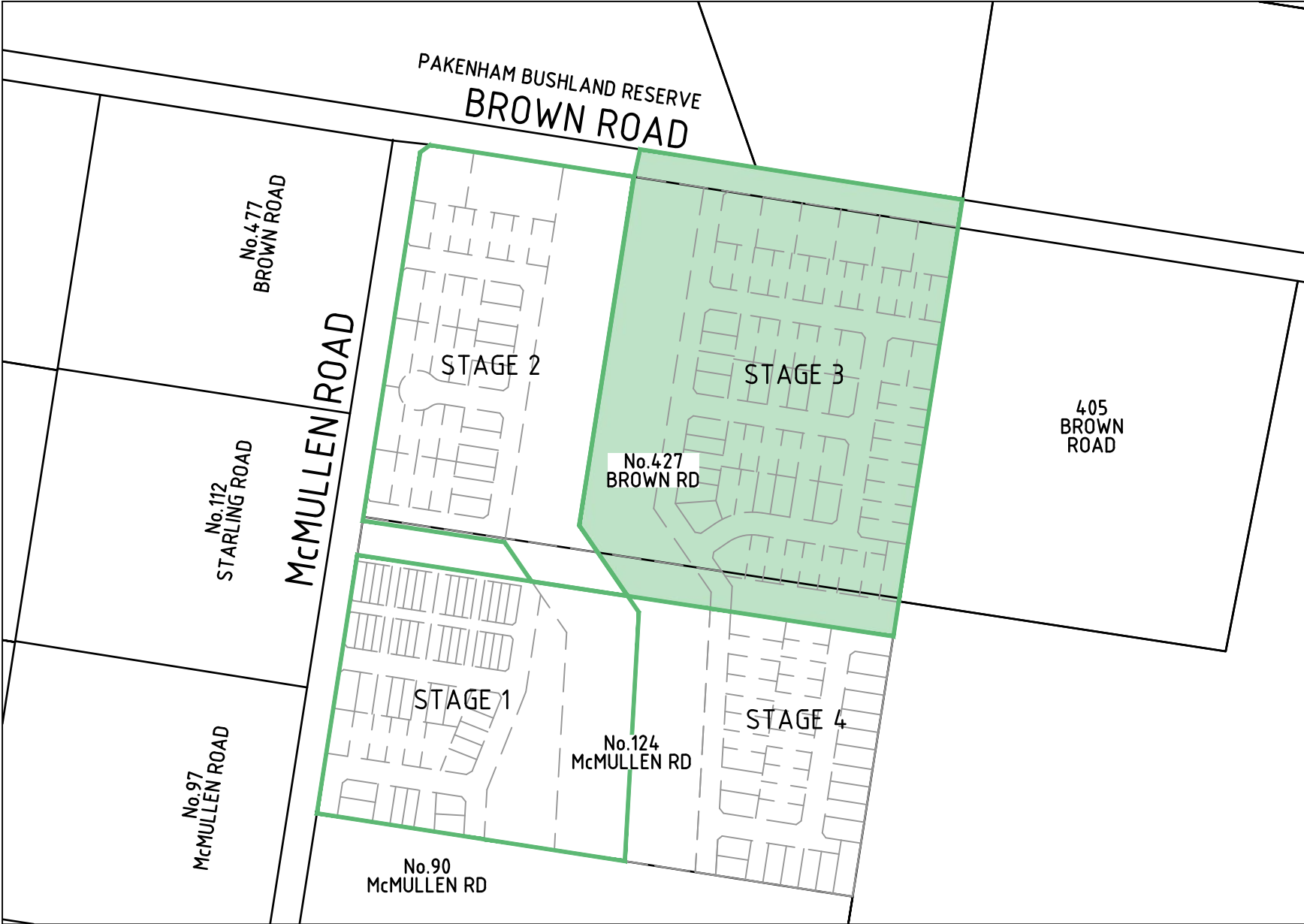


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DRAWING SCHEDULE

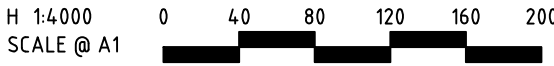
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CR100	GENERAL NOTES - SHEET 1	1	0
CR200	ROAD LAYOUT PLANS - EXISTING CONDITIONS PLAN	2	0
CR201	ROAD LAYOUT PLANS - ROAD AND DRAINAGE	3	0
CR202	ROAD LAYOUT PLANS - SERVICES	4	0
CR300	ROAD LONG SECTIONS - SHEET 1	5	0
CR301	ROAD LONG SECTIONS - SHEET 2	6	0
CR302	ROAD LONG SECTIONS - SHEET 3	7	0
CR303	ROAD LONG SECTIONS - SHEET 4	8	0
CR304	ROAD LONG SECTIONS - SHEET 5	9	0
CR400	ROAD CROSS SECTIONS - SHEET 1	10	0
CR401	ROAD CROSS SECTIONS - SHEET 2	11	0
CR402	ROAD CROSS SECTIONS - SHEET 3	12	0
CR403	ROAD CROSS SECTIONS - SHEET 4	13	0
CR404	ROAD CROSS SECTIONS - SHEET 5	14	0
CR405	ROAD CROSS SECTIONS - SHEET 6	15	0
CR406	ROAD CROSS SECTIONS - SHEET 7	16	0
CR407	ROAD CROSS SECTIONS - SHEET 8	17	0
CR408	ROAD CROSS SECTIONS - SHEET 9	18	0
CR409	ROAD CROSS SECTIONS - SHEET 10	19	0
CR500	INTERSECTION DETAILS - SHEET 1	20	0
CR501	INTERSECTION DETAILS - SHEET 2	21	0
CR502	INTERSECTION DETAILS - SHEET 3	22	0
CR503	INTERSECTION DETAILS - SHEET 4	23	0
CR504	INTERSECTION DETAILS - SHEET 5	24	0
CR505	INTERSECTION DETAILS - SHEET 6	25	0
CR600	DRAINAGE LONG SECTIONS - SHEET 1	26	0
CR601	DRAINAGE LONG SECTIONS - SHEET 2	27	0
CR602	DRAINAGE LONG SECTIONS - SHEET 3	28	0
CR603	DRAINAGE LONG SECTIONS - SHEET 4	29	0
CR604	DRAINAGE LONG SECTIONS - SHEET 5	30	0
CR700	PAVEMENT AND TYPICAL DETAILS - SHEET 1	31	0
CR701	PAVEMENT AND TYPICAL DETAILS - SHEET 2	32	0
CR800	SIGNAGE AND LINEMARKING - SHEET 1	33	0
CR900	MISCELLANEOUS - SHEET 1	34	0
CR901	MISCELLANEOUS - SHEET 2	35	0

OFFICER FIELDS
STAGE 3
YOURLAND PTY LTD



APPROVED FOR CONSTRUCTION
CARDINIA SHIRE COUNCIL
Ref No.: S21-005 , T190390
Sheet: 1 of 35
Approved by: Nisanka Mahamithawa
CARDINIA SHIRE COUNCIL
Date: Tuesday, 28 June 2022

LOCALITY PLAN



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 AS4000-1992 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, TROUGHS, 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 STOCKPIILING 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, 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 COUNCILS 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.

- 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.

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
BROWN ROAD	S	4.10 (EX.)	S	3.40 (EX.)	S	2.80 (EX.)	S	4.95/5.65	S	0.90 / 1.60x	S	5.40/6.00
	S	VAR (EX., ABANDONED)					S	VAR. (EX.)	N	2.35 (EX.0/H)		
	N	5.00 (EX. 600Ø)					N	VAR. (EX.)	N	-11.00 (EX TRANSM)		
HEFFERMAN DRIVE	E	2.75	E	2.25	E	1.80	W	0.50	W	1.50x	W	1.10
CUMMINS STREET	N&E	2.75	N&E	2.25	N&E	1.80	S&W	1.85	S&W	1.50x	S&W	2.65
JOWETT RISE	N	2.75	N	2.25	N	1.80	S	1.85	S	1.50x	S	2.65
TULLOCH STREET	N	2.75	N	2.25	N	1.80	S	1.85	S	1.50x	S	2.65

- TELSTRA 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

LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT		
WATER RECYCLED		
UNDERGROUND ELECTRICITY		
OVERHEAD ELECTRICITY & POLE		
TELECOMMUNICATIONS & SERVICE PIT		
OPTIC FIBRE		
OVERHEAD TELECOMMUNICATIONS		
GAS MAIN		
SEWER & MAINTENANCE STRUCTURE		
COUNCIL STORMWATER DRAIN AND PIT		
STORM WATER DRAINAGE PROPERTY INLETS		
COUNCIL STORM WATER PITS		
HOUSE DRAIN		
AG DRAIN AND FLUSHER		
MWC STORM WATER DRAIN & PIT		
MWC STORM WATER PITS		
STORM WATER DRAINAGE PIT NUMBER		
GAS & WATER CONDUITS		
ABANDONED SERVICE		
CONCRETE VEHICLE CROSSING		
SURFACE CONTOUR MINOR		
SURFACE CONTOUR MAJOR		
SURFACE LEVEL		
BATTER LEVEL (TOP / TOE)		
RETAINING WALL LEVEL (TOP/BOTTOM)		
EARTHWORKS GRADE		
SIGN AND POST		
LIGHT & POLE (BY OTHERS)		
STREET SIGN		
PERMANENT SURVEY MARK		
TEMPORARY BENCH MARK		
BOLLARD		
ROAD CHAINAGES		
LOT CHAINAGES		
SETOUT POINT		
LIMIT OF WORKS		
BATTER		
EXCAVATION GREATER THAN 0.20m		
FILLING GREATER THAN 0.20m		
ROCK BEACHING		
SLEEPER RETAINING WALL (TYPE A)		
ROCK RETAINING WALL (TYPE B)		
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		

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.



Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	B.W	04/05/22
E	UPDATES AS PER COUNCIL COMMENTS	B.W	28/04/22
D	UPDATES AS PER COUNCIL COMMENTS	B.W.	22/04/22
C	UPDATES AS PER COUNCIL COMMENTS	B.W.	22/03/22
B	ISSUED TO COUNCIL	B.W.	01/12/21
A	PRELIMINARY ISSUE	B.W.	19/11/21

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Designed
A.CHARALAMBOUS
Checked
B.WAREHAM
Date
19/11/2021

**OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
GENERAL NOTES - SHEET 1**
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Drg No 308003CR100 Rev 0



PAKENHAM
BUSHLAND
RESERVE

4
OFFICER
ROAD

MELBOURNE WATER SUPPLY
MAIN PRESENT NEAR WORKS.
CONTACT MELB. WATER ON
131722 TO OBTAIN WORK
PERMIT 14 DAYS PRIOR TO
COMMENCEMENT OF ANY WORK

!!! 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
APA INFRASTRUCTURE PROTECTION OFFICER. APA MAY BE
REQUIRED TO BE IN ATTENDANCE WHILST WORKS COMPLETED
IN VICINITY OF APA INFRASTRUCTURE. APA OFFICERS CAN BE
CONTACTED ON 1800 103 452 or APAProtection@apa.com.au

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.

414
BROWN ROAD

APPROVED FOR CONSTRUCTION
CARDINIA SHIRE COUNCIL
Ref No.: S21-005 , T190390
Sheet: 2 of 35
Approved by: Nisanka Mahamithawa
CARDINIA SHIRE COUNCIL
Date: Tuesday, 28 June 2022

RESERVE

EXISTING CREEK TO BE
WIDENED TO NEW
MELBOURNE WATER
WATERWAY BY WATER
TEAM.

EXISTING FENCES
TO BE REMOVED

STAR PICKET
E 361832.55
N 5787400.50
RL 51.81

ALL BUILDINGS AND
OUTBUILDINGS TO BE
DEMOLISHED

EXISTING DWELLING, SHED AND
ANY ASSOCIATED RETAINING
WALLS TO BE REMOVED

EXISTING SHEDS
TO BE REMOVED

DEAD TREES TO
BE REMOVED

STRIP AND DISPOSE
OF DRIVEWAY

ABANDONED DN150
WATER MAIN

BROWN ROAD

405 BROWN ROAD
(FUTURE ORCHARD ESTATE)

RESERVE

EXISTING DAM IN
STAGE 4

RAINWATER TANKS

WATER TANKS

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file location: G:\301308003\308003CR200-405\ALAP\ALAP.dwg plot date: 04/05/2022 3:45 PM Sheet: 2 of 35 Sheets

Rev	Amendments	Approved	Date
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C	UPDATES AS PER COUNCIL COMMENTS	B.W.	22/03/22
B	ISSUED TO COUNCIL	B.W.	01/12/21
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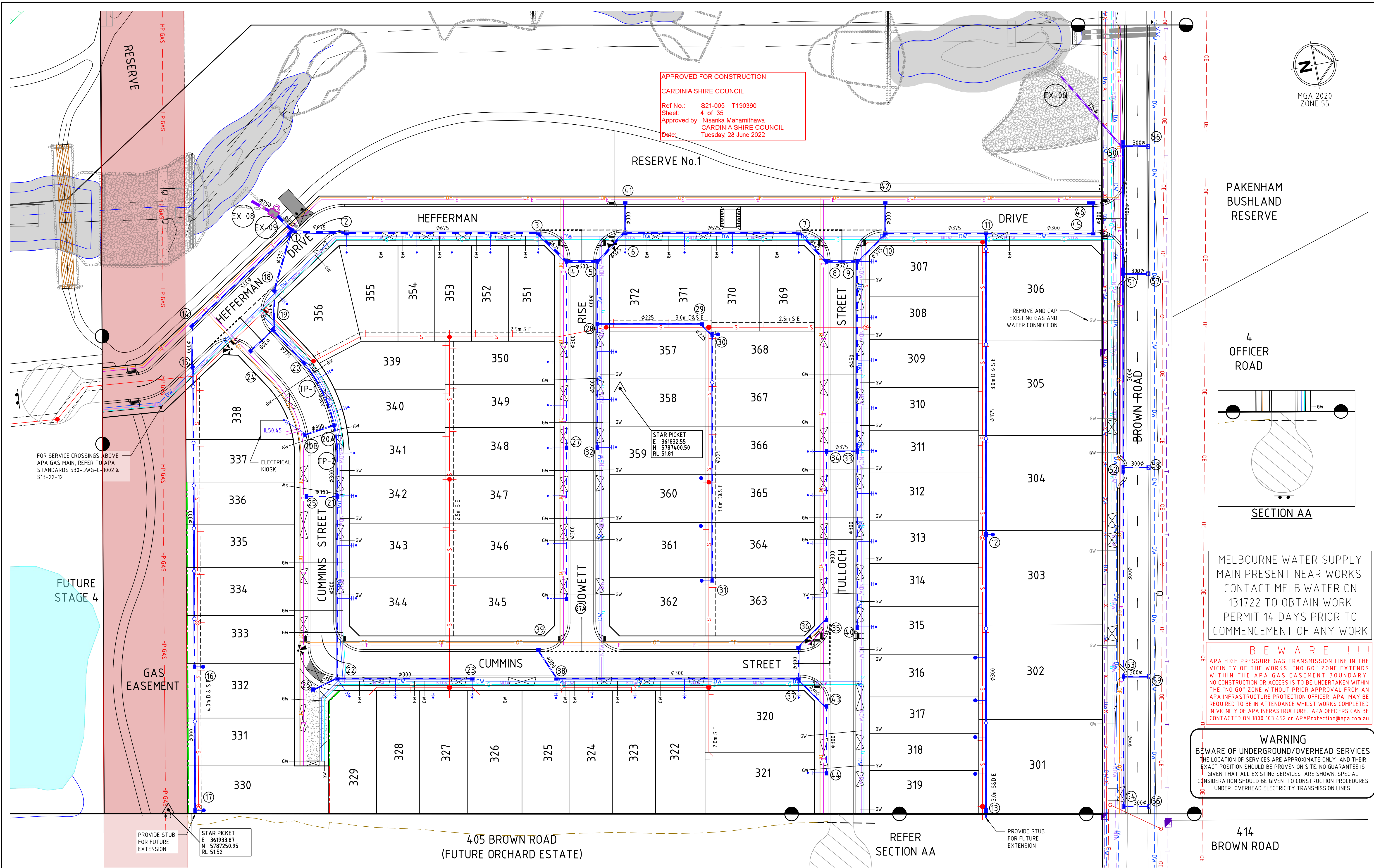
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Date
19/11/2021

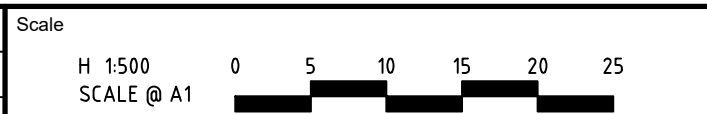
**OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
ROAD LAYOUT PLANS - EXISTING CONDITIONS PLAN**
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Drg No 308003CR200 Rev 0

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E	UPDATES AS PER COUNCIL COMMENTS	B.W	28/04/22
D	UPDATES AS PER COUNCIL COMMENTS	B.W	22/04/22
C	UPDATES AS PER COUNCIL COMMENTS	B.W	22/03/22
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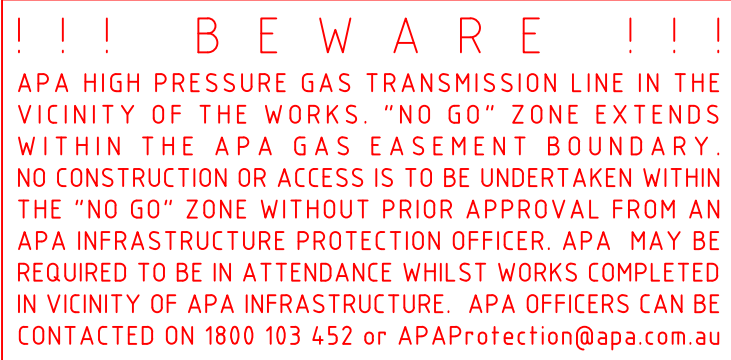
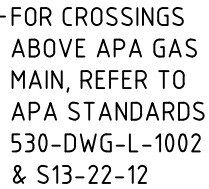
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Checked:
Authorised: B.WAREHAM
Date: 19/11/2021

**OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
ROAD LAYOUT PLANS - SERVICES**
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD
PRELIMINARY Drg No: 308003CR202 Rev: 0



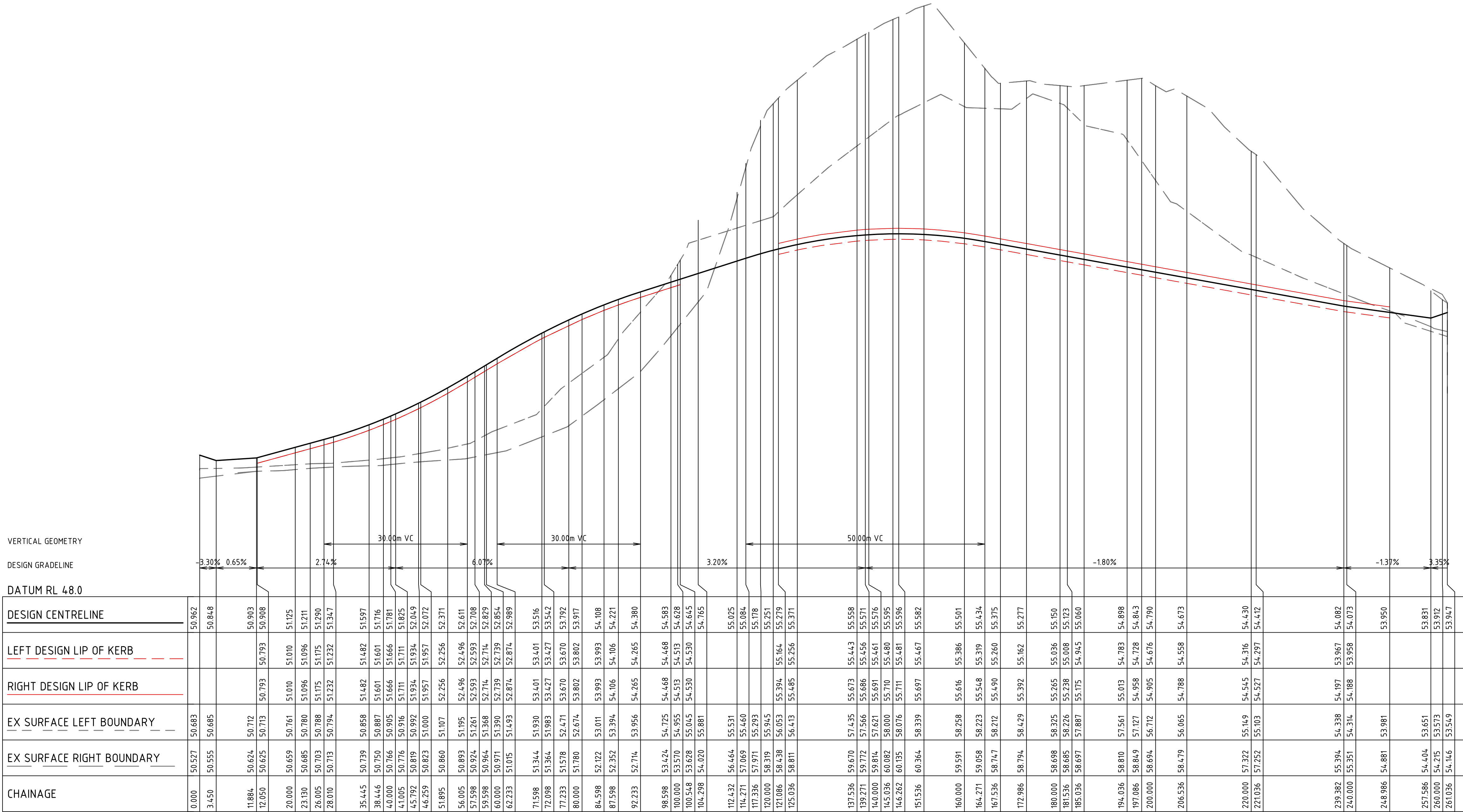
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STAGE 3
ROAD AND DRAINAGE
ROAD LONG SECTIONS - SHEET 1
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Drg No Rev
308003CR300 **0**



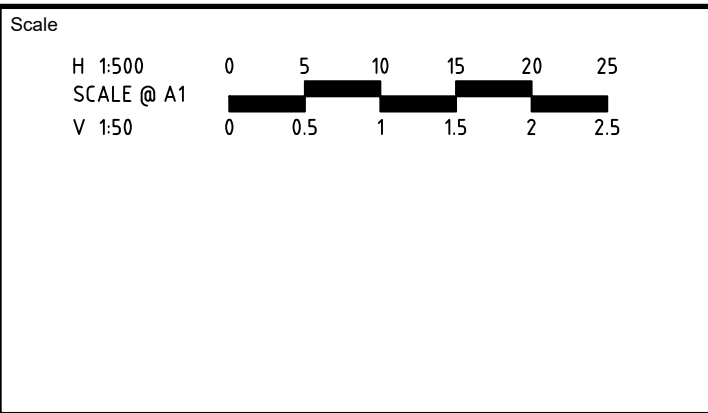
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CARDINIA SHIRE COUNCIL
Ref No.: S21-005 , T190390
Sheet: 7 of 35
Approved by: Nisanka Mahamithawa
CARDINIA SHIRE COUNCIL
Date: Tuesday, 28 June 2022



CUMMINS STREET

0	ISSUED FOR CONSTRUCTION	B.W	04/05/22	
B	ISSUED TO COUNCIL	B.W.	01/12/21	
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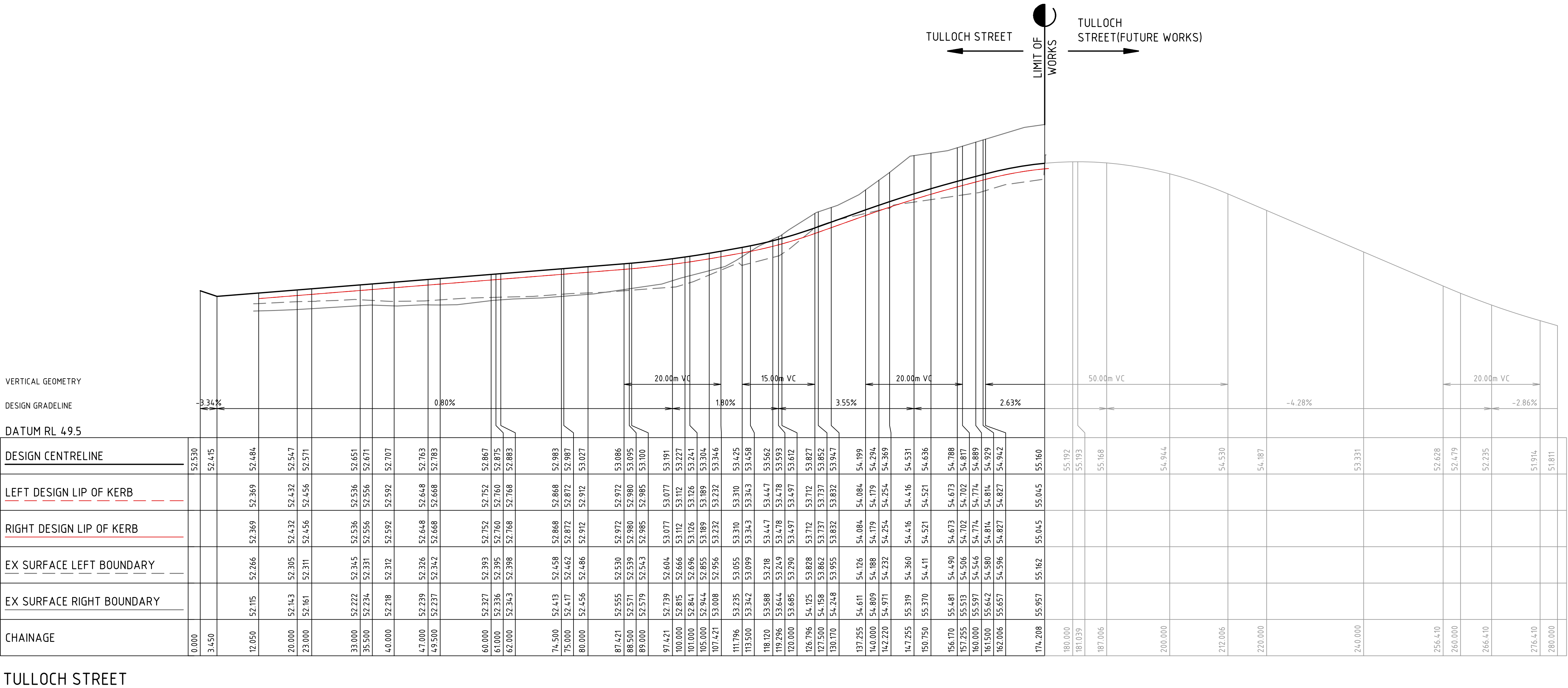
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OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
ROAD LONG SECTIONS - SHEET 3
CARDINIA SHIRE COUNCIL
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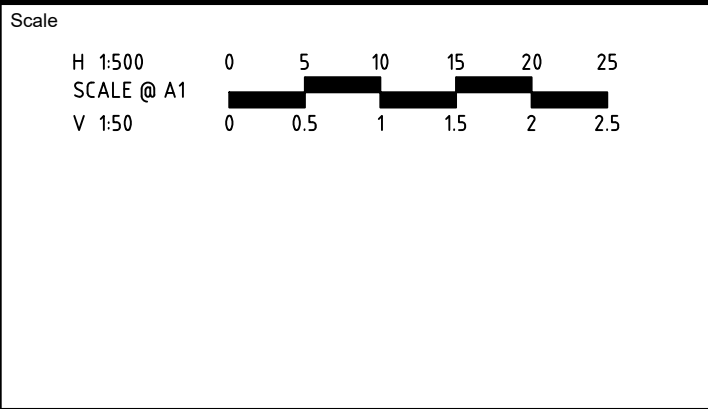
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B	ISSUED TO COUNCIL	B.W.	01/12/21
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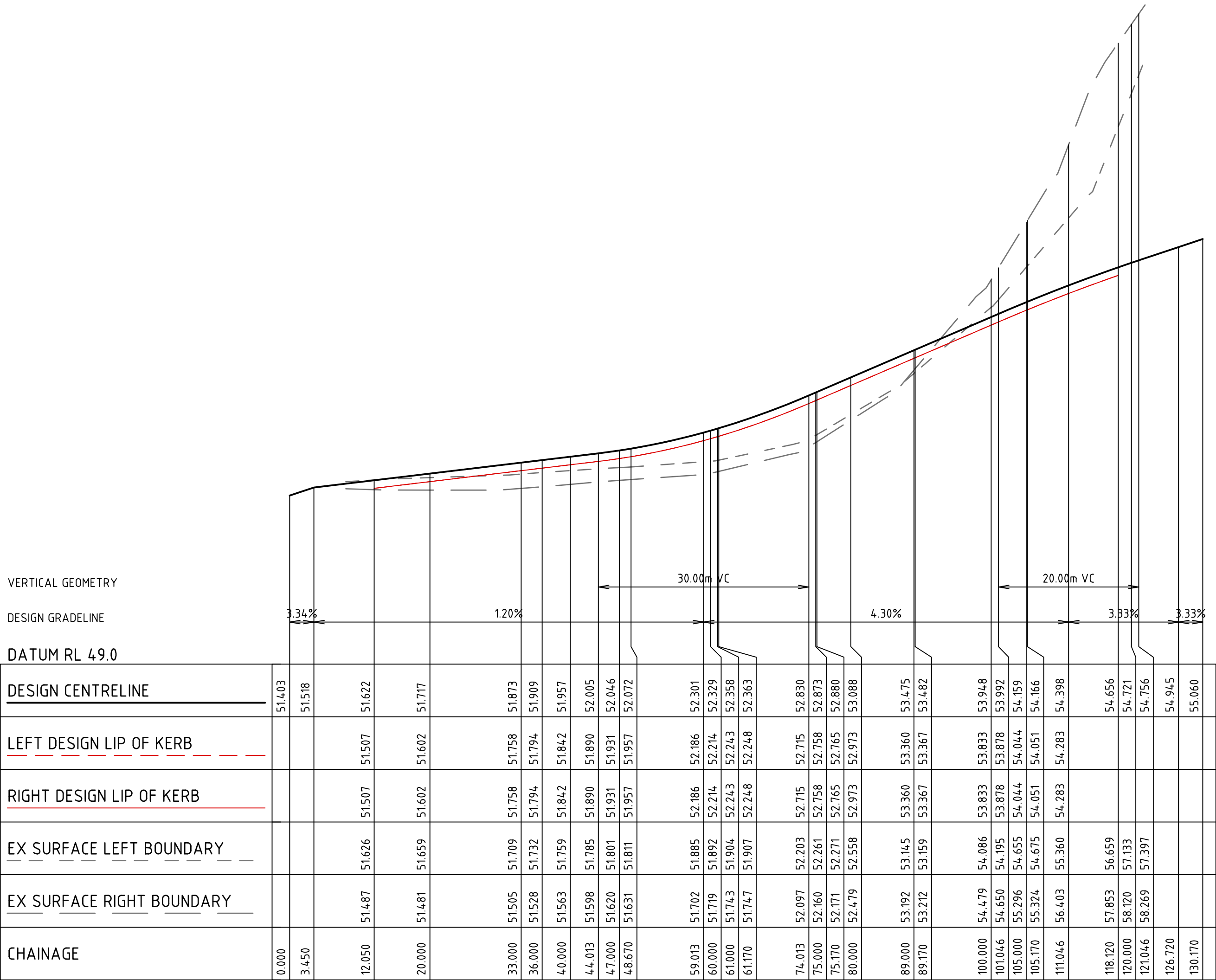
Designed A.CHARALAMBOUS	Checked
Authorised B.WAREHAM	Date 19/11/2021

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

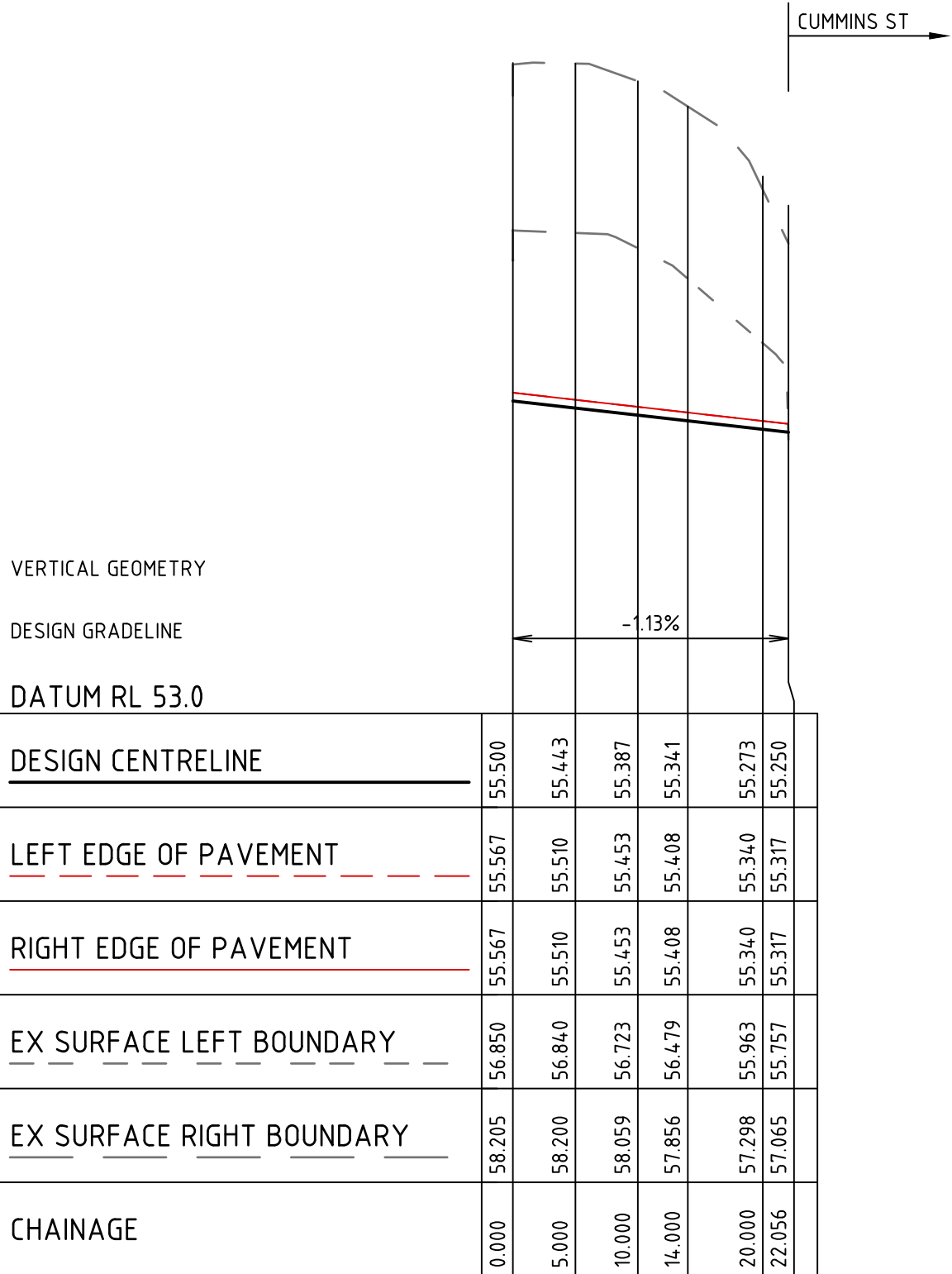
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CARDINIA SHIRE COUNCIL
Ref No.: S21-005 , T190390
Sheet: 9 of 35
Approved by: Nisanka Mahamithawa
CARDINIA SHIRE COUNCIL
Date: Tuesday, 28 June 2022

