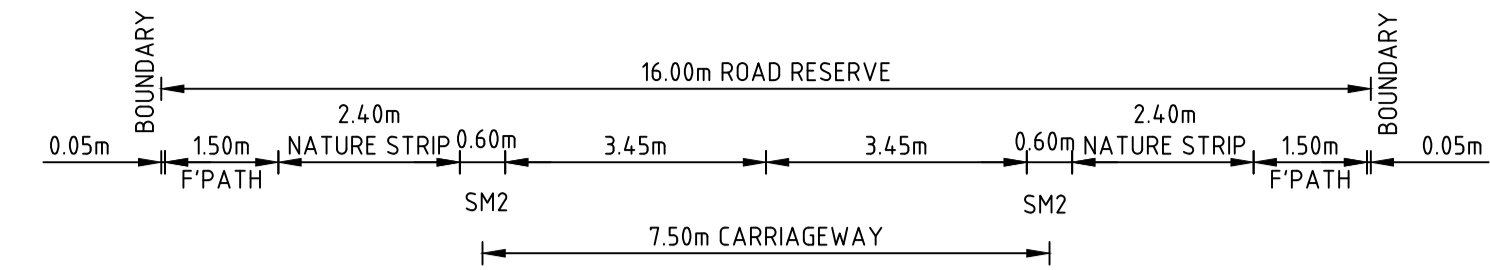
Checked

 Date
 23-02-2022

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

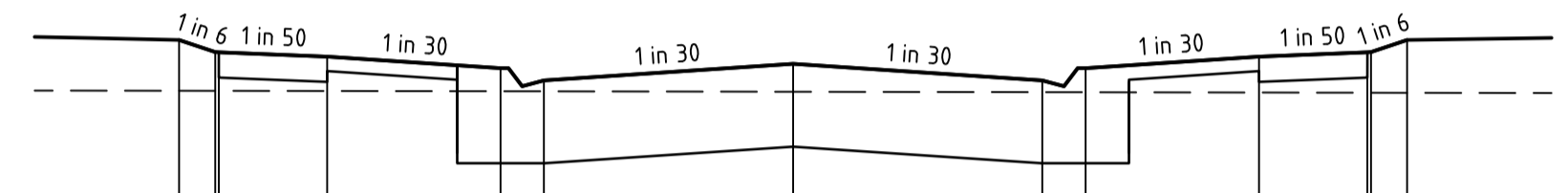
PRELIMINARY Drg No **308005CR401** Rev **A**

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.



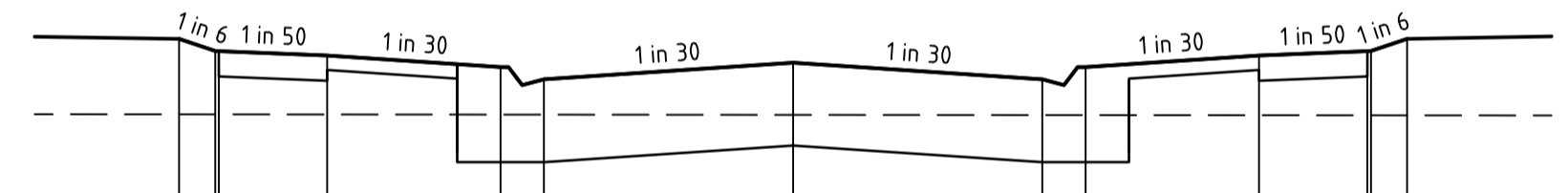
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DESIGN SURFACE LEVEL	50.127
EXISTING SURFACE LEVEL	49.867
OFFSET	-8.500

LUNN ST CH 198.87



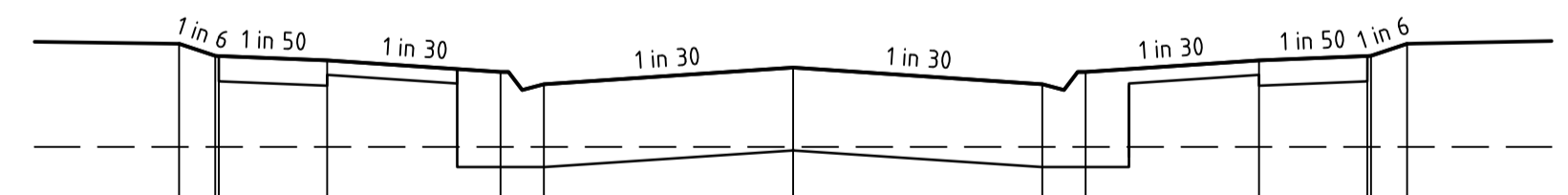
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DESIGN SURFACE LEVEL	49.825
EXISTING SURFACE LEVEL	49.474
OFFSET	-8.500

LUNN ST CH 166.46



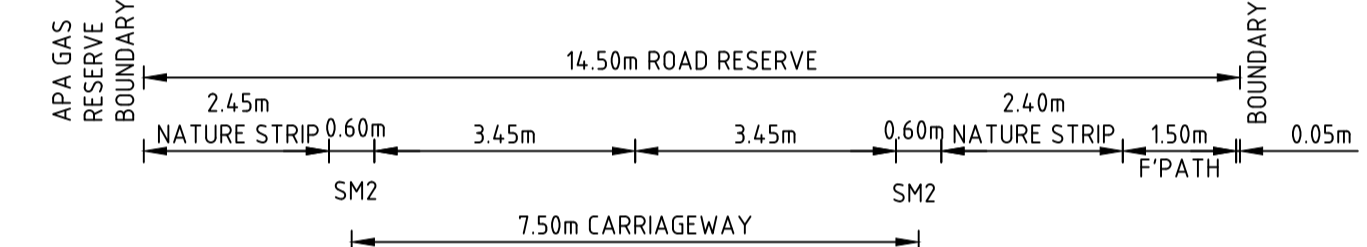
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DESIGN SURFACE LEVEL	49.653
EXISTING SURFACE LEVEL	49.131
OFFSET	-8.500

LUNN ST CH 139.96



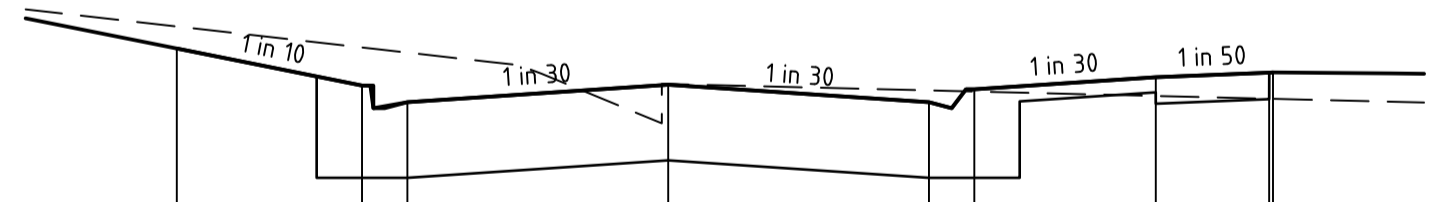
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DESIGN SURFACE LEVEL	49.458
EXISTING SURFACE LEVEL	48.745
OFFSET	-8.500

LUNN ST CH 110.02



DATUM R.L.49.0	
DESIGN SURFACE LEVEL	50.390
EXISTING SURFACE LEVEL	50.263
OFFSET	-6.500

LUNN ST CH 241.74



DATUM R.L.48.0	
DESIGN SURFACE LEVEL	50.234
EXISTING SURFACE LEVEL	50.379
OFFSET	-6.500

LUNN ST CH 217.74

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Scale
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 SCALE @ A1
 V 1:50

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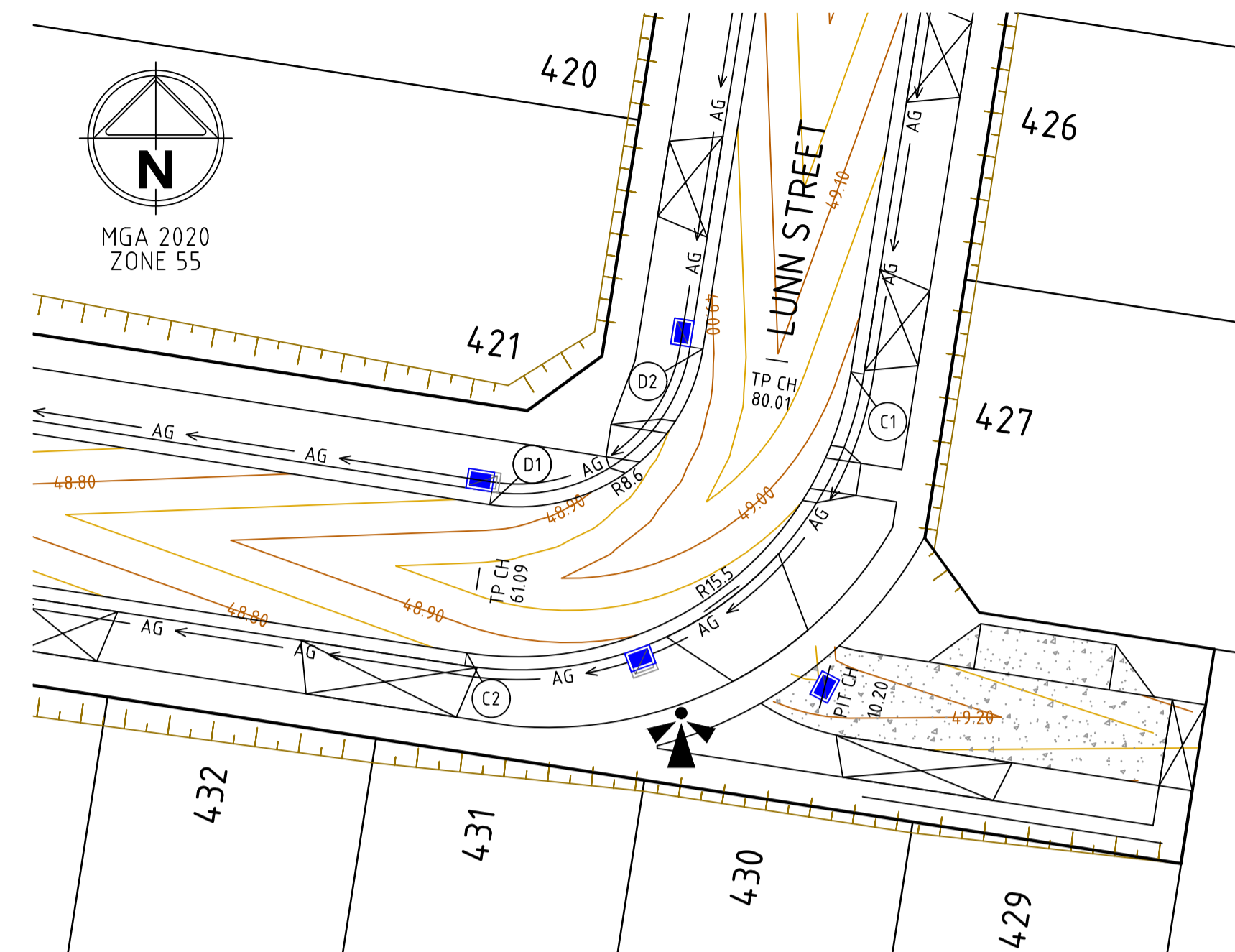
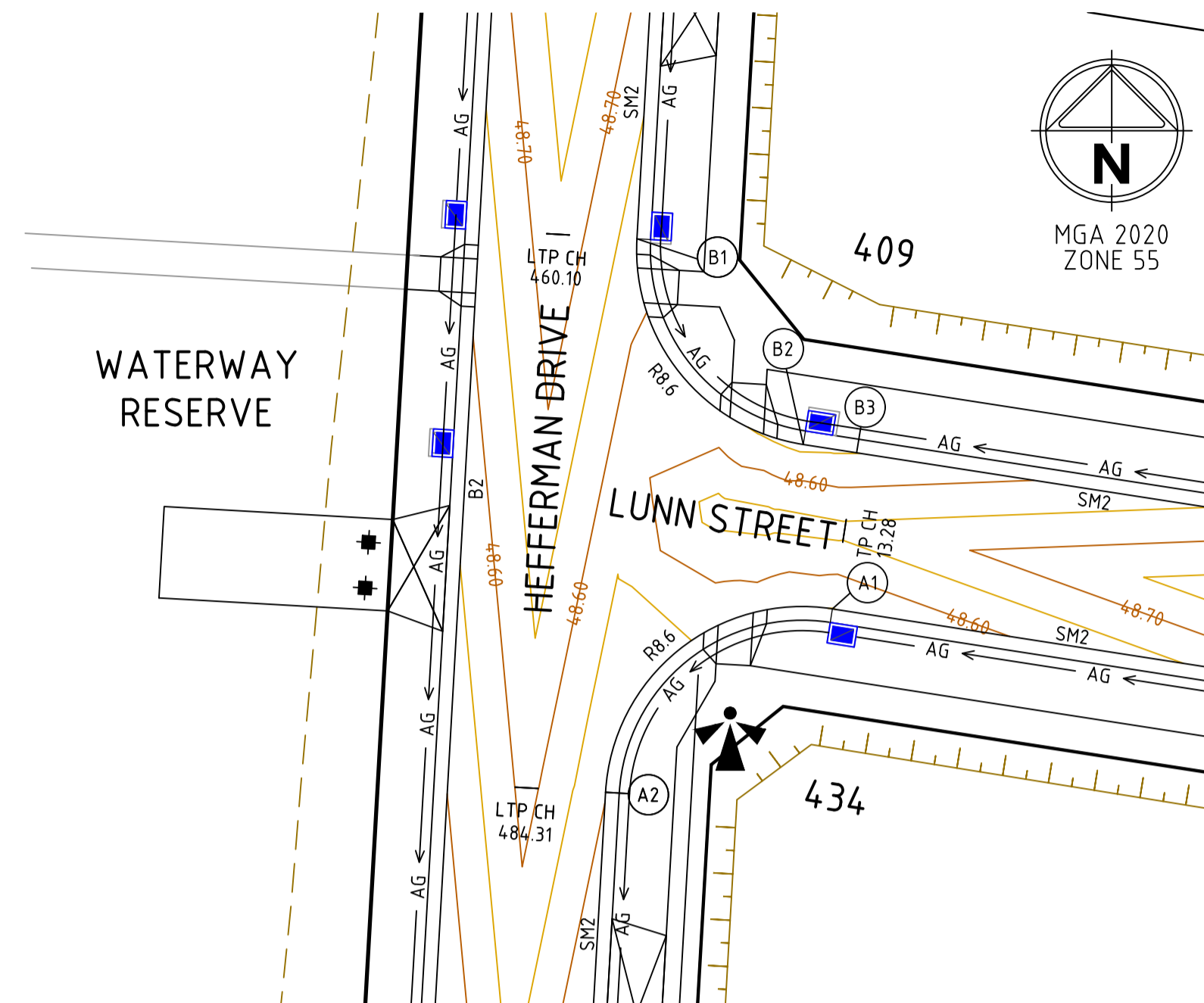
Designed
 J.SIM
 Authorised
 B.WAREHAM
 Checked

 Date
 23-02-2022

**OFFICER FIELDS
 STAGE 4
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 3**
 CARDINIA SHIRE COUNCIL
 YOURLAND PTY LTD
PRELIMINARY

Drg No
308005CR402
 Rev
A

Rev	Description	Approved	Date
A	PRELIMINARY ISSUE	BW	23/02/22
	Amendments		



ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	361813.725	5787095.884	48.549
1/4	361810.170	5787095.690	48.567
1/2	361806.998	5787094.073	48.546
3/4	361804.753	5787091.309	48.525
A2	361803.820	5787087.873	48.503

ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	361805.190	5787112.049	48.624
1/4	361805.591	5787108.924	48.601
1/2	361807.090	5787106.154	48.577
3/4	361809.486	5787104.109	48.553
B2	361812.457	5787103.064	48.537
B3	361814.784	5787102.702	48.549

ALIGNMENT C

POINT NO	EASTING	NORTHING	RL
C1	361878.660	5787101.467	48.983
1/4	361876.579	5787095.794	48.952
1/2	361872.487	5787091.348	48.921
3/4	361867.006	5787088.804	48.891
C2	361860.968	5787088.549	48.860