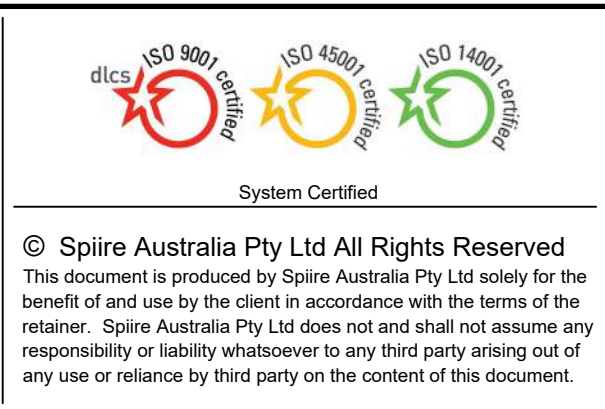
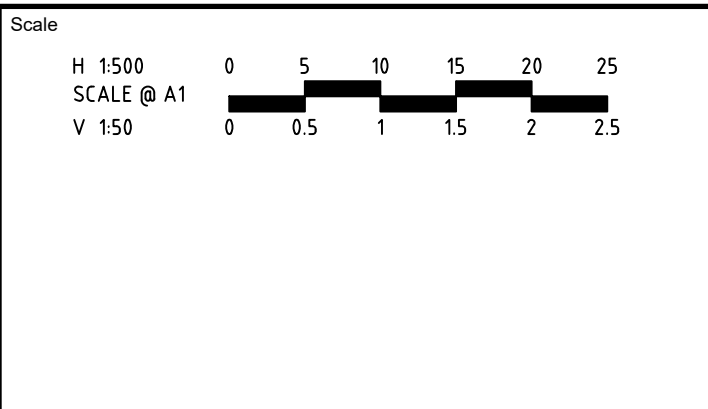


JOWETT RISE



CUMMINS ST - EXTENDED DRIVEWAY

0	ISSUED FOR CONSTRUCTION	B.W	04/05/22
C	UPDATES AS PER COUNCIL COMMENTS	B.W	28/04/22
B	ISSUED TO COUNCIL	B.W.	01/12/21
A	PRELIMINARY ISSUE	B.W.	19/11/21
Rev	Amendments	Approved	Date



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YourLand Developments

Designed
A.CHARALAMBOUS

Checked

Authorised
B.WAREHAM

Date
19/11/2021

OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
ROAD LONG SECTIONS - SHEET 5
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

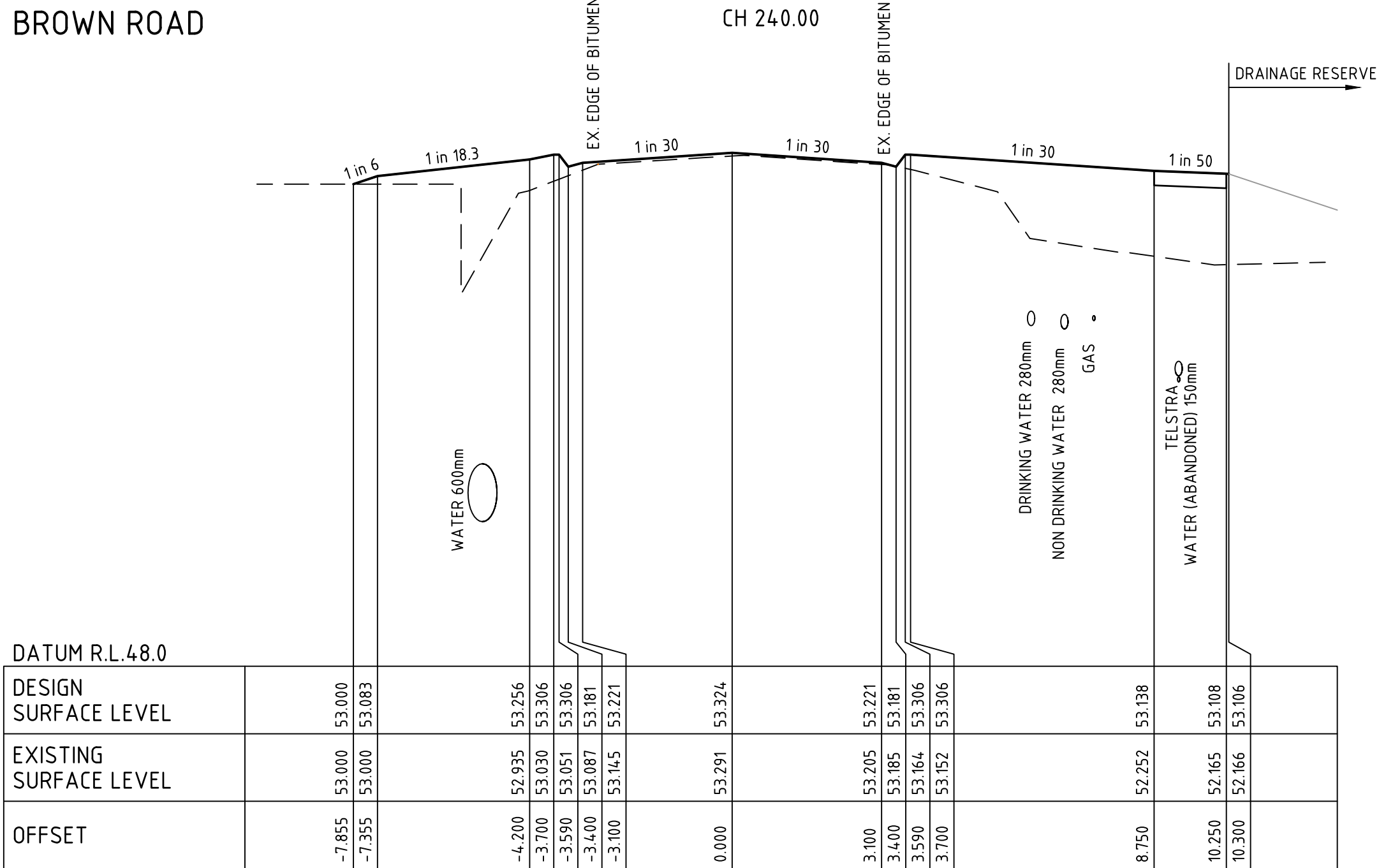
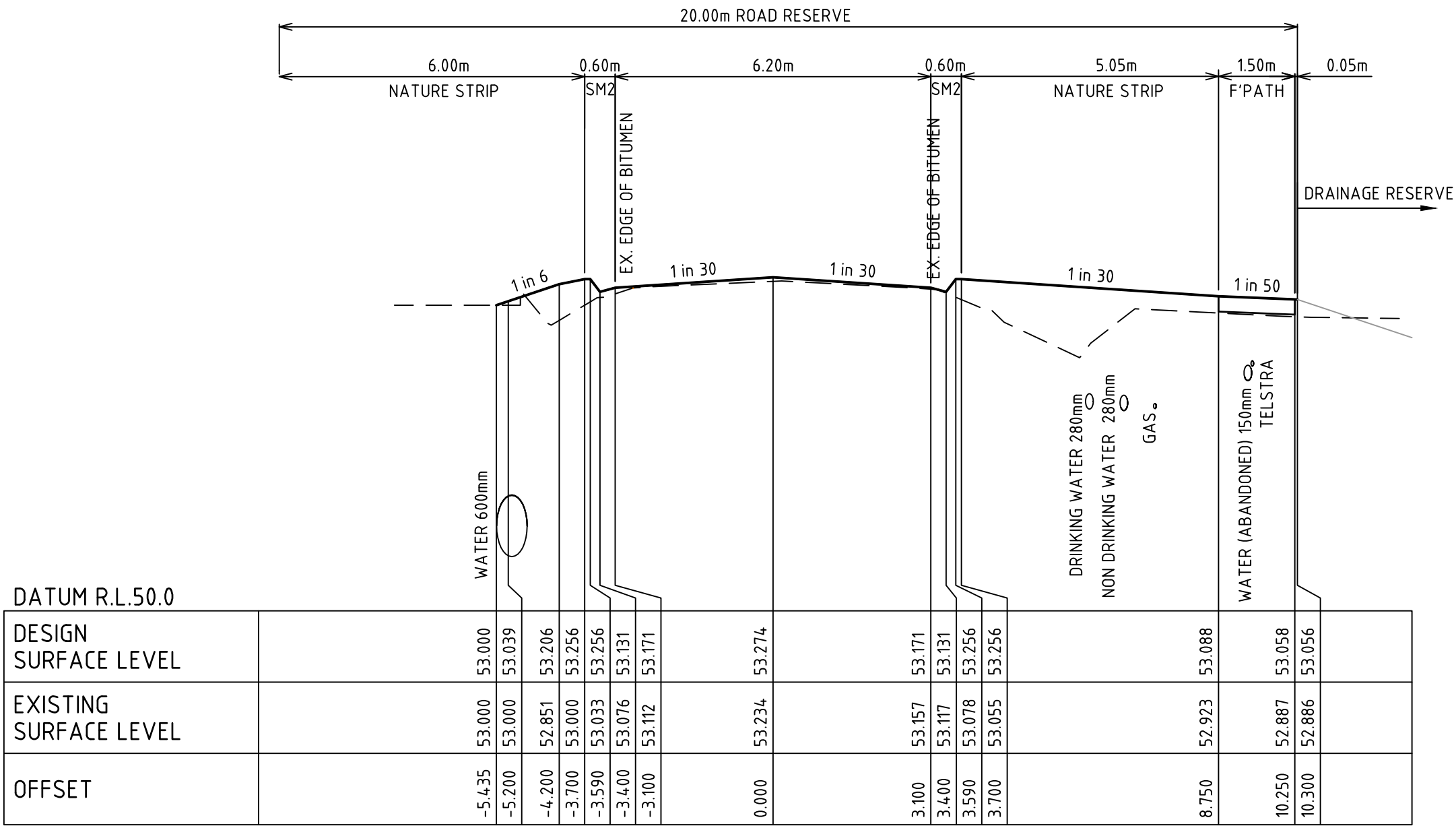
PRELIMINARY

Drg No
308003CR304

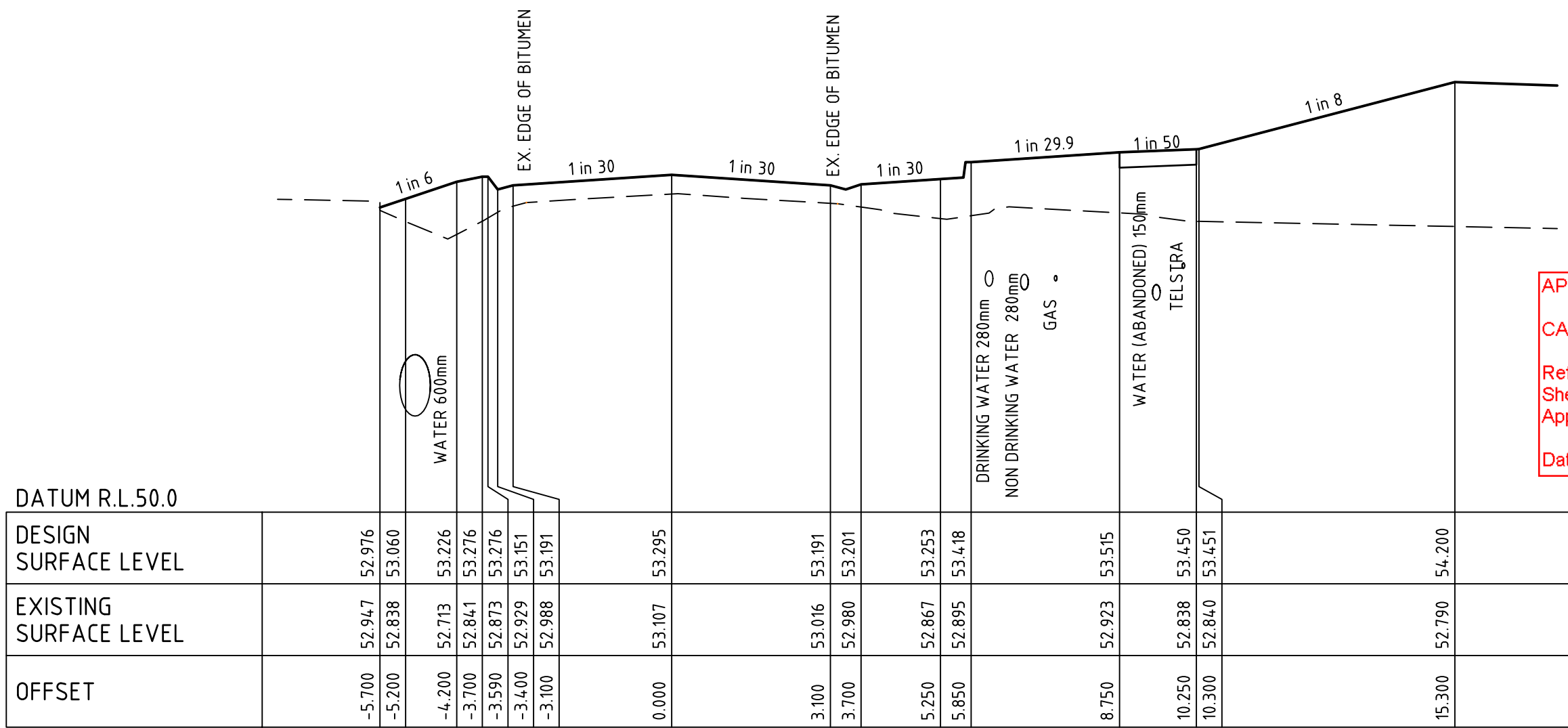
Rev
0

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.

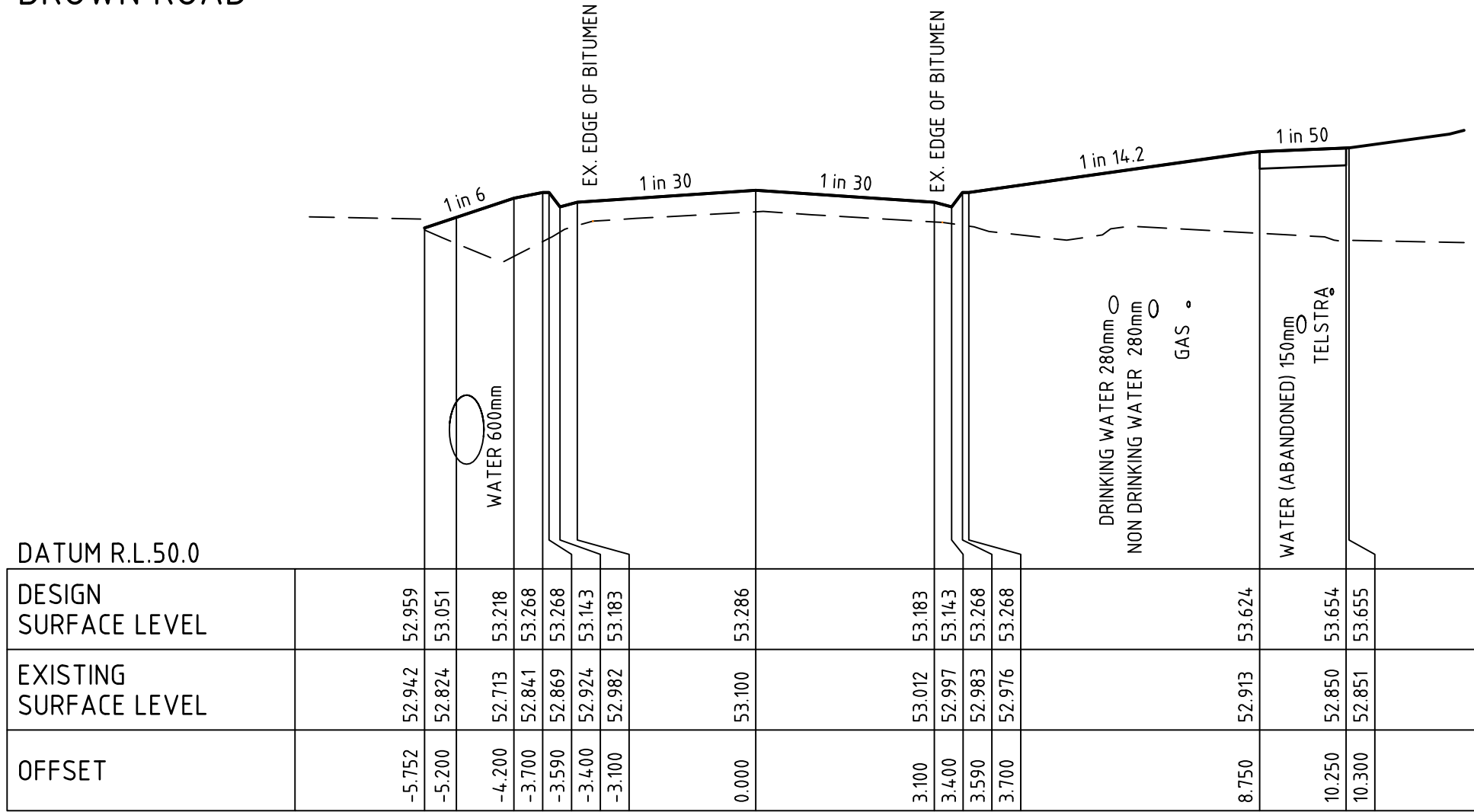
 STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1



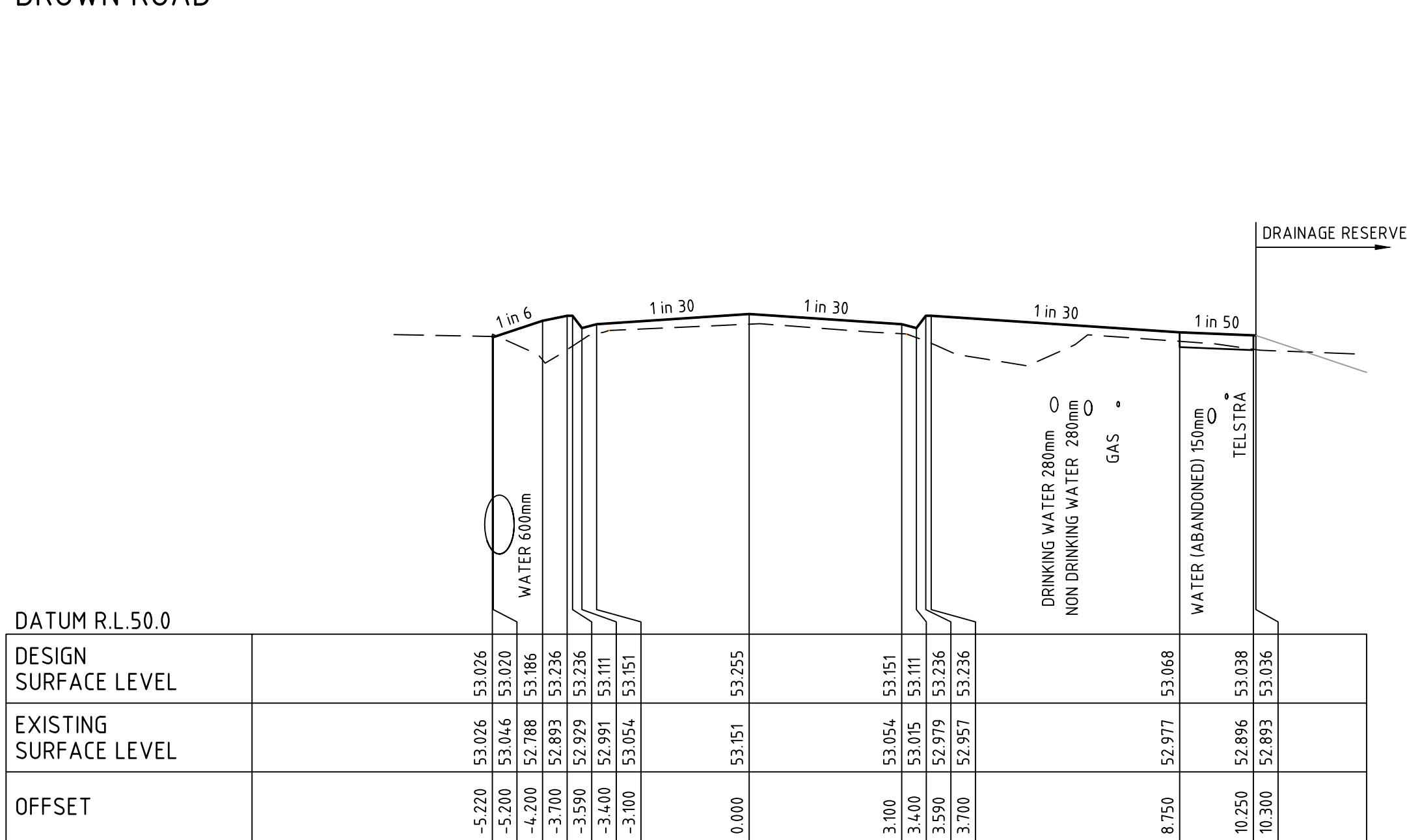
BROWN ROAD CH 219.34 (LIMIT OF WORKS)



BROWN ROAD CH 296.46



BROWN ROAD CH 292.73



BROWN ROAD CH 263.18

APPROVED FOR CONSTRUCTION

CARDINIA SHIRE COUNCIL

Ref No.: S21-005 , T190390
Sheet: 10 of 35
Approved by: Nisanka Mahamithawa
CARDINIA SHIRE COUNCIL
Date: Tuesday, 28 June 2022

file name: 308003CR400.dwg layout name: CR400 plotted by: Luke Russell
file location: G:\308003\308003\civil\ACAD\plot date: 04/05/2022 3:46 PM Sheet: 10 of 35 Sheets

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	B.W	04/05/22
D	UPDATES AS PER COUNCIL COMMENTS	B.W	28/04/22
C	UPDATES AS PER COUNCIL COMMENTS	B.W.	22/03/22
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Scale	H 1:100 SCALE @ A1 V 1:50	
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Authorised B.WAREHAM	Date 19/11/2021

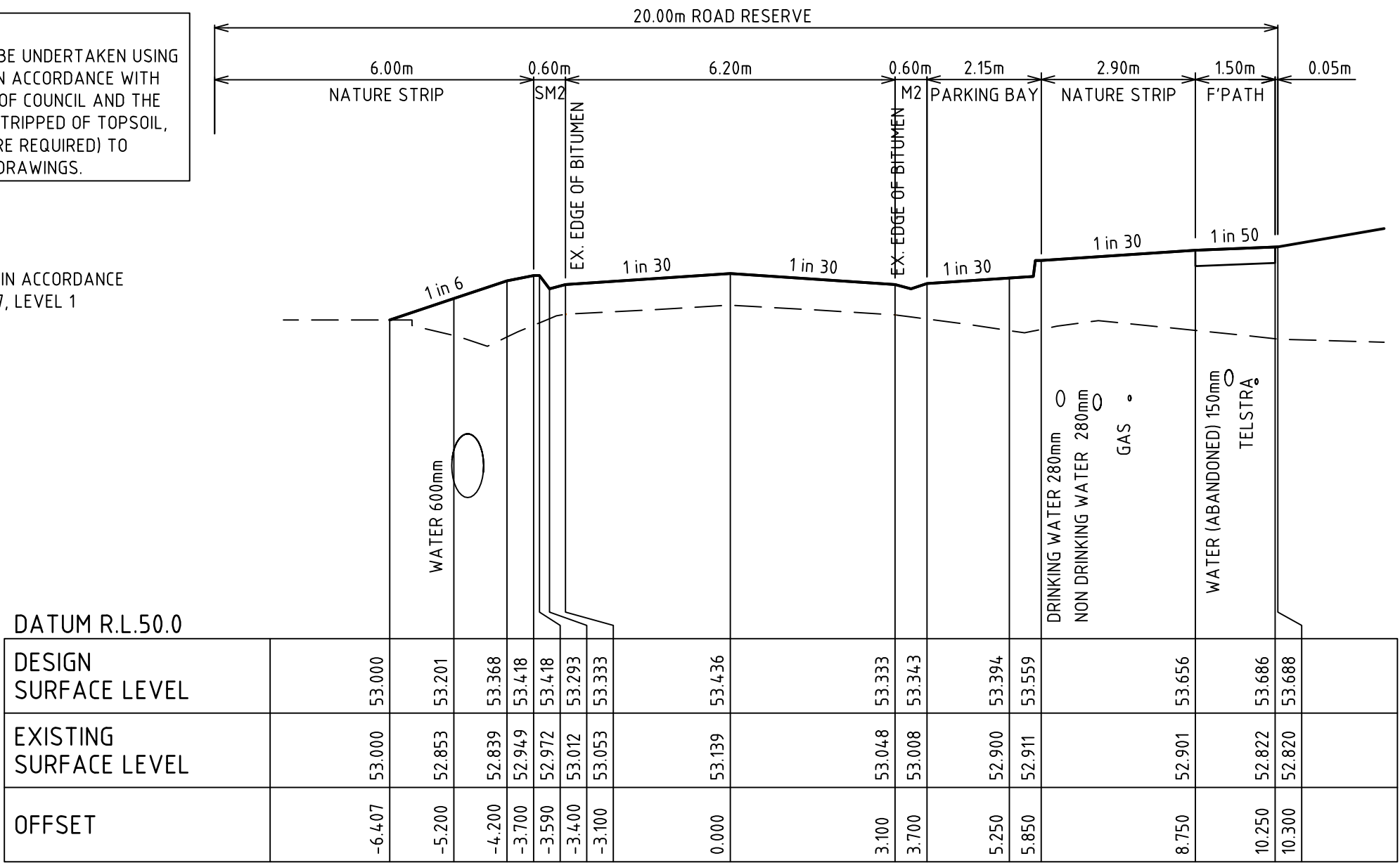
OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 1
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Drg No **308003CR400** Rev **0**

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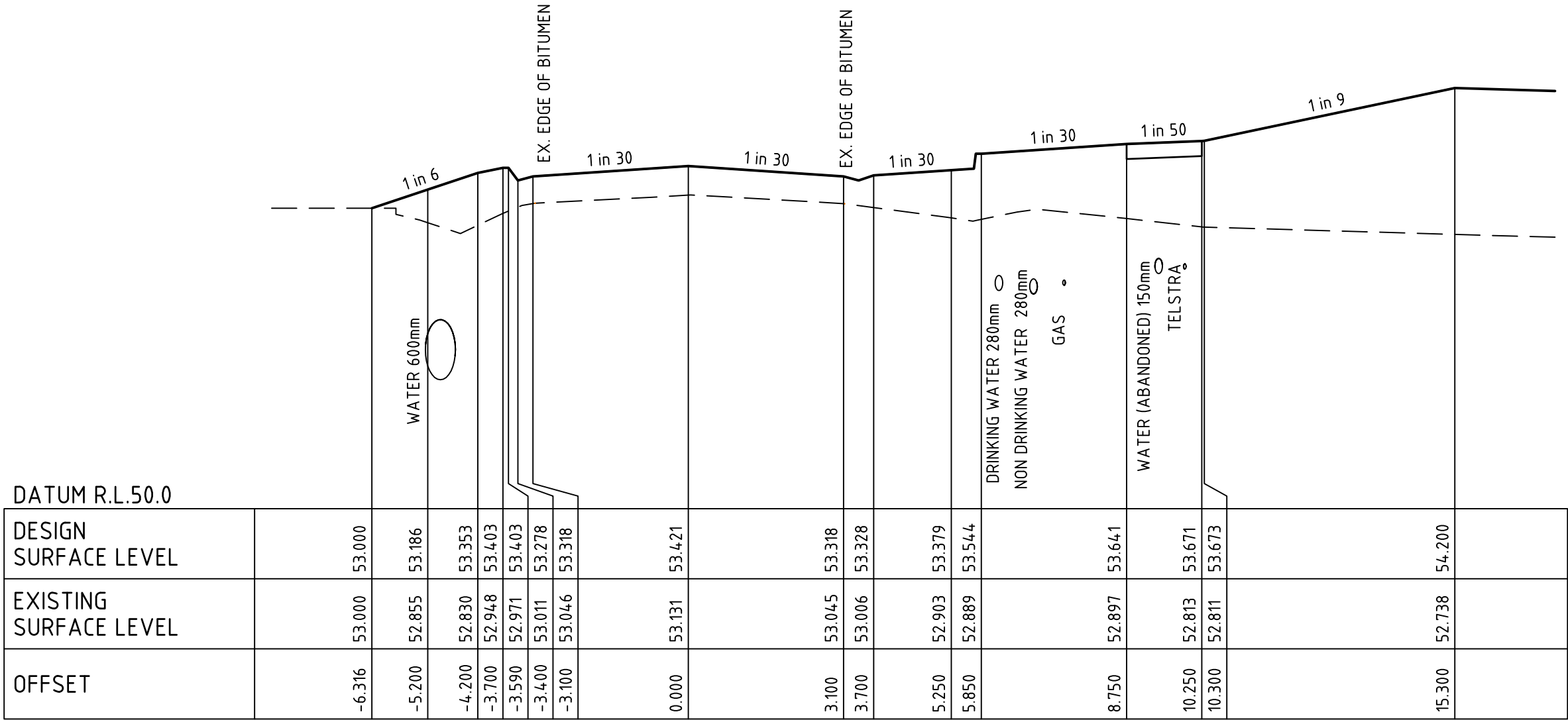
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 STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1