ALIGNMENT D

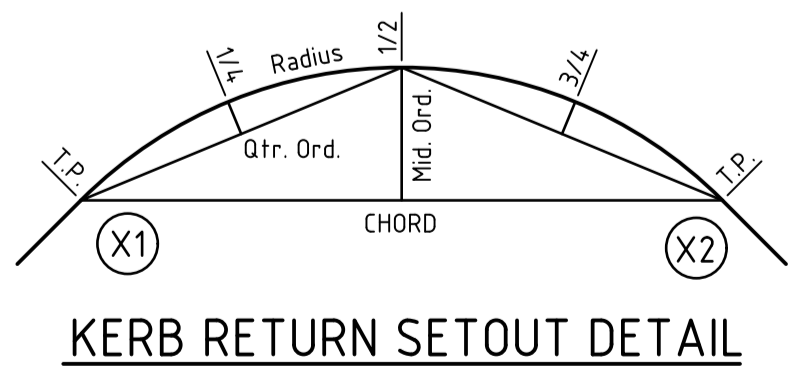
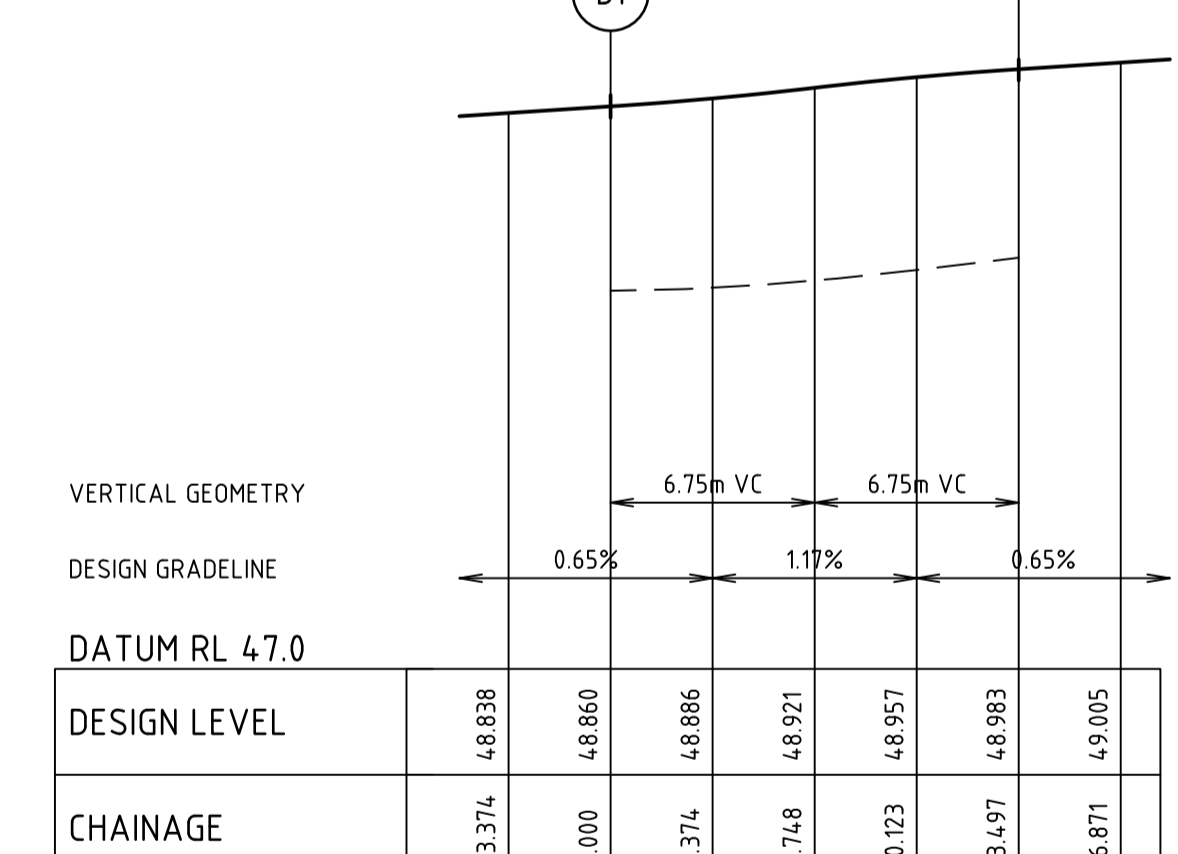
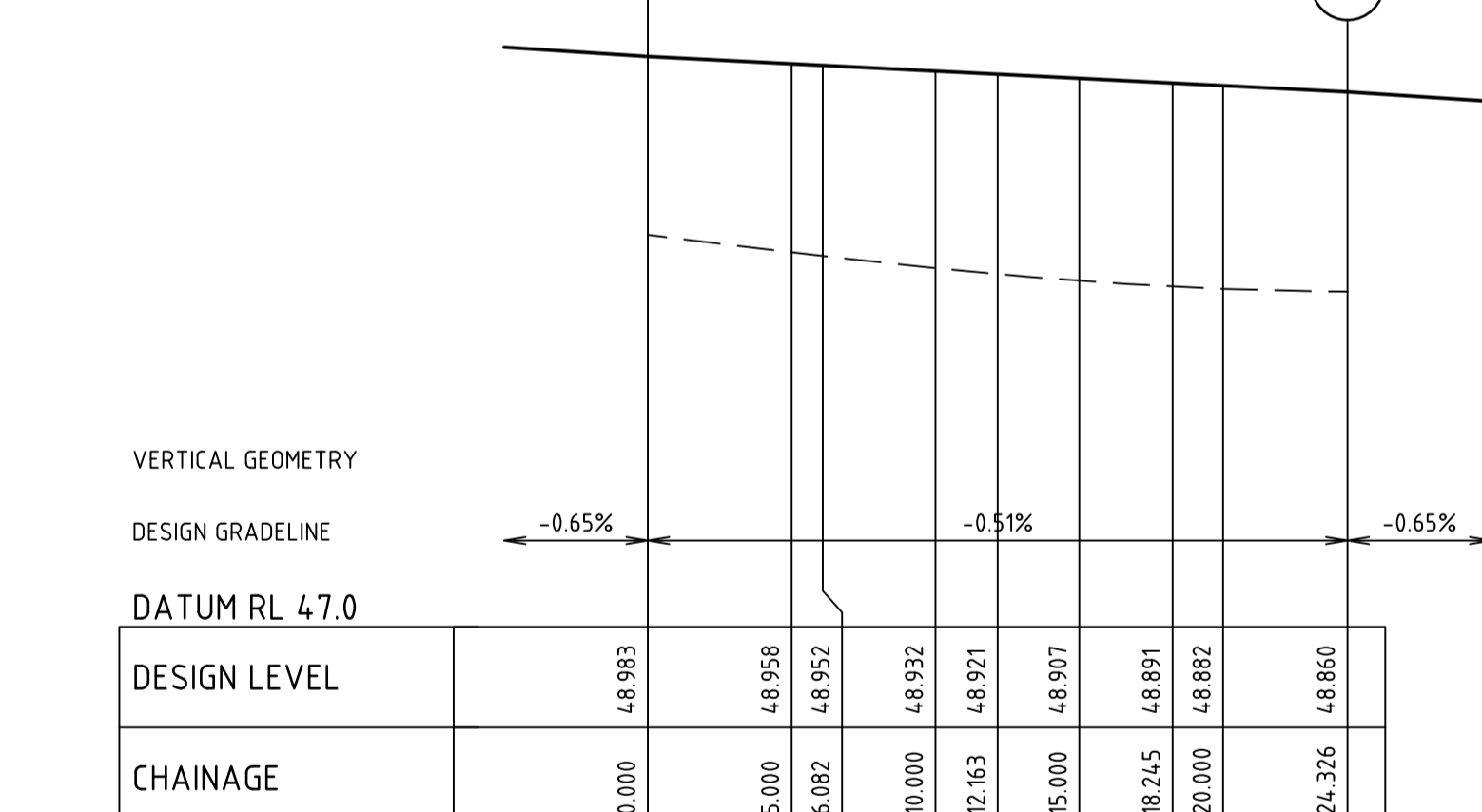
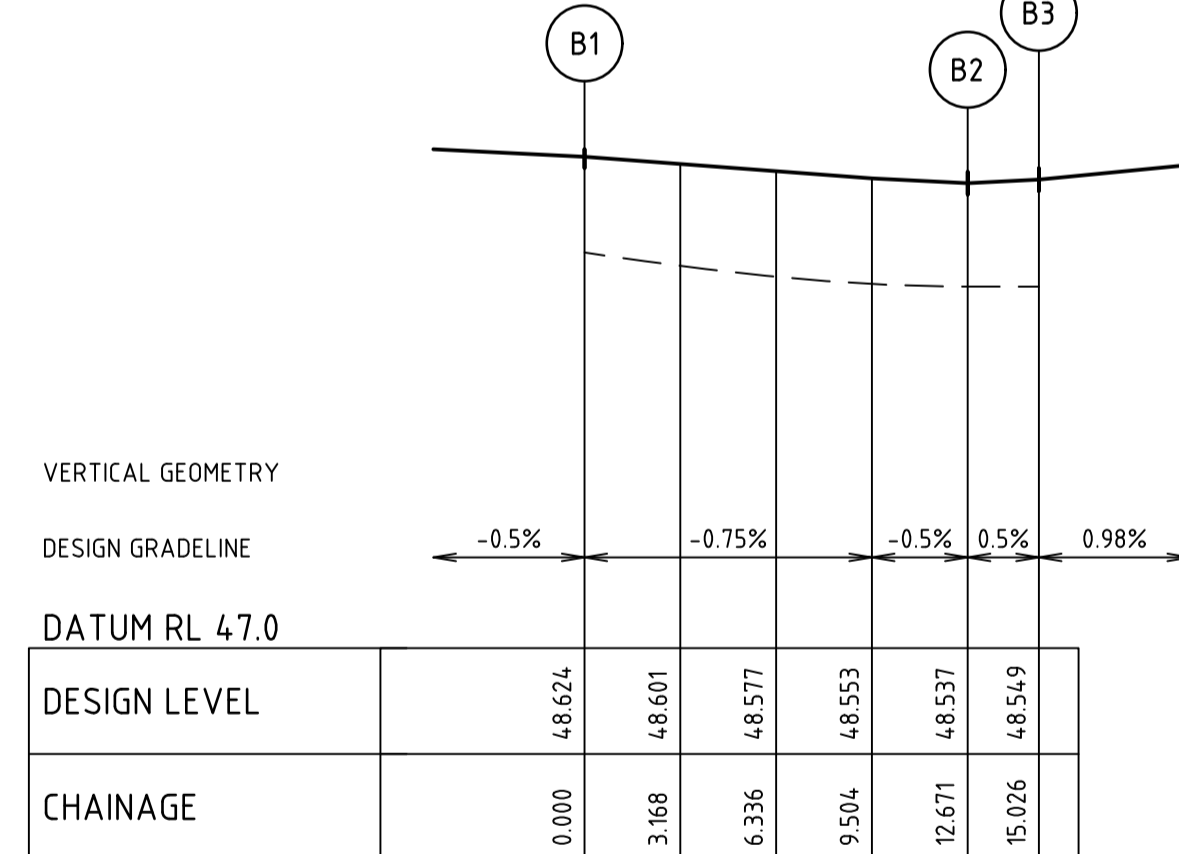
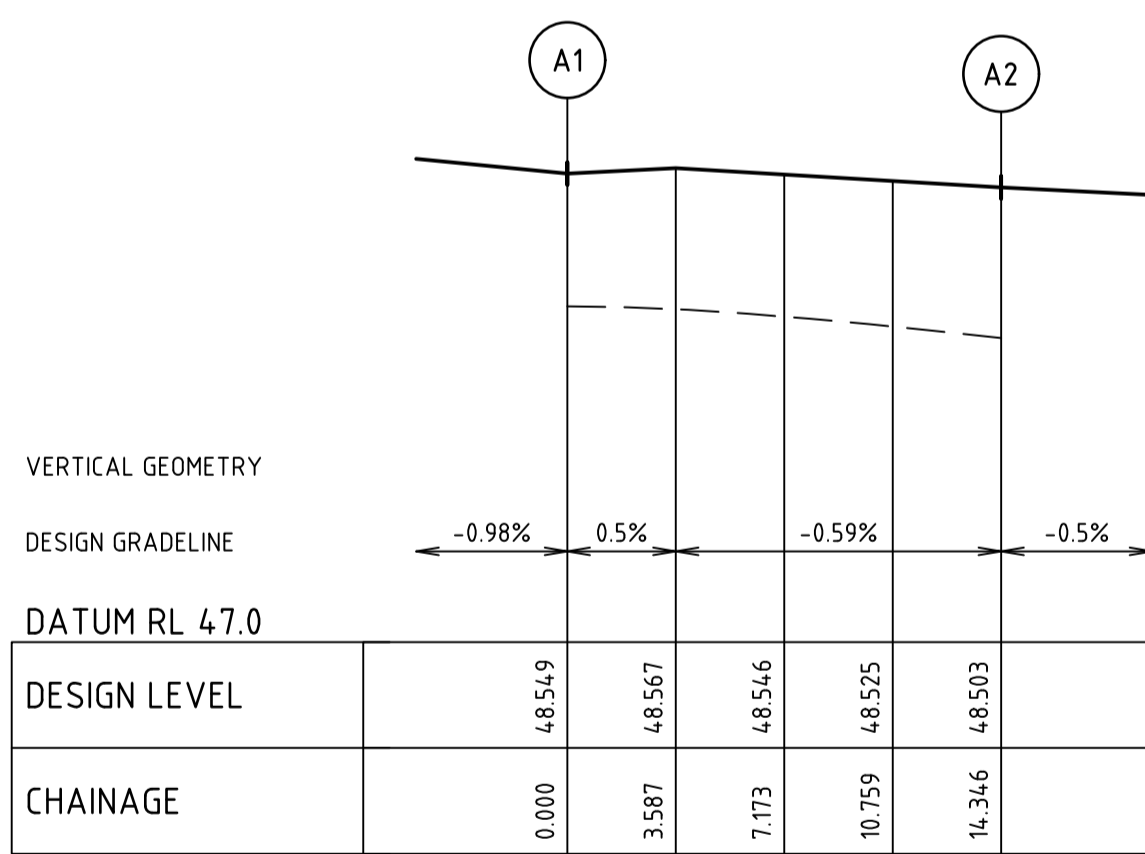
POINT NO	EASTING	NORTHING	RL
D1	361862.027	5787095.368	48.860
1/4	361865.377	5787095.509	48.886
1/2	361868.418	5787096.920	48.921
3/4	361870.688	5787099.387	48.957
D2	361871.843	5787102.535	48.983

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1-A2	8.600	14.346	12.740	2.822	-0.737

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B1-B2	8.600	12.671	11.556	2.230	-0.577

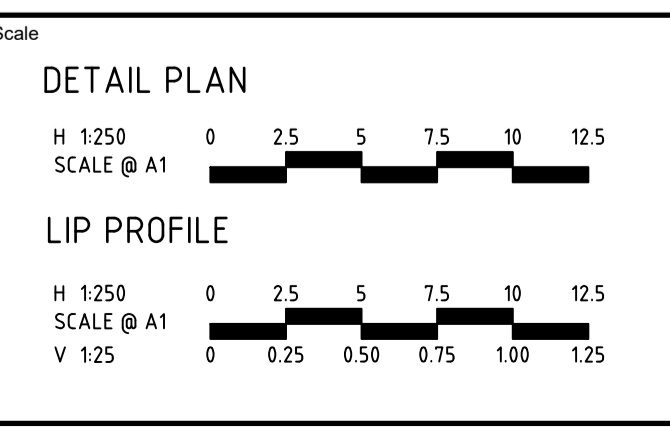
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
C1-C2	15.500	24.326	21.905	4.532	1.1787

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D1-D2	8.600	13.497	12.154	2.515	-0.654