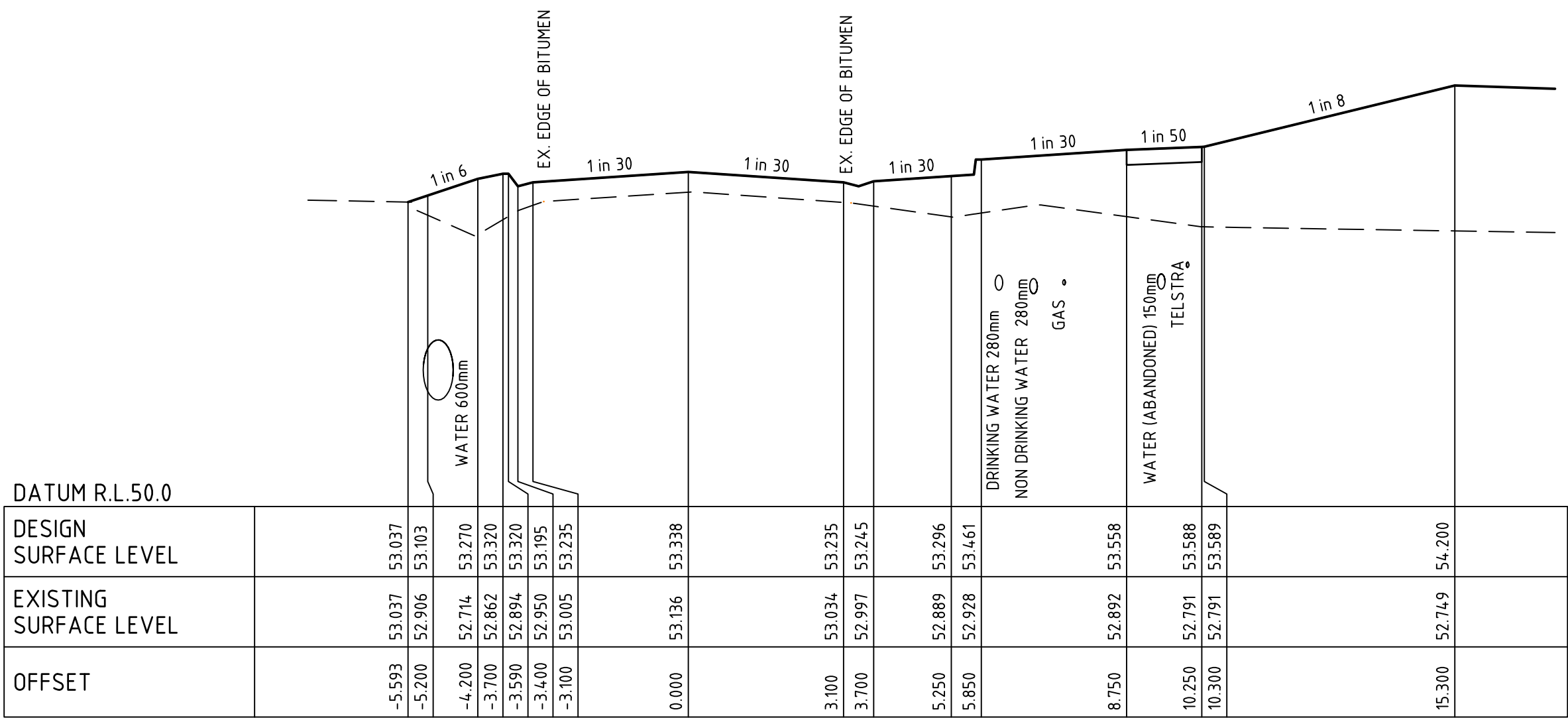
BROWN ROAD

CH 344.44



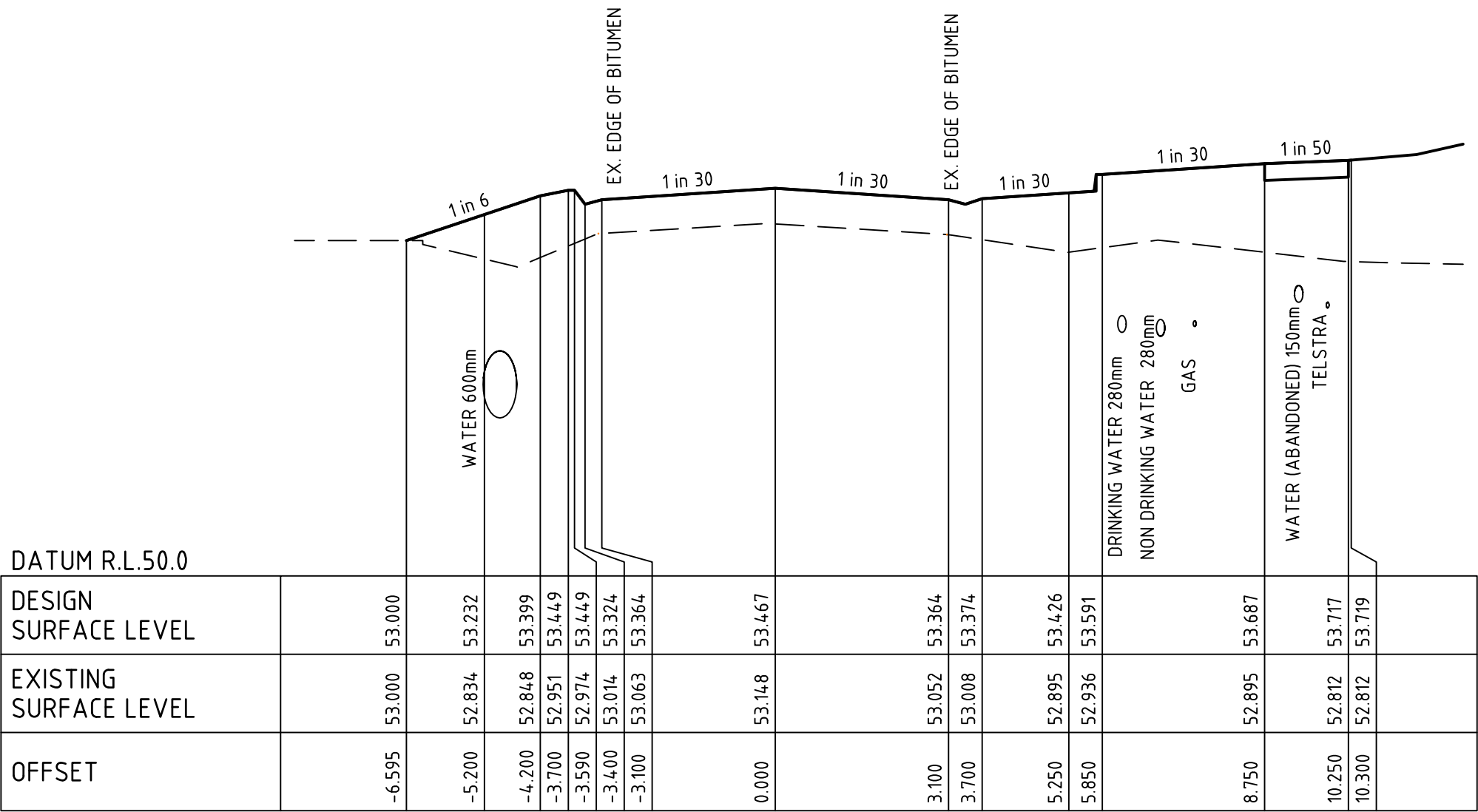
BROWN ROAD

CH 339.39



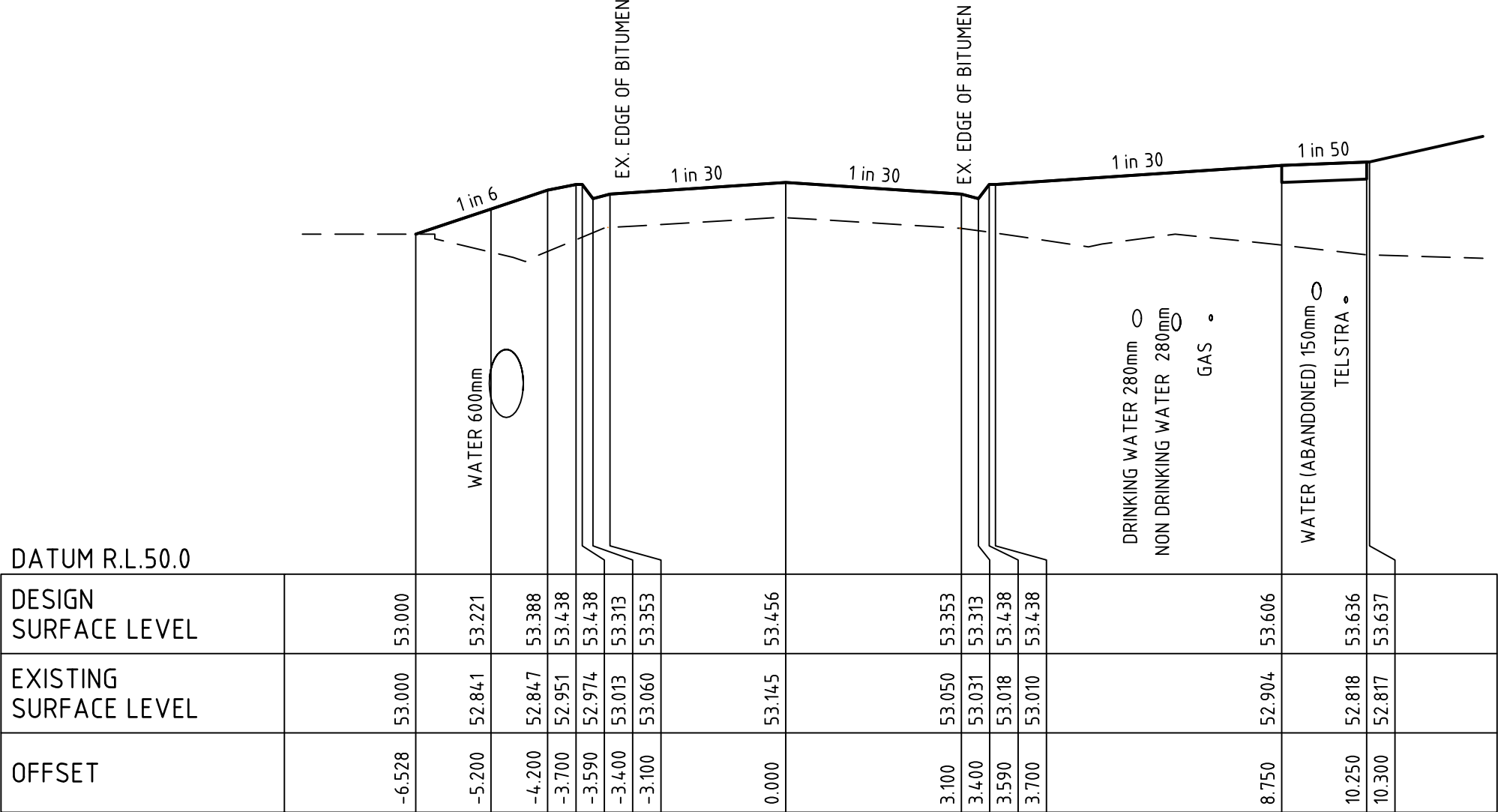
BROWN ROAD

CH 311.68



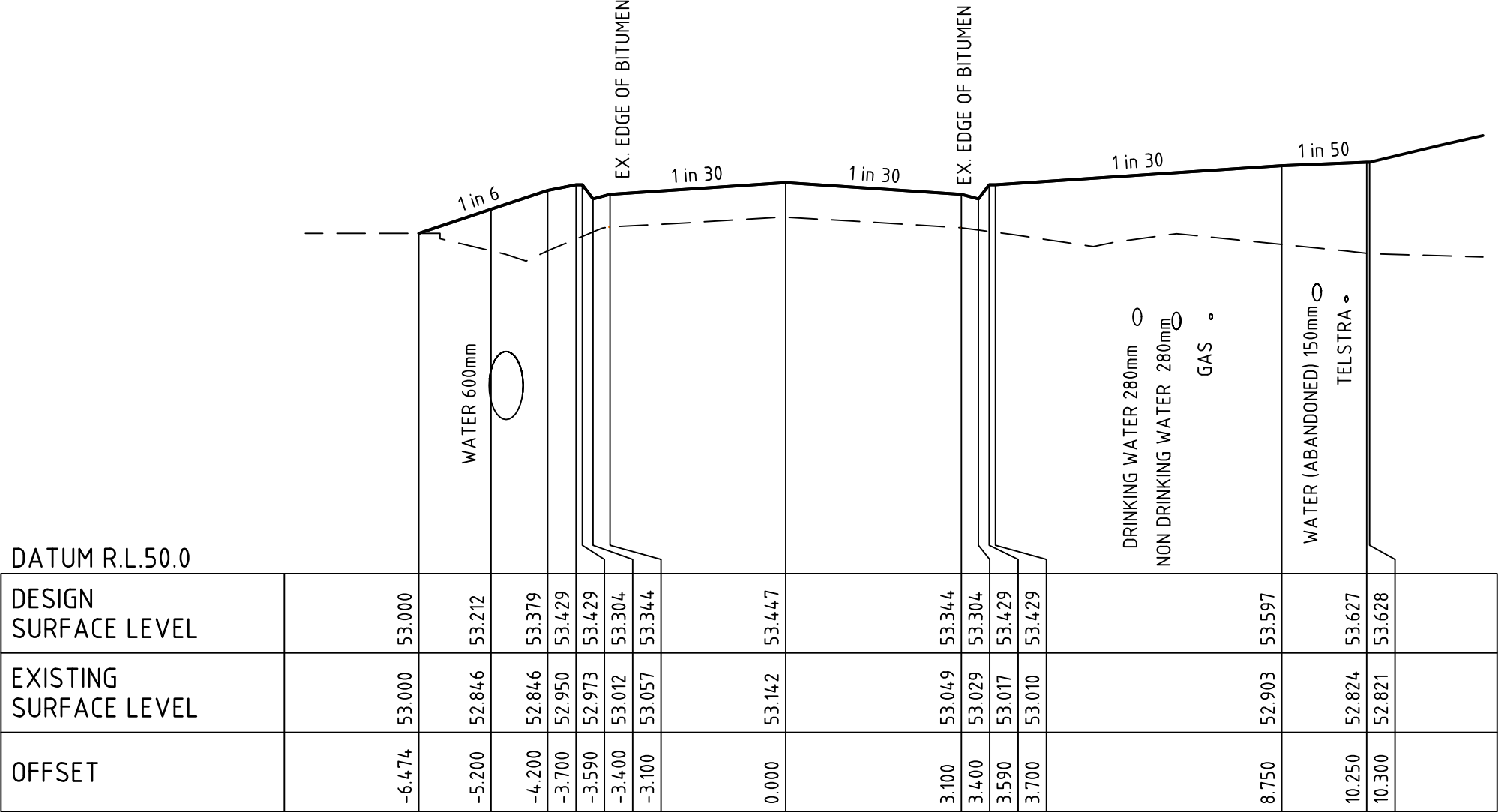
BROWN ROAD

CH 354.89



BROWN ROAD

CH 351.17



BROWN ROAD

CH 348.17

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CARDINIA SHIRE COUNCIL

Ref No.: S21-005 , T190390

Sheet: 11 of 35

Approved by: Nisanka Mahamithawa

CARDINIA SHIRE COUNCIL

Date: Tuesday, 28 June 2022

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A	PRELIMINARY ISSUE	B.W.	19/11/21

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B.WAREHAM

Checked

Date
19/11/2021

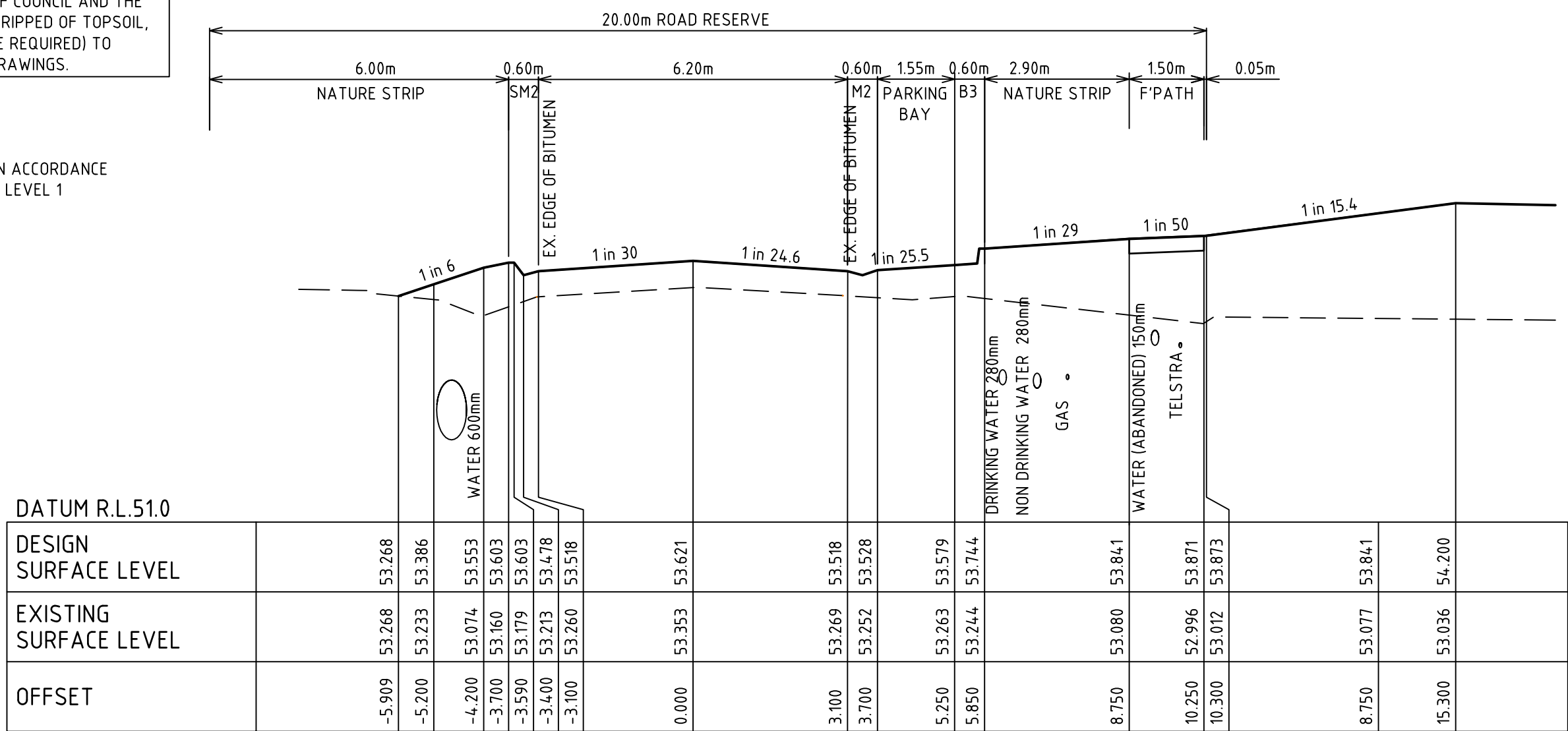
OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 2
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Drg No
308003CR401

Rev
0

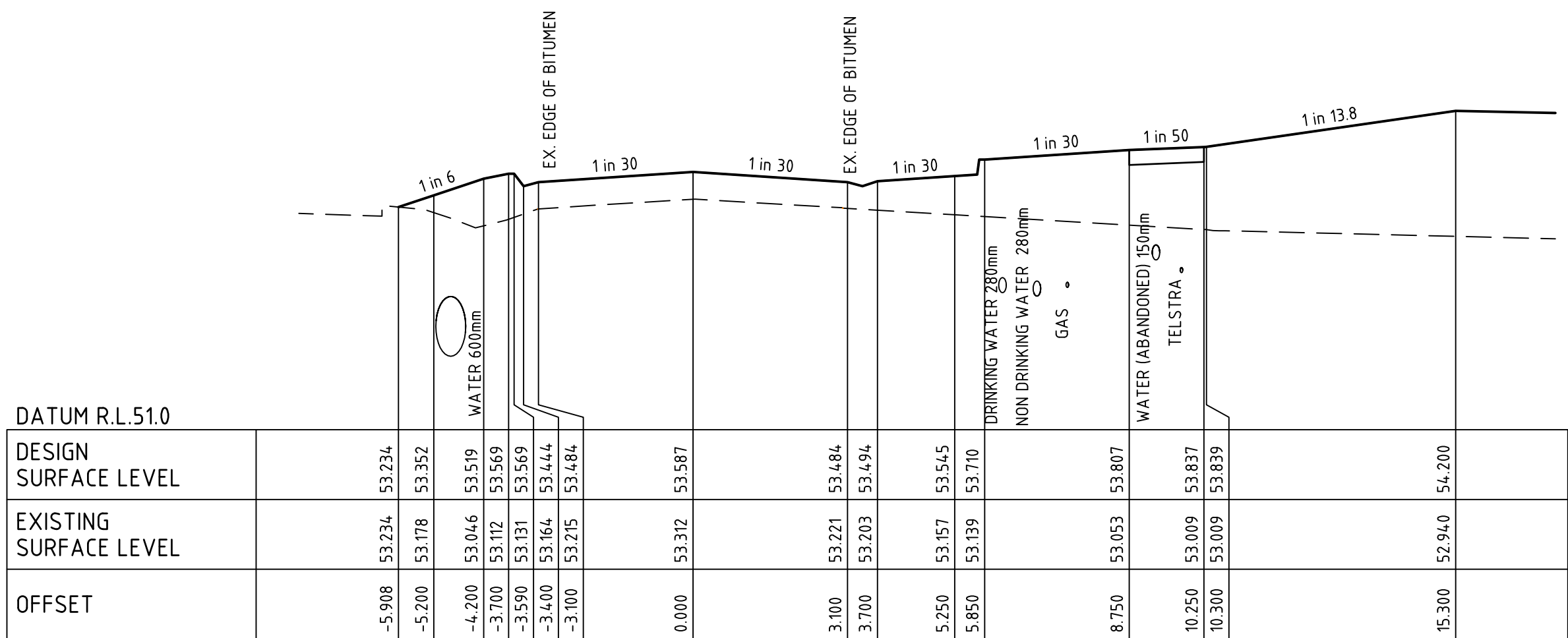
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ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED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

STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1



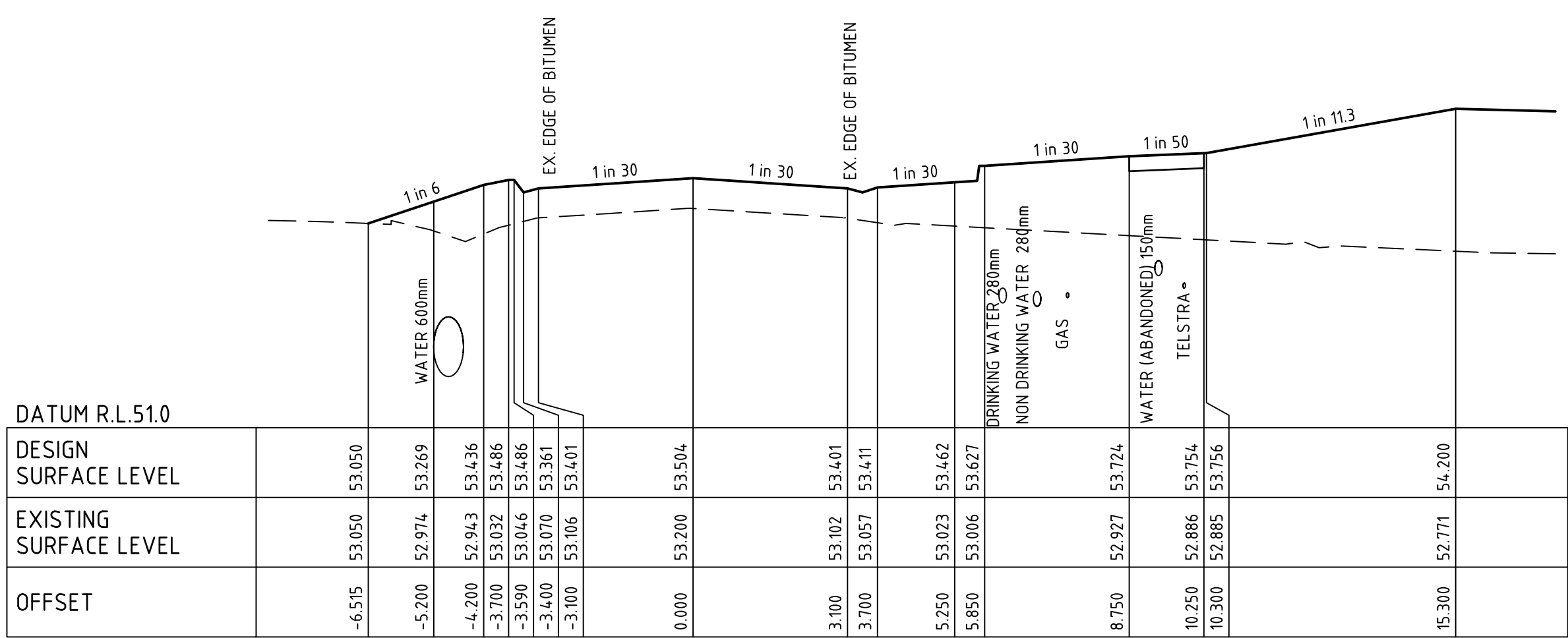
BROWN ROAD

CH 405.61



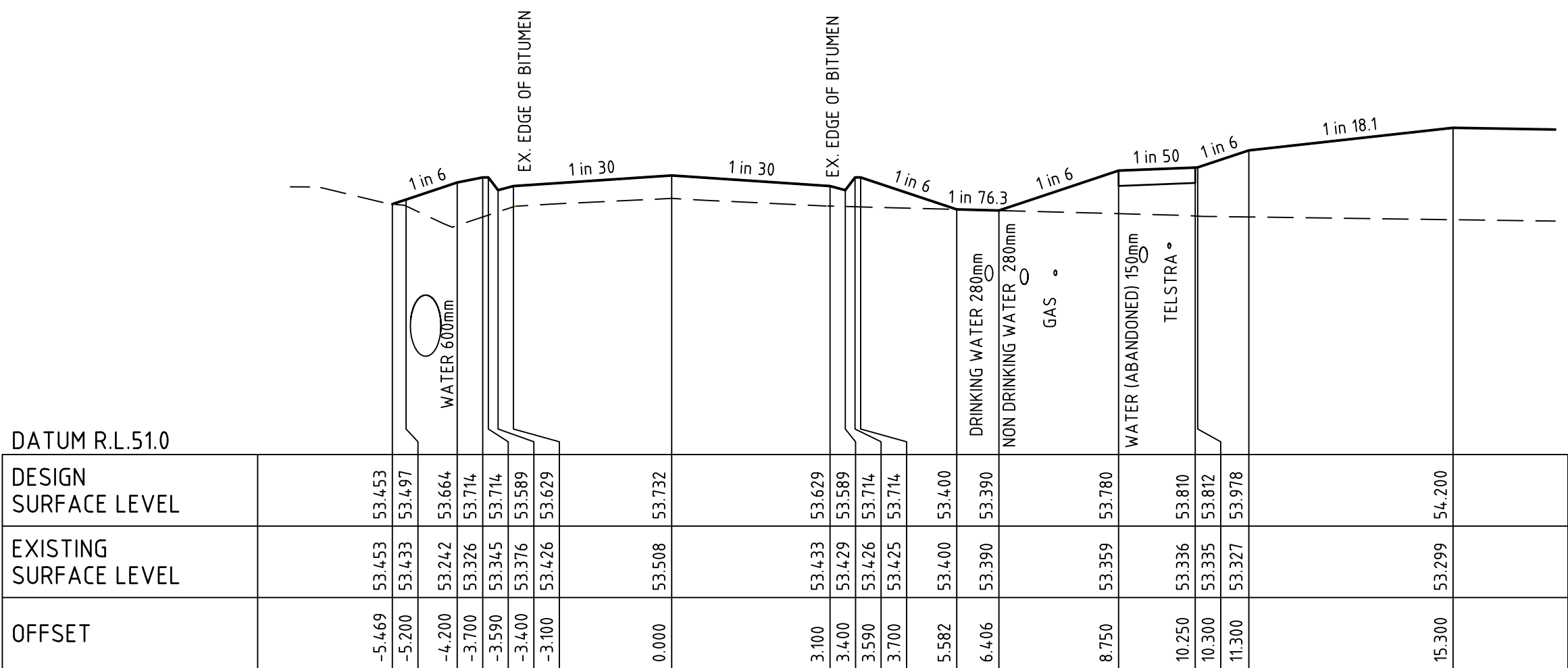
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CH 394.76



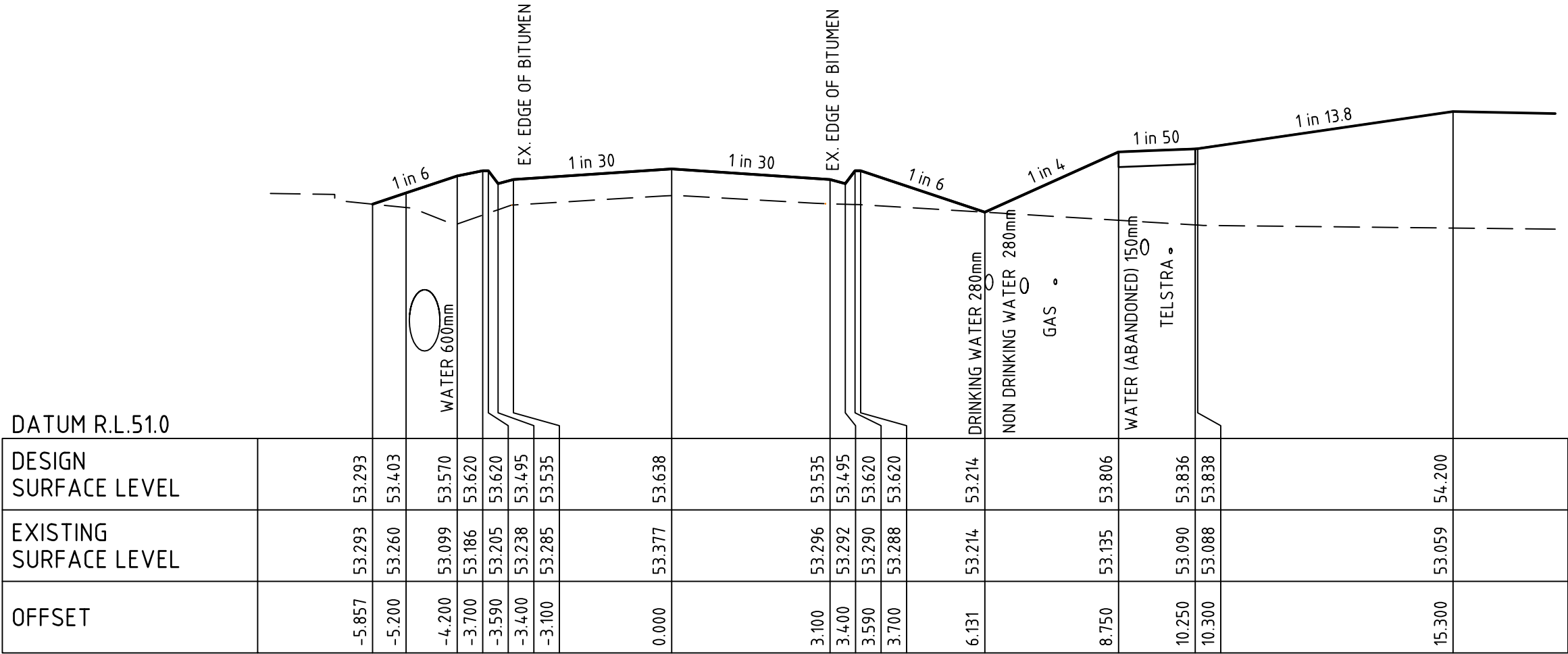
BROWN ROAD

CH 367.09



BROWN ROAD

CH 422.41



BROWN ROAD

CH 409.34

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CARDINIA SHIRE COUNCIL

Ref No.: S21-005 , T190390

Sheet: 12 of 35

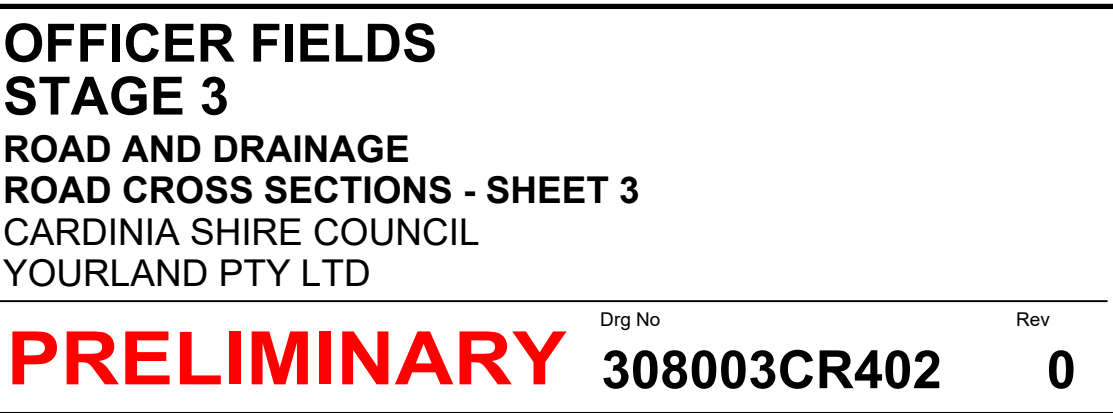
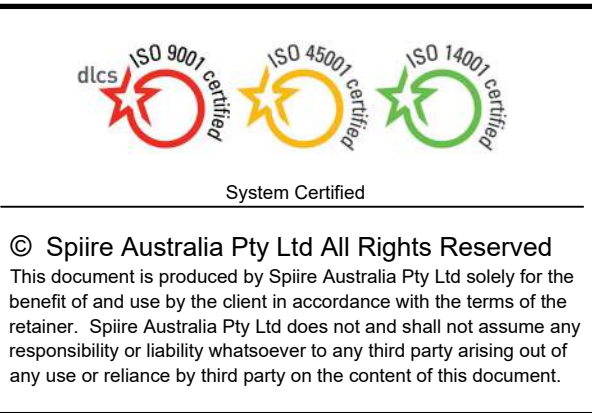
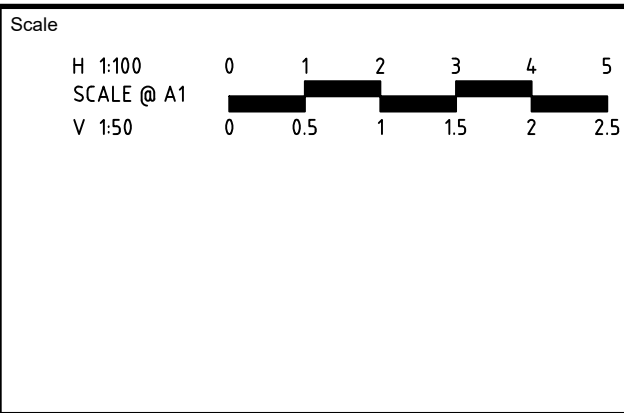
Approved by: Nisanka Mahamithawa

CARDINIA SHIRE COUNCIL

Date: Tuesday, 28 June 2022

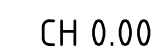
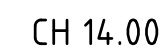
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Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	B.W.	04/05/22
D	UPDATES AS PER COUNCIL COMMENTS	B.W.	28/04/22
C	UPDATES AS PER COUNCIL COMMENTS	B.W.	22/03/22
B	ISSUED TO COUNCIL	B.W.	01/12/21
A	PRELIMINARY ISSUE	B.W.	19/11/21



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Ref No.: S21-005 , T190390
Sheet: 13 of 35
Approved by: Nisanka Mahamithawa
CARDINIA SHIRE COUNCIL
Date: Tuesday, 28 June 2022

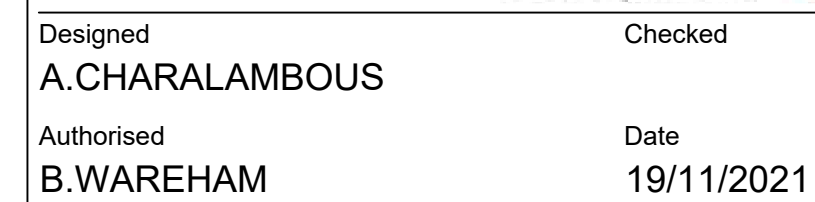
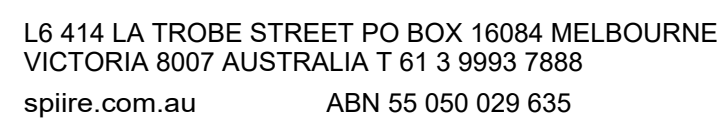
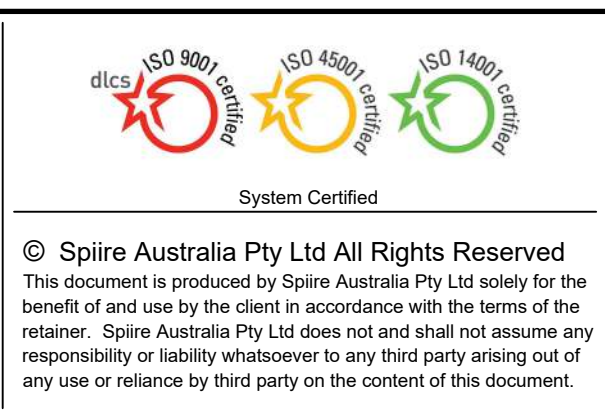


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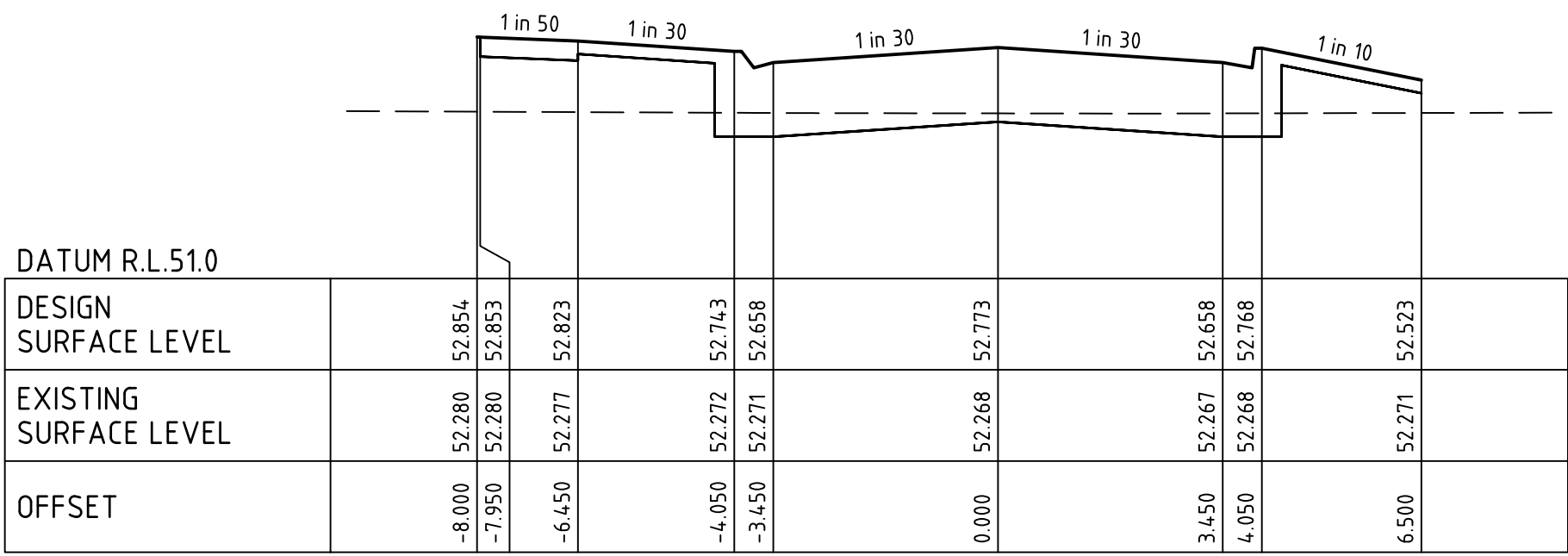
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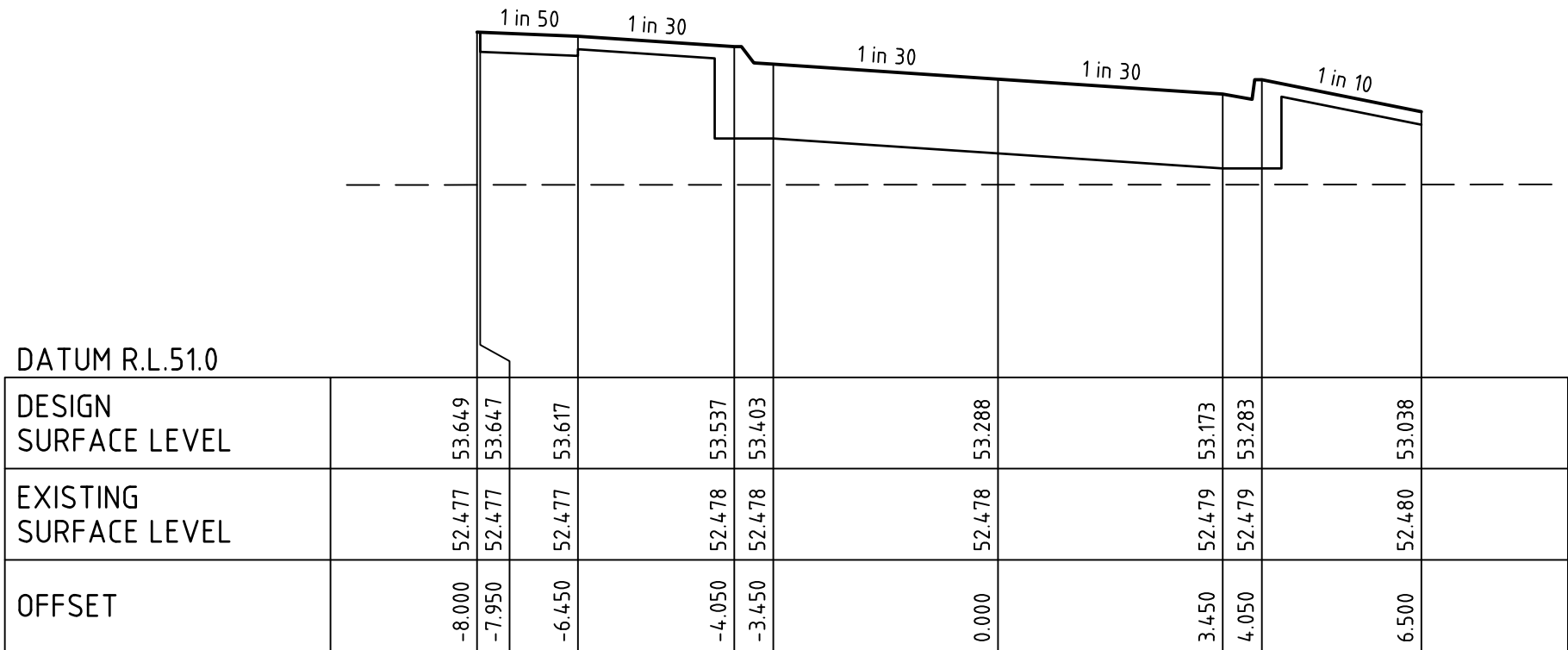
PRELIMINARY Drg No 308003CR403 Rev 0