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	Amendments		



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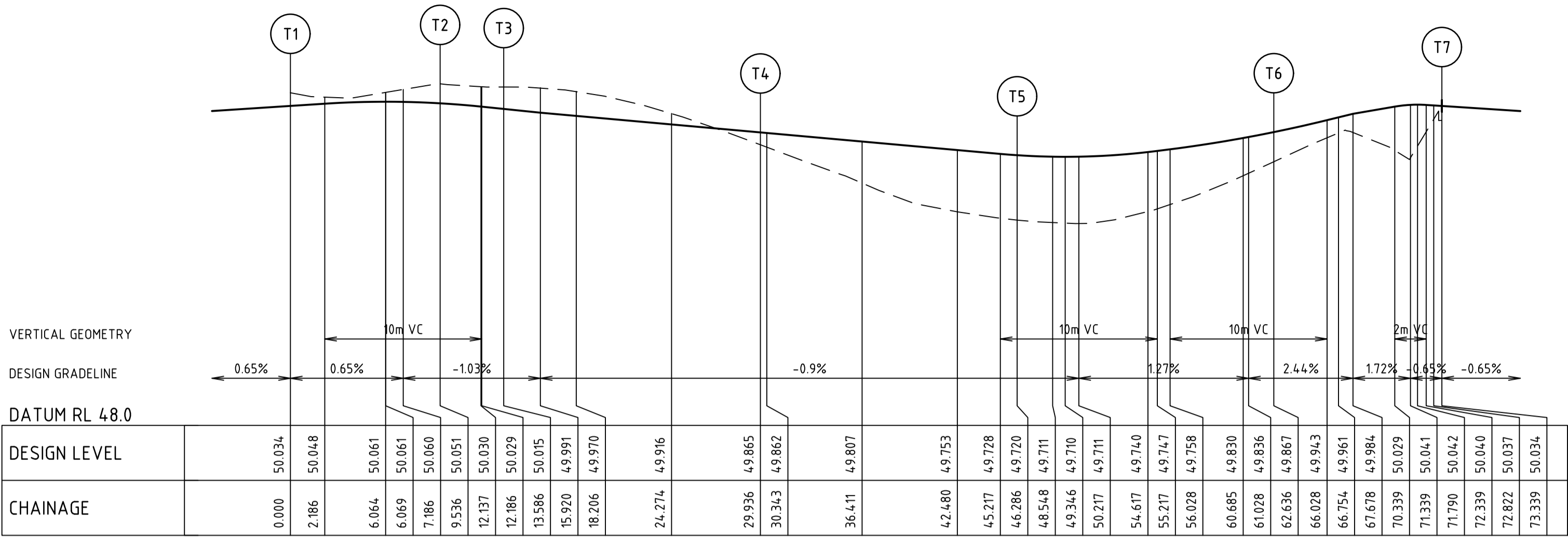
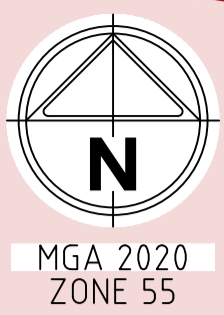
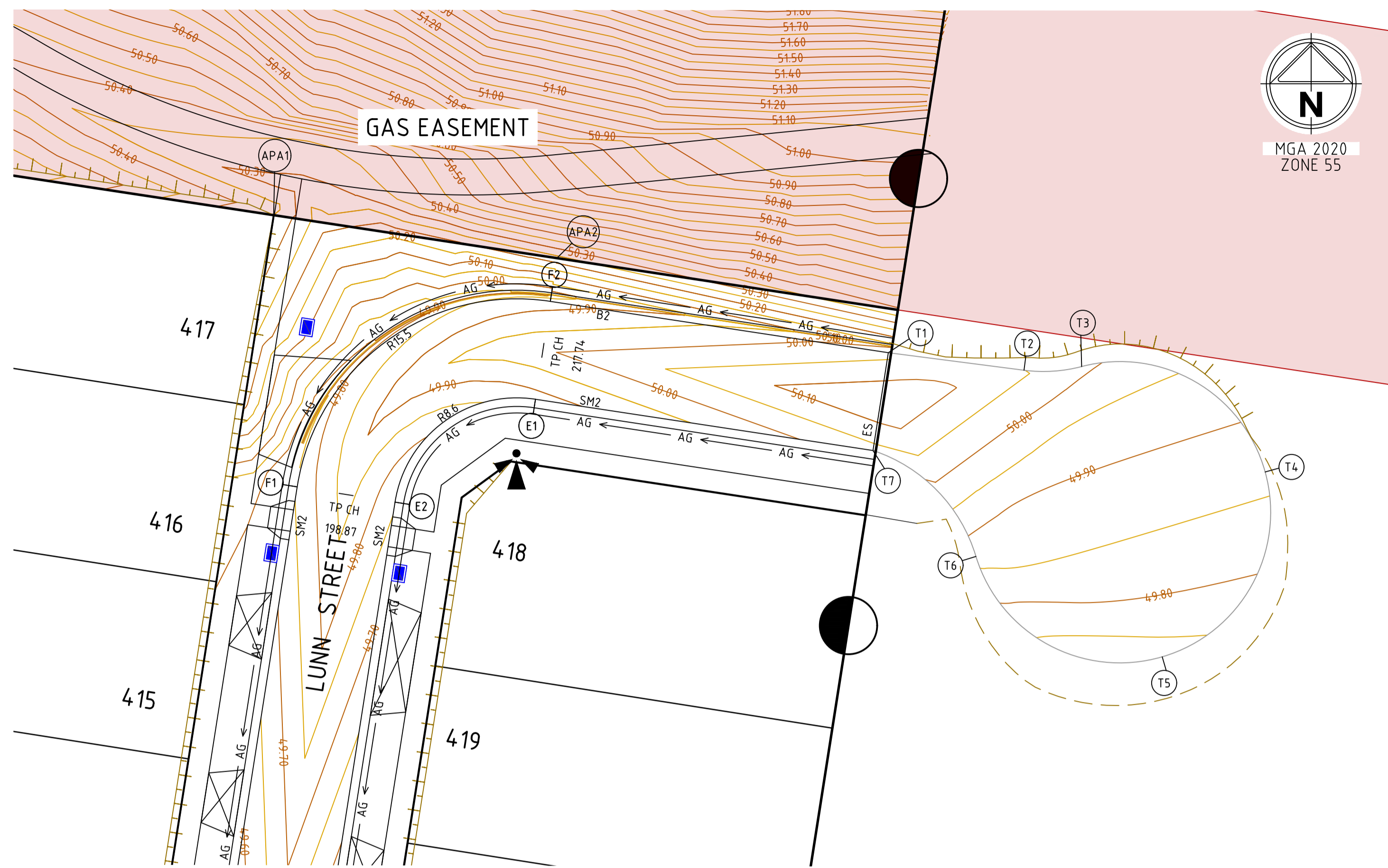
Checked

Authorised
B.WAREHAM

Date
23-02-2022

**OFFICER FIELDS
STAGE 4
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 1**
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Dwg No **308005CR500** Rev **A**



ALIGNMENT TEMPORARY TURNAROUND

ALIGNMENT TEMPORARY TURNAROUND

POINT NO	EASTING	NORTHING	RL
T1	361931.431	5787229.313	50.034
T2	361940.887	5787228.090	50.051
1/4	361941.896	5787228.009	50.044
1/2	361942.908	5787228.025	50.035
3/4	361943.914	5787228.138	50.025
T3	361944.904	5787228.348	50.015
1/4	361948.958	5787228.602	49.975
1/2	361952.805	5787227.298	49.939
3/4	361955.869	5787224.631	49.902
T4	361957.691	5787221.001	49.865
1/4	361958.000	5787216.951	49.829
1/2	361956.749	5787213.087	49.792
3/4	361954.124	5787209.987	49.755
T5	361950.520	5787208.115	49.720
1/4	361946.474	5787207.751	49.711
1/2	361942.593	5787208.950	49.738
3/4	361939.458	5787211.531	49.793
T6	361937.537	5787215.110	49.867
1/4	361936.470	5787217.557	49.926
1/2	361934.853	5787219.681	49.989
3/4	361932.778	5787221.359	50.034
T7	361930.363	5787222.496	50.034

ALIGNMENT E

POINT NO	EASTING	NORTHING	RL
E1	361906.841	5787226.067	49.879
1/4	361903.499	5787225.917	49.853
1/2	361900.468	5787224.502	49.817
3/4	361898.205	5787222.037	49.782
E2	361897.054	5787218.896	49.756

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
E1-E2	8.600	13.468	12.134	2.505	-0.651

ALIGNMENT F

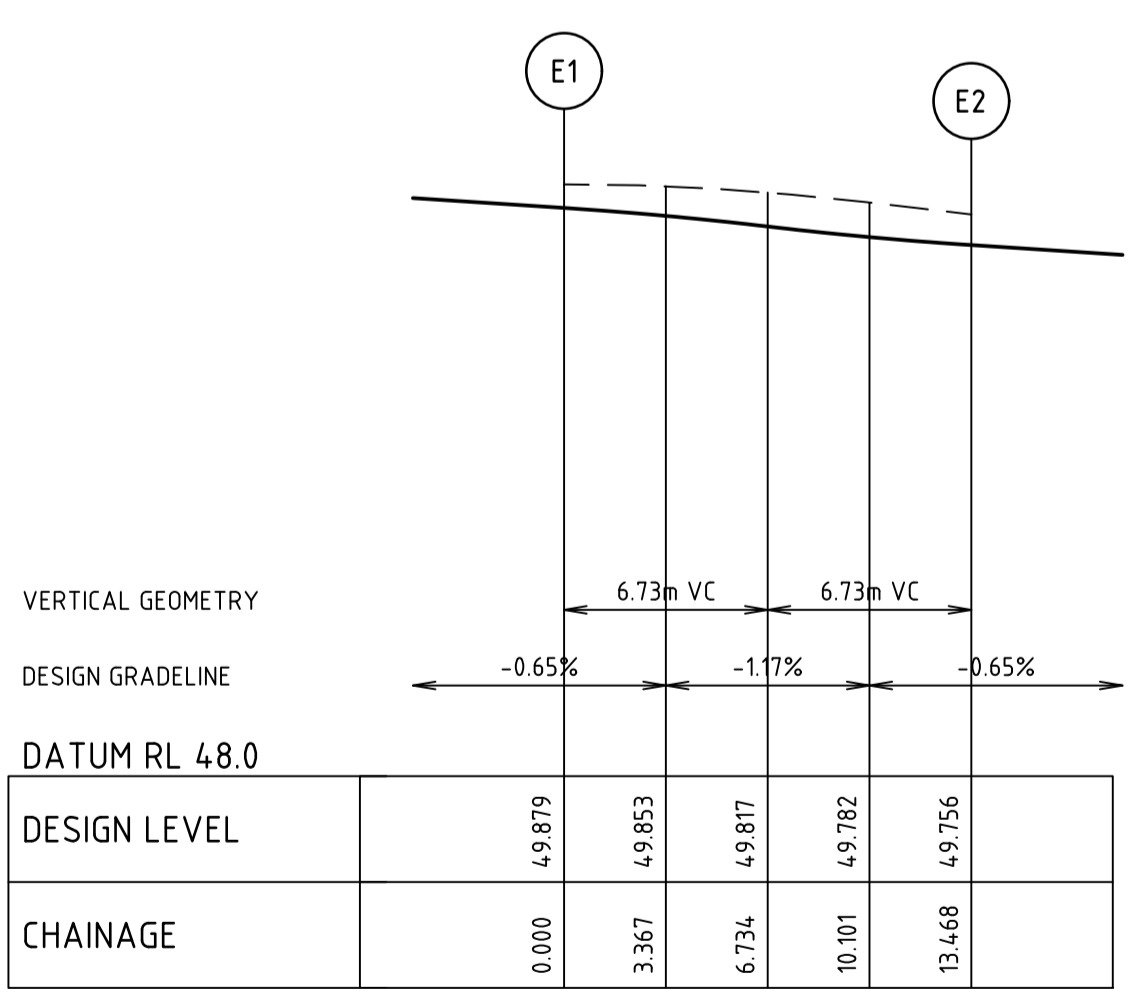
POINT NO	EASTING	NORTHING	RL
F1	361890.237	5787219.964	49.756
1/4	361892.311	5787225.625	49.787
1/2	361896.389	5787230.067	49.817
3/4	361901.853	5787232.617	49.848
F2	361907.877	5787232.889	49.879

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
F1-F2	15.500	24.274	21.869	4.514	1.173

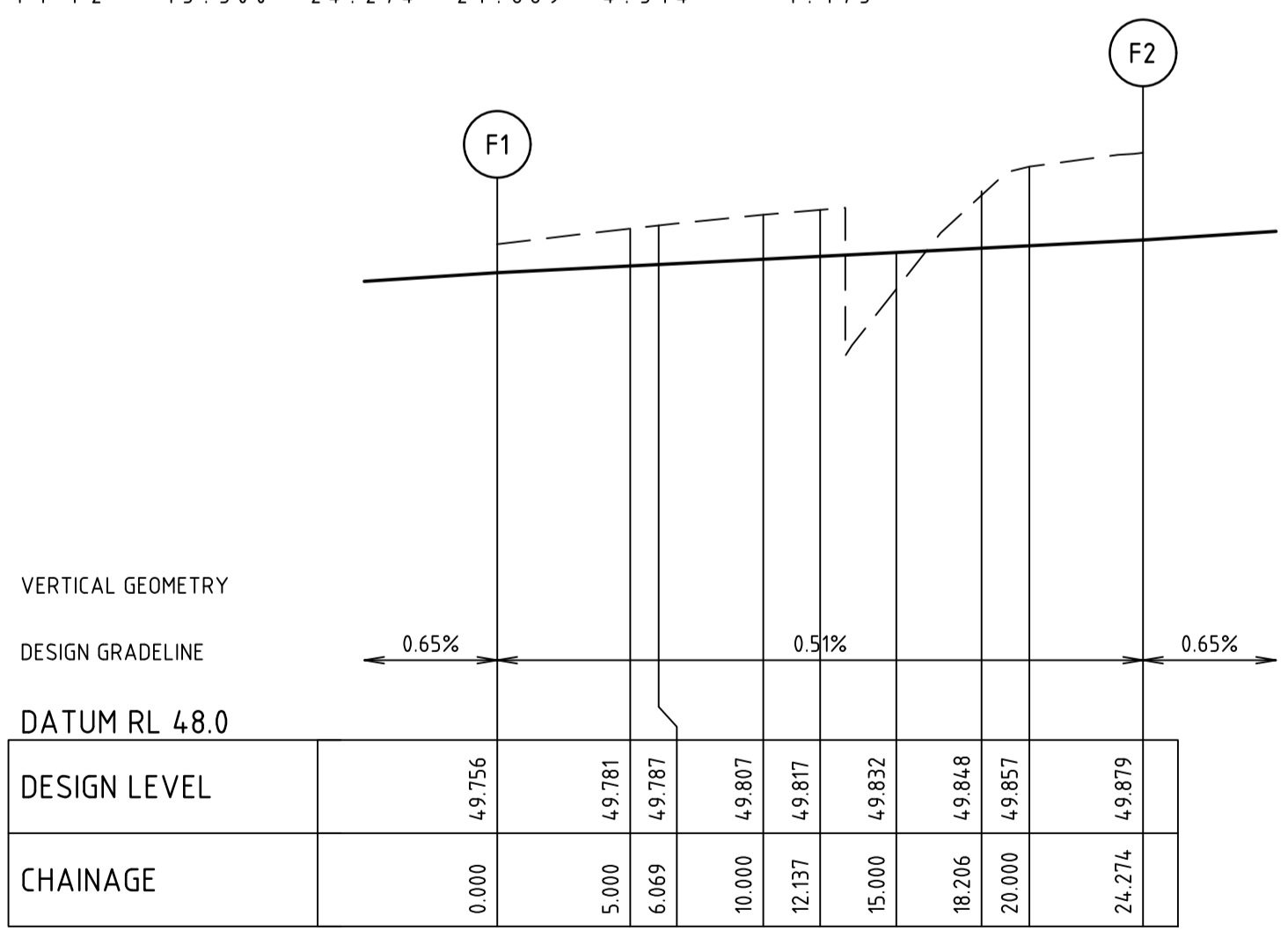
ALIGNMENT APA BDY

POINT NO	EASTING	NORTHING	RL
APA BDY1	361888.592	5787238.902	50.350
APA BDY2	361908.335	5787235.905	50.234

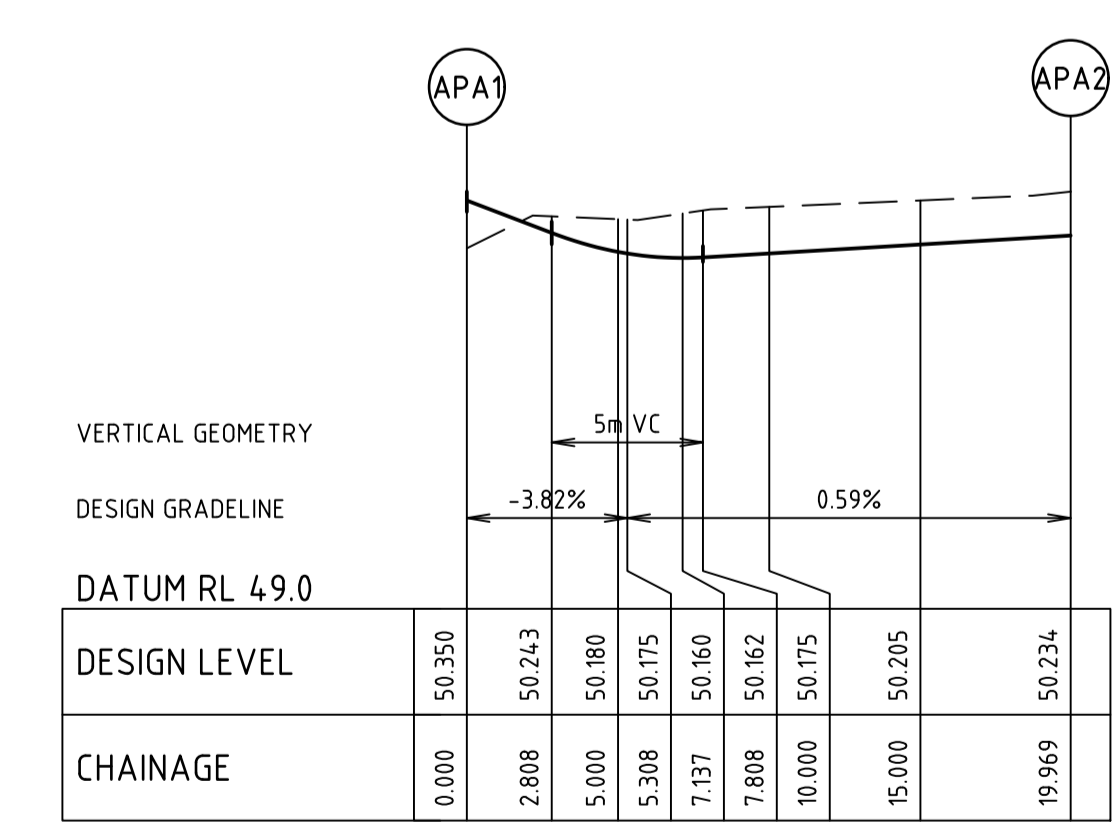
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
T2-T3	10.500	4.050	4.025	0.195	-0.049
T3-T4	10.500	16.350	14.748	3.025	0.786
T4-T5	10.500	16.350	14.748	3.025	0.786
T5-T6	10.500	16.350	14.748	3.025	0.786
T6-T7	11.150	10.703	10.297	1.260	-0.320