FILLING NOTE
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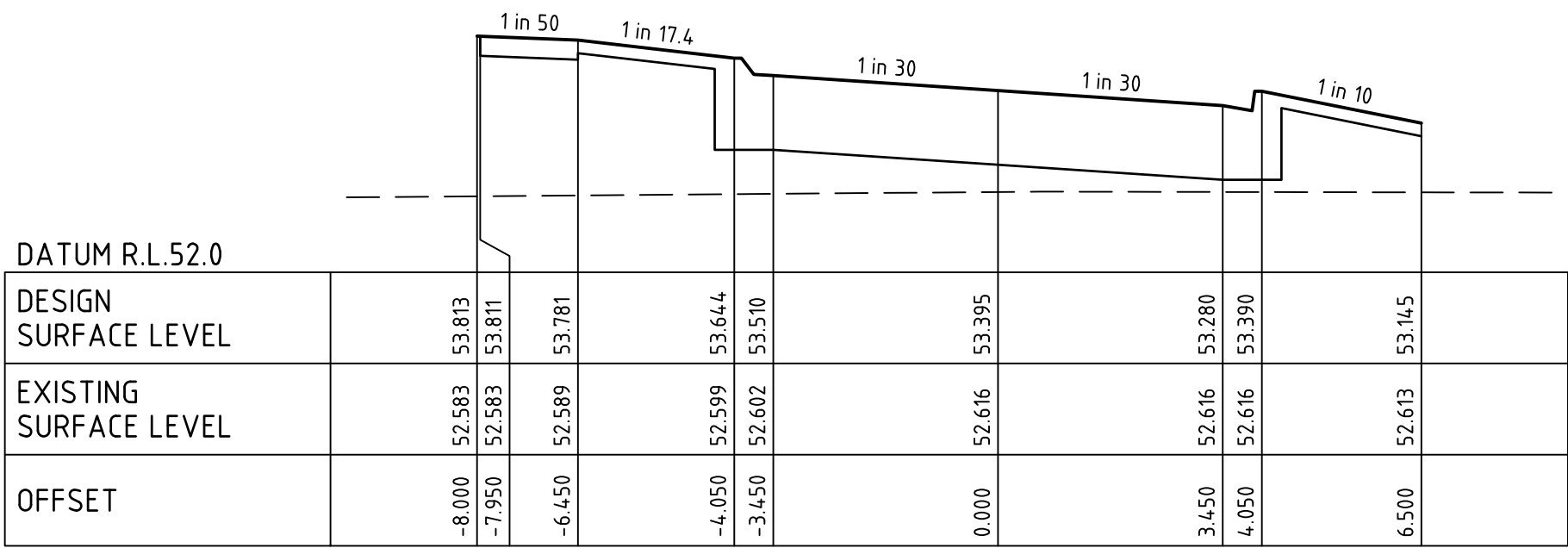
HEFFERMAN DRIVE

CH 74.27



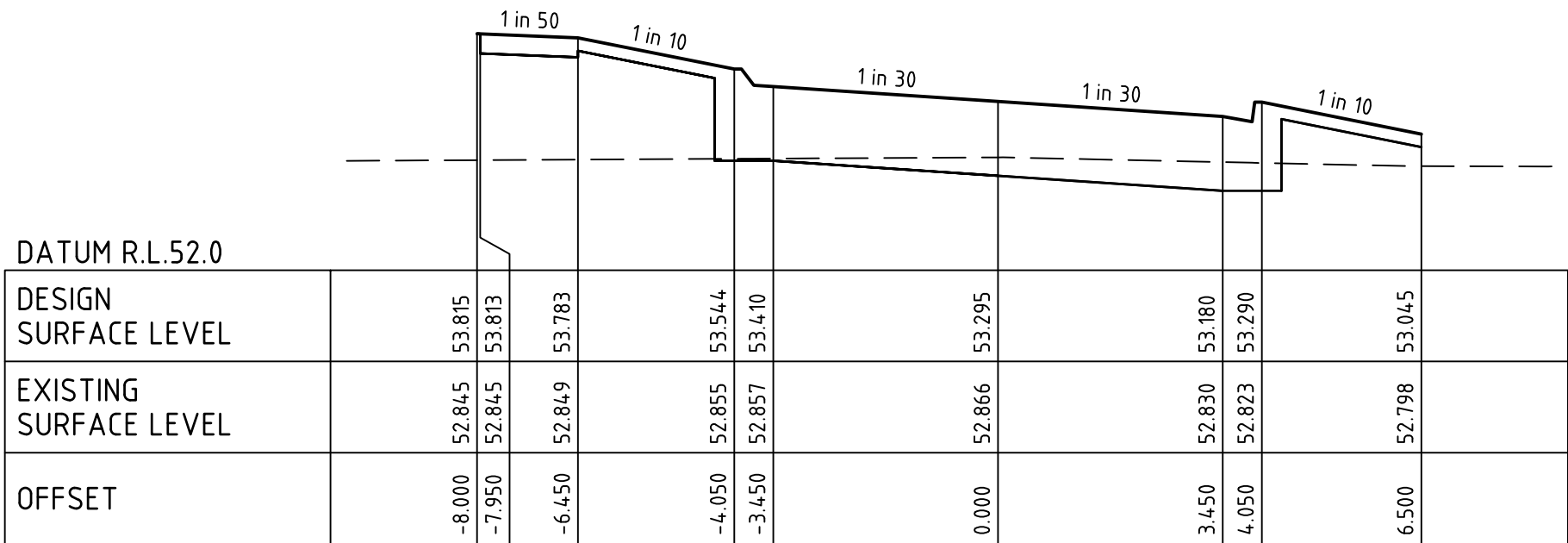
HEFFERMAN DRIVE

CH 46.32



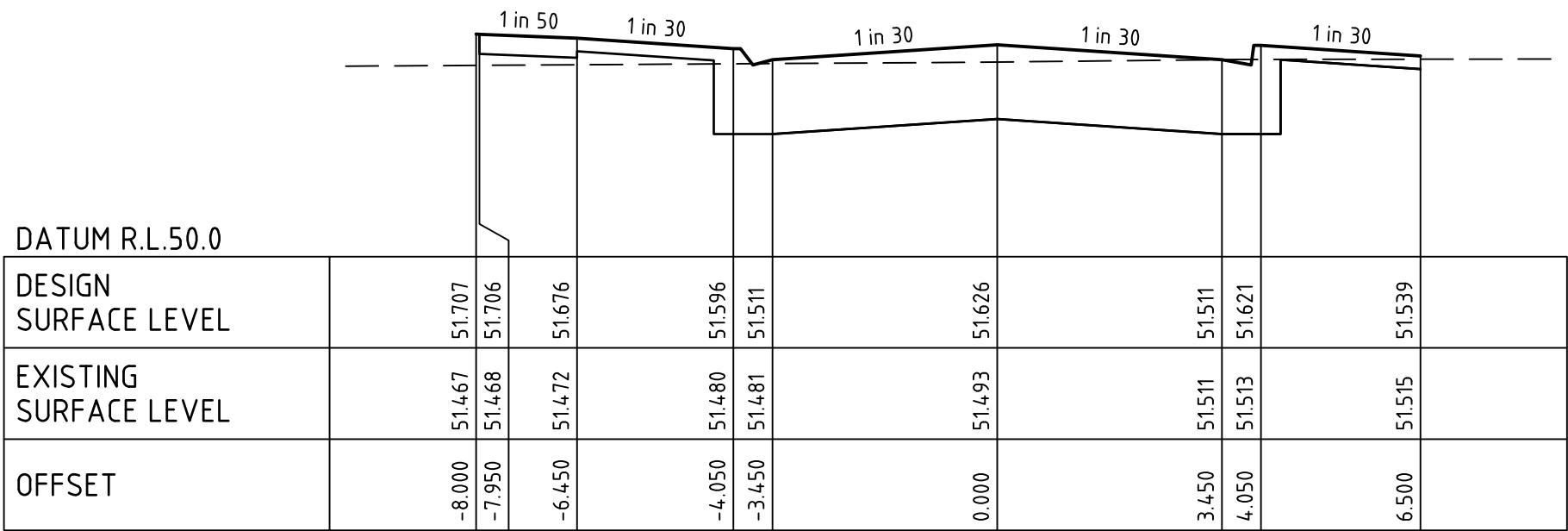
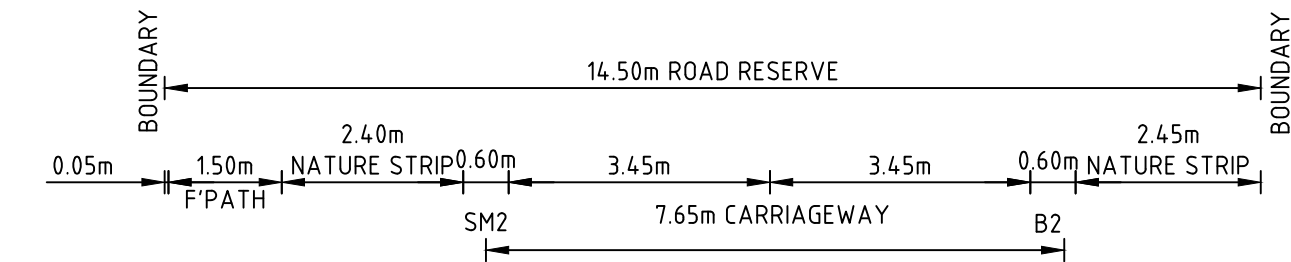
HEFFERMAN DRIVE

CH 30.00



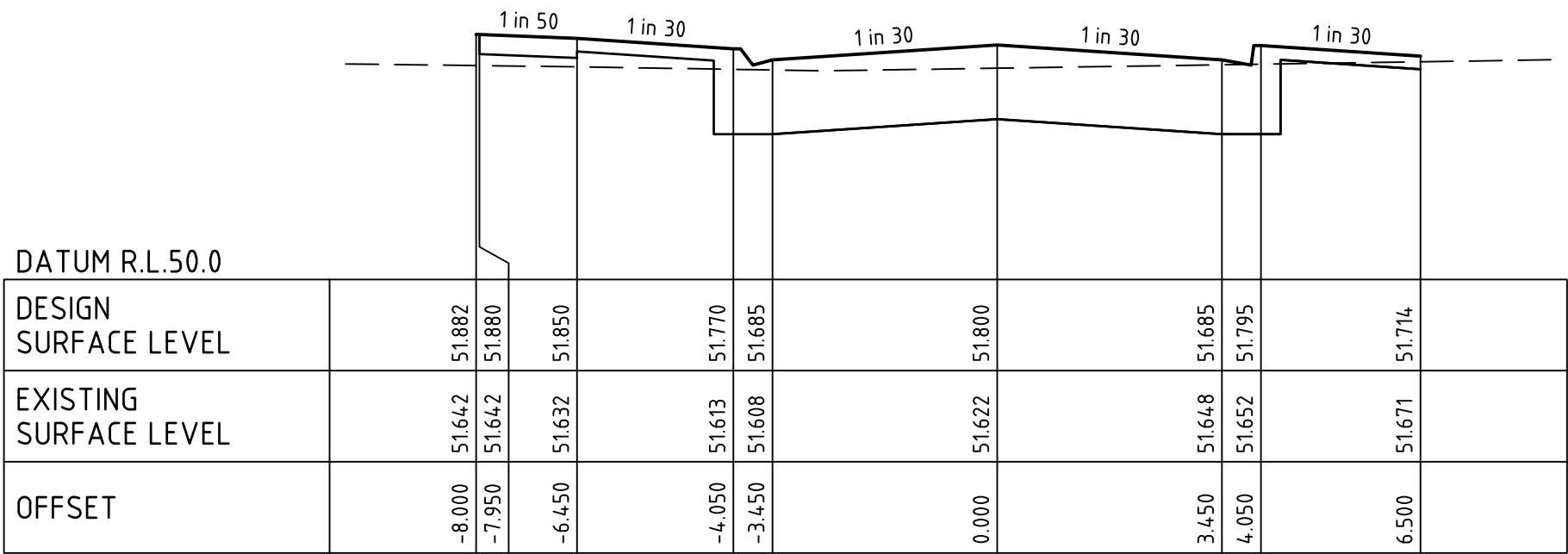
HEFFERMAN DRIVE

CH 12.31



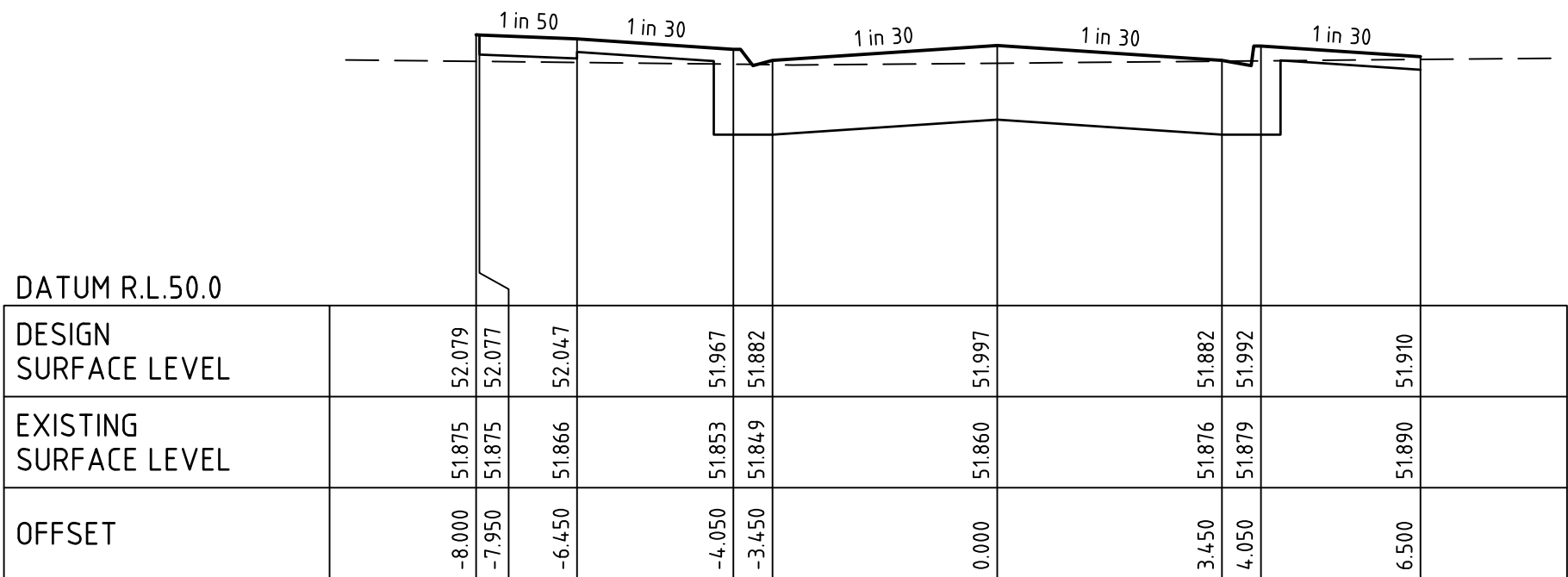
HEFFERMAN DRIVE

CH 174.37



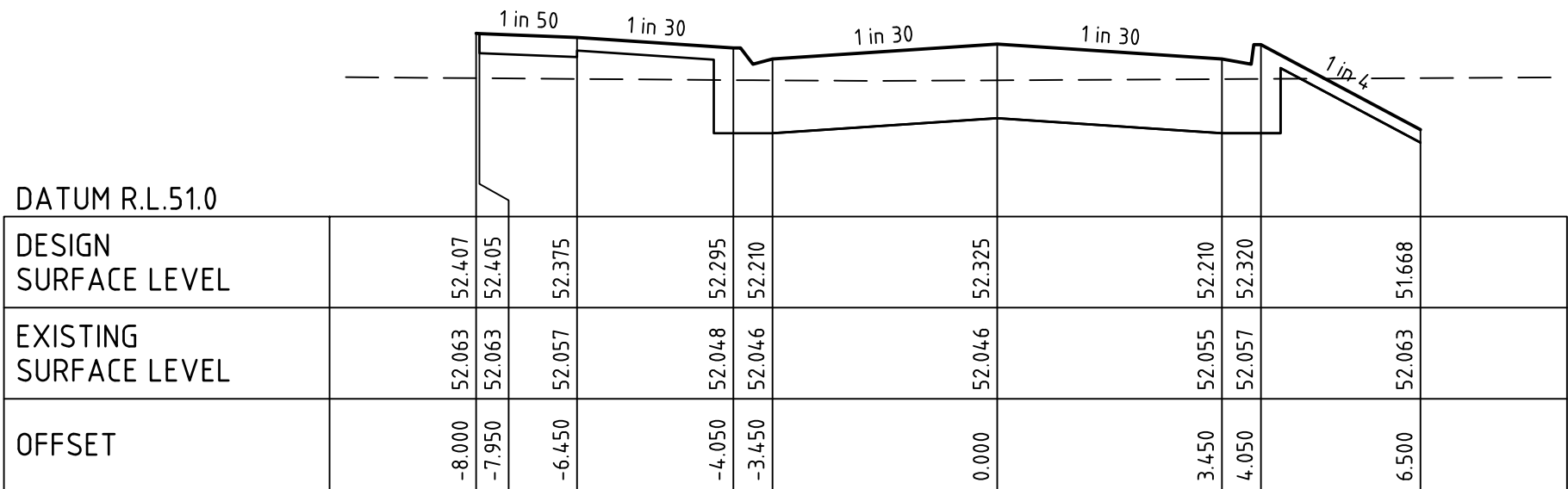
HEFFERMAN DRIVE

CH 150.27



HEFFERMAN DRIVE

CH 124.32



HEFFERMAN DRIVE

CH 98.37

APPROVED FOR CONSTRUCTION

CARDINIA SHIRE COUNCIL

Ref No.: S21-005 , T190390

Sheet: 14 of 35

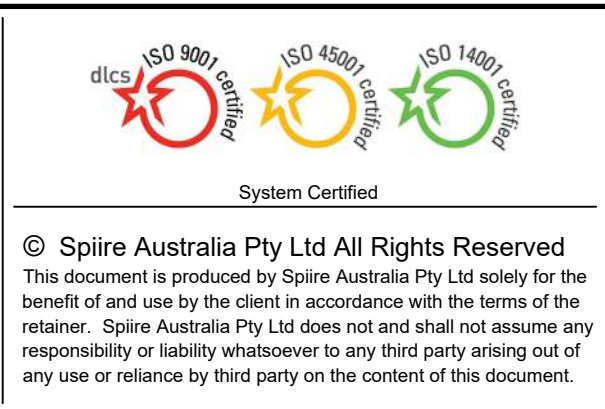
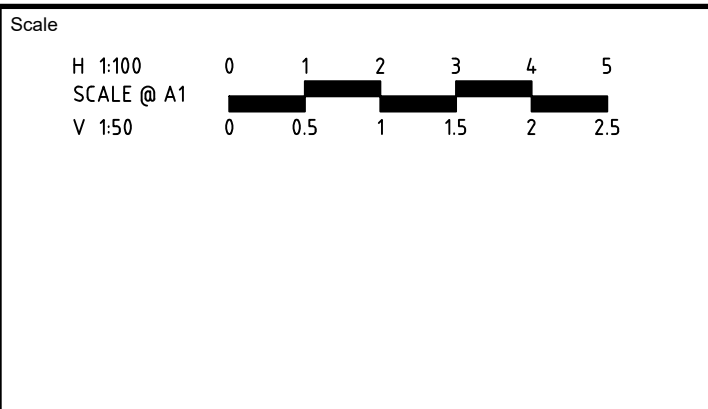
Approved by: Nisanka Mahamithawa

CARDINIA SHIRE COUNCIL

Date: Tuesday, 28 June 2022

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0	ISSUED FOR CONSTRUCTION	B.W	04/05/22	
C	UPDATES AS PER COUNCIL COMMENTS	B.W.	22/03/22	
B	ISSUED TO COUNCIL	B.W.	01/12/21	
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Rev	Amendments	Approved	Date	



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Designed
A.CHARALAMBOUS

Checked

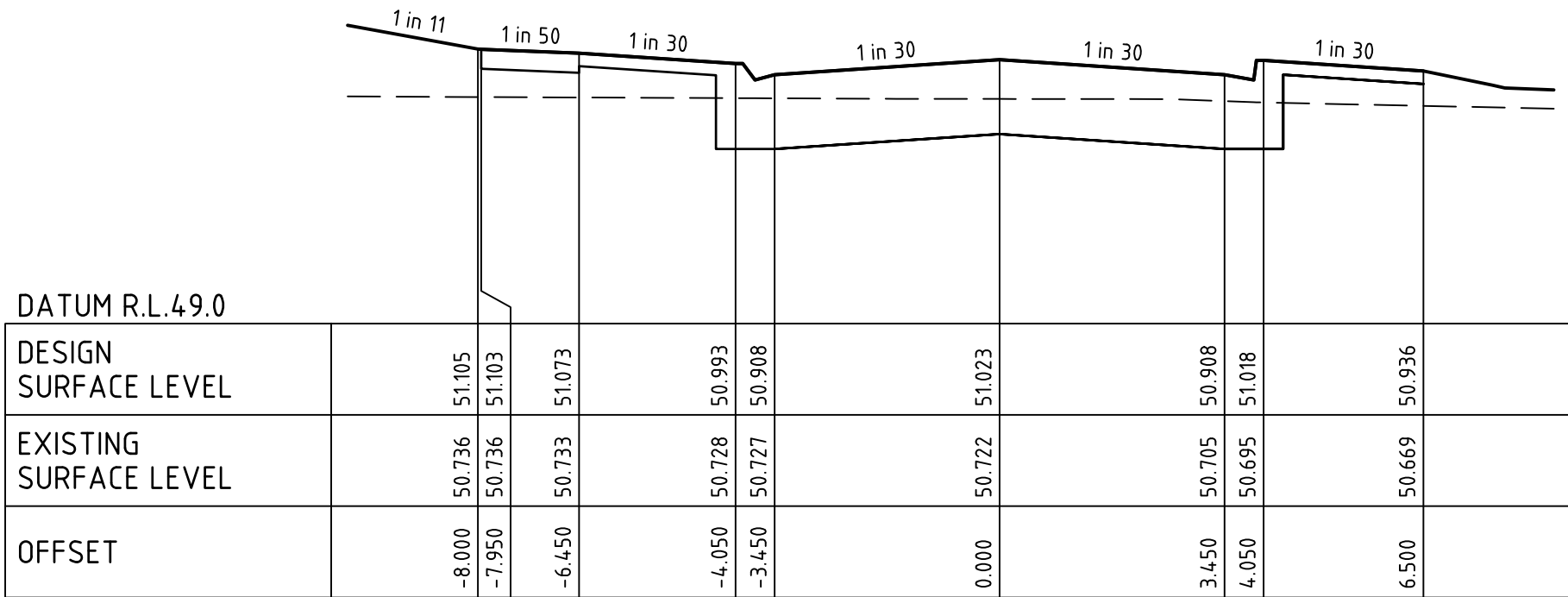
Authorised
B.WAREHAM

Date
19/11/2021

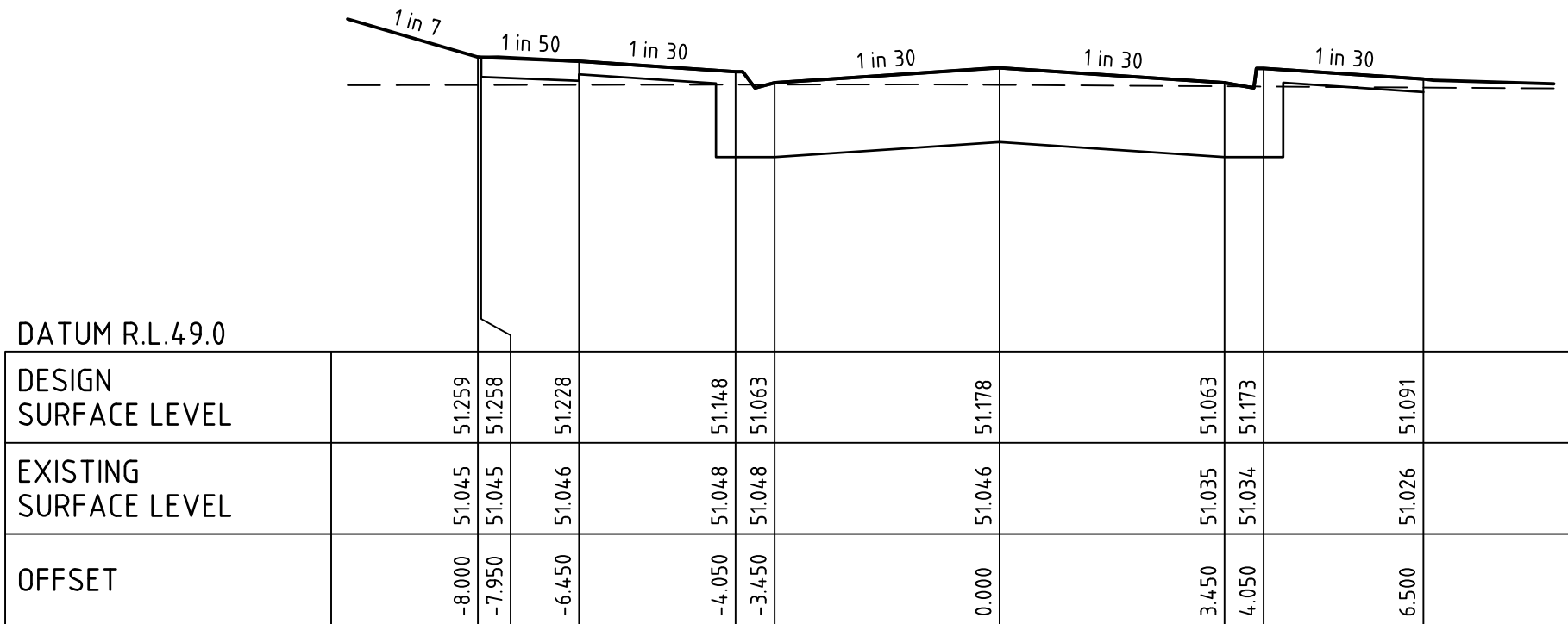
OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 5
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Drg No 308003CR404 Rev 0

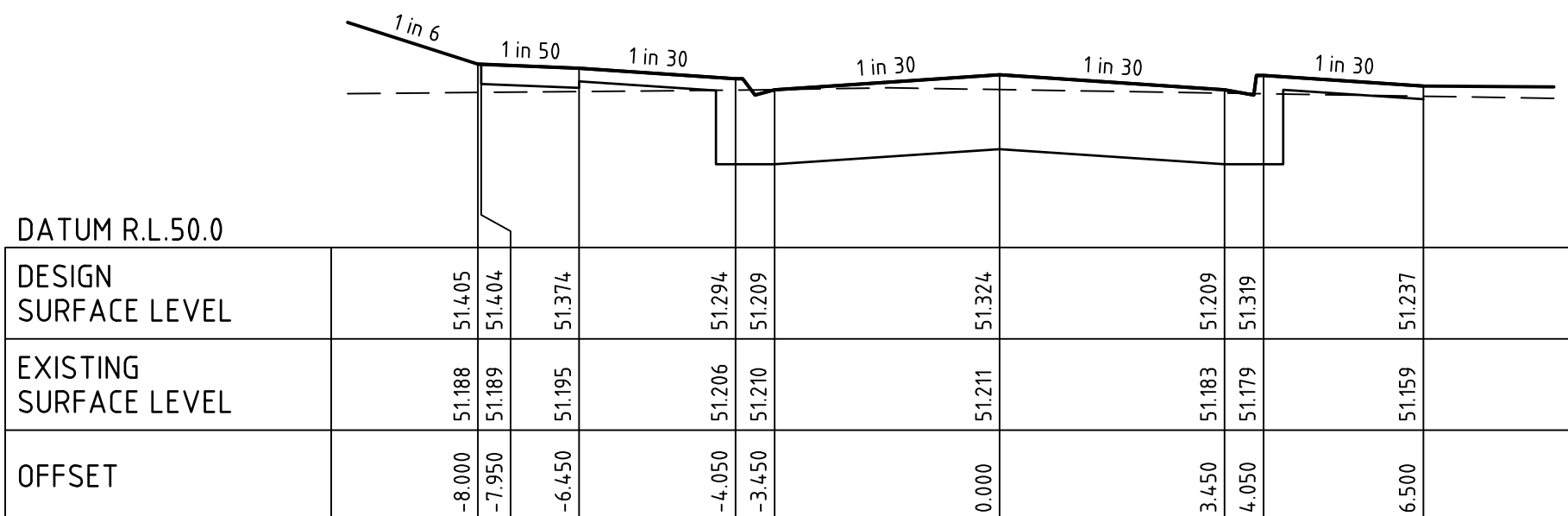
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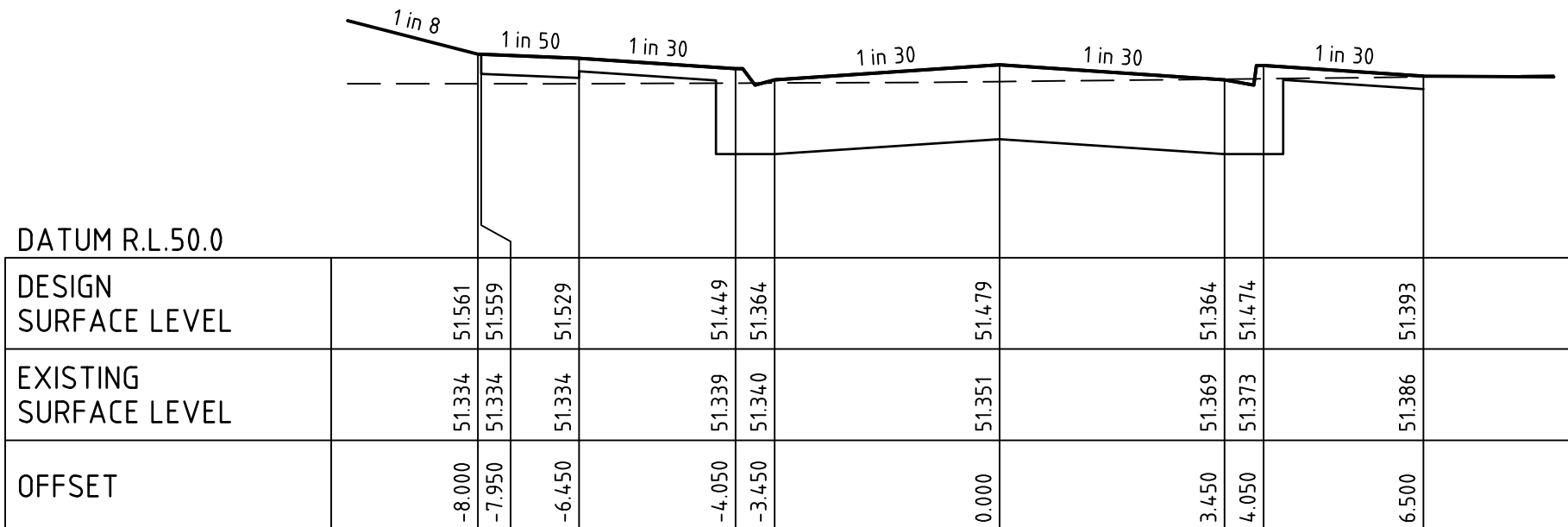
HEFFERMAN DRIVE CH 262.63