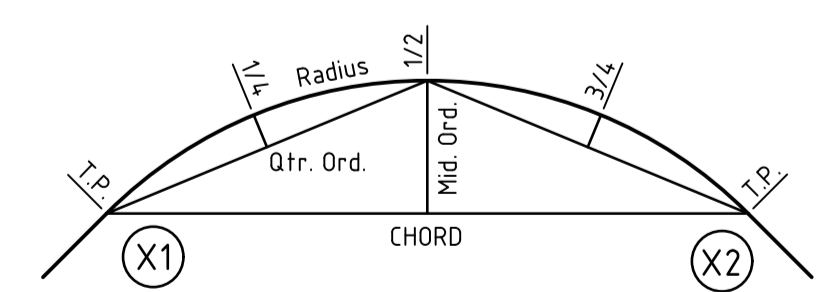
ALIGNMENT E



ALIGNMENT F



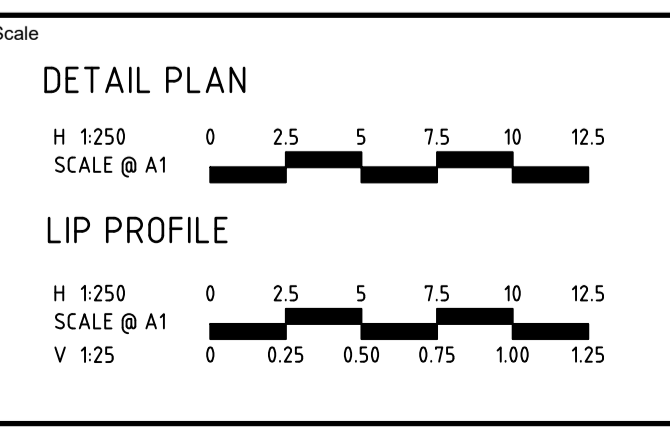
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KERB RETURN SETOUT DETAIL

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Rev	Description	Approved	Date
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	Amendments		



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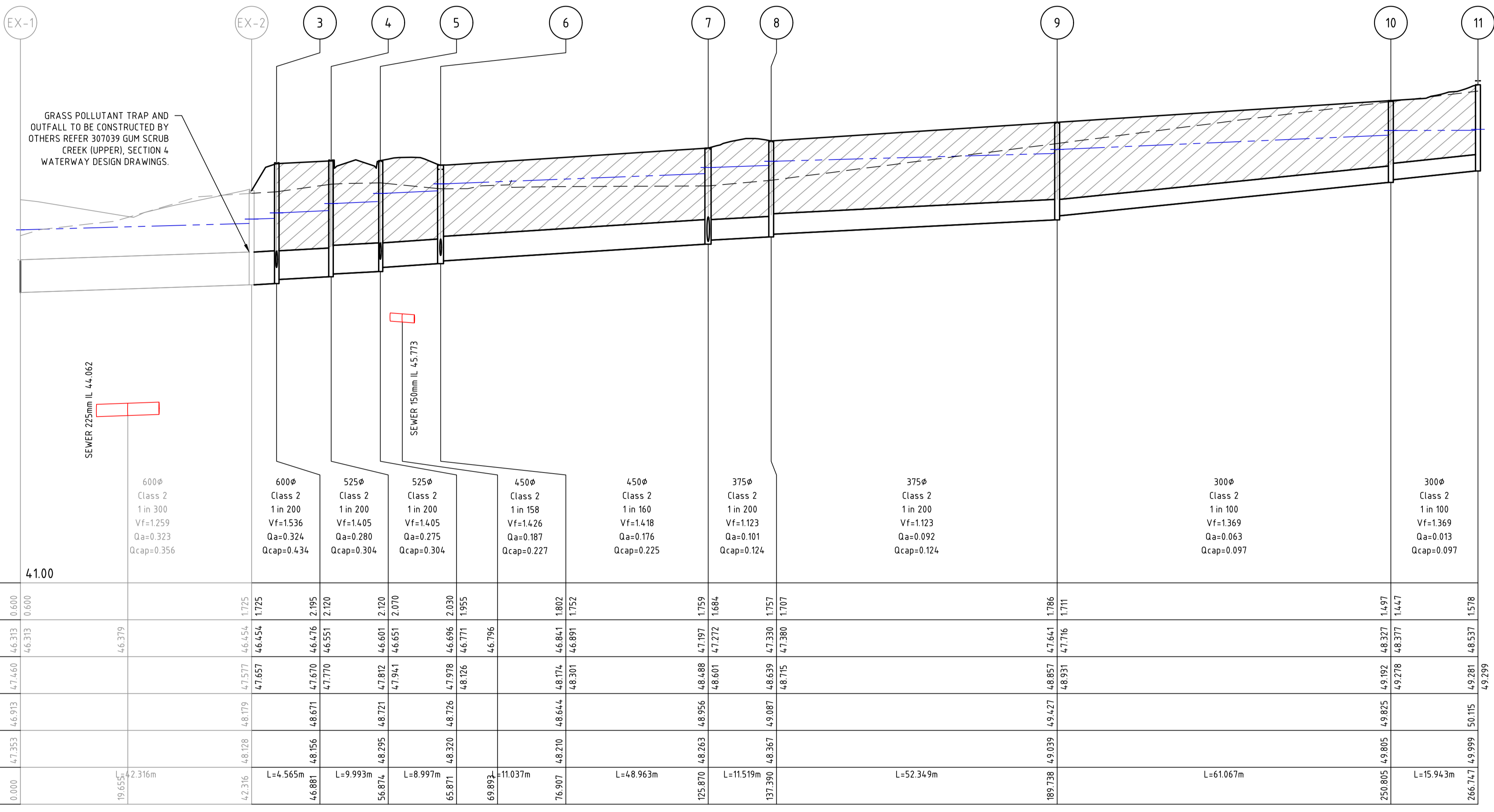
Checked

Authorised
B.WAREHAM

Date
23-02-2022

**OFFICER FIELDS
STAGE 4
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 2**
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

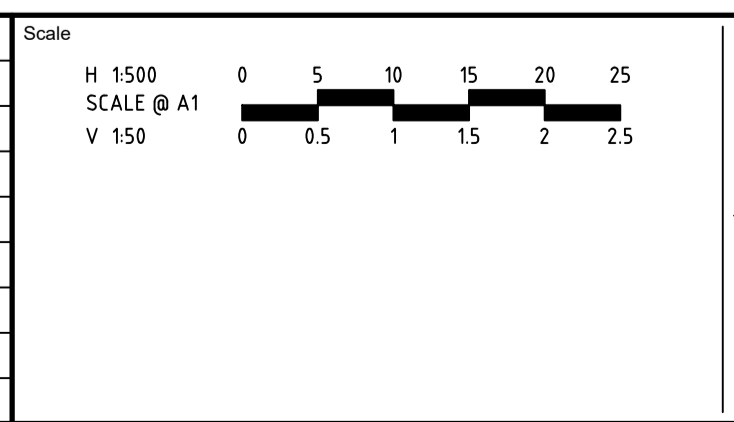
PRELIMINARY Dwg No **308005CR501** Rev **A**



Station	EX-1	EX-2	3	4	5	6	7	8	9	10	11
Pipe Diameter		600Ø	600Ø	525Ø	525Ø	450Ø	450Ø	375Ø	375Ø	300Ø	300Ø
Pipe Class		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	1 in 200	1 in 200	1 in 200	1 in 158	1 in 160	1 in 200	1 in 200	1 in 100	1 in 100
Velocity (m/s)		Vf=1.259	Vf=1.536	Vf=1.405	Vf=1.405	Vf=1.426	Vf=1.418	Vf=1.123	Vf=1.123	Vf=1.369	Vf=1.369
Pipe Flow (m ³ /s)		Qa=0.323	Qa=0.324	Qa=0.280	Qa=0.275	Qa=0.187	Qa=0.176	Qa=0.101	Qa=0.092	Qa=0.063	Qa=0.013
Pipe Capacity (m ³ /s)		Qcap=0.356	Qcap=0.434	Qcap=0.304	Qcap=0.304	Qcap=0.227	Qcap=0.225	Qcap=0.124	Qcap=0.124	Qcap=0.097	Qcap=0.097
DATUM RL	41.00										
DEPTH TO INVERT	0.600	0.600	1.725	2.095	2.120	2.200	1.802	1.752	1.766	1.711	1.578
DESIGN INVERT LEVEL	46.313	46.313	46.454	46.476	46.551	46.601	46.841	46.891	47.641	48.327	48.537
HYDRAULIC GRADE LEVEL	47.460	47.460	47.577	47.670	47.770	47.812	48.174	48.301	48.857	49.192	49.281
FINISHED SURFACE LEVEL	46.913	46.913	46.819	46.671	46.721	46.651	46.644	46.956	49.427	49.825	50.115
EXISTING SURFACE LEVEL	47.353	46.913	46.819	46.671	46.721	46.651	46.644	46.956	49.427	49.825	50.115
CHAINAGE	0.000	19.655	42.316	46.881	56.874	65.871	69.893	76.907	125.870	137.390	250.805
		2.316m	L=4.565m	L=9.993m	L=8.997m	L=8.997m	L=11.037m	L=4.963m	L=52.349m	L=4.878m	L=61.067m
											L=15.943m

file name: 308005CR600.dwg, layout name: CR600, plotted by: Jacinta Sim, plot date: 23/02/2022, 10:35 AM, Sheet 12 of 17 Sheets

Rev	Description	By	Date
A	PRELIMINARY ISSUE	BW	23/02/22
	Amendments	Approved	Date



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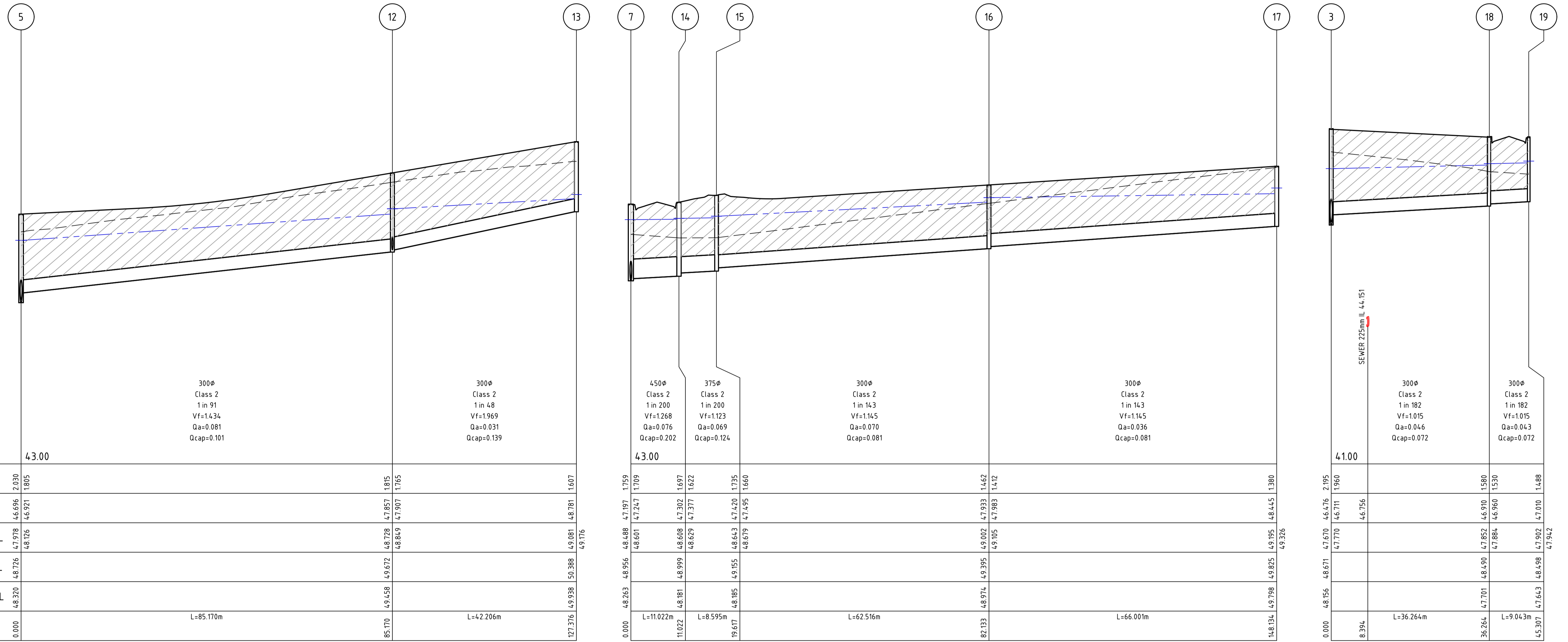
L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE
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 spiire.com.au ABN 55 050 029 635

Designed: B.GILL
 Authorised: B.WAREHAM
 Checked: -----
 Date: 23-02-2022

OFFICER FIELDS
STAGE 4
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 1
 CARDINIA SHIRE COUNCIL
 YOURLAND PTY LTD

PRELIMINARY

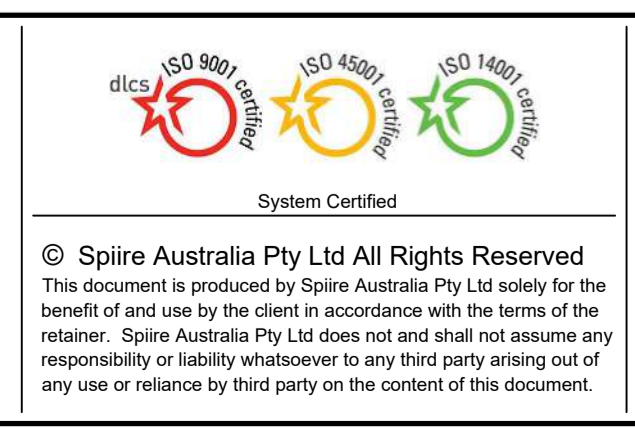
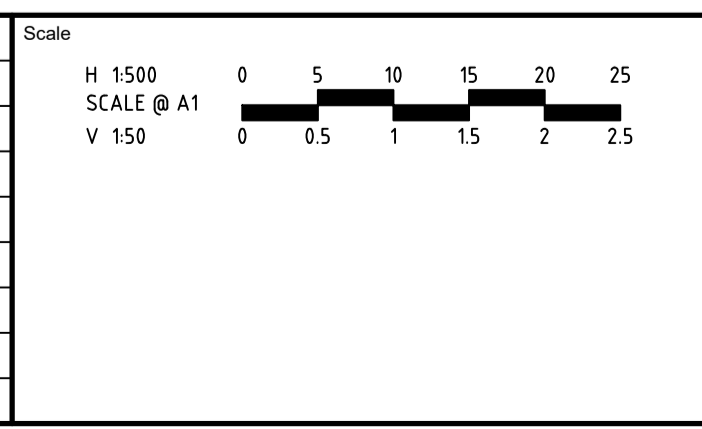
Dwg No 308005CR600 Rev A