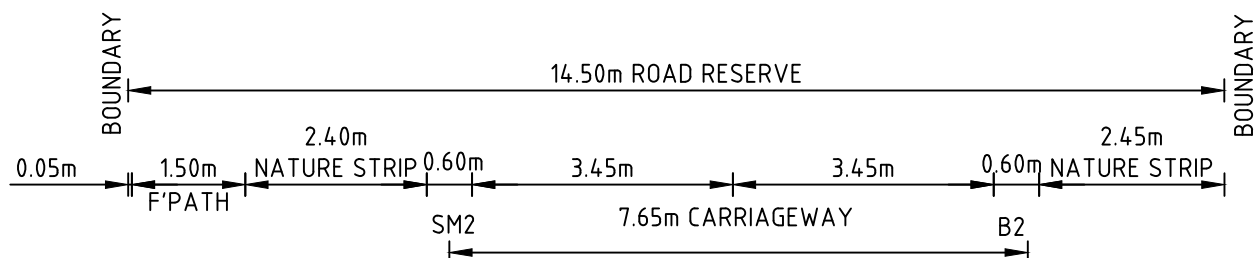
HEFFERMAN DRIVE CH 236.23



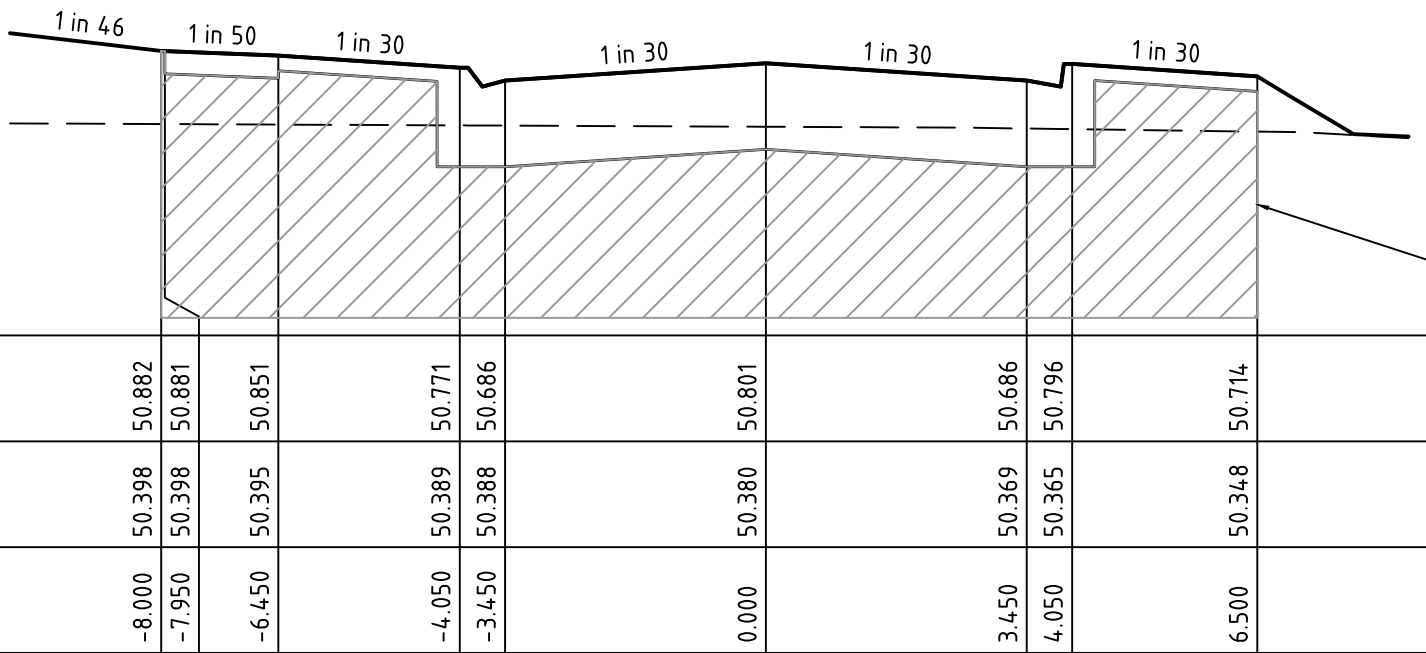
HEFFERMAN DRIVE CH 216.07



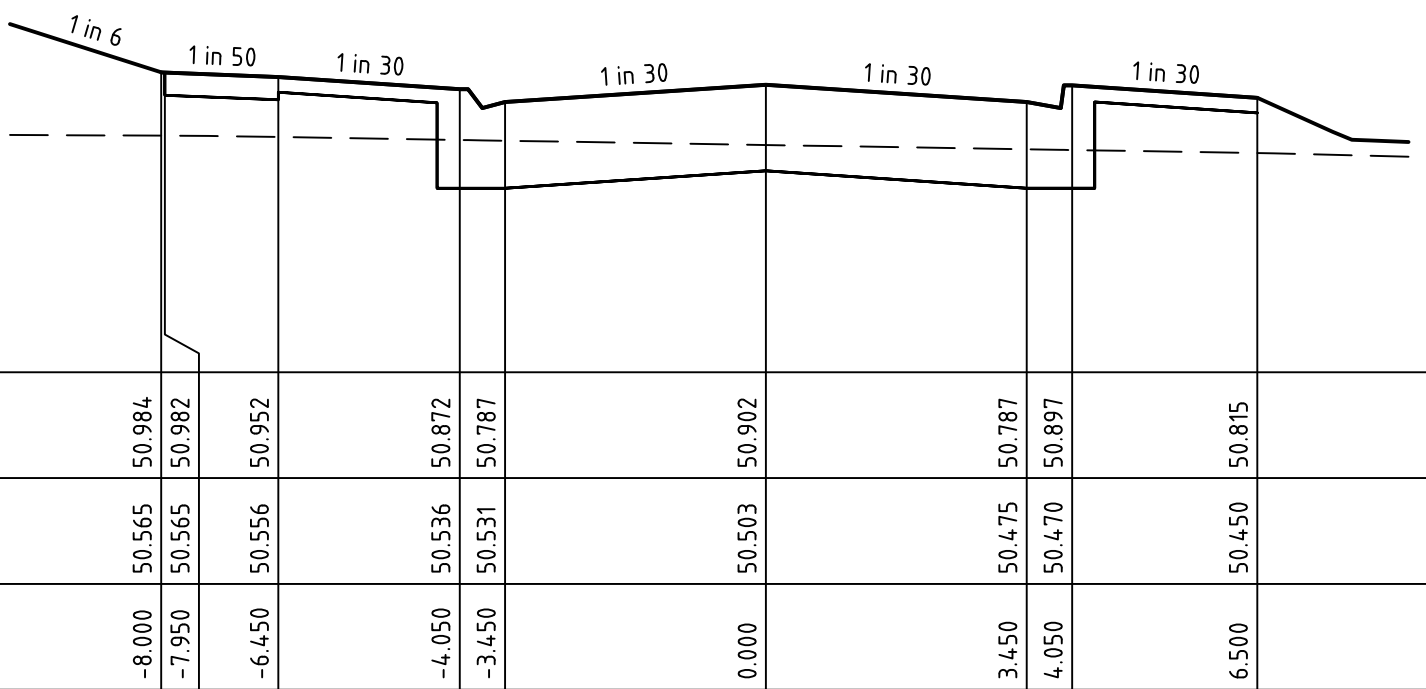
HEFFERMAN DRIVE CH 194.57



HEFFERMAN DRIVE CH 321.23



HEFFERMAN DRIVE CH 300.85



HEFFERMAN DRIVE CH 286.73

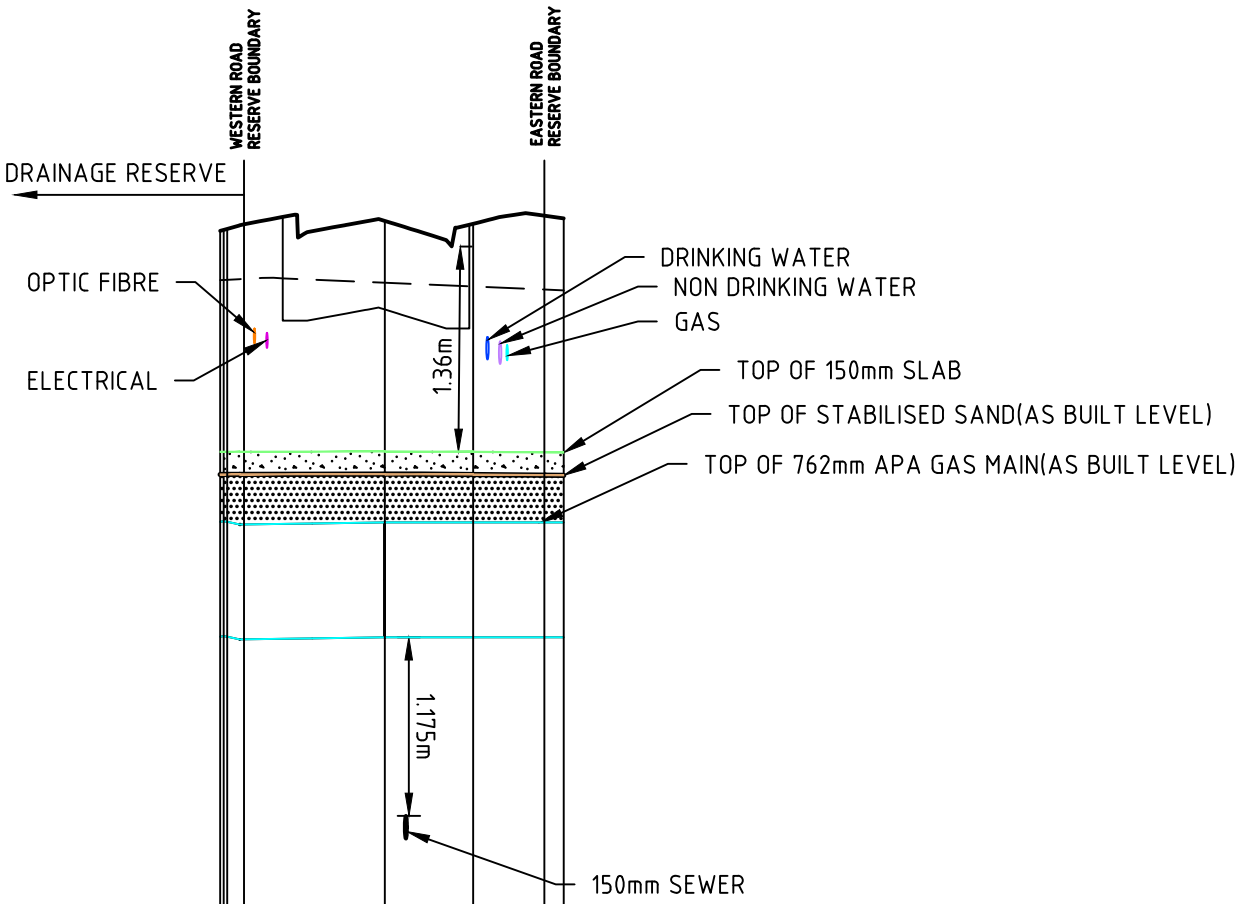
FILLING NOTE
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CARDINIA SHIRE COUNCIL
Ref No.: S21-005 , T190390
Sheet: 15 of 35
Approved by: Nisanka Mahamithawa
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APA GAS MAIN LONG SECTION DETAIL
BELOW



VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 44.5

DESIGN CENTRELINE	263.265	50.708	50.382	48.784
EXISTING SURFACE	263.498	50.715	50.384	48.788
FINISHED SURFACE	263.732	50.722	50.385	48.784
CHAINAGE	263.848	50.752	50.391	48.766
	274.158	50.714	50.365	48.780
	280.000	50.755	50.341	48.780
	284.713	50.809	50.320	48.780
	285.993	50.791	50.315	48.780

APA 762mm(OD) GAS PIPE LONGITUDINAL SECTION

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	B.W	04/05/22
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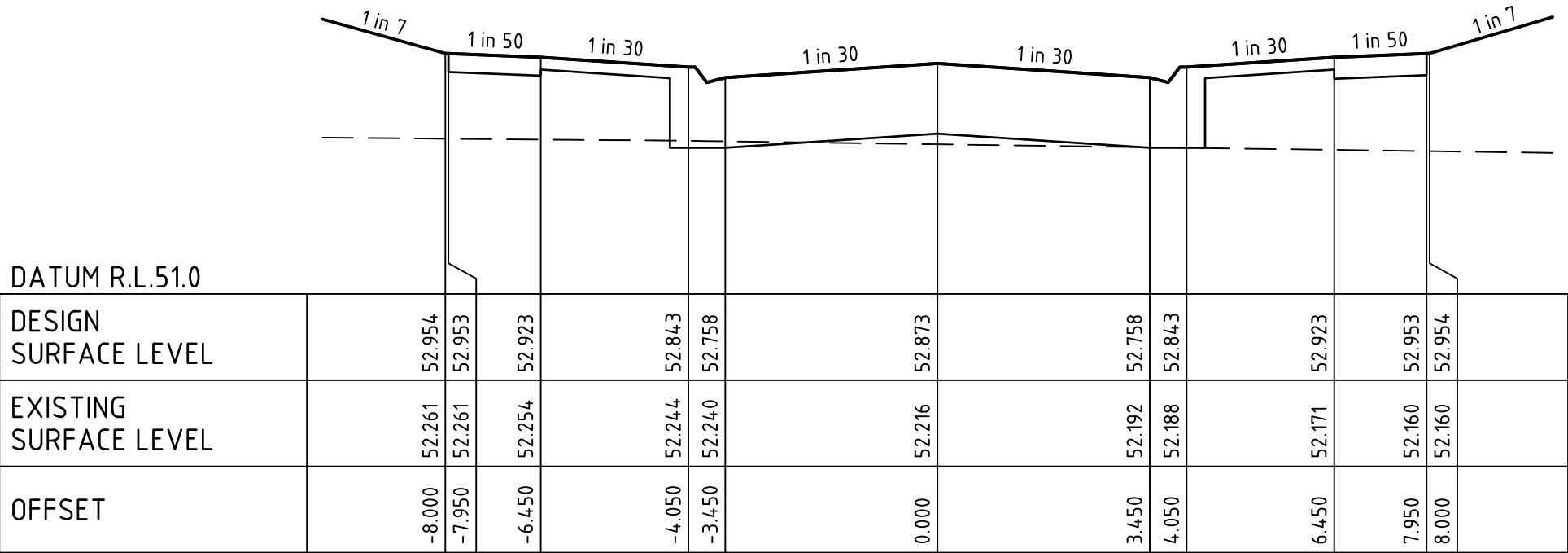
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Designed
A.CHARALAMBOUS
Checked
B.WAREHAM
Date
19/11/2021

OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 6
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD
PRELIMINARY Drg No 308003CR405 Rev 0

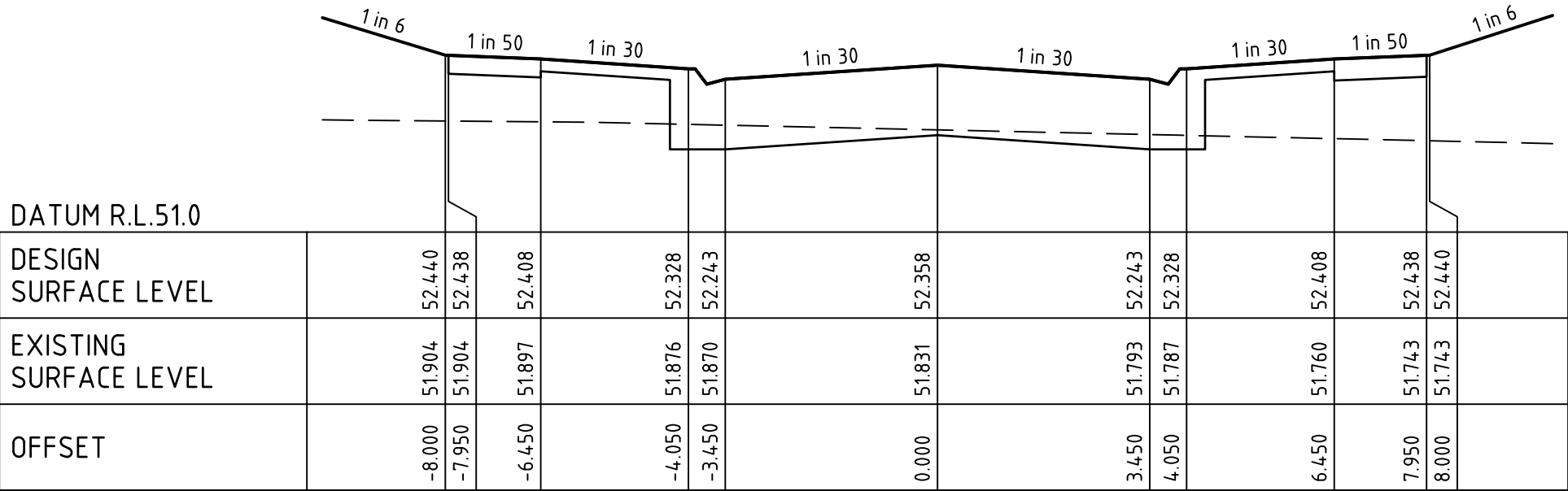
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ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED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

APPROVED FOR CONSTRUCTION
CARDINIA SHIRE COUNCIL
Ref No.: S21-005 , T190390
Sheet: 16 of 35
Approved by: Nisanka Mahamithawa
CARDINIA SHIRE COUNCIL
Date: Tuesday, 28 June 2022



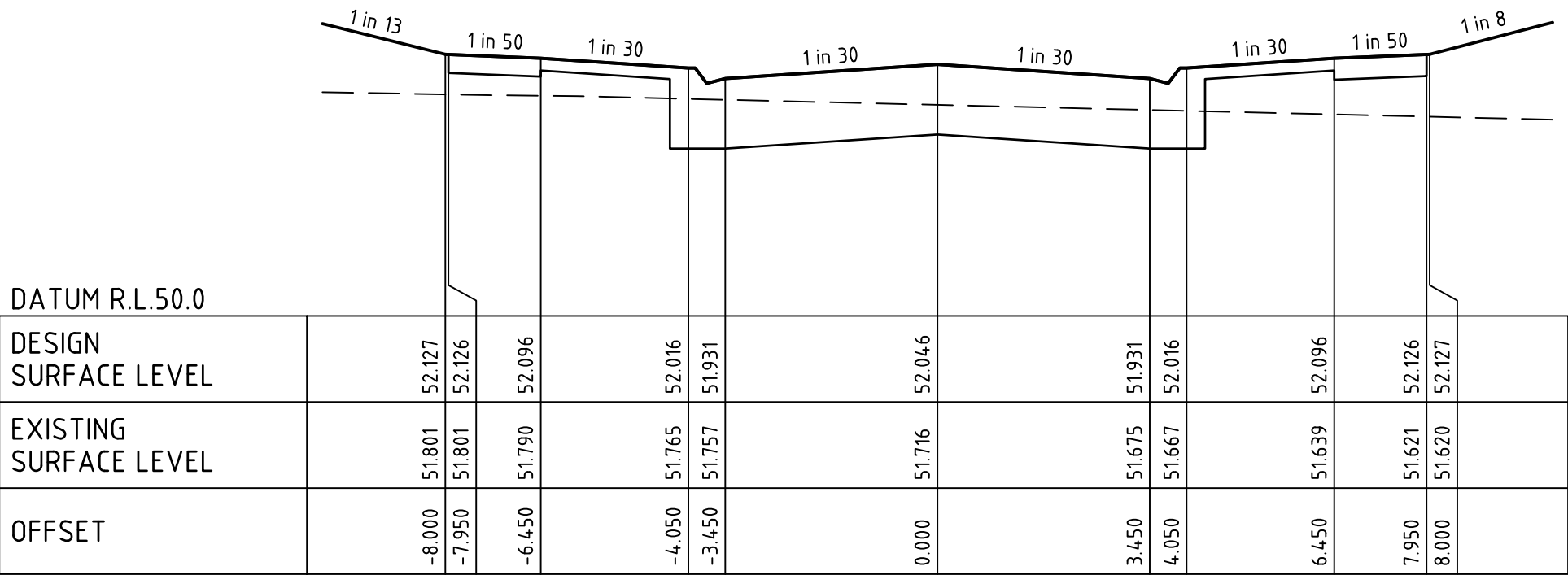
JOWETT RISE

CH 75.00



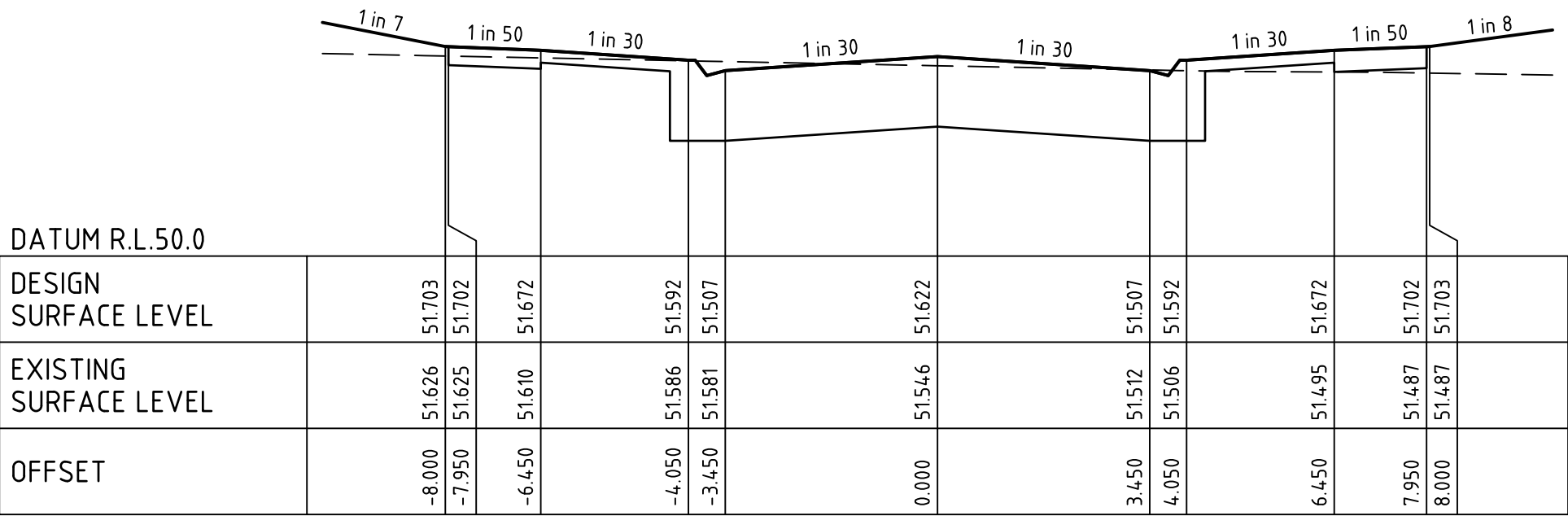
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CH 61.00



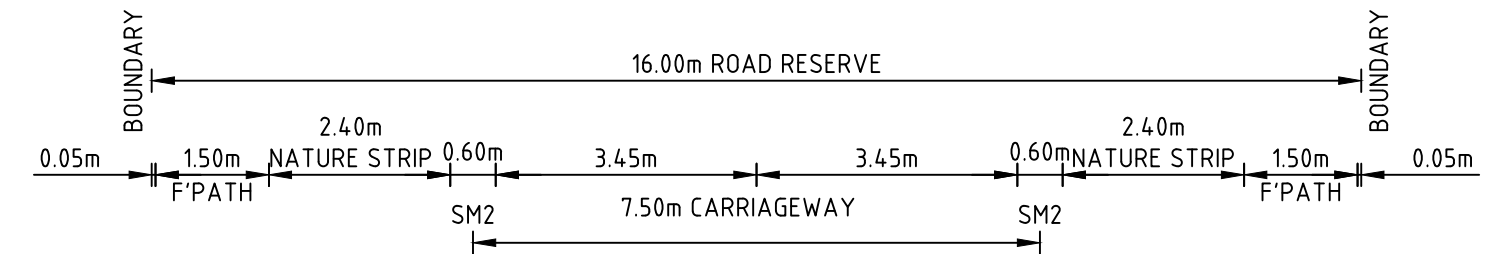
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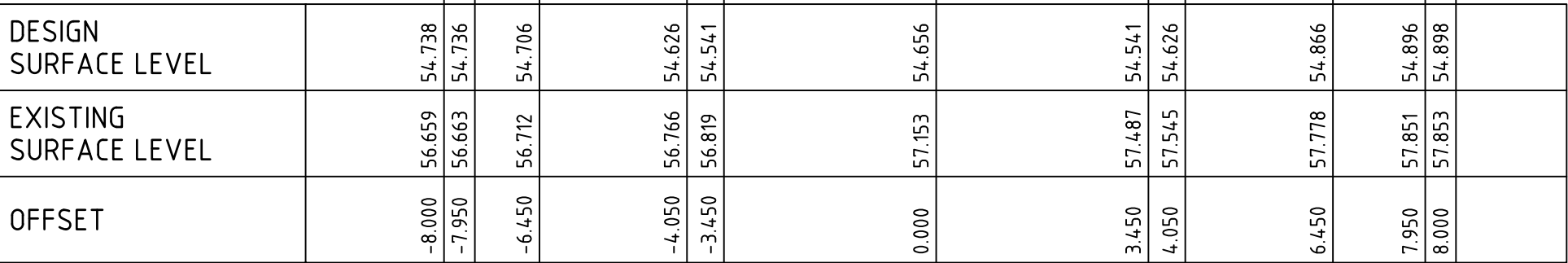


JOWETT RISE

CH 12.05

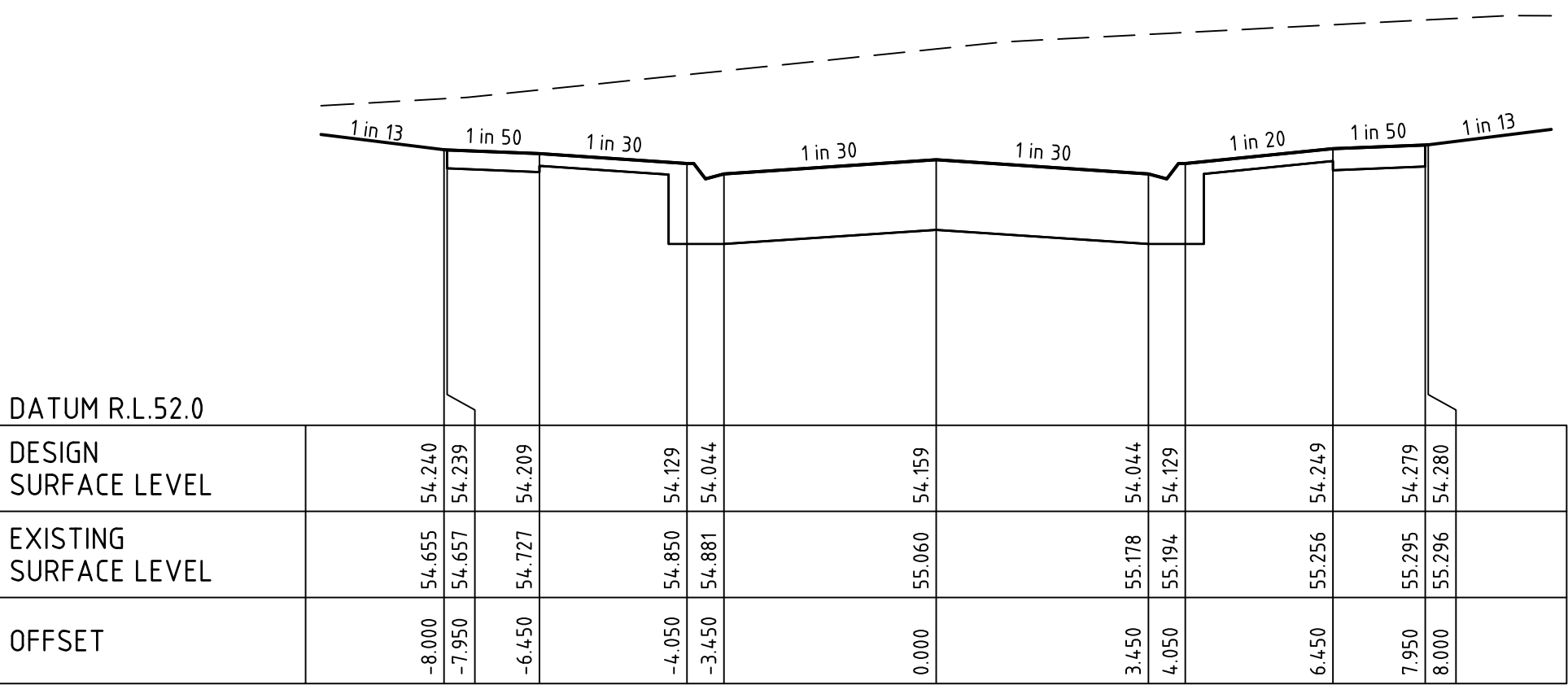


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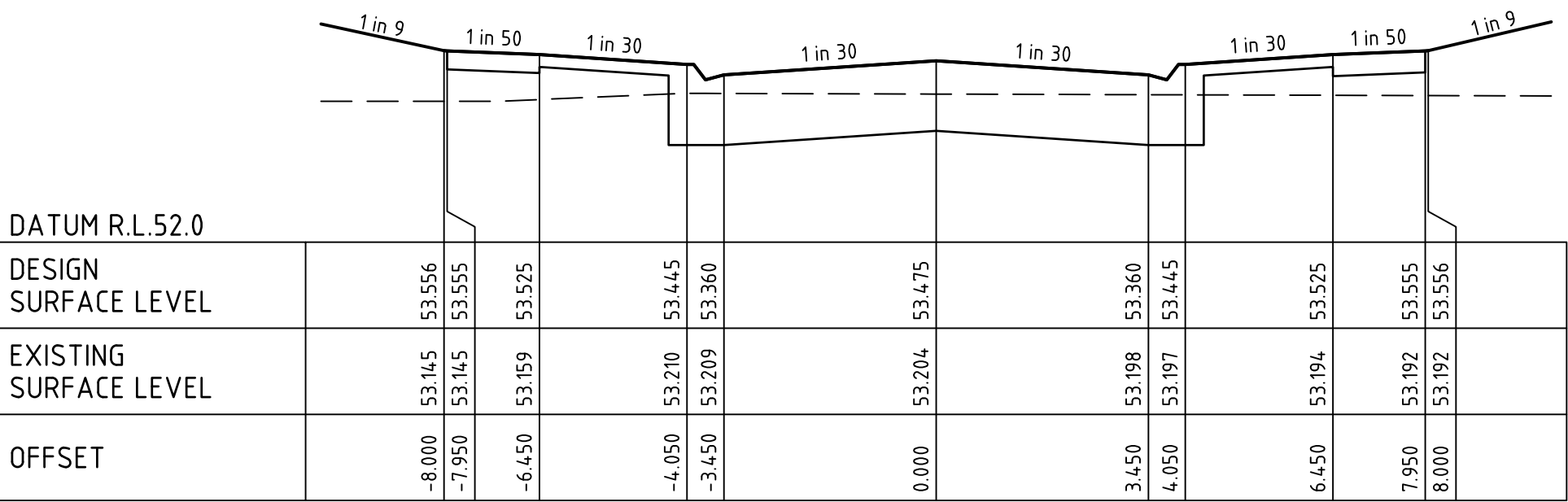
JOWETT RISE

CH 118.12



JOWETT RISE

CH 105.00

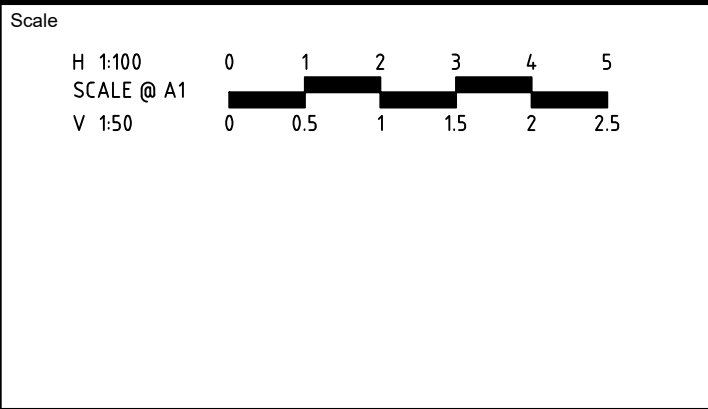


JOWETT RISE

CH 89.00

file name: 308003CR400.dwg, layout name: CR406, plotted by: Luke Russell, file location: G:\308003\CR406\ACAD\plot date: 01/05/2022, 2:46 PM, Sheet: 16 of 35, Sheets

0	ISSUED FOR CONSTRUCTION	B.W.	04/05/22		
B	ISSUED TO COUNCIL	B.W.	01/12/21		
A	PRELIMINARY ISSUE	B.W.	19/11/21		
Rev	Amendments	Approved	Date		



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Designed
A.CHARALAMBOUS

Authorised
B.WAREHAM

Checked

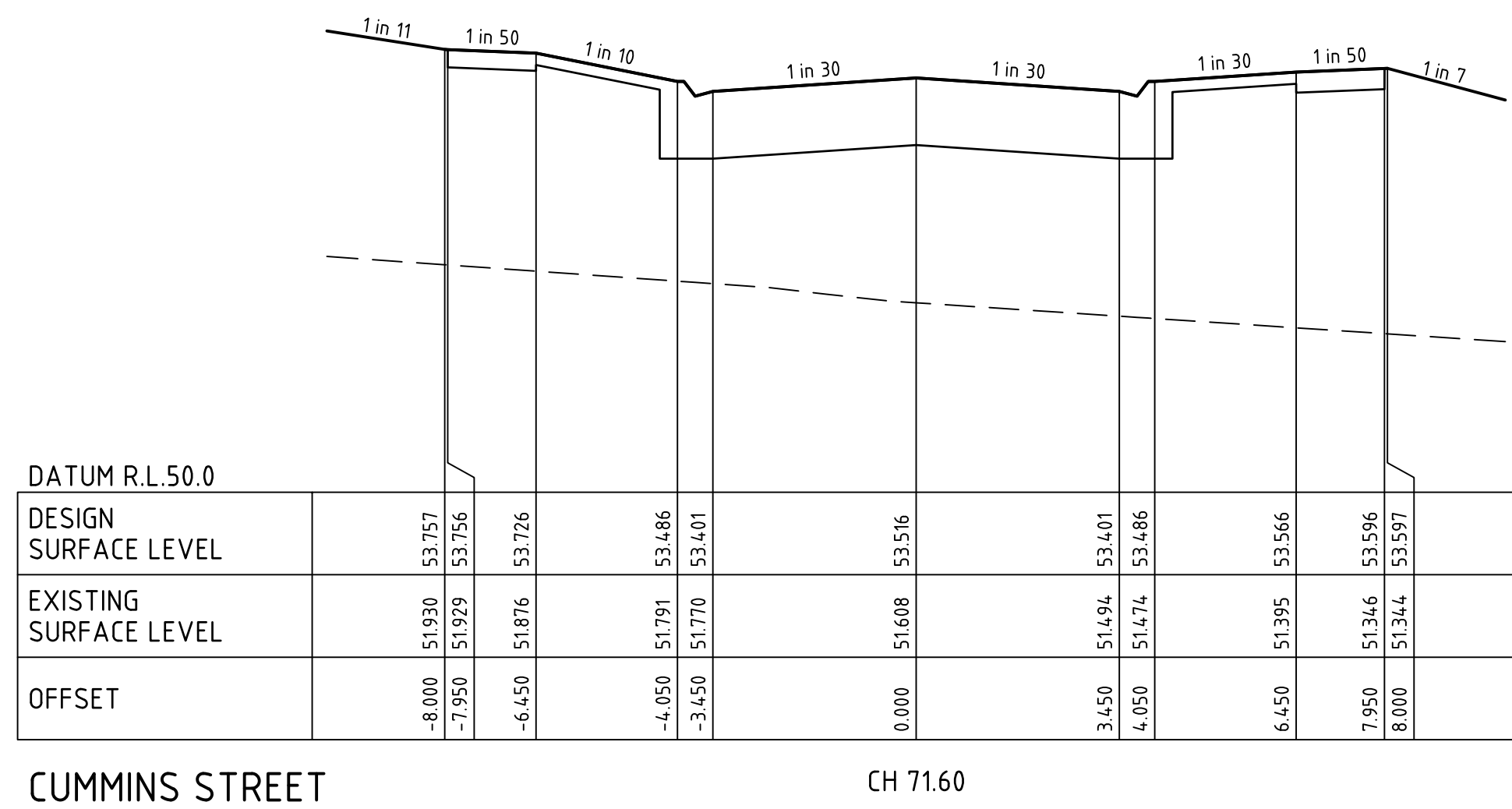
Date
19/11/2021

OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 7
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Drg No 308003CR406 Rev 0

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Ref No.: S21-005 , T190390
Sheet: 17 of 35
Approved by: Nisanka Mahamithawa
CARDINIA SHIRE COUNCIL
Date: Tuesday, 28 June 2022



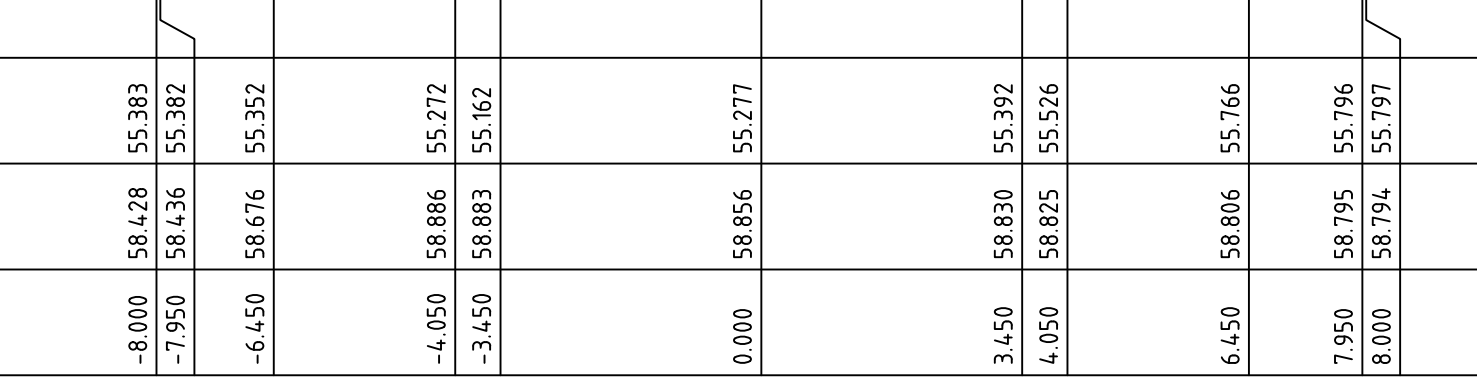
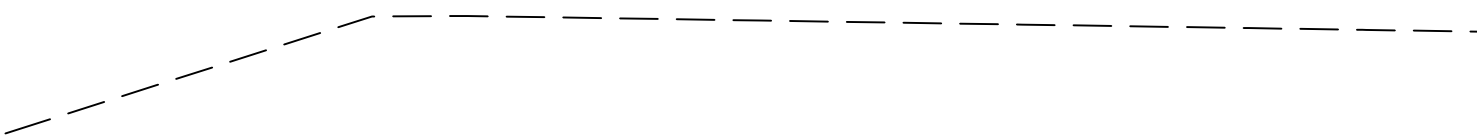
OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 8
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Drg No 308003CR407 Rev 0

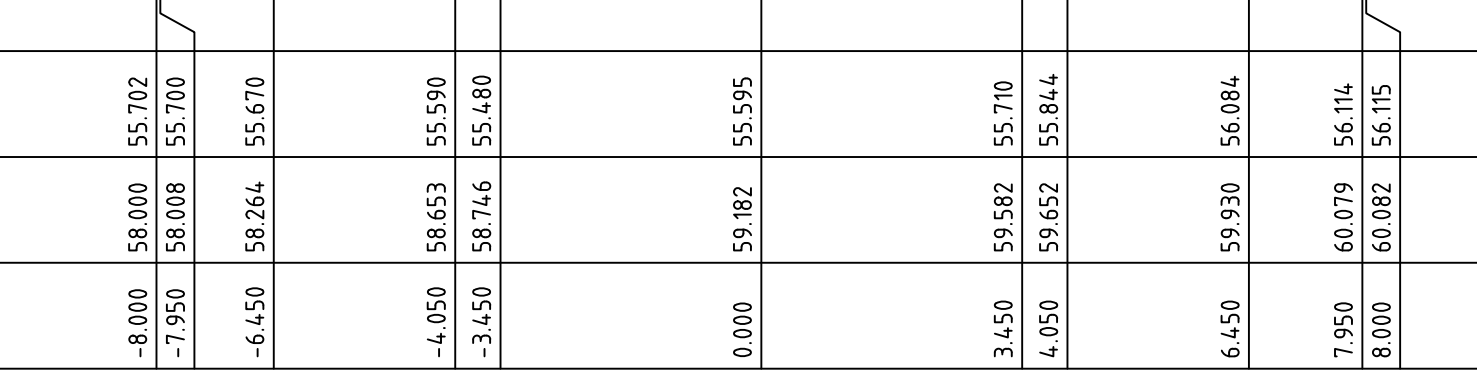
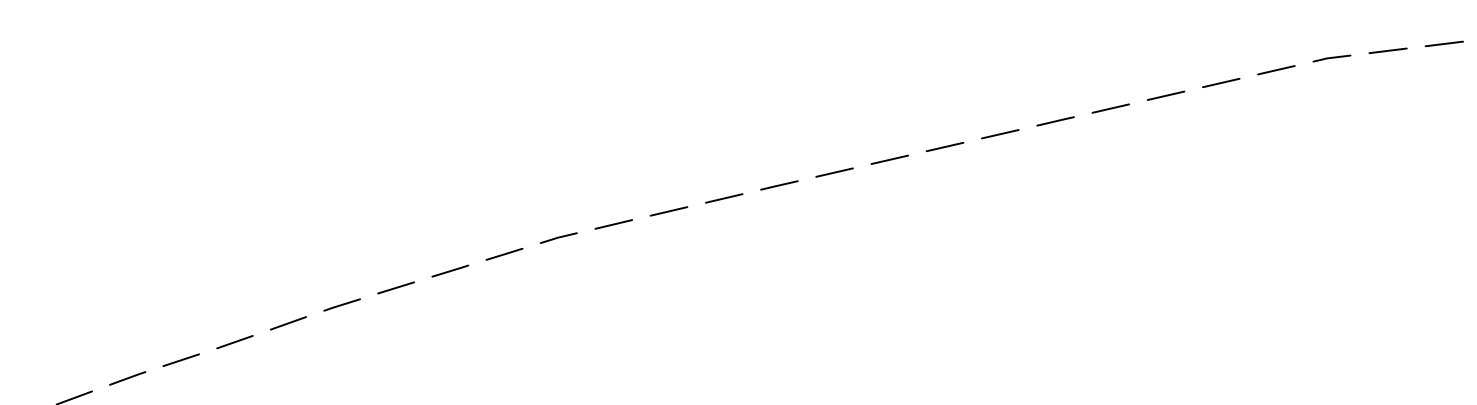
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CARDINIA SHIRE COUNCIL

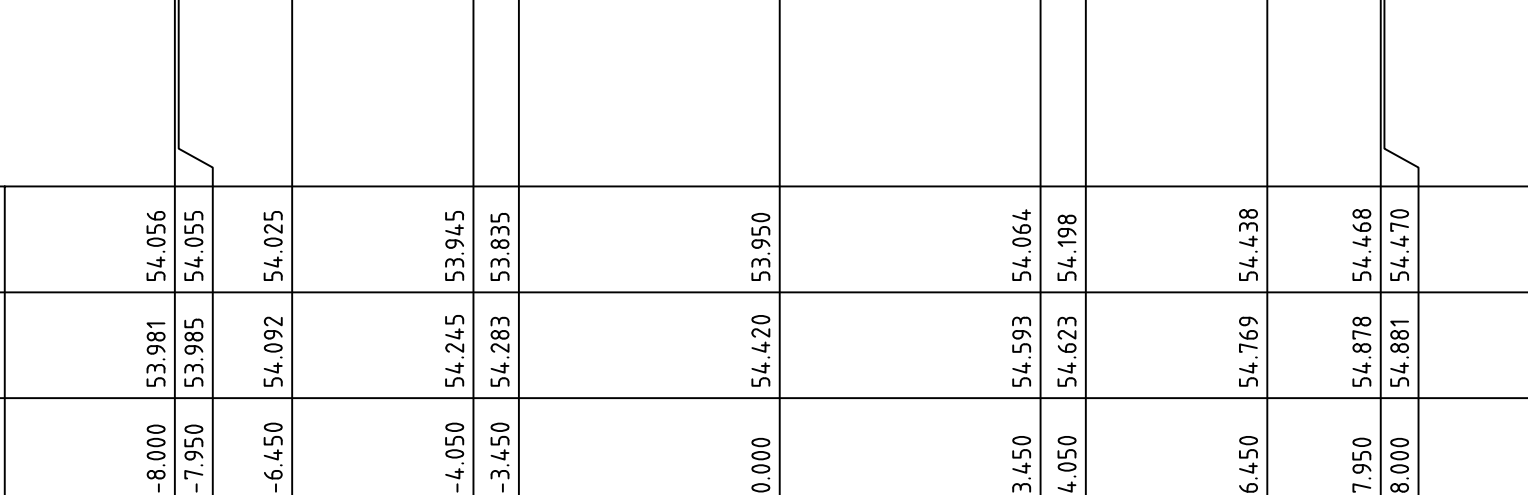
Ref No.: S21-005 , T190390
Sheet: 18 of 35
Approved by: Nisanka Mahamithawa
CARDINIA SHIRE COUNCIL
Date: Tuesday, 28 June 2022



CUMMINS STREET CH 172.99



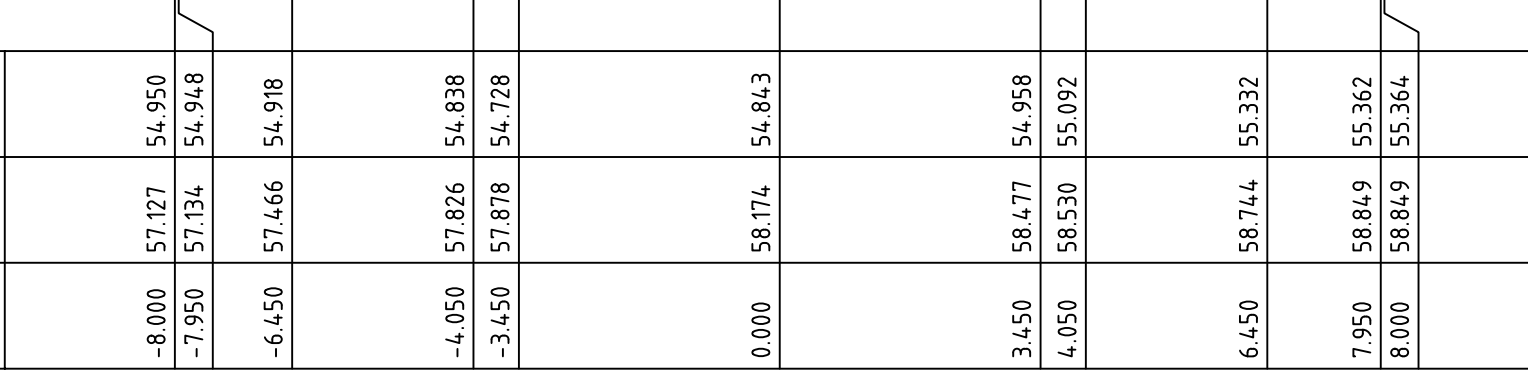
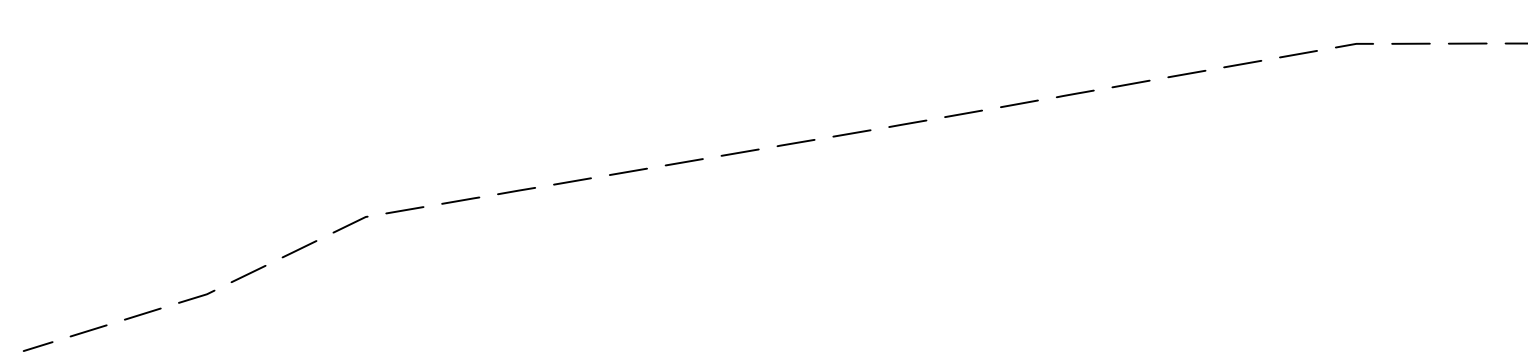
CUMMINS STREET CH 145.04



CUMMINS STREET CH 248.99



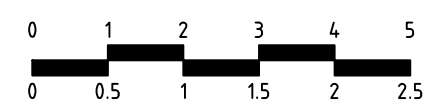
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CUMMINS STREET CH 197.09

0	ISSUED FOR CONSTRUCTION	B.W	04/05/22
C	UPDATES AS PER COUNCIL COMMENTS	B.W.	22/03/22
B	ISSUED TO COUNCIL	B.W.	01/12/21
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Rev	Amendments	Approved	Date

H 1:100
SCALE @ A1
V 1:50



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Designed
A.CHARALAMBOUS

Authorised
B.WAREHAM

Checked

Date
19/11/2021

OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 9
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Drg No **308003CR408**

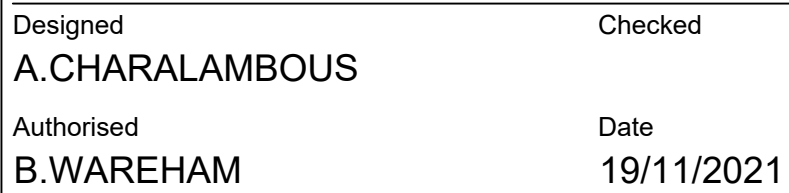
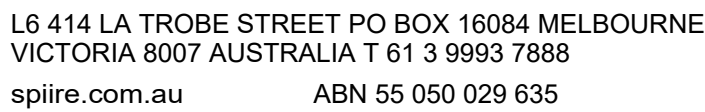
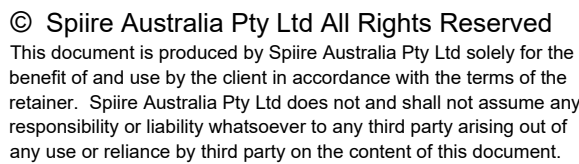
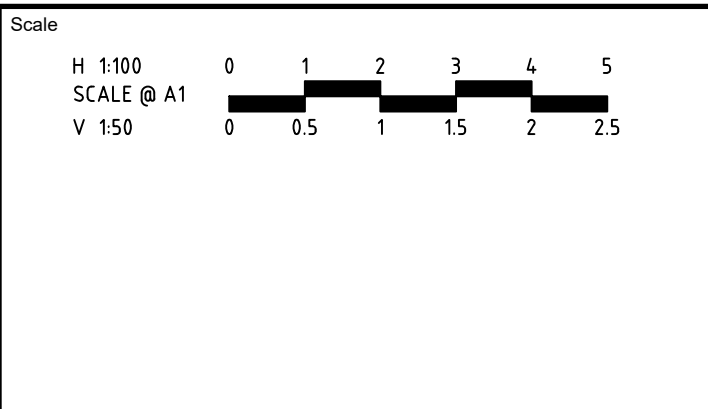
Rev
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ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED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

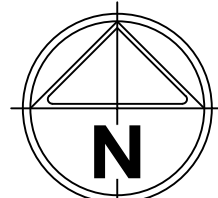


Ref No.: S21-005 , T190390
Sheet: 19 of 35
Approved by: Nisanka Mahamithawa
CARDINIA SHIRE COUNCIL
Date: Tuesday, 28 June 2022

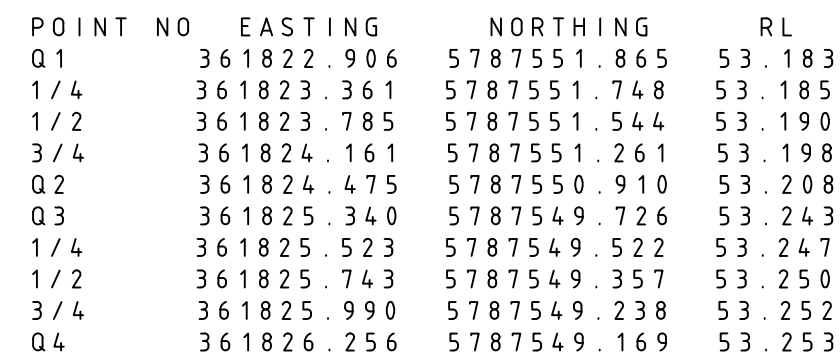
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B	ISSUED TO COUNCIL	B.W.	01/12/21
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Rev	Amendments	Approved	Date



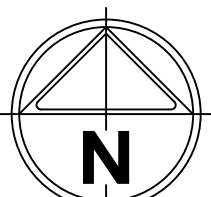
PRELIMINARY Drg No 308003CR409 Rev 0



MGA 2020
ZONE 55



CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
Q1-Q2	2.400	1.885	1.837	0.183	0.046
Q3-Q4	1.400	1.100	1.072	0.107	-0.027

MGA 2020
ZONE 55

Date: CARDINIA SHIRE COUNCIL
Tuesday, 28 June 2022

POINT NO	EASTING	NORTHING	RL
X1	361793.707	5787555.398	53.151
1/4	361797.081	5787555.165	53.169
1/2	361799.725	5787552.733	53.188
3/4	361801.237	5787549.475	53.198
X2	361801.385	5787545.885	53.180

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
X1-X2	9.200	14.462	13.018	2.698	0.701

POINT NO	EASTING	NORTHING	RL
Y1	361808.207	5787544.848	53.409
1/4	361809.441	5787548.216	53.353
1/2	361811.870	5787550.855	53.271
3/4	361815.124	5787552.366	53.199
Y2	361818.708	5787552.517	53.174

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
Y1-Y2	9.200	14.441	13.003	2.691	0.699

POINT NO	EASTING	NORTHING	RL
AA1	361805.794	5787473.786	52.369
1/4	361802.644	5787474.942	52.407
1/2	361800.175	5787477.215	52.488
3/4	361798.765	5787480.259	52.582
AA2	361798.627	5787483.612	52.658

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
AA1-AA2	8.600	13.509	12.162	2.519	0.655

POINT NO	EASTING	NORTHING	RL
BB1	361794.902	5787459.802	52.210
1/4	361796.057	5787462.952	52.260
1/2	361798.330	5787465.420	52.303
3/4	361801.375	5787466.831	52.339
BB2	361804.727	5787466.969	52.369

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
BB1-BB2	8.600	13.509	12.162	2.519	0.655



VERTICAL GEOMETRY



VERTICAL GEOMETRY

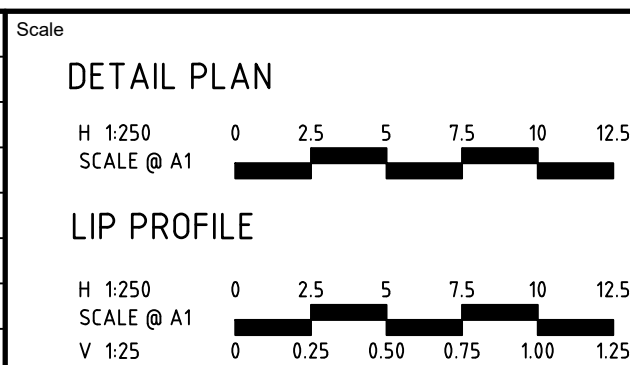


VERTICAL GEOMETRY



VERTICAL GEOMETRY

0	ISSUED FOR CONSTRUCTION	B.W	04/05/22
C	UPDATES AS PER COUNCIL COMMENTS	B.W.	22/03/22
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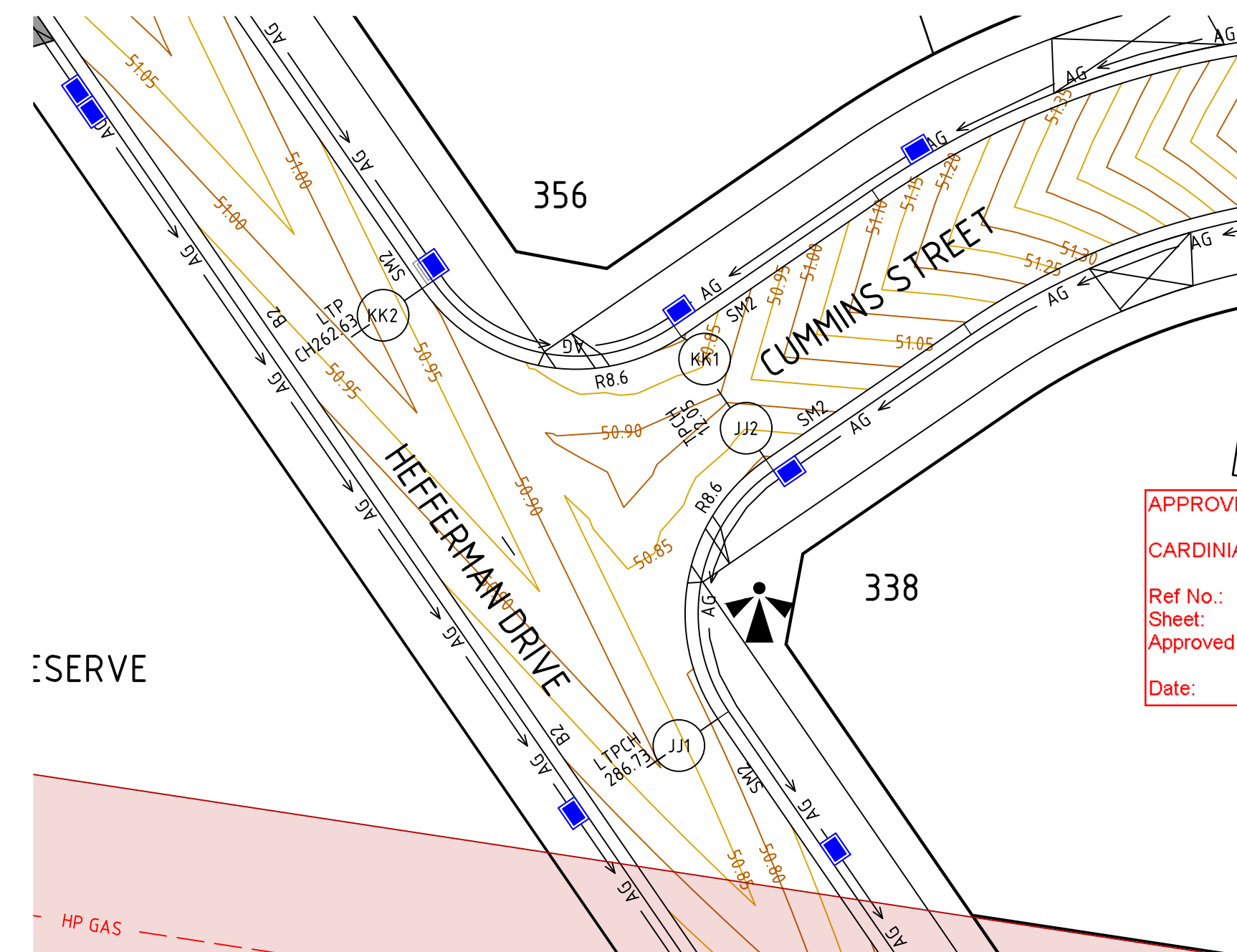
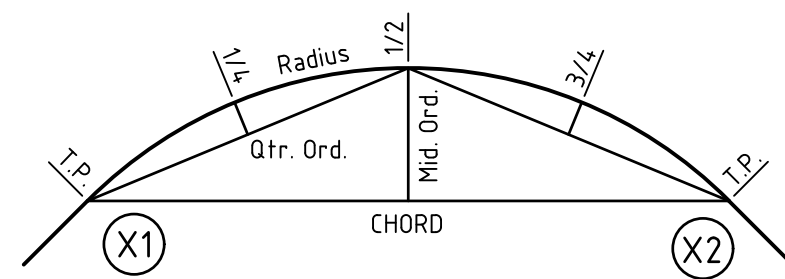
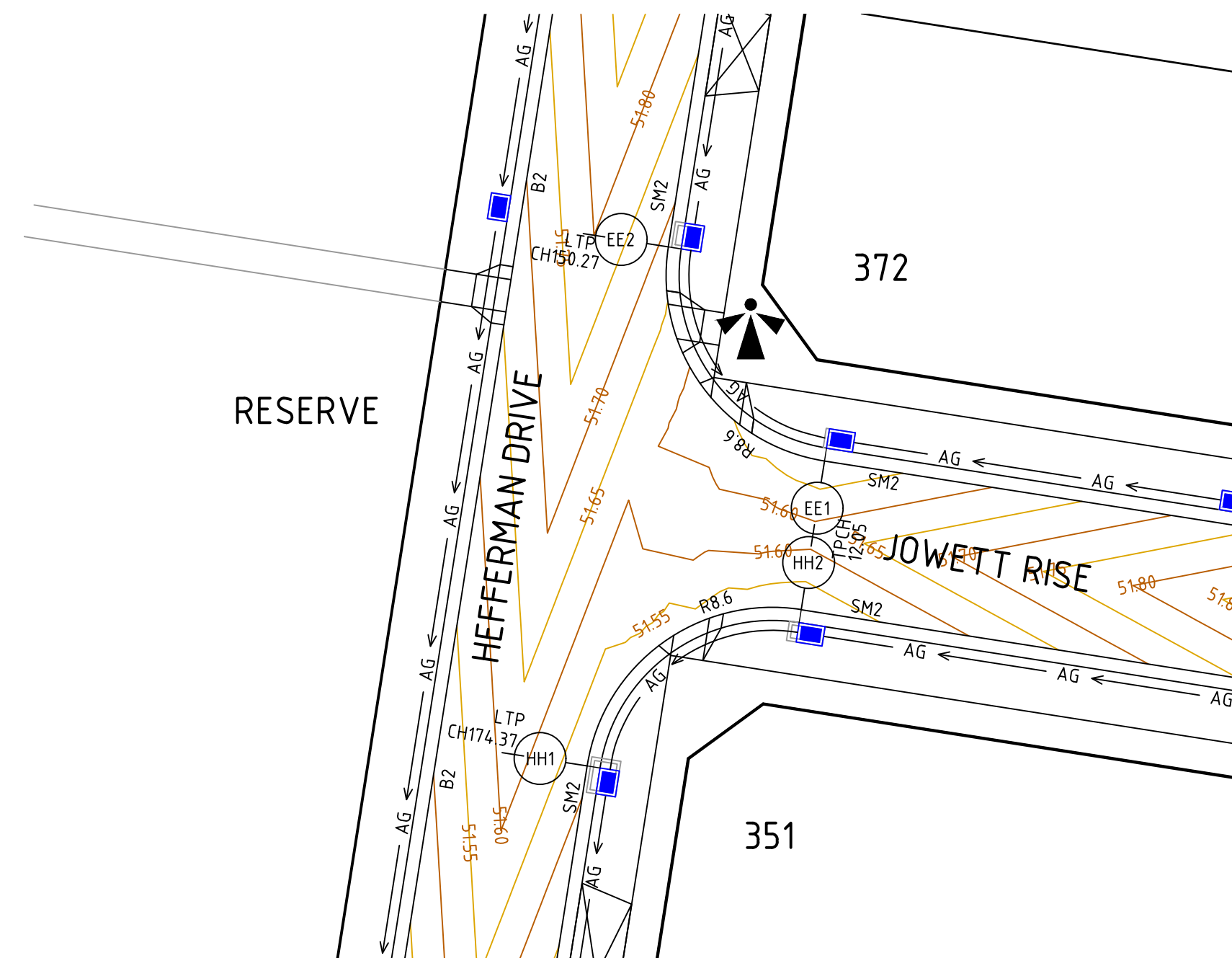
Checked

Date
19/11/2021

**OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 1
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD**

PRELIMINARY Drg No **308003CR500**

0



APPROVED FOR CONSTRUCTION
CARDINIA SHIRE COUNCIL
Ref No.: S21-005 T190390
Sheet: 21 of 35
Approved by: Nisanka Mahamithawa
CARDINIA SHIRE COUNCIL
Date: Tuesday, 28 June 2022

ALIGNMENT EE

POINT NO	EASTING	NORTHING	RL
EE1	361794.047	5787398.699	51.507
1/4	361790.897	5787399.855	51.535
1/2	361788.428	5787402.128	51.582
3/4	361787.018	5787405.173	51.637
EE2	361786.880	5787408.525	51.685

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
EE1-EE2	8.600	13.509	12.162	2.519	0.655

ALIGNMENT HH

POINT NO	EASTING	NORTHING	RL
HH1	361783.154	5787384.715	51.511
1/4	361784.310	5787387.865	51.535
1/2	361786.583	5787390.334	51.542
3/4	361789.628	5787391.744	51.523
HH2	361792.980	5787391.882	51.507

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
HH1-HH2	8.600	13.509	12.162	2.519	0.655

ALIGNMENT JJ

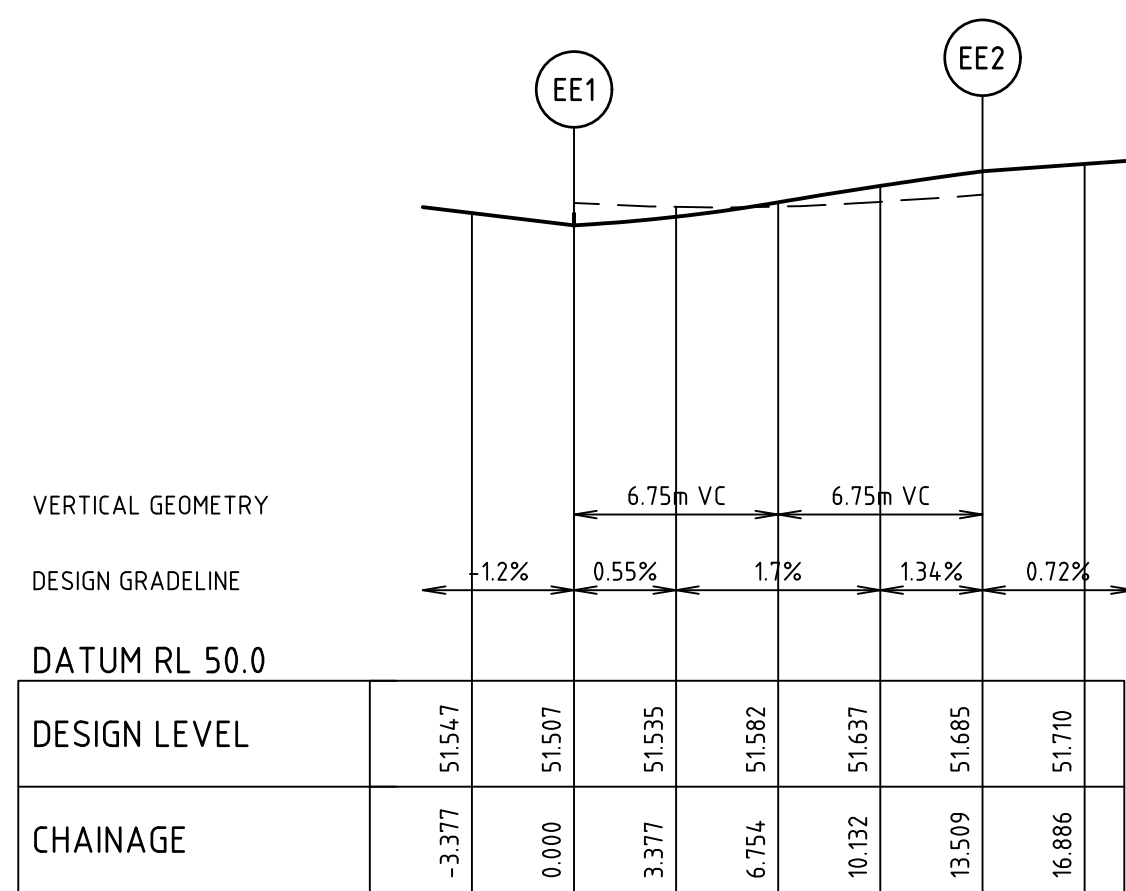
POINT NO	EASTING	NORTHING	RL
JJ1	361801.707	5787284.037	50.787
1/4	361800.383	5787287.120	50.804
1/2	361800.340	5787290.475	50.817
3/4	361801.585	5787293.592	50.810
JJ2	361803.927	5787295.994	50.793

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
JJ1-JJ2	8.600	13.509	12.162	2.519	0.655

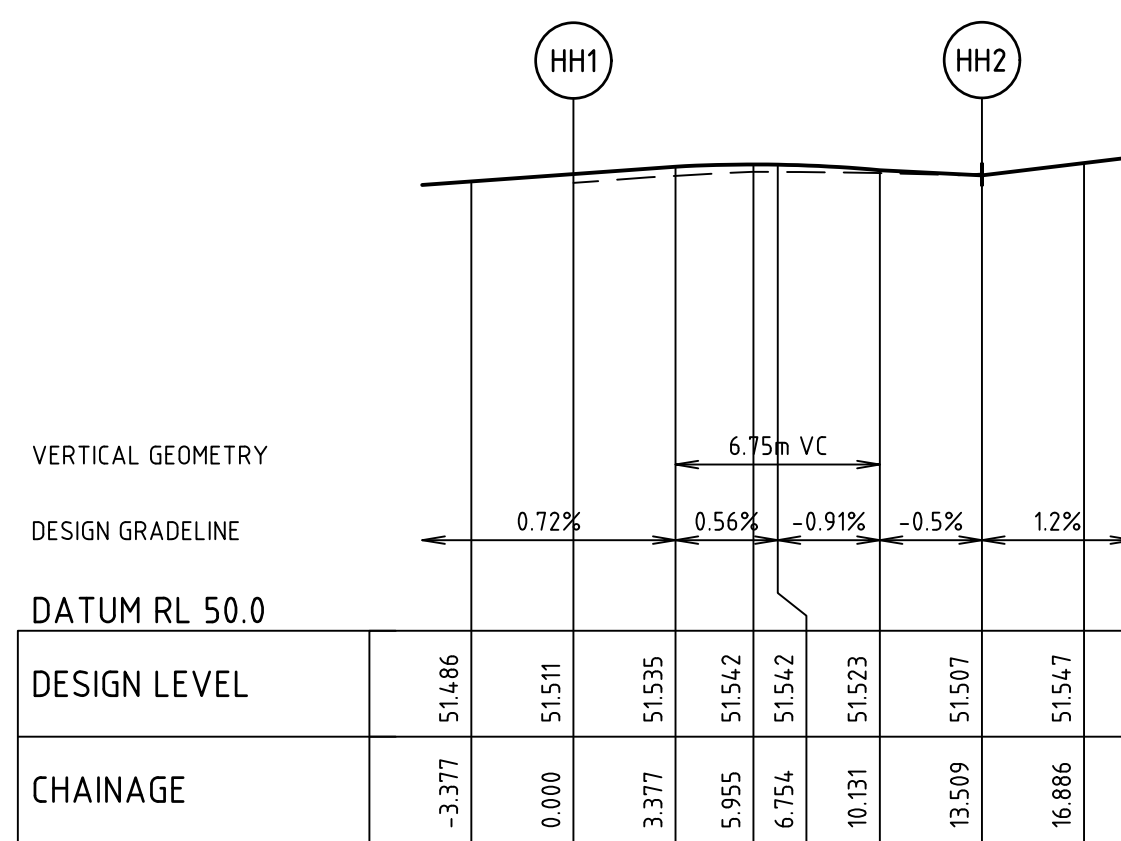
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POINT NO	EASTING	NORTHING	RL
KK1	361800.021	5787301.682	50.793
1/4	361796.937	5787300.359	50.810
1/2	361793.582	5787300.316	50.843
3/4	361790.466	5787301.560	50.875
KK2	361788.063	5787303.903	50.908

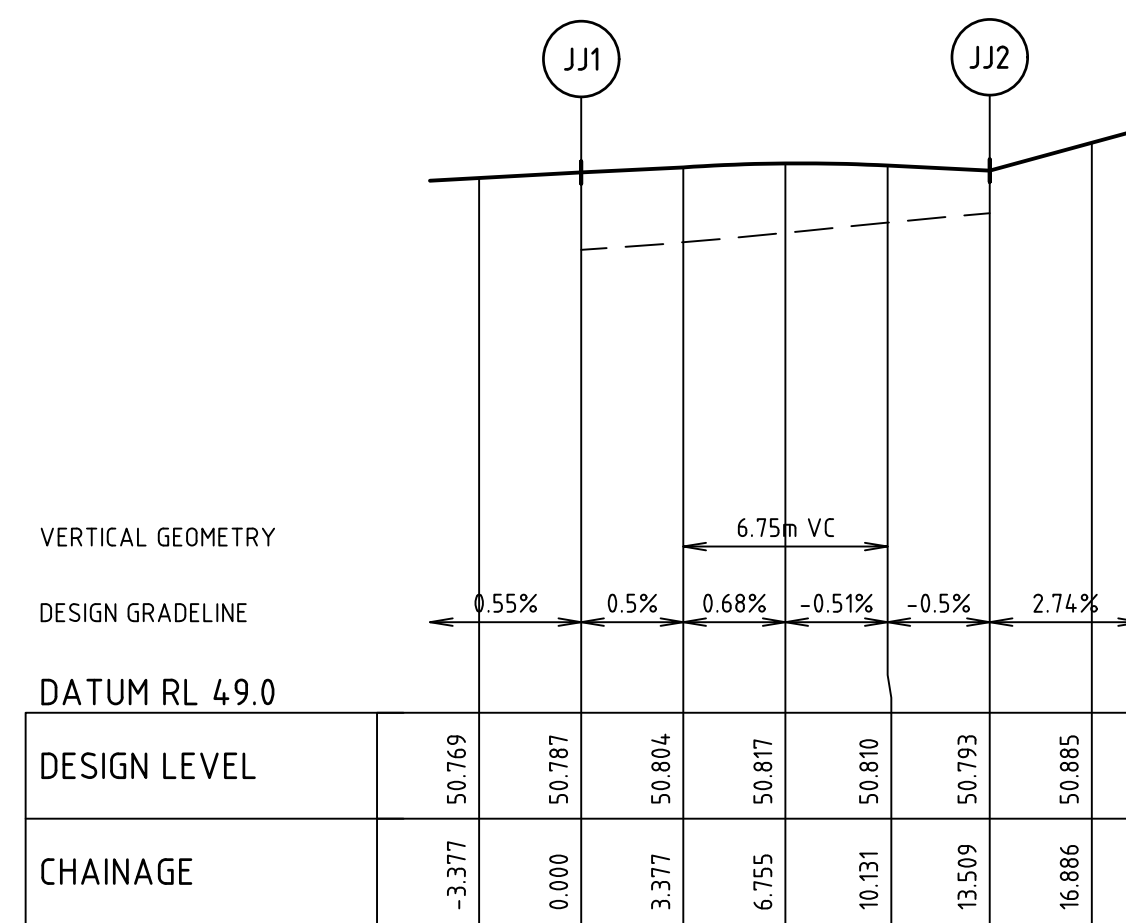
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KK1-KK2	8.600	13.509	12.162	2.519	0.655