Property	Station 5	Station 12	Station 13	Station 7	Station 14	Station 15	Station 16	Station 17	Station 3	Station 18	Station 19
Pipe Diameter	300φ	300φ	300φ	450φ	375φ	300φ	300φ	300φ	300φ	300φ	300φ
Pipe Class	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 91	1 in 48	1 in 48	1 in 200	1 in 200	1 in 143	1 in 143	1 in 143	1 in 182	1 in 182	1 in 182
Velocity (m/s)	Vf=1.434	Vf=1.969	Vf=1.969	Vf=1.268	Vf=1.123	Vf=1.145	Vf=1.145	Vf=1.145	Vf=1.015	Vf=1.015	Vf=1.015
Pipe Flow (m ³ /s)	Qa=0.081	Qa=0.031	Qa=0.031	Qa=0.076	Qa=0.069	Qa=0.070	Qa=0.070	Qa=0.036	Qa=0.046	Qa=0.043	Qa=0.043
Pipe Capacity (m ³ /s)	Qcap=0.101	Qcap=0.139	Qcap=0.139	Qcap=0.202	Qcap=0.124	Qcap=0.081	Qcap=0.081	Qcap=0.081	Qcap=0.072	Qcap=0.072	Qcap=0.072
DATUM RL	43.00			43.00					41.00		
DEPTH TO INVERT	2.030	1.805	1.607	1.759	1.709	1.660	1.462	1.380	2.195	1.960	1.488
DESIGN INVERT LEVEL	46.696	46.921	48.781	48.001	47.247	47.345	47.933	48.445	46.676	46.711	47.000
HYDRAULIC GRADE LEVEL	47.978	48.126	49.081	48.688	47.897	47.955	47.983	49.195	47.670	46.756	47.942
FINISHED SURFACE LEVEL	48.726	49.672	50.388	48.956	48.999	49.155	49.395	49.825	48.671	47.770	48.598
EXISTING SURFACE LEVEL	48.320	49.458	49.938	48.263	48.181	48.185	48.974	49.798	48.156	47.701	47.643
CHAINAGE	0.000	L=85.170m	L=42.206m	L=11.022m	L=8.595m	L=62.516m	L=66.001m	L=36.264m	L=9.043m		

file name: 308005CR601.dwg, layout name: CR601, plotted by: Jonathan, CIP, file location: G:\308005\308005.dwg, LACAD Plot date: 23/02/2022 10:35 AM, Sheet: 13 of 17 Sheets

Rev	Description	Approved	Date
A	PRELIMINARY ISSUE	BW	23/02/22
	Amendments		



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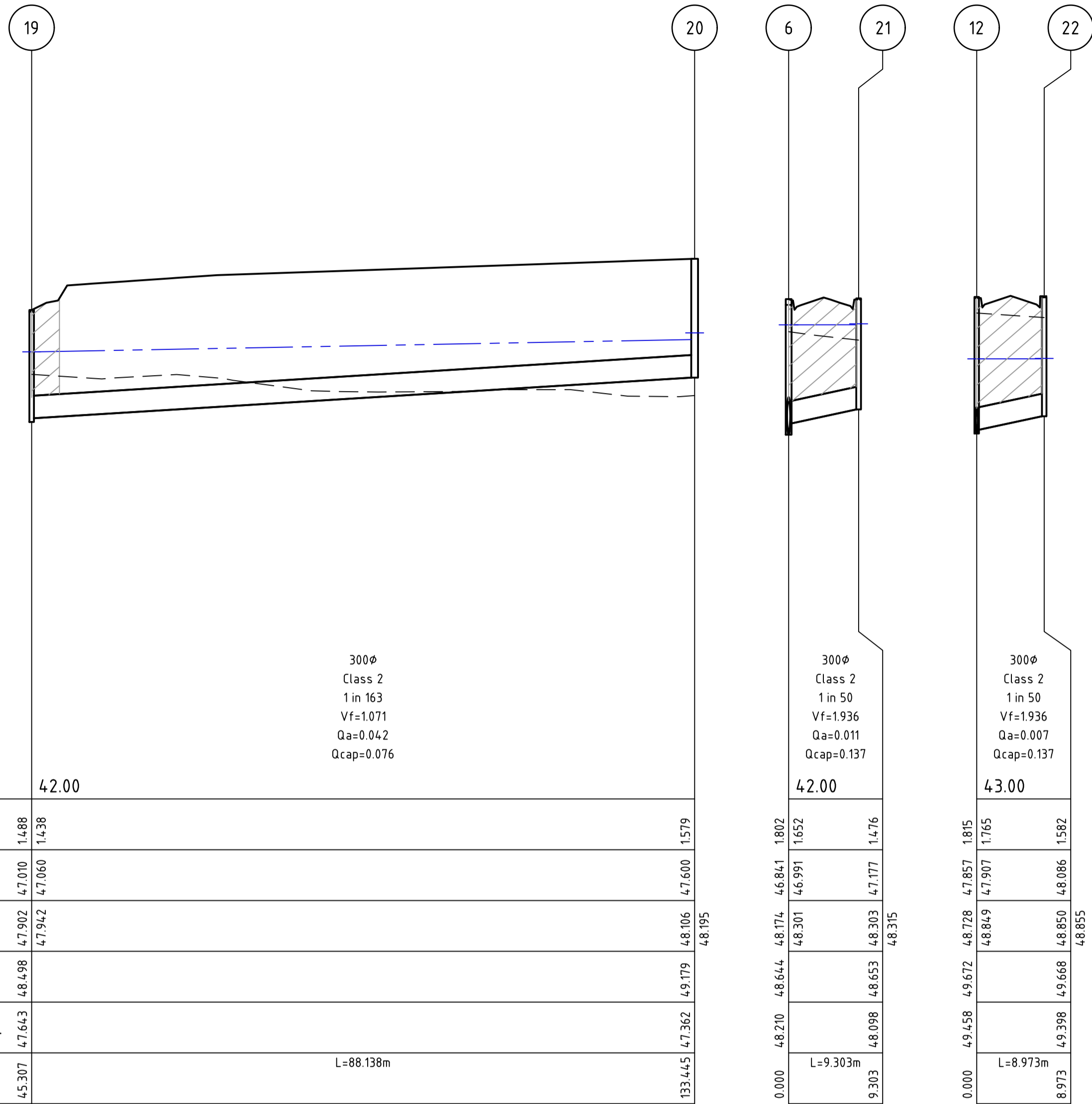
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 Authorised: B.WAREHAM
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**OFFICER FIELDS
 STAGE 4
 ROAD AND DRAINAGE
 DRAINAGE LONG SECTIONS - SHEET 2**
 CARDINIA SHIRE COUNCIL
 YOURLAND PTY LTD

PRELIMINARY Drg No: 308005CR601 Rev: A



Pipe Diameter 300Ø
 Pipe Class Class 2
 Pipe Grade 1 in 163
 Velocity (m/s) Vf=1.071
 Pipe Flow (m3/s) Qa=0.042
 Pipe Capacity (m3/s) Qcap=0.076

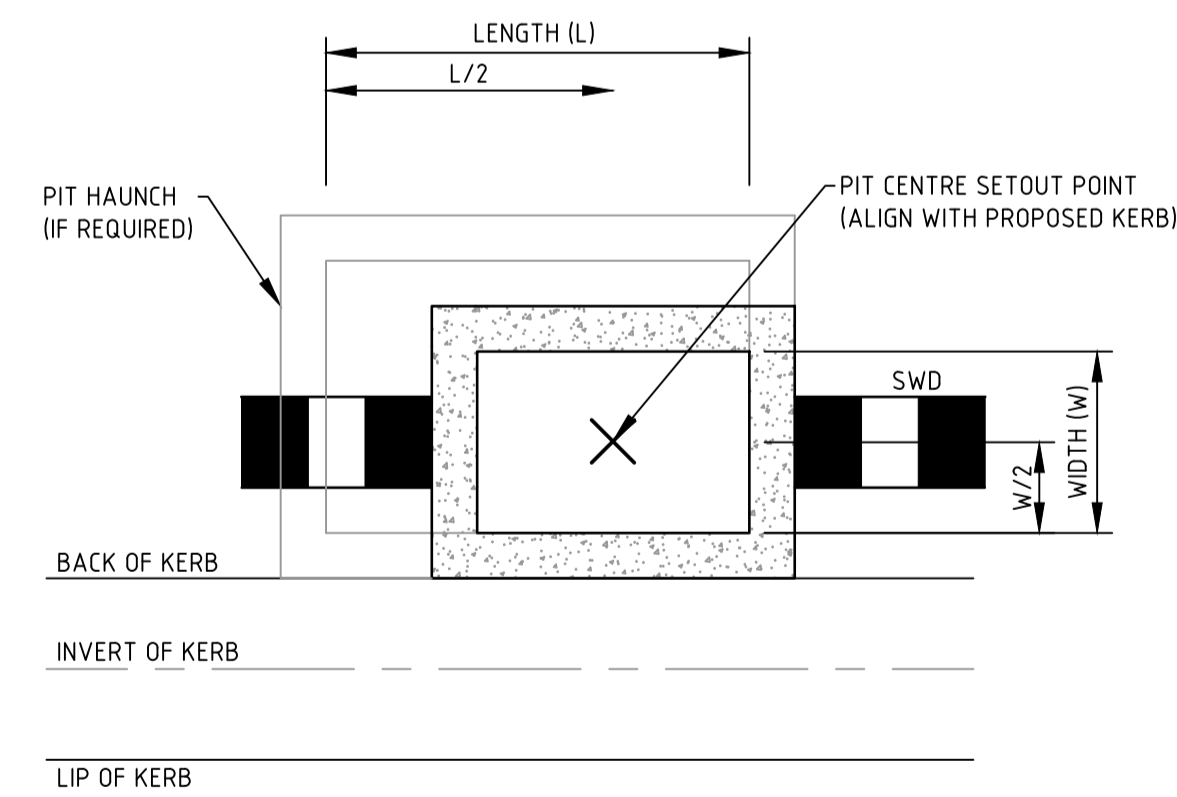
DATUM RL	42.00
DEPTH TO INVERT	1.288
DESIGN INVERT LEVEL	47.000
HYDRAULIC GRADE LEVEL	47.962
FINISHED SURFACE LEVEL	48.498
EXISTING SURFACE LEVEL	47.643
CHAINAGE	45.307

300Ø
 Class 2
 1 in 50
 Vf=1.936
 Qa=0.011
 Qcap=0.137

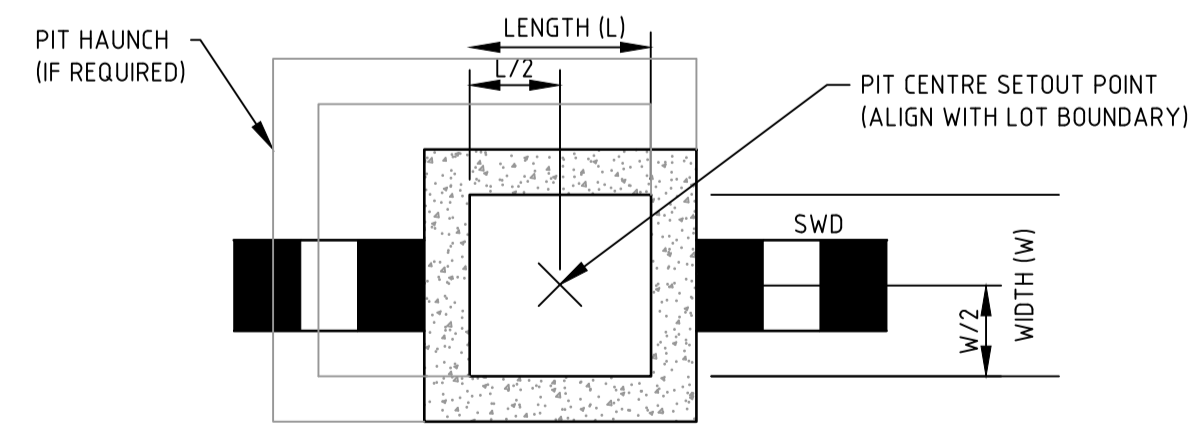
DATUM RL	42.00
DEPTH TO INVERT	1.802
DESIGN INVERT LEVEL	46.991
HYDRAULIC GRADE LEVEL	48.301
FINISHED SURFACE LEVEL	48.644
EXISTING SURFACE LEVEL	48.098
CHAINAGE	9.303

300Ø
 Class 2
 1 in 50
 Vf=1.936
 Qa=0.007
 Qcap=0.137

DATUM RL	43.00
DEPTH TO INVERT	1.815
DESIGN INVERT LEVEL	47.907
HYDRAULIC GRADE LEVEL	48.849
FINISHED SURFACE LEVEL	49.672
EXISTING SURFACE LEVEL	49.398
CHAINAGE	8.973



TYPICAL DRAINAGE PIT SETOUT POINT 'A'
SIDE ENTRY PIT
NOT TO SCALE



TYPICAL DRAINAGE PIT SETOUT POINT 'B'
JUNCTION PIT/ EASEMENT PIT
NOT TO SCALE

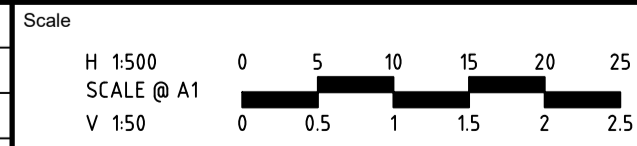
DRAINAGE PIT SCHEDULE

NAME	PIT TYPE	INTERNAL		INLET		OUTLET		PIT		REMARKS
		WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
EX-1	ENDPIPE	0	0	600	46.313			46.913	0.600	EXISTING OUTFALL TO BE CONSTRUCTED BY OTHERS
EX-2	GROSS POLLUTANT TRAP	900	900	600	46.454	600	46.454	48.179	1.725	EXISTING GPT TO BE INSTALLED BY OTHERS
3	GRATED SIDE ENTRY PIT	750	900	525	46.551	600	46.476	48.671	2.195	
4	GRATED SIDE ENTRY PIT	750	900	525	46.651	525	46.601	48.721	2.120	
5	GRATED SIDE ENTRY PIT	600	1050	450	46.771	525	46.696	48.726	2.030	
6	GRATED SIDE ENTRY PIT	750	1050	450	46.891	450	46.841	48.644	1.802	
7	GRATED SIDE ENTRY PIT	750	1200	375	47.272	450	47.197	48.956	1.759	
8	GRATED SIDE ENTRY PIT	600	900	375	47.380	375	47.330	49.087	1.757	
9	GRATED SIDE ENTRY PIT	600	900	300	47.716	375	47.641	49.427	1.786	
10	GRATED SIDE ENTRY PIT	600	900	300	48.377	300	48.327	49.825	1.497	
11	JUNCTION PIT	600	900	300	48.537	300	48.537	50.115	1.578	
12	GRATED SIDE ENTRY PIT	600	900	300	47.907	300	47.857	49.672	1.815	
13	GRATED SIDE ENTRY PIT	600	900	300	47.907	300	47.907	49.672	1.815	
14	GRATED SIDE ENTRY PIT	600	900	300	47.907	300	47.907	49.672	1.815	
15	JUNCTION PIT	600	900	300	47.495	375	47.420	49.155	1.735	
16	GRATED SIDE ENTRY PIT	600	900	300	47.983	300	47.933	49.395	1.462	
17	GRATED SIDE ENTRY PIT	600	900	300	48.445	300	48.445	49.825	1.380	
18	GRATED SIDE ENTRY PIT	600	900	300	46.960	300	46.910	48.490	1.580	
19	GRATED SIDE ENTRY PIT	600	900	300	47.010	300	46.960	48.498	1.488	
20	JUNCTION PIT	600	900	300	47.600	300	47.600	49.179	1.579	
21	GRATED SIDE ENTRY PIT	600	900	300	47.177	300	47.177	48.653	1.476	
22	GRATED SIDE ENTRY PIT	600	900	300	48.086	300	48.086	49.668	1.582	

PIT SETOUT CO-ORDINATES (MGA 2020)