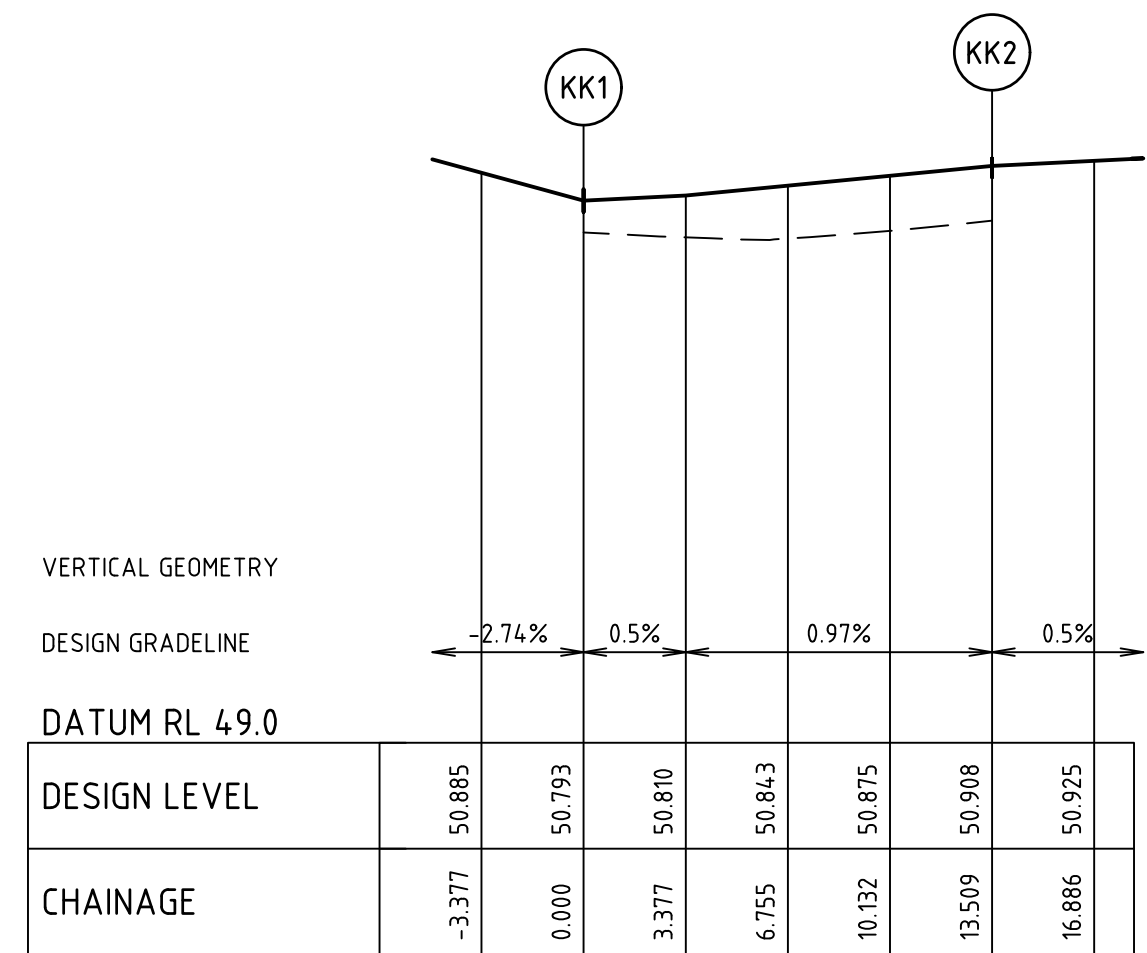
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ALIGNMENT HH



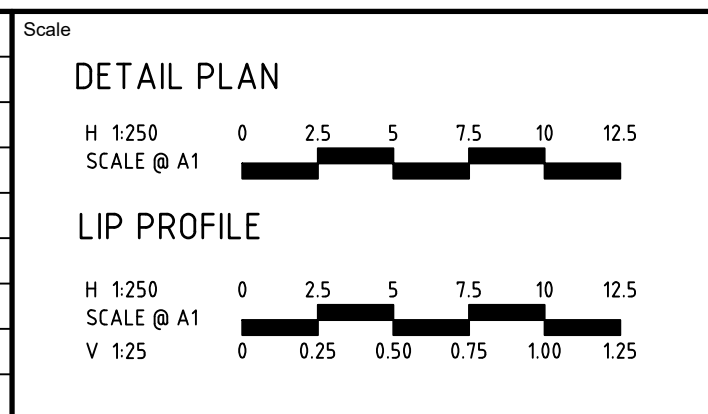
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ALIGNMENT KK

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Rev	Amendments	Approved	Date
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A	PRELIMINARY ISSUE	B.W.	19/11/21



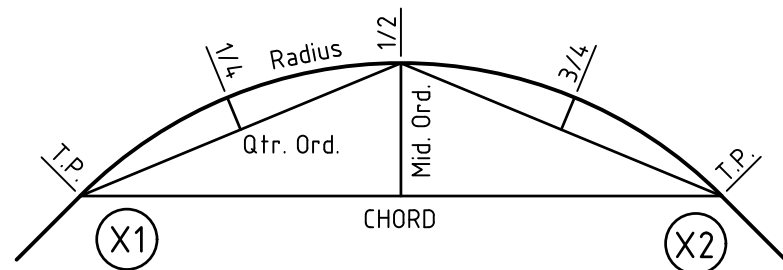
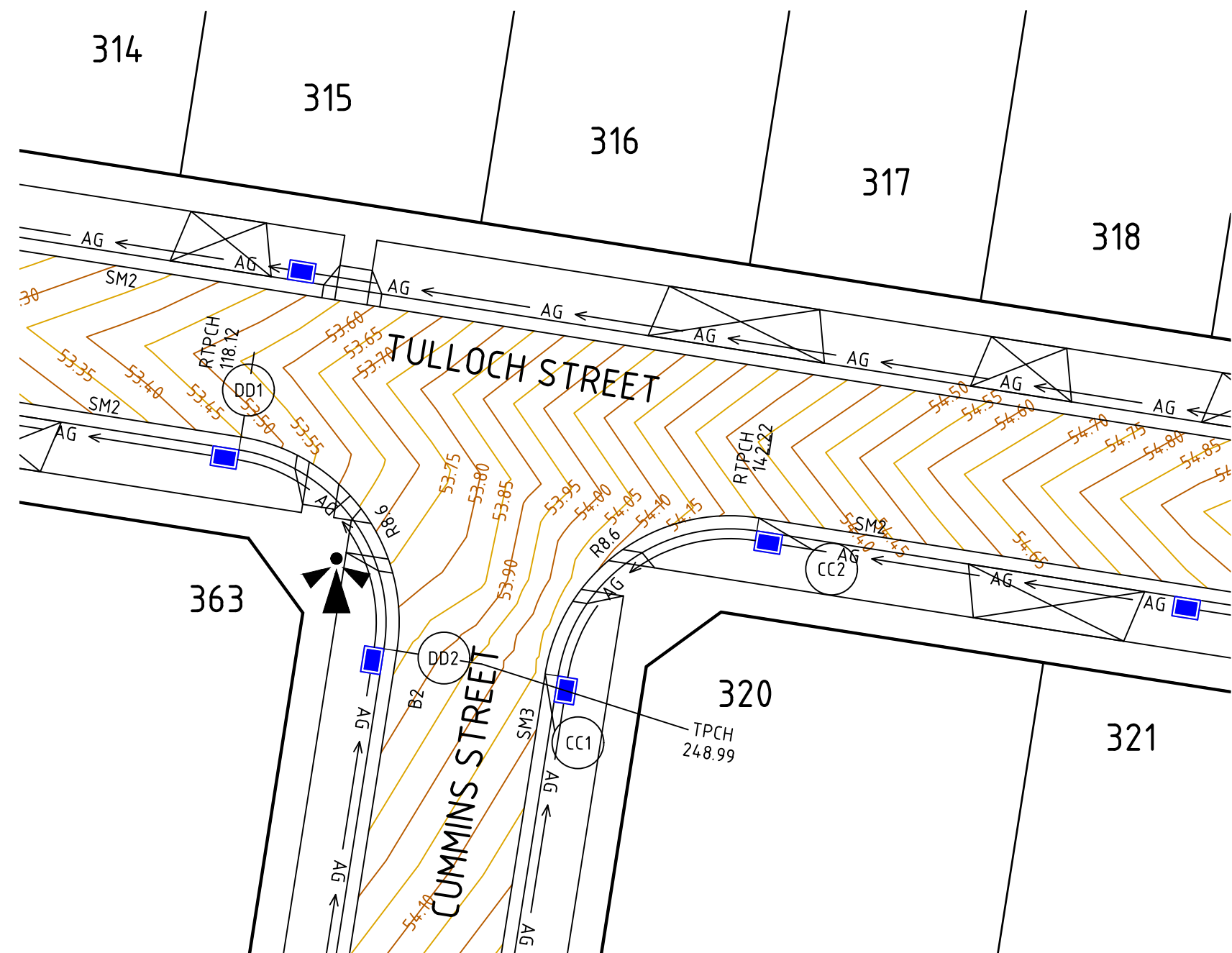
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OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 2
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY 308003CR501 0



KERB RETURN SETOUT DETAIL

ALIGNMENT FF

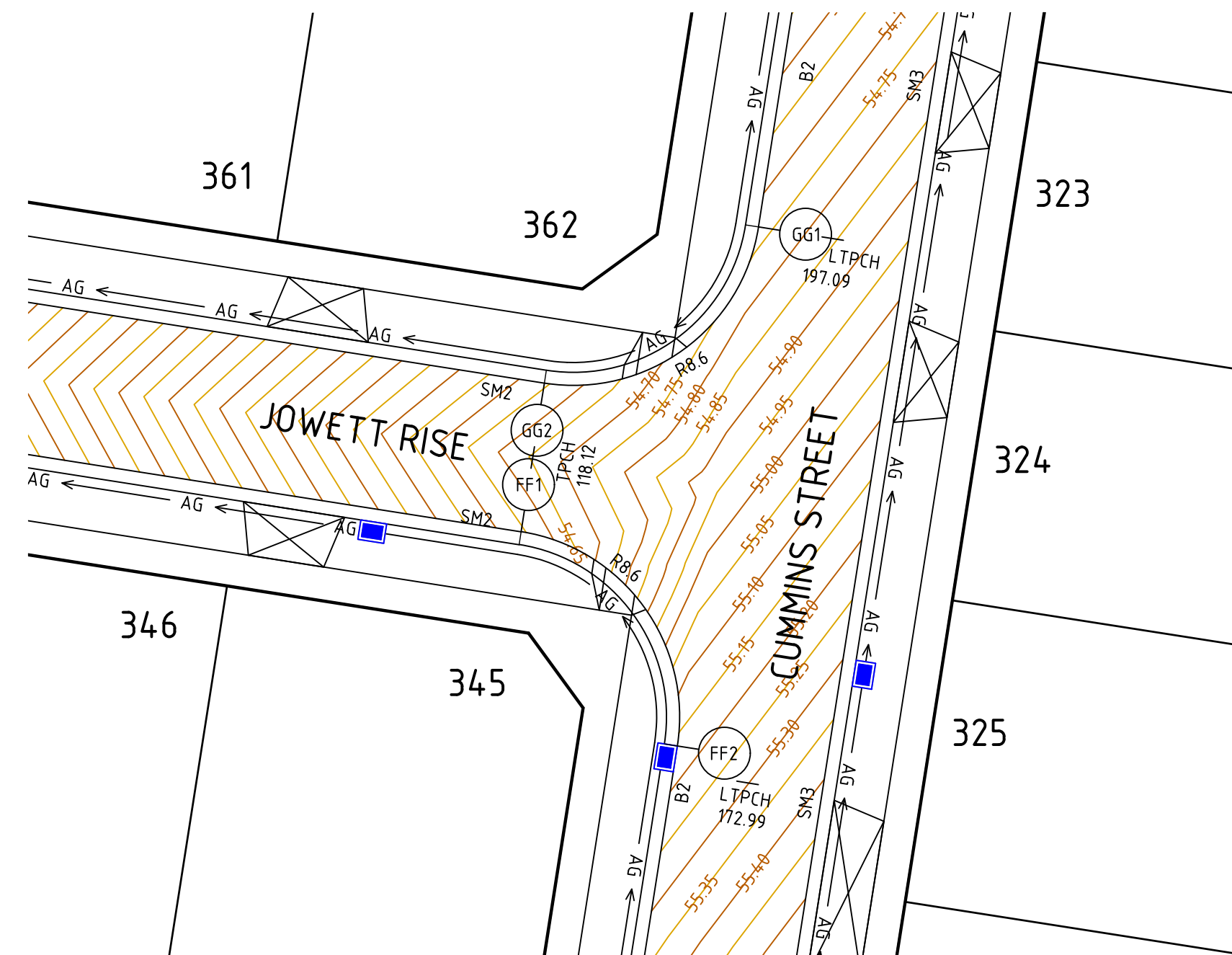
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1/2	361903.394	5787372.059	54.880
3/4	361904.805	5787369.014	55.061
FF2	361904.943	5787365.662	55.162

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
FF1-FF2	8.600	13.509	12.162	2.519	0.655

ALIGNMENT GG

POINT NO	EASTING	NORTHING	RL
GG1	361908.668	5787389.472	54.728
1/4	361907.513	5787386.322	54.757
1/2	361905.240	5787383.853	54.724
3/4	361902.195	5787382.443	54.646
GG2	361898.842	5787382.305	54.541

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
GG1-GG2	8.600	13.509	12.162	2.519	0.655



ALIGNMENT CC

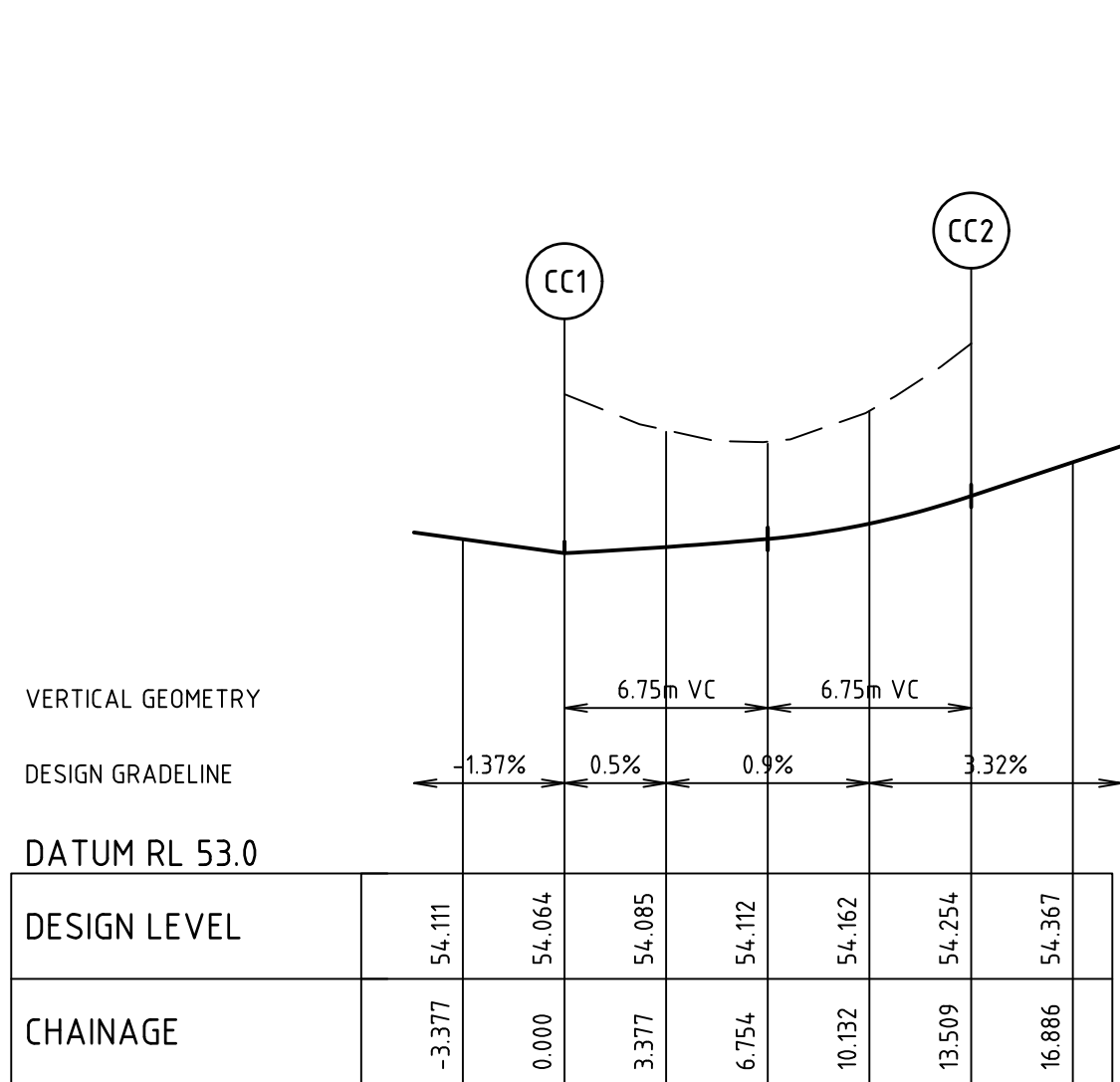
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1/4	361924.663	5787442.832	54.085
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3/4	361929.980	5787446.711	54.162
CC2	361933.333	5787446.849	54.254

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
CC1-CC2	8.600	13.509	12.162	2.519	0.655

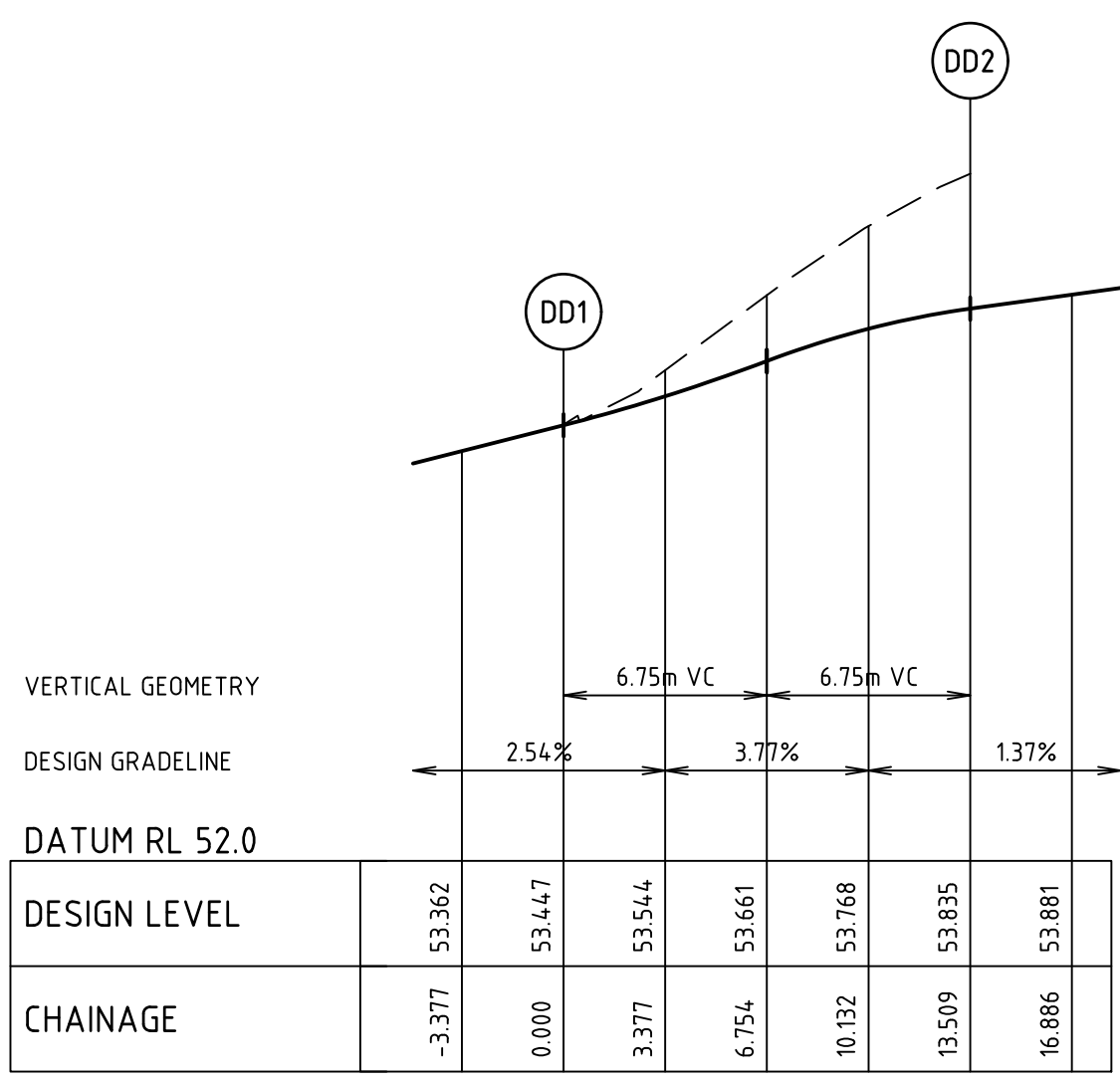
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1/2	361915.141	5787447.146	53.661
3/4	361916.552	5787444.101	53.768
DD2	361916.690	5787440.748	53.835

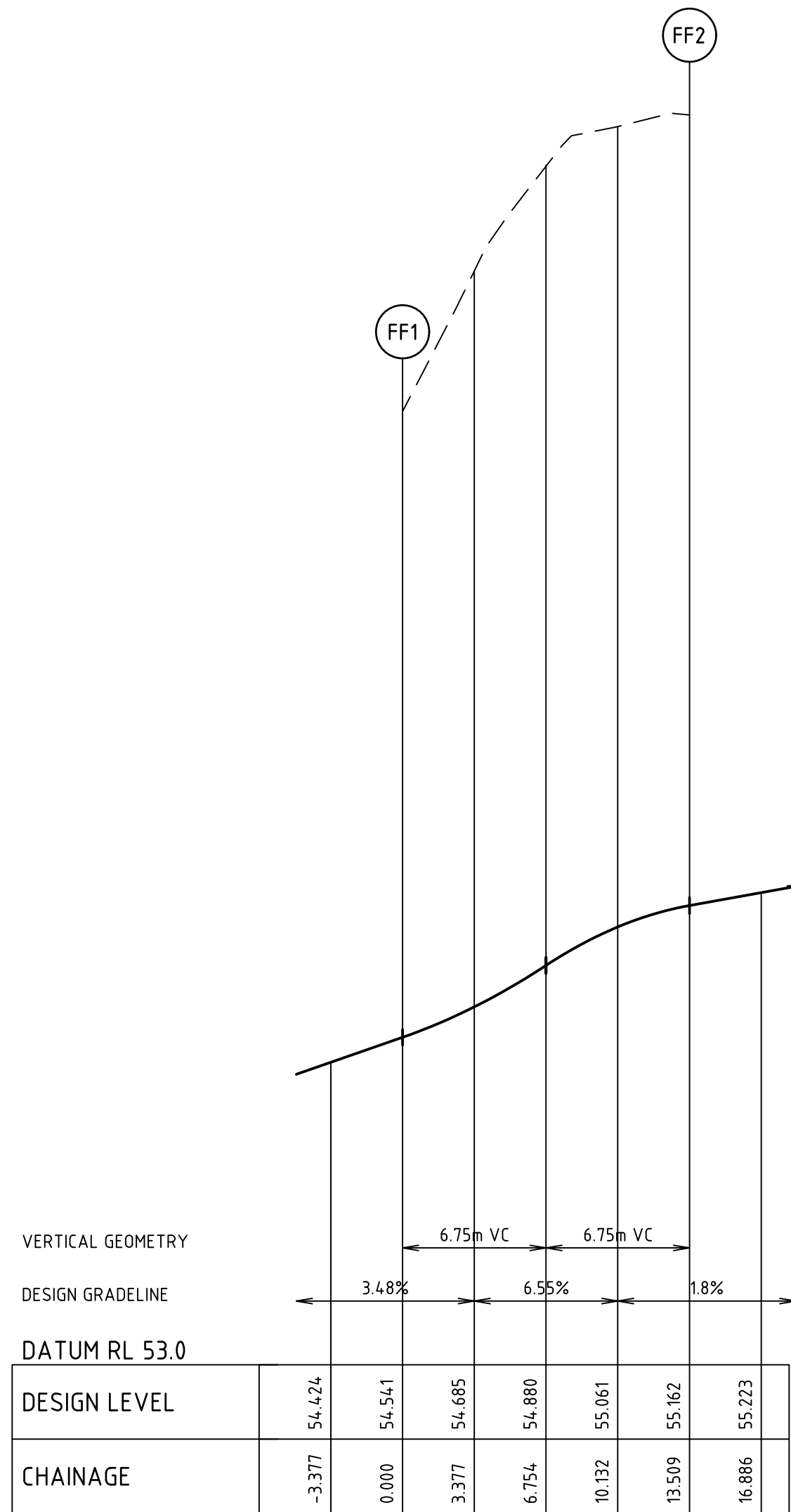
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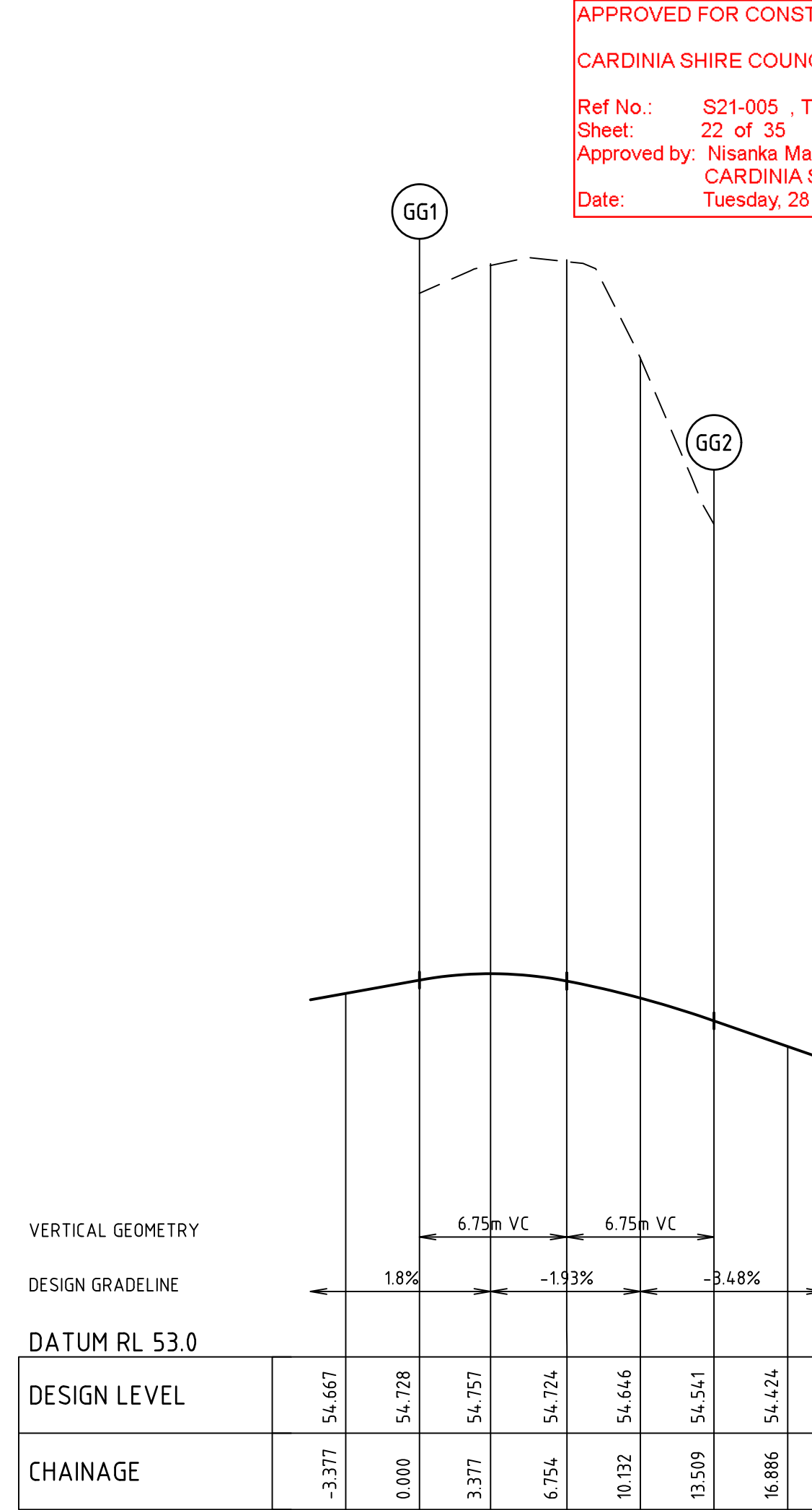
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ALIGNMENT DD



ALIGNMENT FF

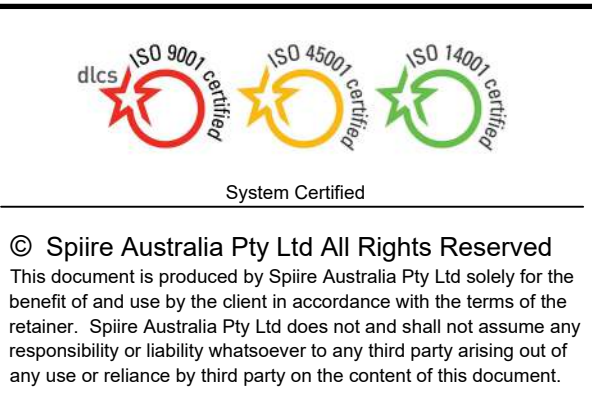
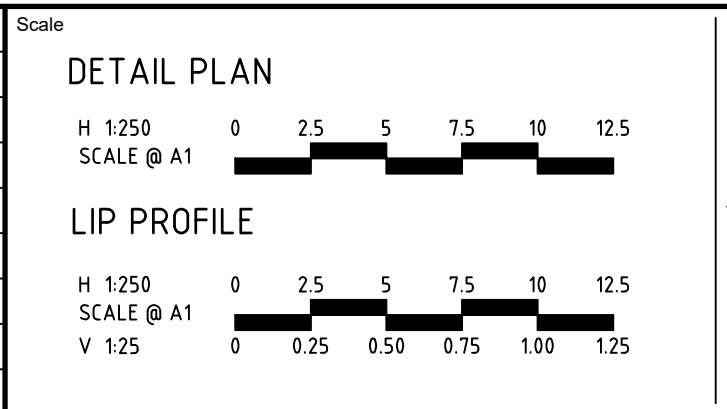


ALIGNMENT GG

APPROVED FOR CONSTRUCTION
CARDINIA SHIRE COUNCIL
Ref No.: S21-005, T190390
Sheet: 22 of 35
Approved by: Nisanka Mahamithawa
CARDINIA SHIRE COUNCIL
Date: Tuesday, 28 June 2022

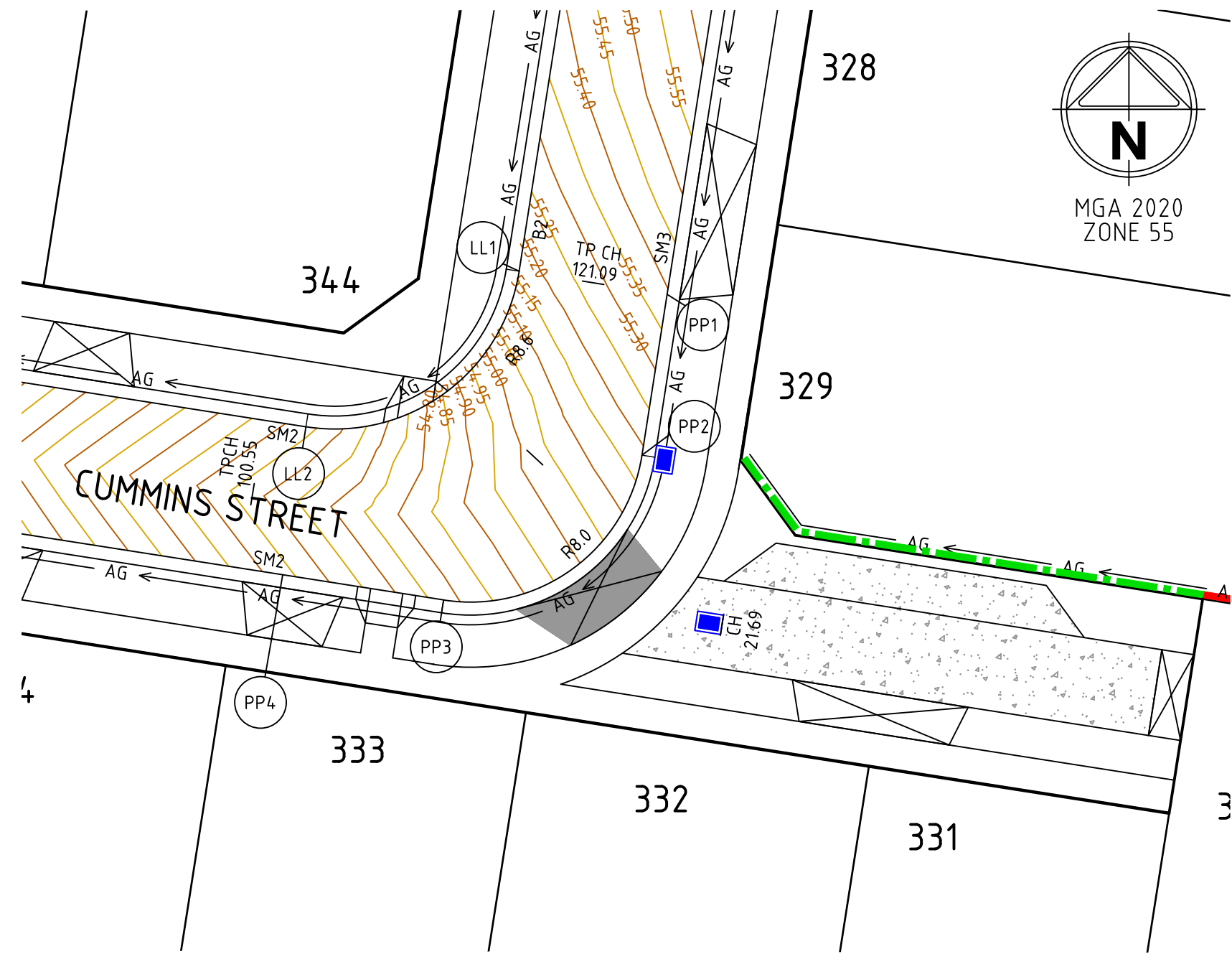
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Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	B.W.	04/05/22
B	ISSUED TO COUNCIL	B.W.	01/12/21
A	PRELIMINARY ISSUE	B.W.	19/11/21



Designed	Checked
A.CHARALAMBOUS	
Authorised	Date
B.WAREHAM	19/11/2021

OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 3
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD
PRELIMINARY
Drg No: 308003CR502
Rev: 0