NAME	POINT	EASTING	NORTHING
3	A	361796.722	5787103.121
4	A	361797.287	5787113.098
5	A	361806.270	5787112.588
6	A	361813.212	5787104.008
7	A	361861.595	5787096.497
8	A	361870.898	5787103.290
9	A	361878.998	5787155.008
10	A	361888.449	5787215.339
11	B	361890.916	5787231.090
12	A	361811.094	5787197.622
13	A	361813.483	5787239.760
14	A	361868.959	5787088.297
15	B	361877.453	5787086.978
16	A	361887.128	5787148.740
17	A	361897.342	5787213.947
18	A	361794.669	5787066.915
19	A	361803.604	5787065.527
20	B	361890.699	5787052.005
21	A	361814.157	5787094.754
22	A	361802.135	5787198.130

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 file location: \\spire\media\308005\308005.dwg | plot date: 23/02/2022 10:36 AM | Sheet: 14 of 17 Sheets



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Designed B.GILL
 Authorised B.WAREHAM
 Checked -----
 Date 23-02-2022

**OFFICER FIELDS
 STAGE 4
 ROAD AND DRAINAGE
 DRAINAGE LONG SECTIONS - SHEET 3**
 CARDINIA SHIRE COUNCIL
 YOURLAND PTY LTD

PRELIMINARY 308005CR602 **A**

Rev	A	PRELIMINARY ISSUE	BW	23/02/22
		Amendments	Approved	Date

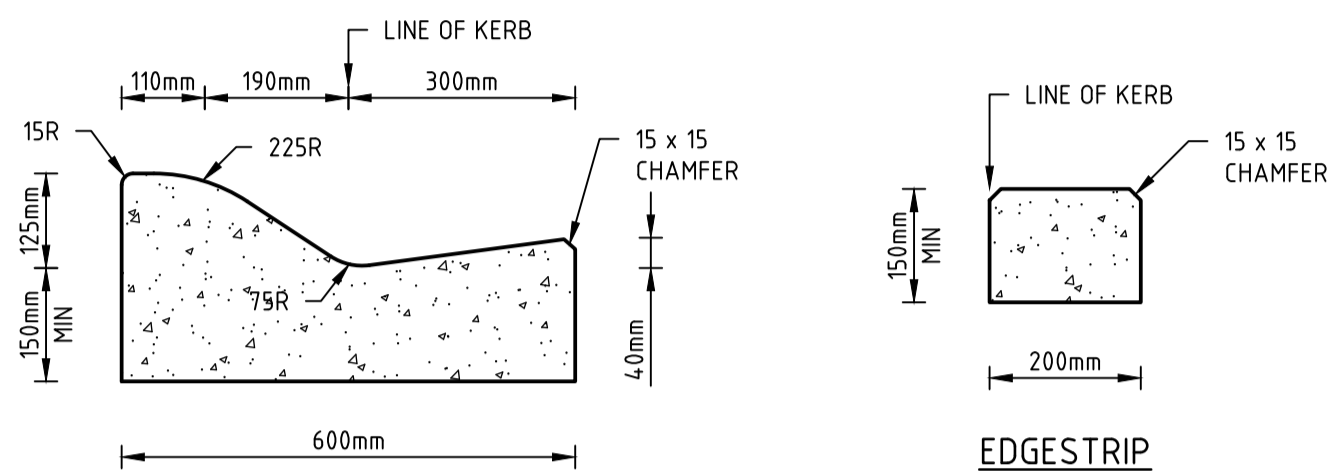
DESIGN PAVEMENT PROFILE

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		TYPE A*
WEARING COURSE ASPHALT	SIZE 10mm TYPE N 320 BINDER	30
BASE COURSE ASPHALT	SIZE 10mm TYPE N 320 BINDER	30
BITUMINOUS PRIME	NOMINAL	Y
BASE	20mm Nominal SIZE, CLASS 2 CRUSHED ROCK	130
SUBBASE	20mm SIZE CLASS 3 CRUSHED ROCK OR 20mm CLASS 3 CRUSHED CONCRETE. (MORE THAN ONE LAYER MAYBE REQUIRED).	230
TOTAL PAVEMENT DEPTH		420

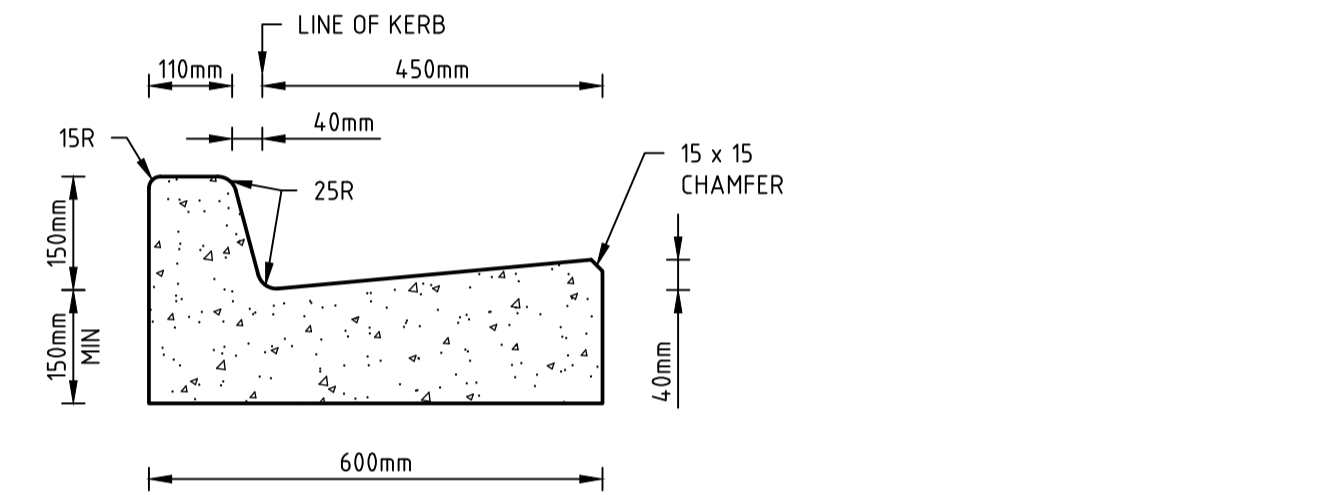
SUBGRADE IMPROVEMENT: 150MM CLASS 3 CRUSHED RECYCLED CONCRETE
TOTAL PAVEMENT THICKNESS OVER SUBGRADE PREPARATION CRB 5%

* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES

ROAD NAME	TYPE
HEFFERMAN DRIVE	A
LUNN STREET	A



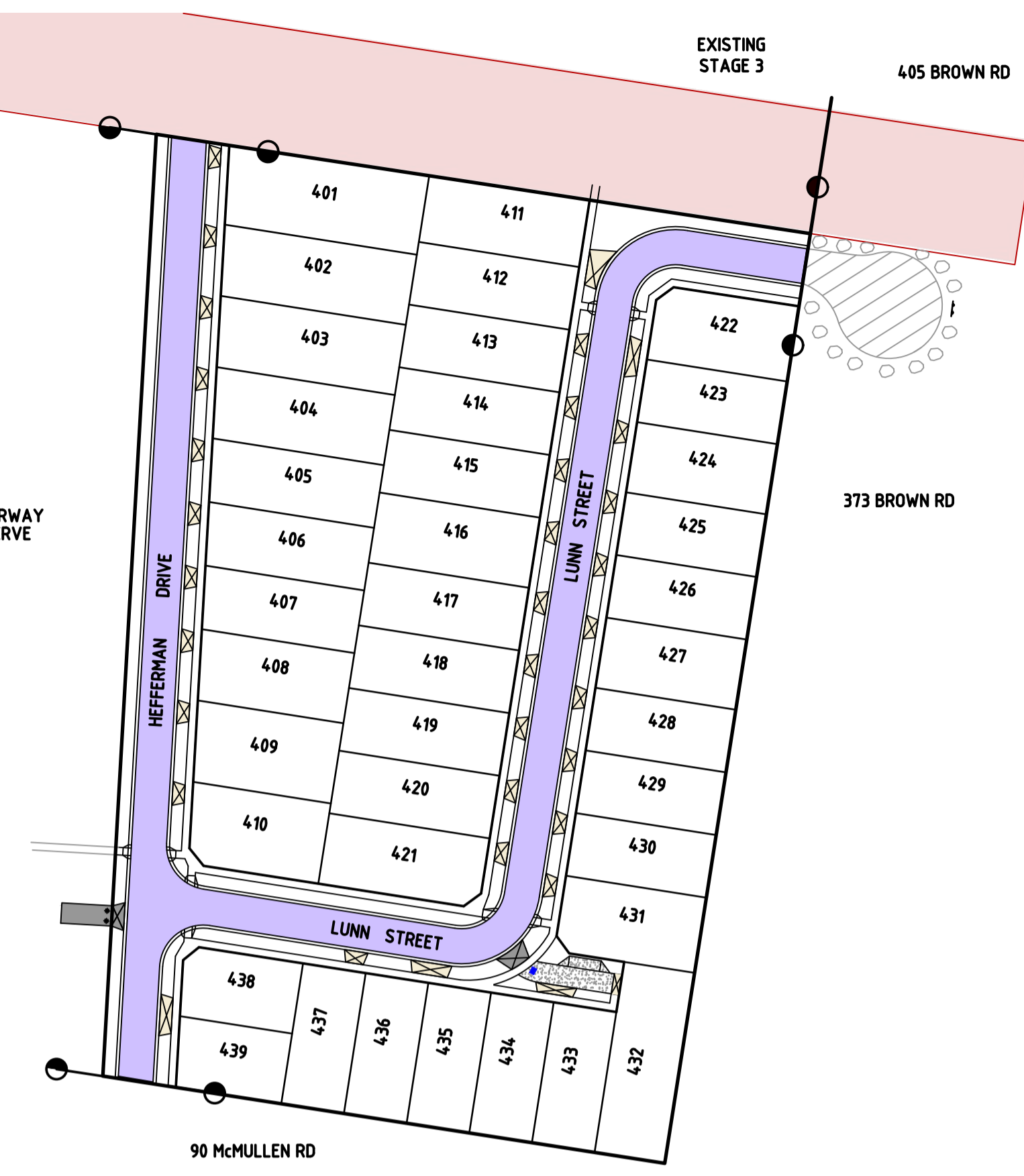
SM2



600 B2

STANDARD KERB PROFILES

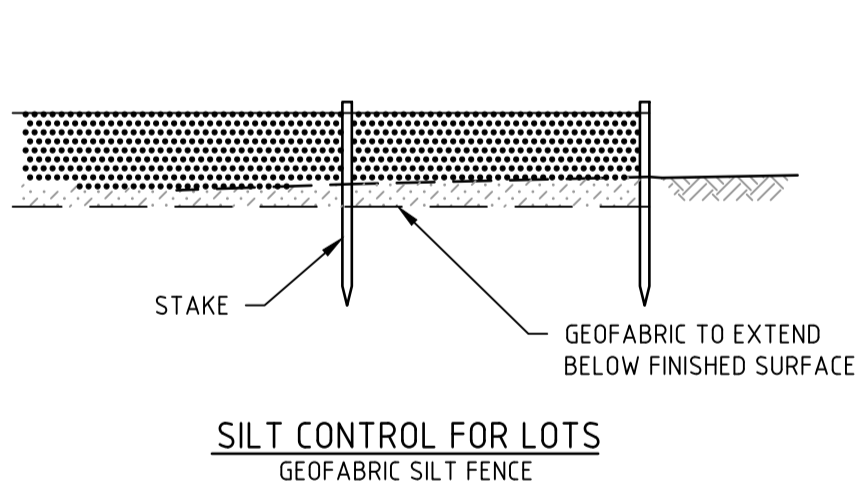
NOTE: ALL KERB & CHANNEL AS PER GAA STD DRAWING EDCM 301
NOT TO SCALE



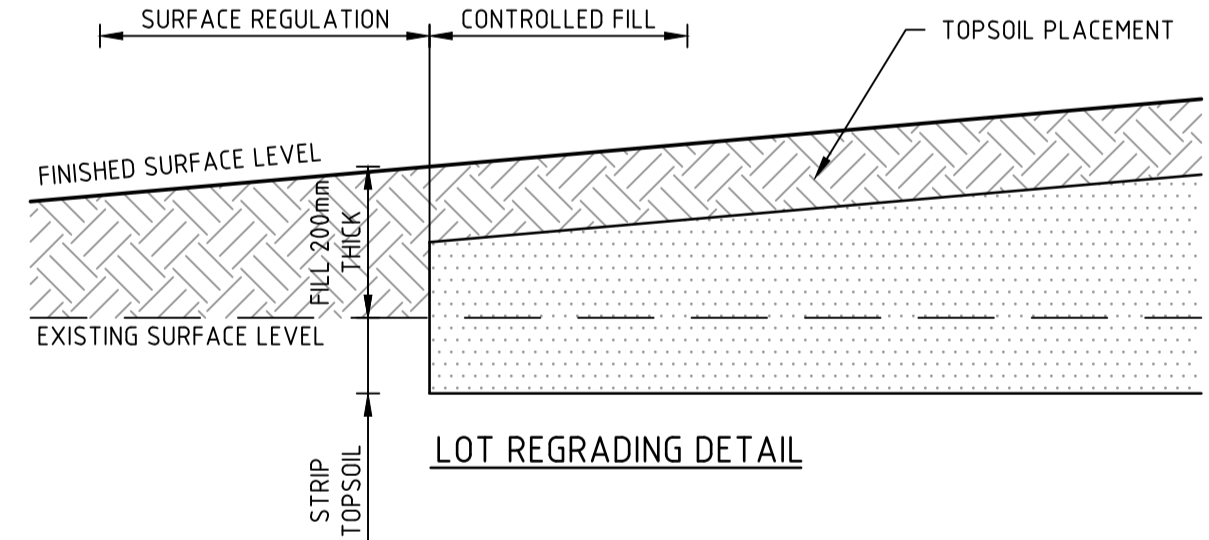
PAVEMENT PLAN

H 1:1000 SCALE @ A1

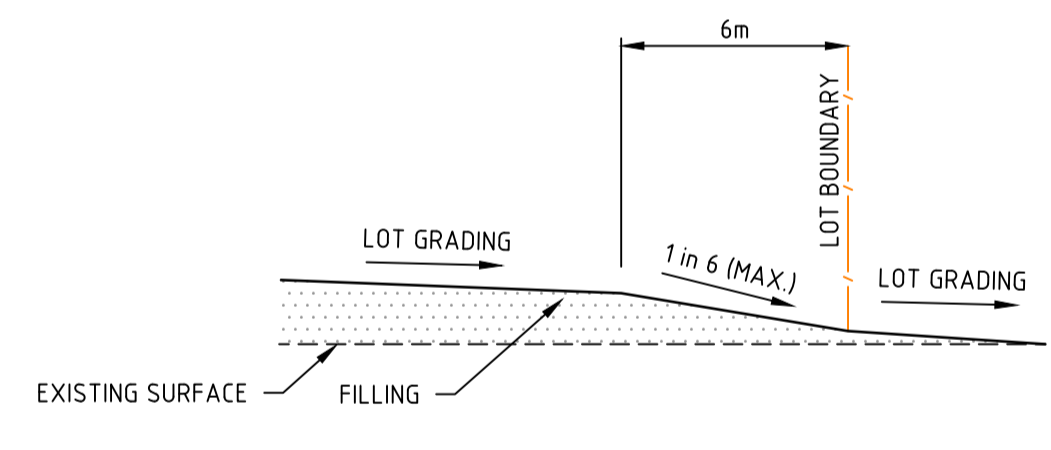
ACCESS PLACE LEVEL 1 (TYPE A)
CONCRETE LANEWAY (REFER CR701 FOR DETAILS)



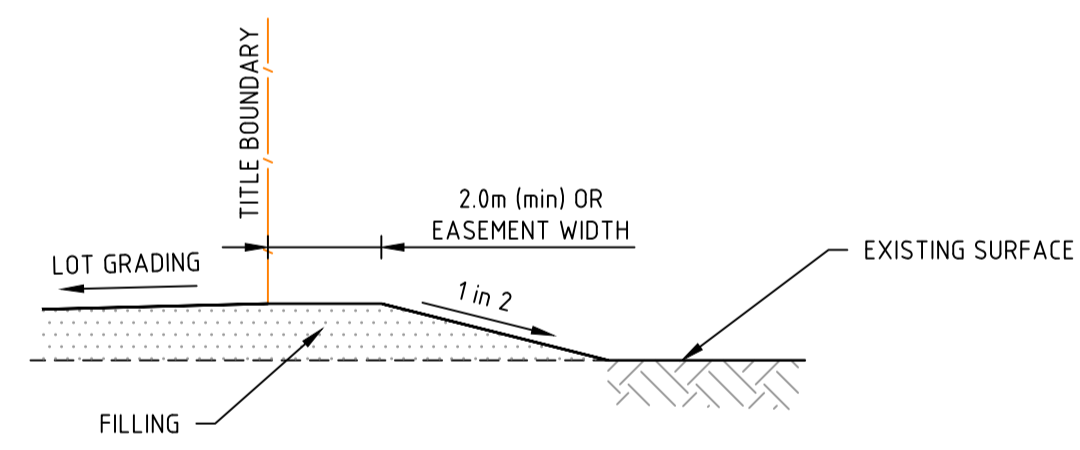
SILT CONTROL FOR LOTS
GEOFABRIC SILT FENCE



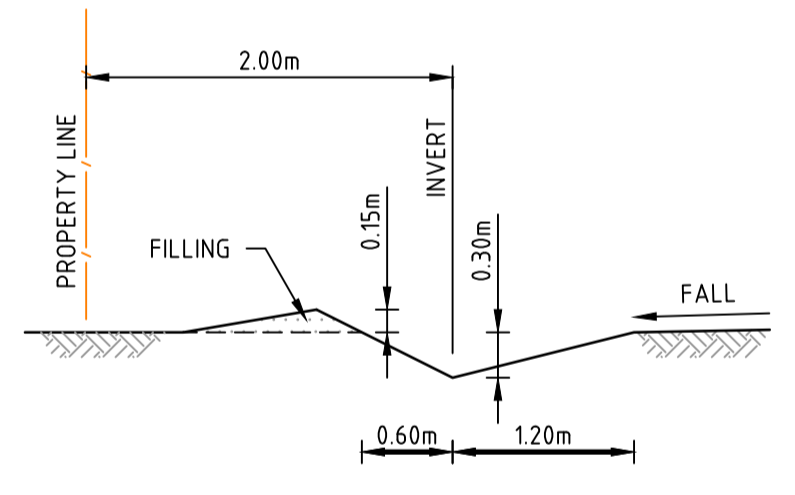
LOT REGRADING DETAIL



BATTER AT BACK OF LOTS TYPICAL DETAIL



LOT FILLING AT STAGE BOUNDARY

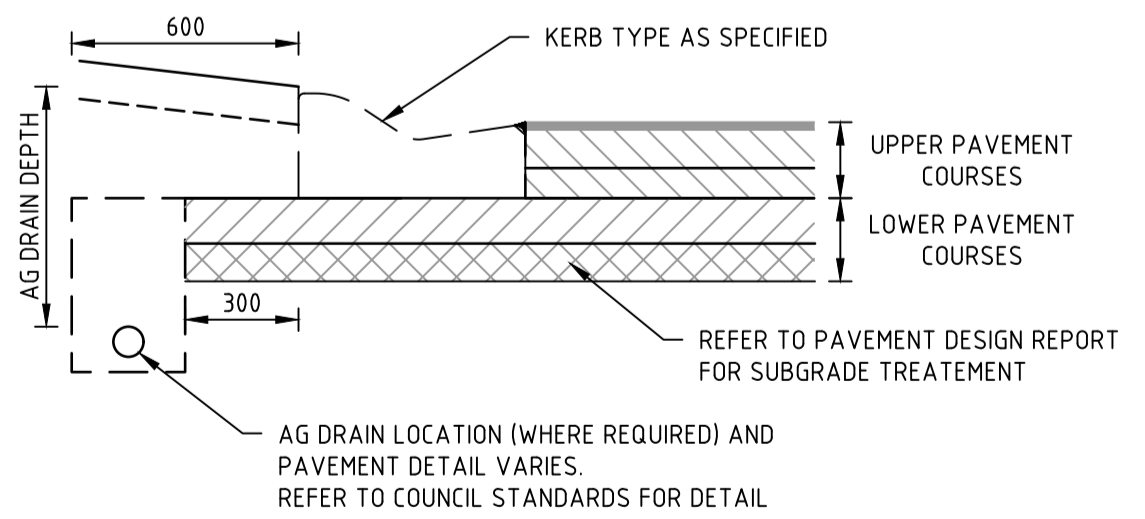


TYPICAL CATCH DRAIN SECTION

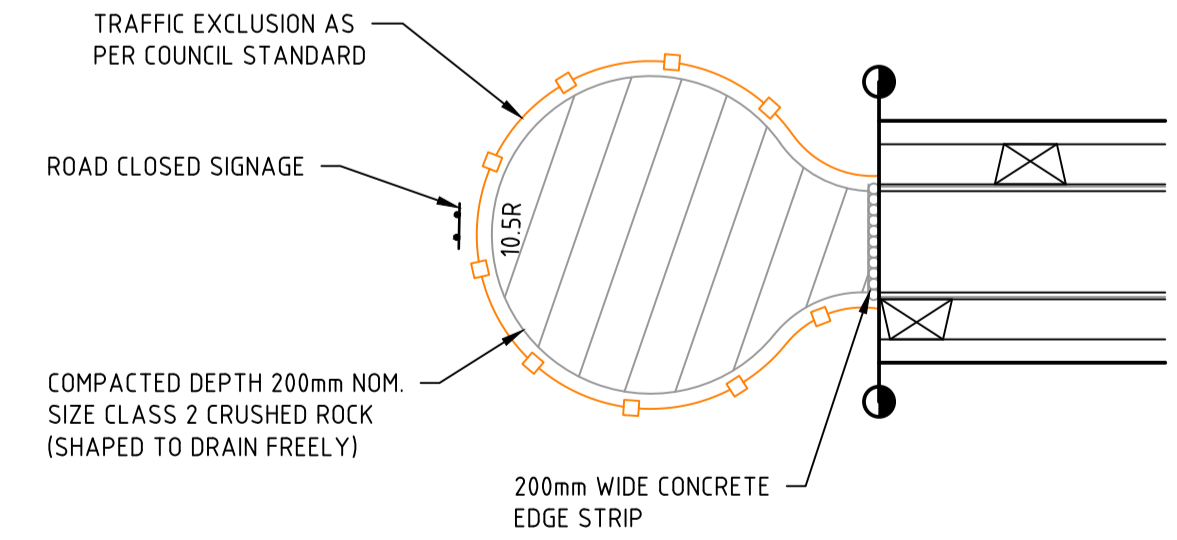
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PAVEMENT DETAILS

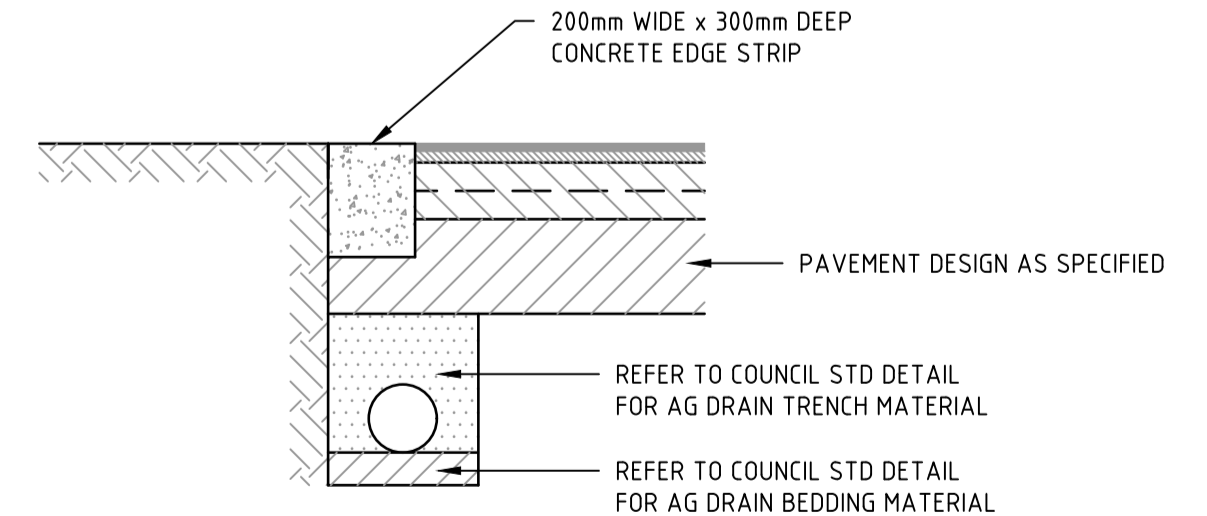
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TYPICAL SUBSURFACE DRAIN DETAIL FOR NON-EXPANSIVE SUBGRADE
REFER TO AUTHORITY REQUIREMENTS FOR SPECIFIC DETAILS



TEMPORARY TURNING AREA DETAIL



LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE DETAIL

file name: 308005CR700_A411 - Issue 4 - rev0.dwg - created: 22/02/2022 10:37 AM - sheet: 15 of 17 - sheets

Rev	Description	Approved	Date
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Scale: AS SHOWN

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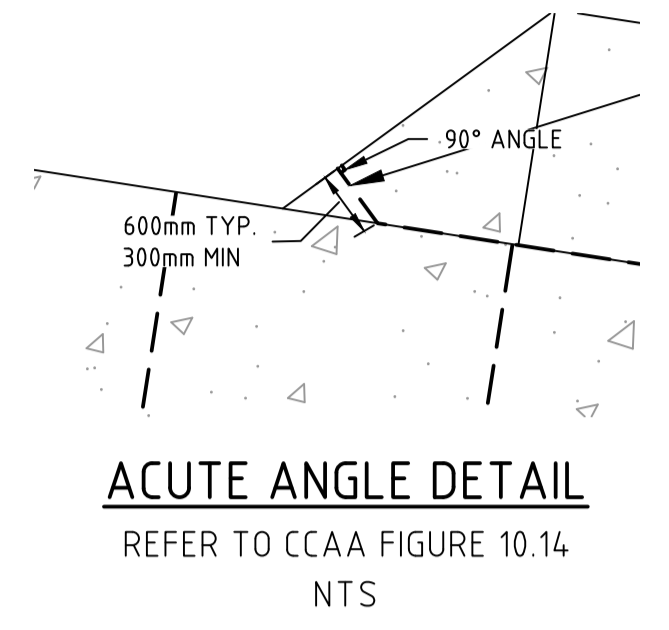
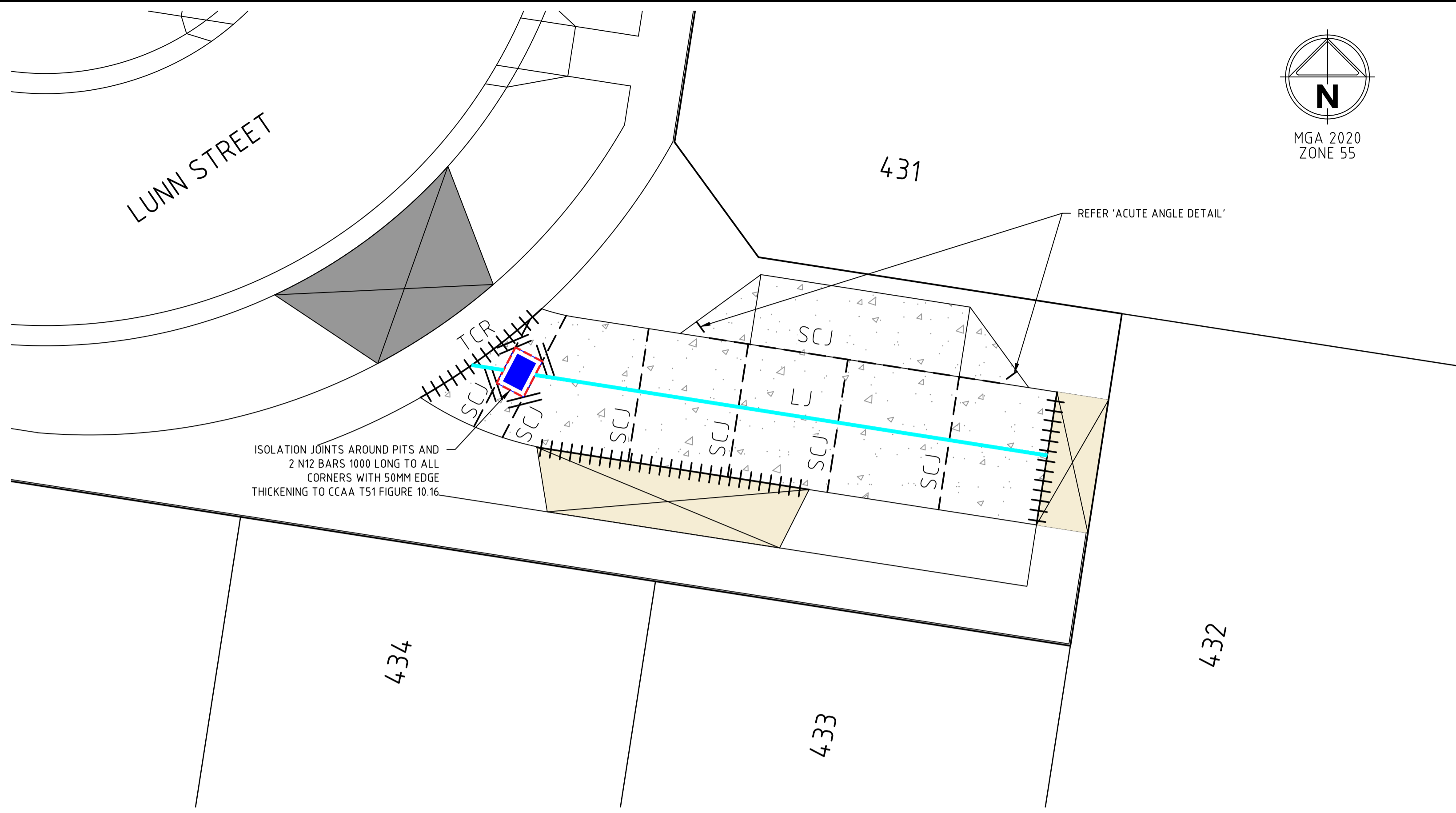
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Designed: J.SIM
Authorised: B.WAREHAM

Checked: -----
Date: 23-02-2022

**OFFICER FIELDS
STAGE 4
ROAD AND DRAINAGE
PAVEMENT AND TYPICAL DETAILS - SHEET 1**
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Drg No: 308005CR700 Rev: A



CONCRETE PAVEMENT BASE JOINTING PLAN - LUNN LANE

H 1:100 SCALE @ A1

DESIGN PAVEMENT PROFILE - ACCESS LANE

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		CONCRETE LANEWAY
CONCRETE PAVEMENT	SL92 MESH, LOAD SAFETY FACTOR 1.2, MINIMUM CHARACTERISTIC FLEXURAL STRENGTH OF 4.5MPa AT 28 DAYS	185
DEBONDING LAYER	SIZE 7mm BITUMINOUS PRIMER SEAL WITH A SEAL RESIDUAL BINDER RATE OF ≥ 1.0 L/m ²	NOMINAL
SUBBASE COURSE	VICROADS CTR, CLASS 3 SIZE 20MM CRUSHED ROCK OR CRUSHED CONCRETE WITH 5% CEMENT (MOIST CURED)	125
TOTAL PAVEMENT DEPTH		310

SUBGRADE IMPROVEMENT: 150MM CLASS 3 CRUSHED RECYCLED CONCRETE
TOTAL PAVEMENT THICKNESS OVER SUBGRADE PREPARATION CRB 5%

NOTES:
THE CONCRETE BASE THICKNESS IS A MINIMUM THICKNESS.
THE JOINT LAYOUT SHOULD BE DESIGNED TO BE COMPATIBLE WITH THE PAVEMENT GEOMETRY. THE LENGTH OF SLAB, THE TYPE OF JOINT USED, AND THE CONSTRUCTION METHOD AND PROGRAMMING TO BE EMPLOYED, THE REINFORCING MESH (SL 92) SHOULD BE CENTRALLY PLACED.
BASE PANELS SHOULD BE KEPT APPROXIMATELY SQUARE, NOT EXCEEDING A RATIO OF 1.25; BASE PANEL WIDTHS SHOULD NOT EXCEED 4.2 M.
CONTRACTION JOINTS SHOULD BE PROVIDED AT A SPACING NOT EXCEEDING 4.2 M.
FULL DEPTH SEALED EXPANSION JOINTS SHOULD BE PROVIDED ADJACENT TO FIXED OBJECTS;
28-DAY FLEXURAL STRENGTH OF 4.5 MPa IS REQUIRED FOR THE BASE CONCRETE;
AT CONSTRUCTION BREAKS, 1 M LONG TIE BARS SHOULD BE PROVIDED AT 300 MM CENTRES.

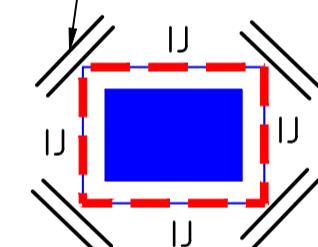
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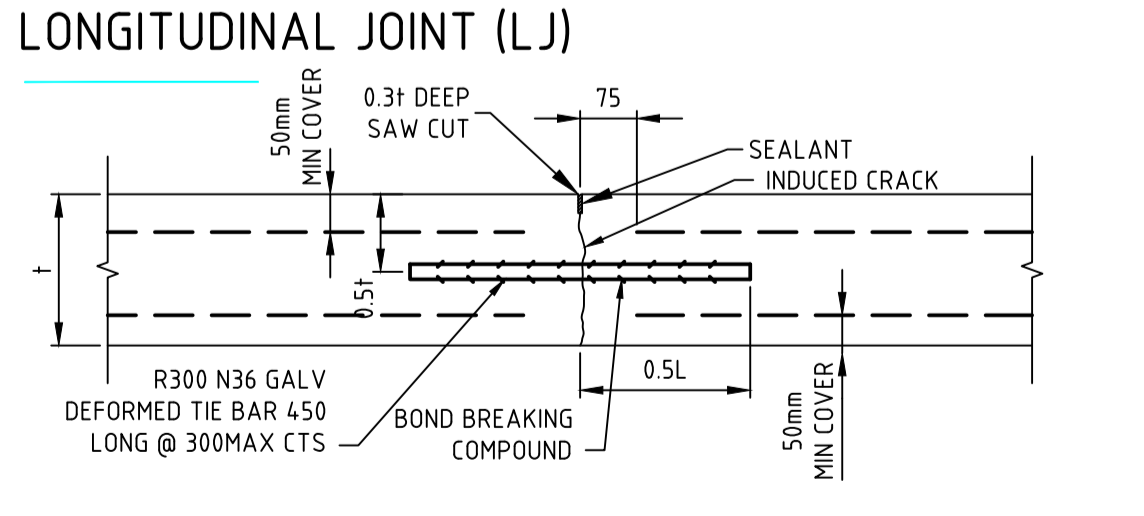
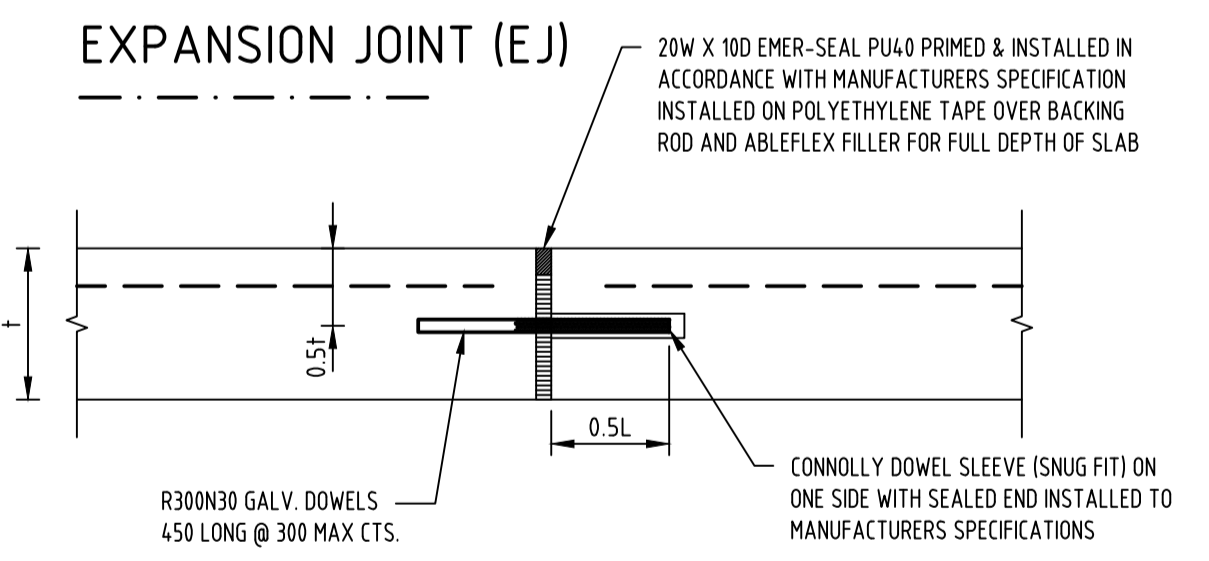
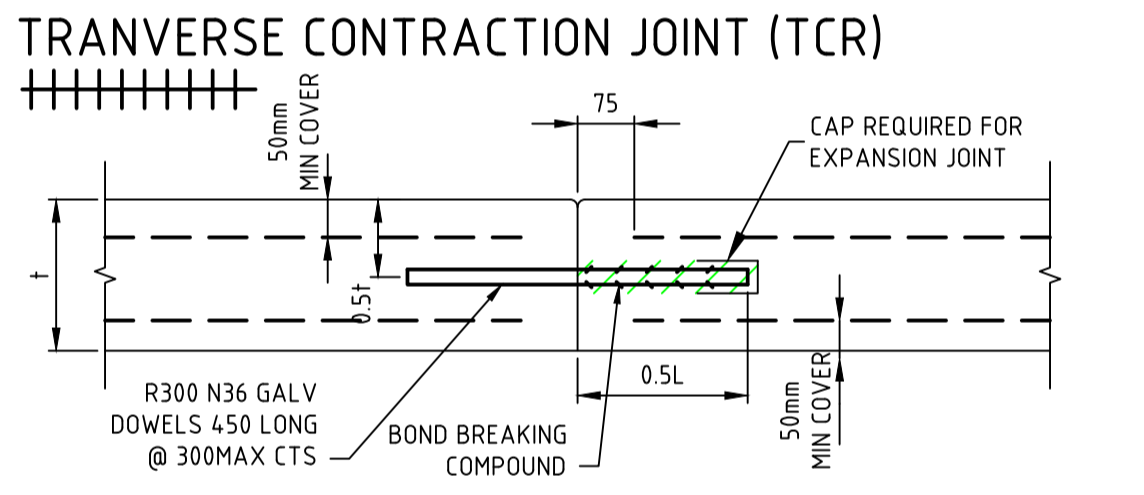
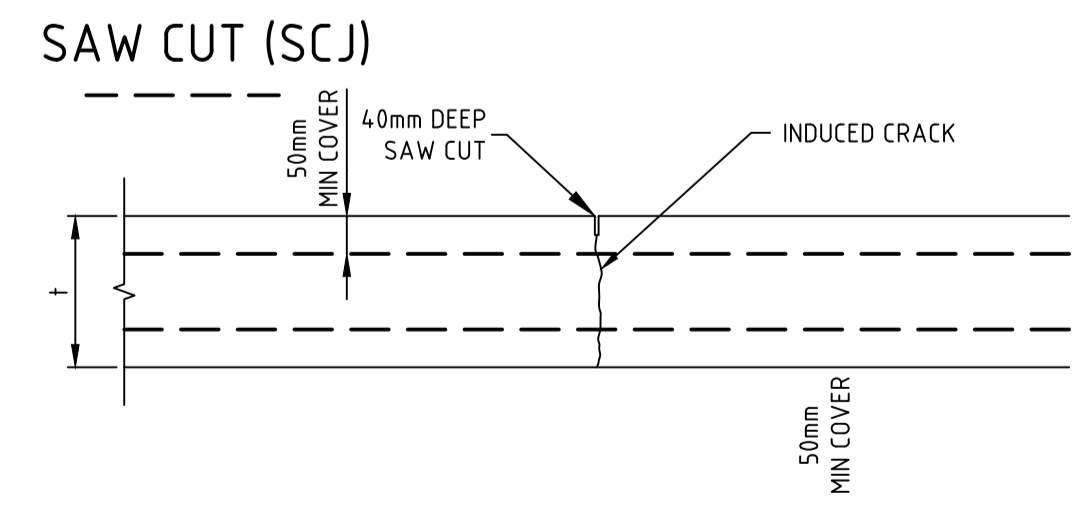
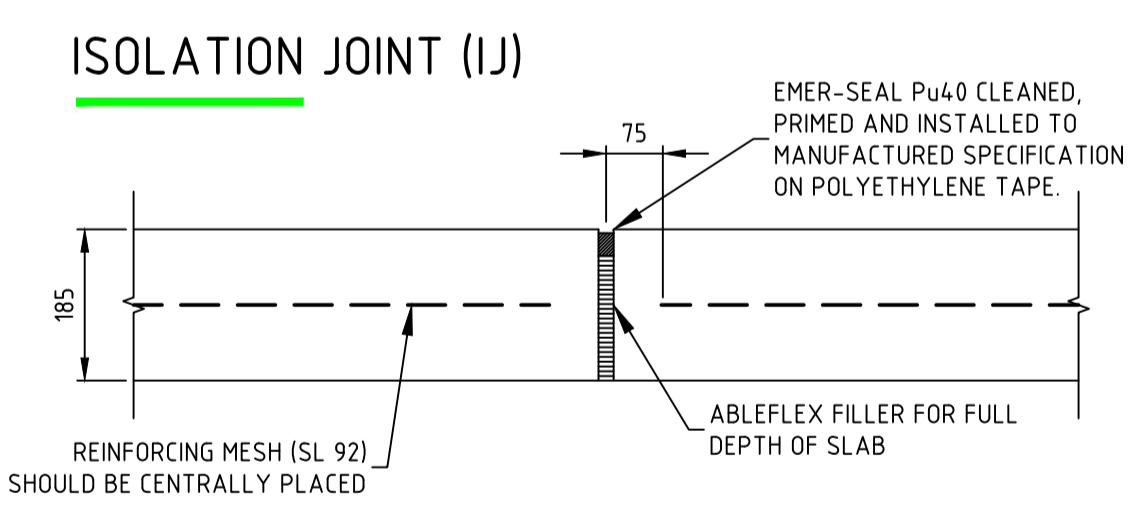
GENERAL NOTES:

- 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 WITH FLEXIBLE STRENGTH AS NOTED IN TABLE ABOVE.
- CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
- PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
- CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
- SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
- ALL DOWELS TO BE GRADE 250R STEEL BARS, 450mm LONG AND PLACED AT 300mm CENTRES. REFER CCAA - "CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS" FOR DOWEL DIAMETERS. DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED.
- ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.
- VARIATION TO JOINT LAYOUT BY CONTRACTOR WILL NOT BE ACCEPTED WITHOUT SPECIFIC WRITTEN APPROVAL OF SUPERINTENDENT & COUNCIL.

PROVIDE 2 NO. 1000mm LONG N12 BARS TO EACH CORNER 100mm FROM EDGE OF PIT 100mm APART.



CONCRETE PAVEMENT PIT INTERFACE DETAIL



Rev	Description	By	Date
A	PRELIMINARY ISSUE	BW	23/02/22
	Amendments	Approved	Date

Scale: AS SHOWN

ISO 9001
ISO 45001
ISO 14001
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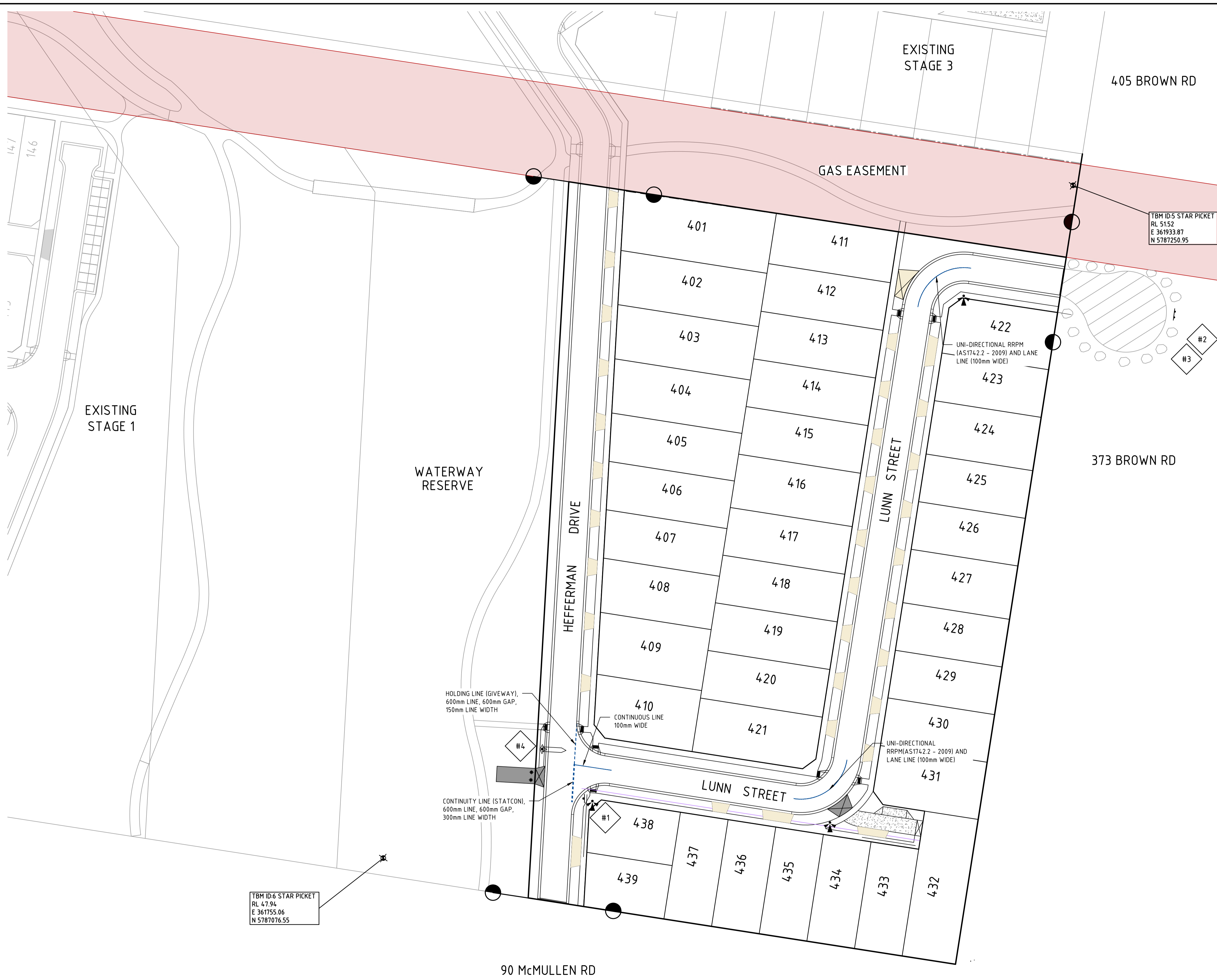
Designed: J.SIM
Authorised: B.WAREHAM

Checked: -----
Date: 23-02-2022

OFFICER FIELDS STAGE 4 ROAD AND DRAINAGE PAVEMENT AND TYPICAL DETAILS - SHEET 2
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Drg No: 308005CR701 Rev: A

file name: 308005CR701.dwg, layout name: CDD01, plotted by: Justin, C:\Users\jst\OneDrive\Documents\308005\308005.dwg, plot date: 23/02/2022 10:37 AM, Sheet: 16 of 17 Sheets



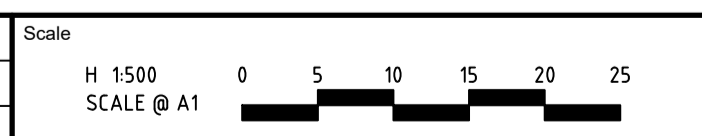
LEGEND

- #1 R1-2A
- #2 G9-20
- #3 D4-5
- #4 STREET NAME PLATES TO BE IN ACCORDANCE WITH CARDINIA STANDARD DRAWING CSC-500, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE
- TACTILE GROUND SURFACE INDICATORS (TGSI's)

- STREET SIGNS ARE TO BE MOUNTED ON SEPARATE POLES, WITH A COUNCIL APPROVED BRACKET.
- TGSI's MUST BE PROVIDED IN ACCORDANCE WITH THE AUSTRALIAN STANDARD 1428.4.1
- SIGNS MUST BE A MINIMUM 1m CLEAR FROM DRIVEWAYS.

file name: 308005CR800_4.dwg, layout name: CR800, plotted by: Jacinta Sim, file location: G:\308005\308005.dwg, LCA: Plot date: 23/02/2022 10:37 AM, Sheet: 17 of 17, Sheets

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Designed
J.SIM

Checked

Authorised
B.WAREHAM

Date
23-02-2022

**OFFICER FIELDS
STAGE 4
ROAD AND DRAINAGE
SIGNAGE AND LINEMARKING**
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Drg No **308005CR800** Rev **A**