ALIGNMENT LL

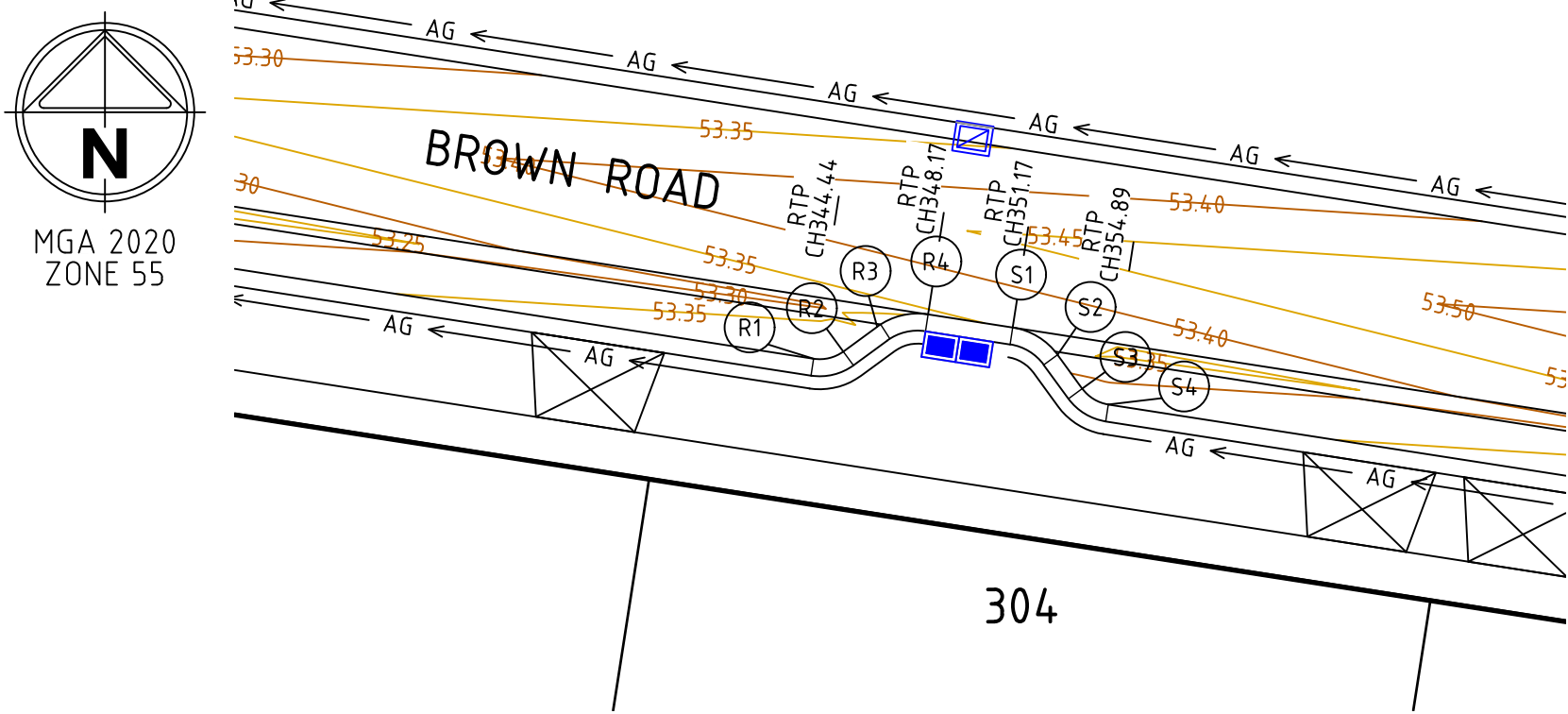
POINT NO	EASTING	NORTHING	RL
LL1	361896.921	5787314.385	55.164
1/4	361895.766	5787311.235	55.032
1/2	361893.492	5787308.767	54.857
3/4	361890.448	5787307.356	54.677
LL2	361887.095	5787307.218	54.530

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
LL1-LL2	8.600	13.509	12.162	2.519	0.655

ALIGNMENT PP

POINT NO	EASTING	NORTHING	RL
PP1	361903.738	5787313.319	55.394
PP2	361902.579	5787305.909	55.187
1/4	361901.504	5787302.978	55.089
1/2	361899.390	5787300.682	54.986
3/4	361896.557	5787299.370	54.879
PP3	361893.438	5787299.242	54.775
PP4	361886.029	5787300.401	54.531

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
PP2-PP3	8.000	12.566	11.314	2.343	0.609



ALIGNMENT R

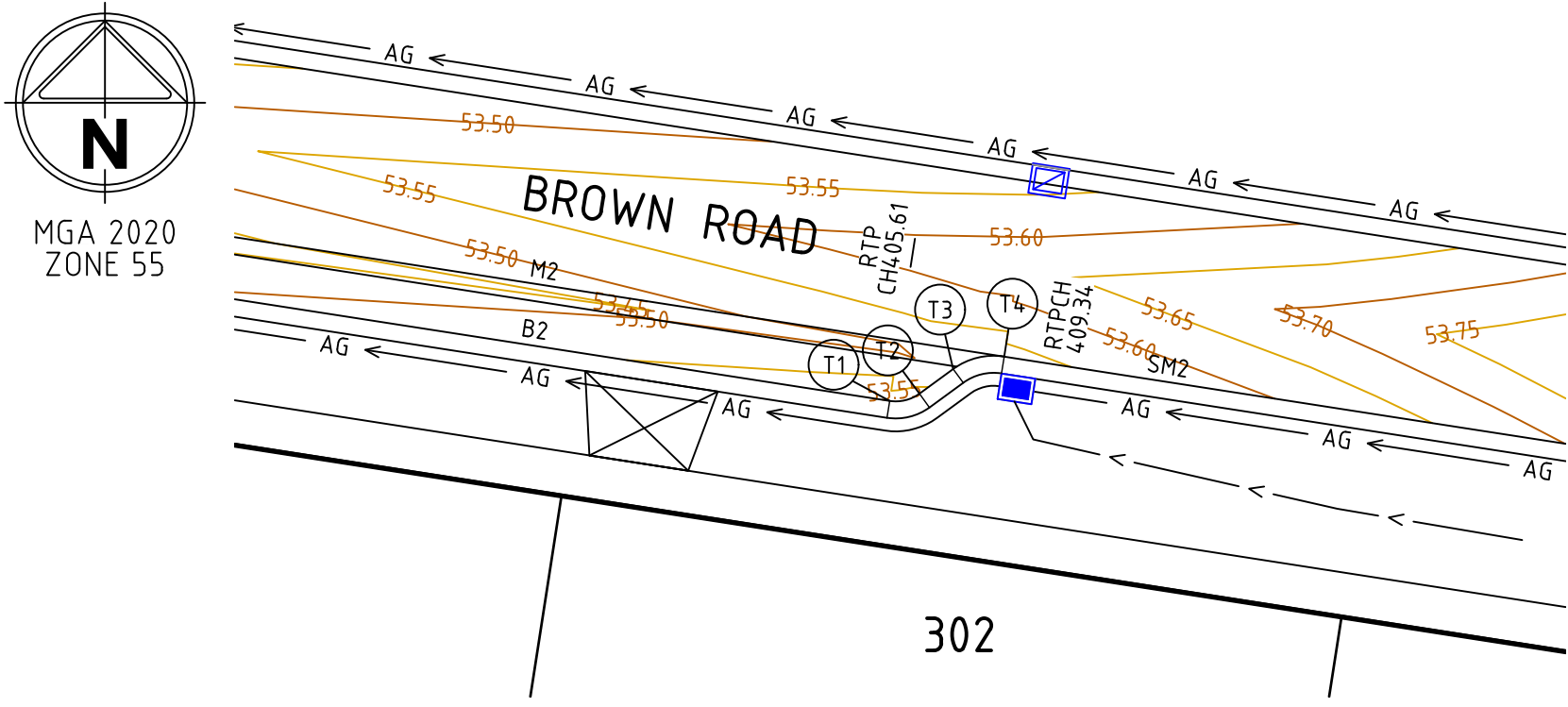
POINT NO	EASTING	NORTHING	RL
R1	361873.676	5787541.807	53.394
1/4	361873.950	5787541.791	53.395
1/2	361874.222	5787541.830	53.394
3/4	361874.481	5787541.921	53.393
R2	361874.717	5787542.060	53.391
R3	361875.901	5787542.926	53.366
1/4	361876.306	5787543.165	53.358
1/2	361876.750	5787543.320	53.352
3/4	361877.216	5787543.386	53.347
R4	361877.686	5787543.360	53.344

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
R1-R2	1.400	1.100	1.072	0.107	-0.027
R3-R4	2.400	1.885	1.837	0.183	-0.046

ALIGNMENT S

POINT NO	EASTING	NORTHING	RL
S1	361880.650	5787542.900	53.353
1/4	361881.106	5787542.782	53.356
1/2	361881.530	5787542.578	53.361
3/4	361881.906	5787542.295	53.369
S2	361882.220	5787541.945	53.380
S3	361883.085	5787540.761	53.415
1/4	361883.268	5787540.556	53.419
1/2	361883.487	5787540.391	53.422
3/4	361883.735	5787540.272	53.425
S4	361884.001	5787540.204	53.426

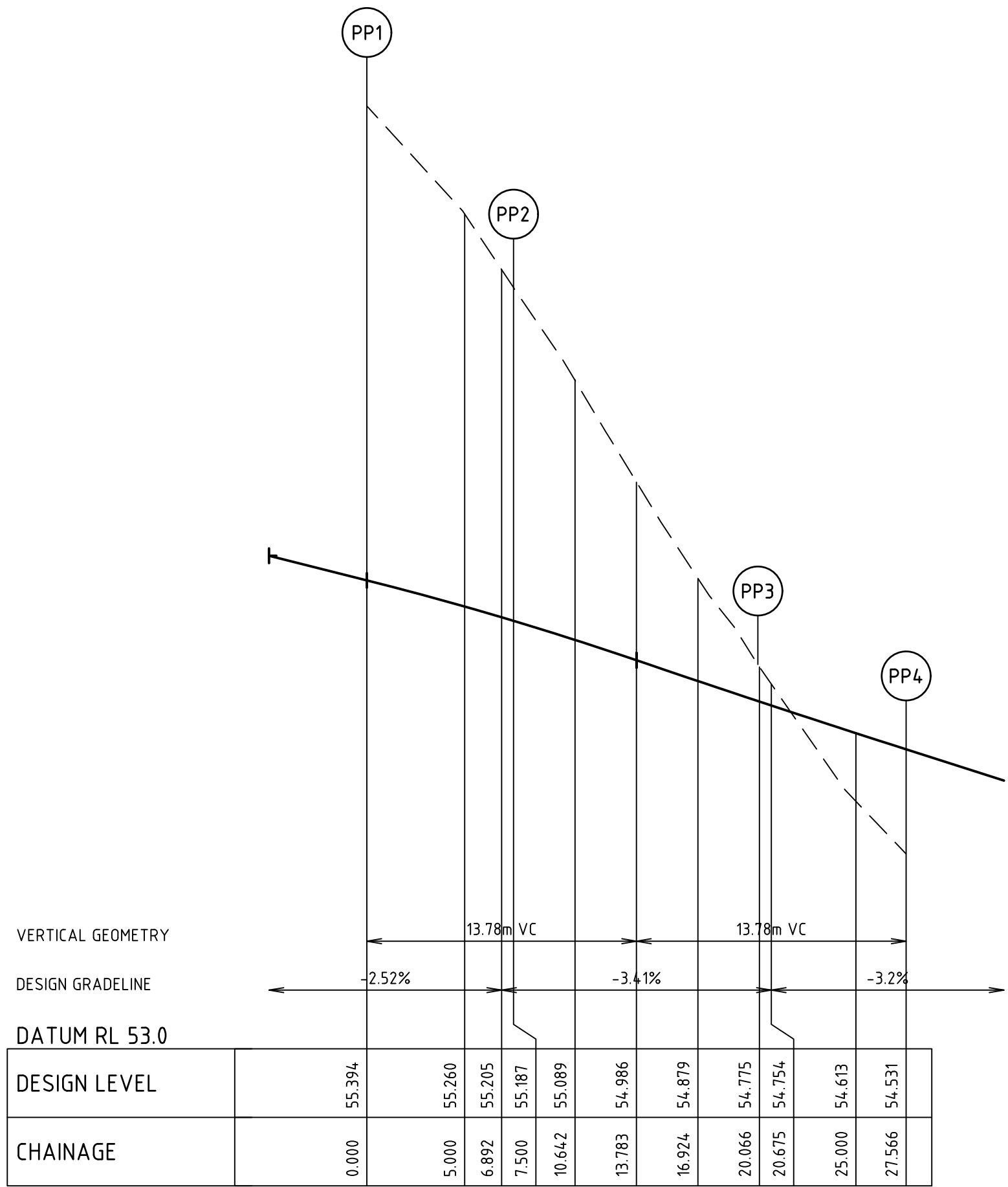
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
S1-S2	2.400	1.885	1.837	0.183	-0.046
S3-S4	1.400	1.100	1.072	0.107	-0.027



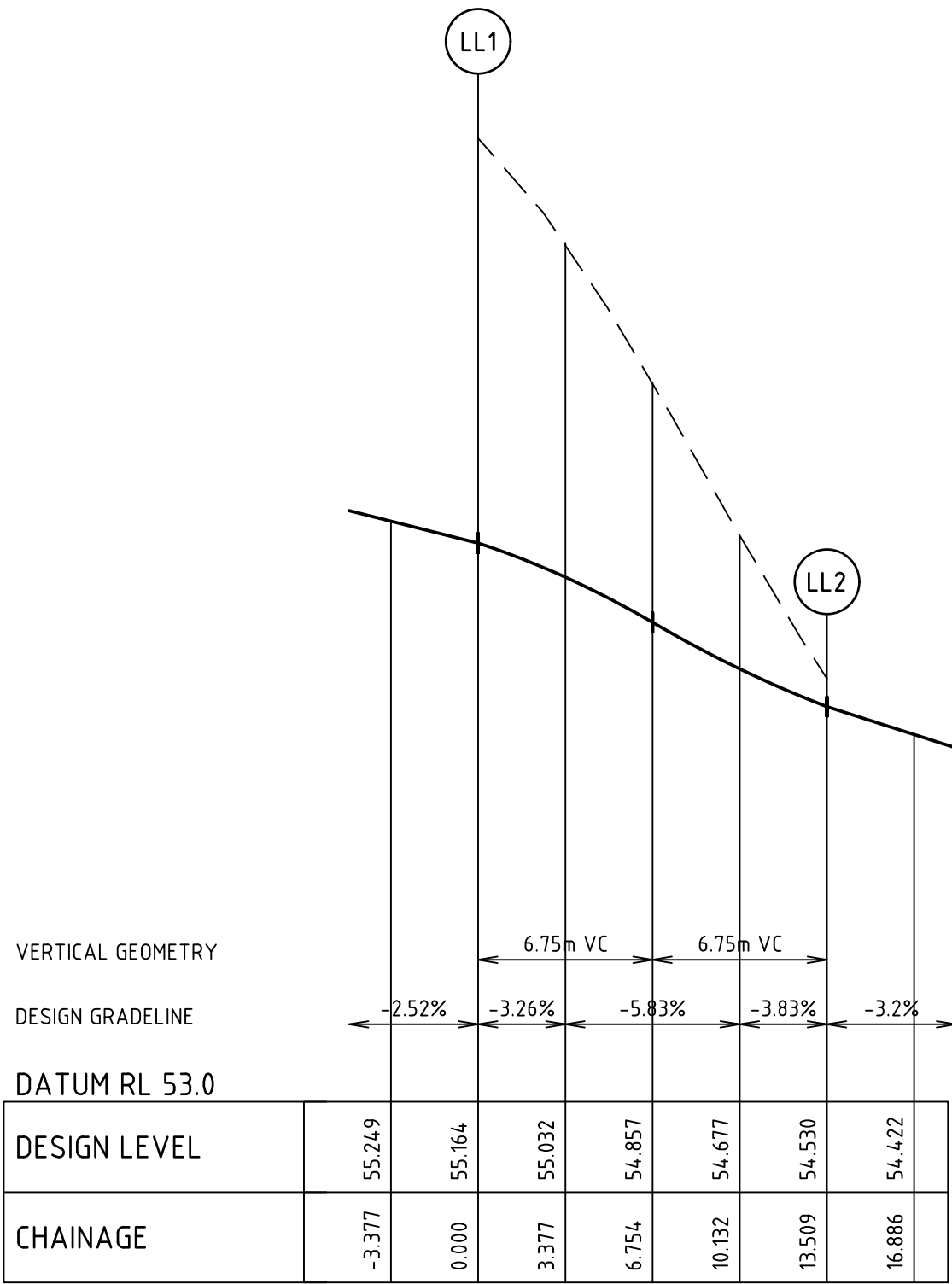
ALIGNMENT T

POINT NO	EASTING	NORTHING	RL
T1	361934.121	5787532.423	53.579
1/4	361934.395	5787532.407	53.580
1/2	361934.667	5787532.446	53.580
3/4	361934.926	5787532.536	53.579
T2	361935.163	5787532.676	53.577
1/4	361936.346	5787533.542	53.558
1/2	361936.752	5787533.781	53.550
3/4	361937.196	5787533.936	53.544
T4	361937.661	5787534.002	53.539
T4	361938.131	5787533.976	53.535

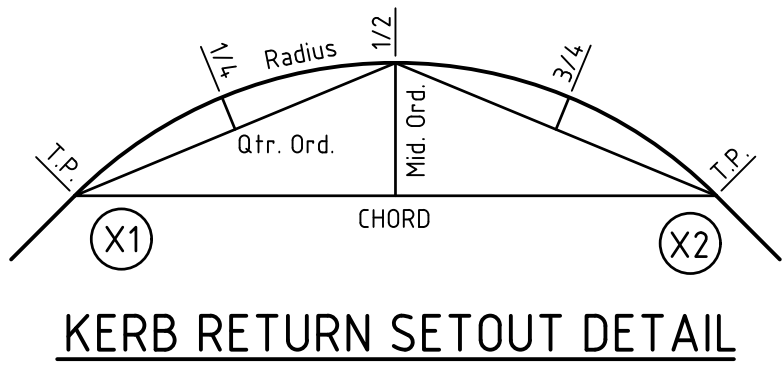
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
T1-T2	1.400	1.100	1.072	0.107	-0.027
T3-T4	2.400	1.885	1.837	0.183	-0.046



ALIGNMENT PP

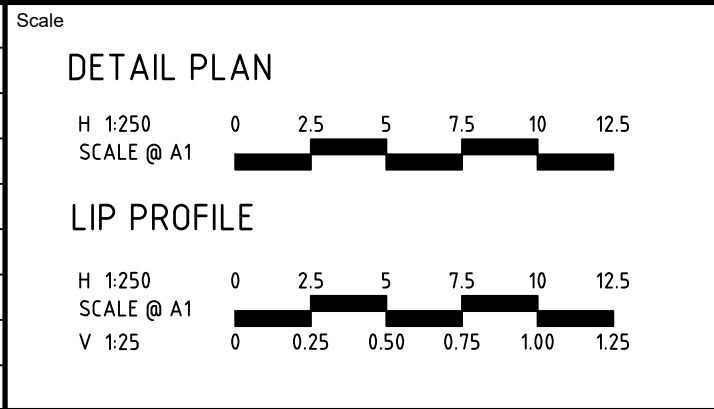


ALIGNMENT LL



KERB RETURN SETOUT DETAIL

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	B.W.	04/05/22
C	UPDATES AS PER COUNCIL COMMENTS	B.W.	22/03/22
B	ISSUED TO COUNCIL	B.W.	01/12/21
A	PRELIMINARY ISSUE	B.W.	19/11/21



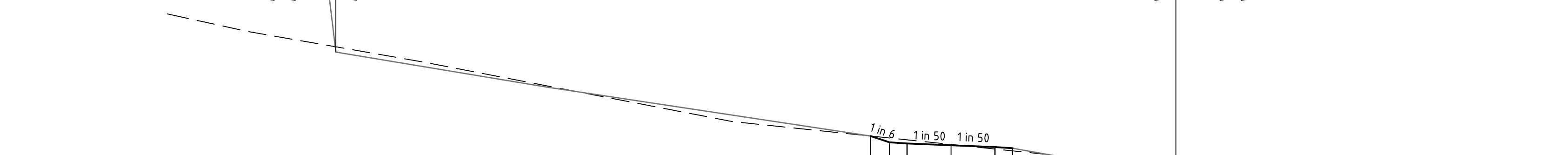
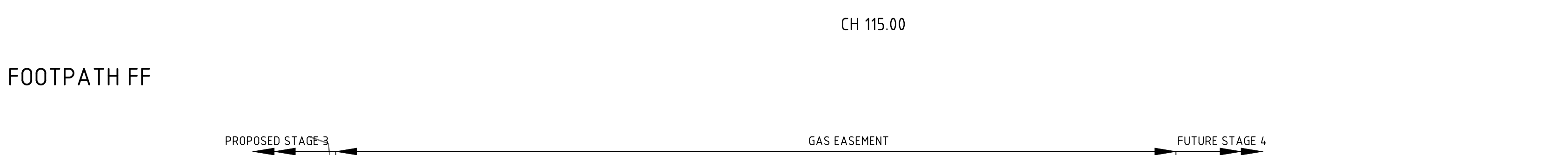
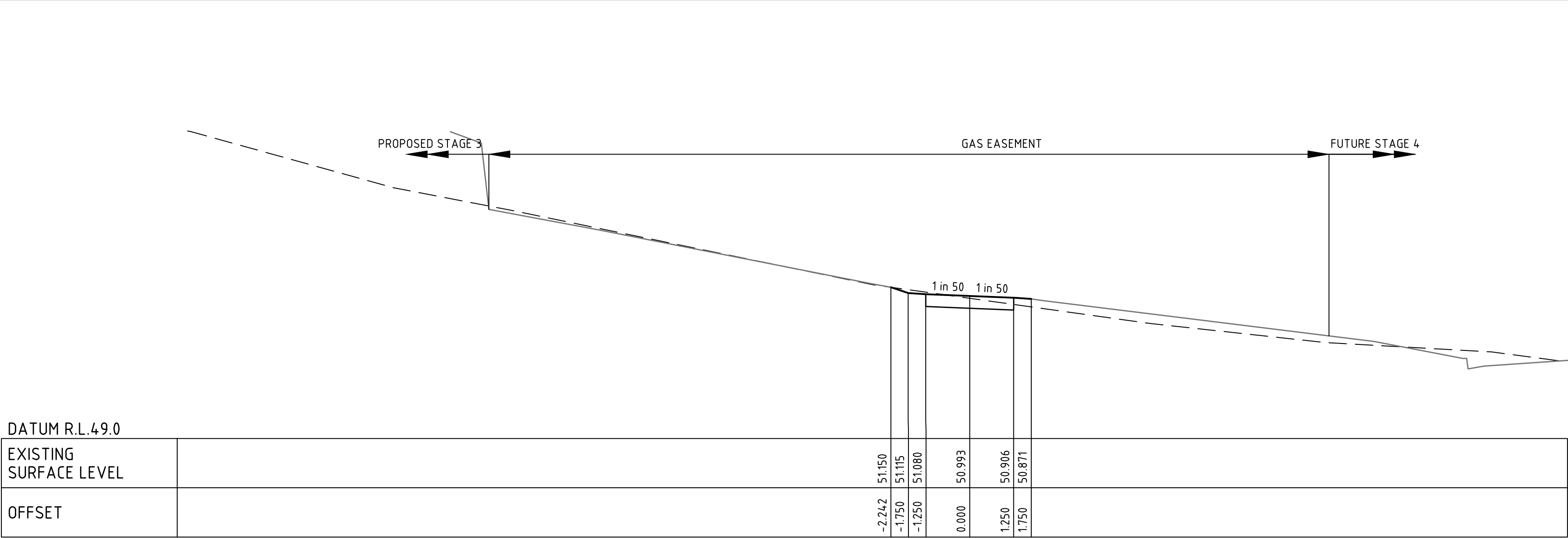
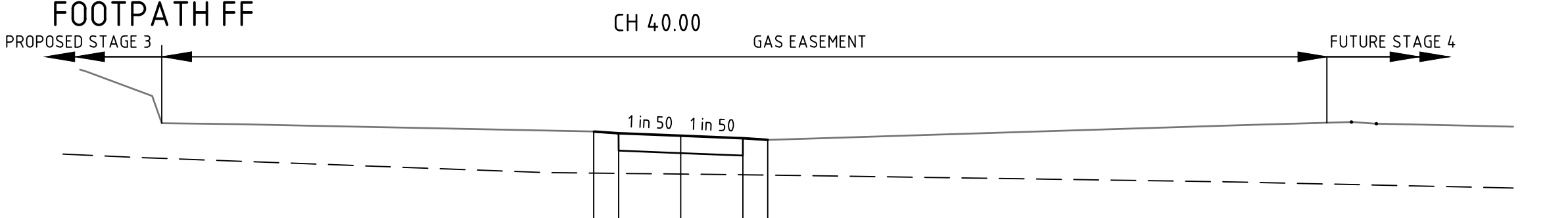
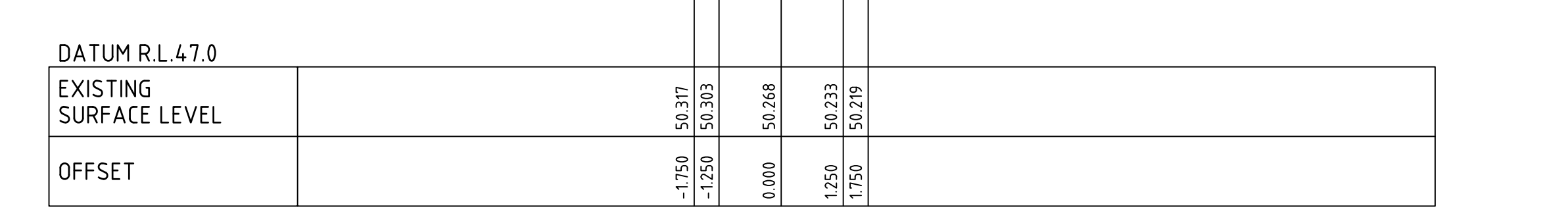
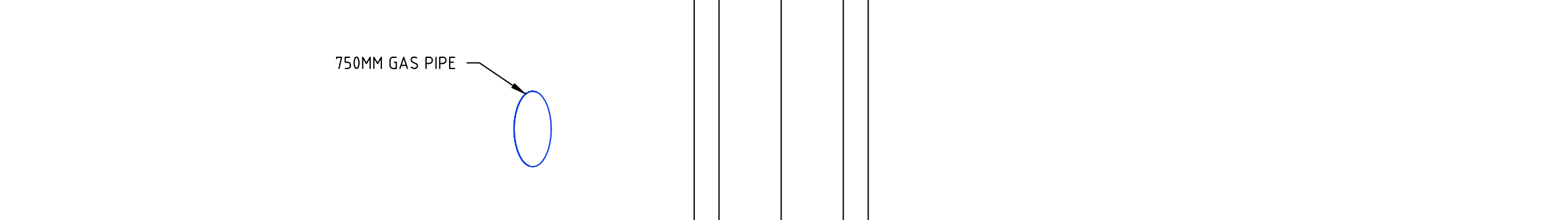
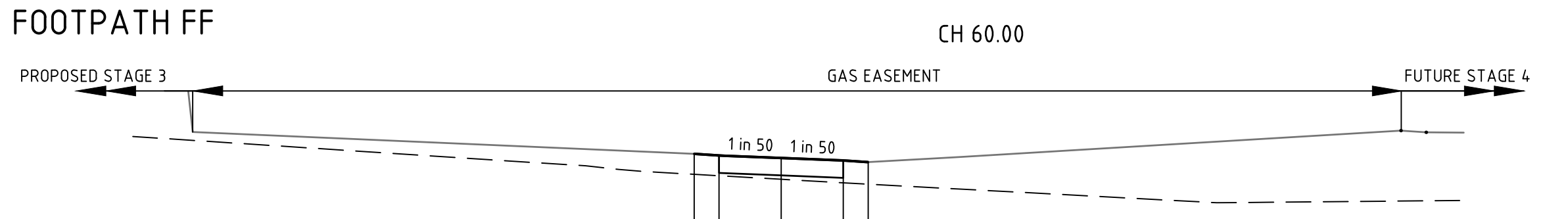
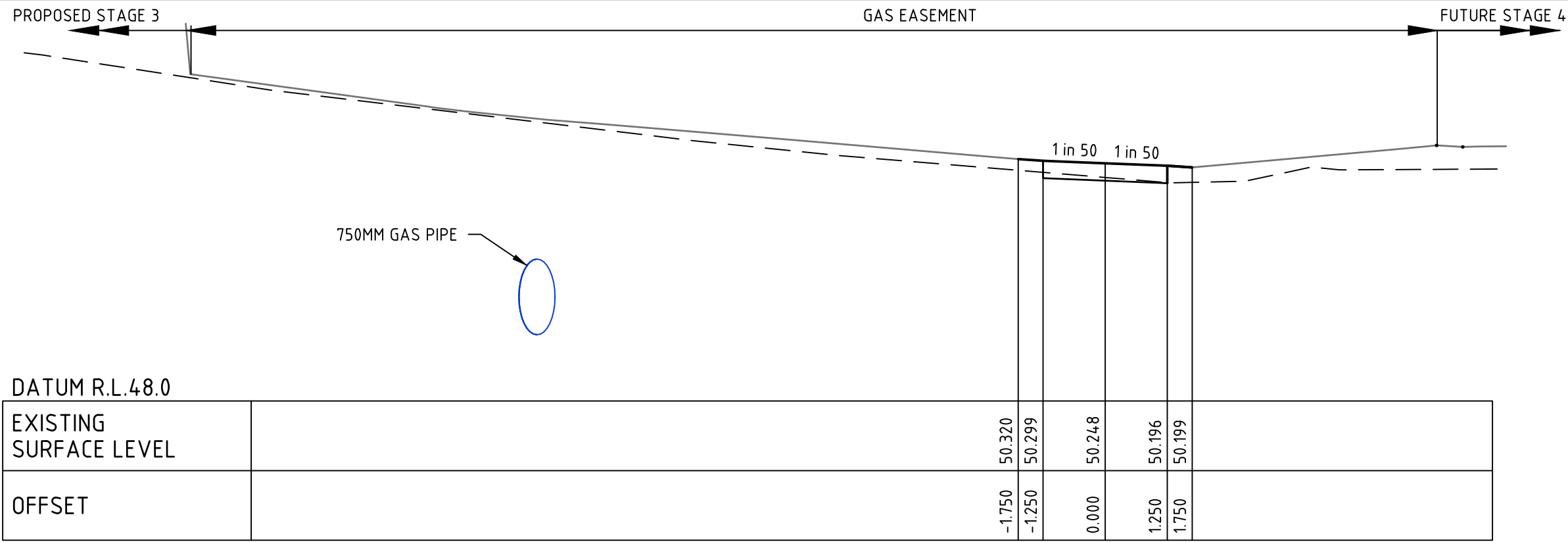
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YourLand Developments
Designed: A.CHARALAMBOUS
Checked: B.WAREHAM
Date: 19/11/2021

OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 4
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD
PRELIMINARY 308003CR503
Rev 0

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APPROVED FOR CONSTRUCTION

CARDINIA SHIRE COUNCIL

Ref No.: S21-005 , T190390

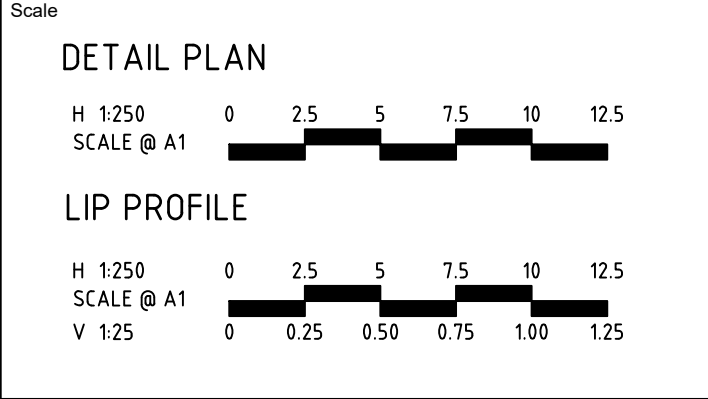
Sheet: 25 of 35

Approved by: Nisanka Mahamithawa

CARDINIA SHIRE COUNCIL

Date: Tuesday, 28 June 2022

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	B.W.	04/05/22
B	ISSUED TO COUNCIL	B.W.	01/12/21
A	PRELIMINARY ISSUE	B.W.	19/11/21



OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
SHARED PATH DETAILS - SHEET 6
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY

Drp No
308003CR505

Rev
0



APPROVED FOR CONSTRUCTION

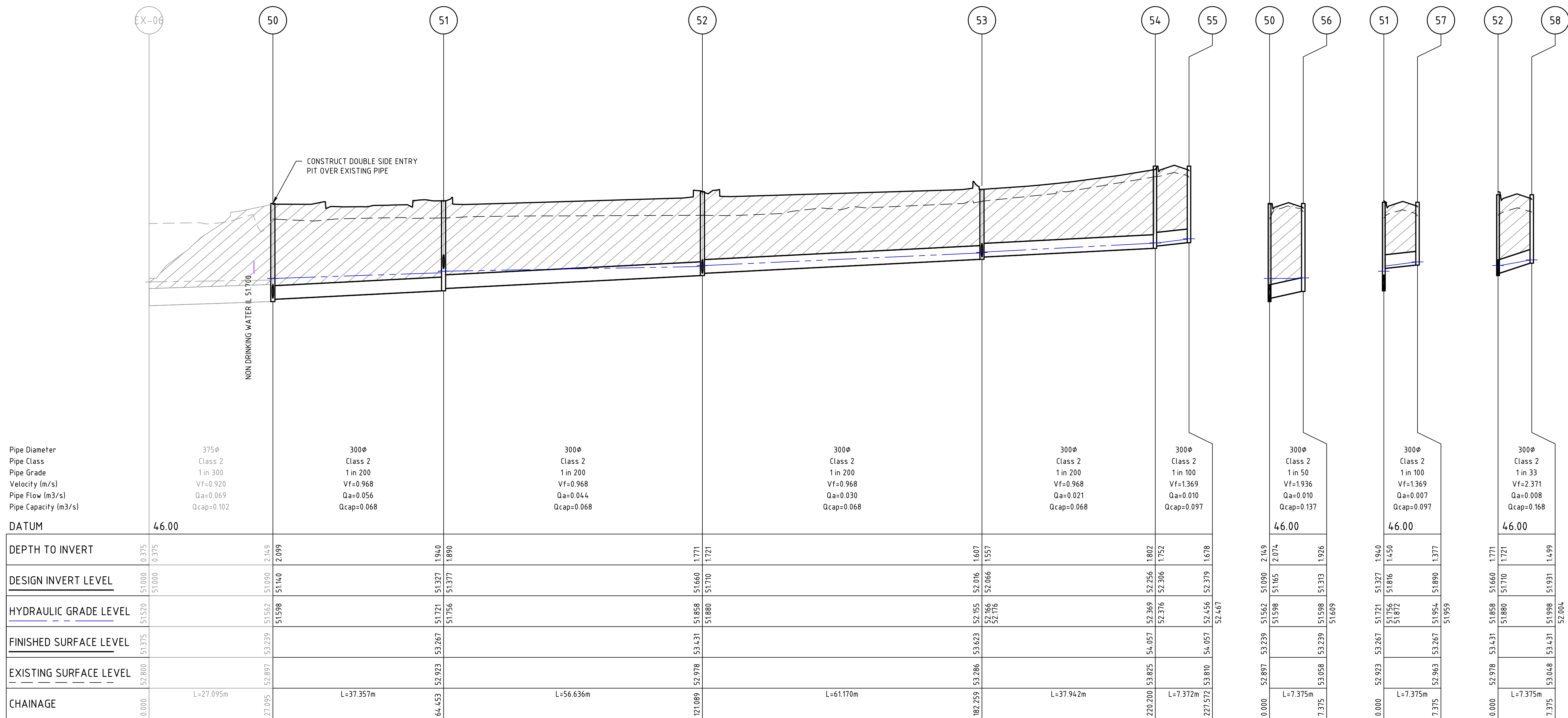
CARDINIA SHIRE COUNCIL

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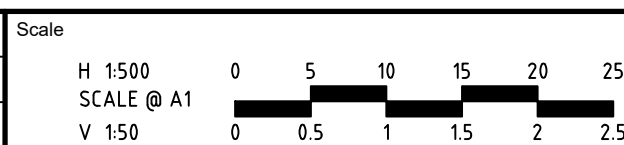
Sheet: 26 of 35

Approved by: Nisanka Mahamithawa

CARDINIA SHIRE CO
Tel: 08 9422 3333



0	ISSUED FOR CONSTRUCTION	B.W	04/05/22
D	UPDATES AS PER COUNCIL COMMENTS	B.W.	22/04/22
C	UPDATES AS PER COUNCIL COMMENTS	B.W.	22/03/22
B	ISSUED TO COUNCIL	B.W.	01/12/21
A	PRELIMINARY ISSUE	B.W.	19/11/21
Rev	Amendments	Approved	Date



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The Spiire logo, featuring the word "spiire" in a lowercase, sans-serif font. The two dots above the "i" are red, while the rest of the text is dark grey.

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VICTORIA 8007 AUSTRALIA T 61 3 9993 7888
spiire.com.au ABN 55 050 029 635

YourLand
Developments

Designed
J.SIM

Authorised
B.WAREHAM

Checked

Date
19/11/2021

**OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 1
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD**

PRELIMINARY Drg No **308003CR600**

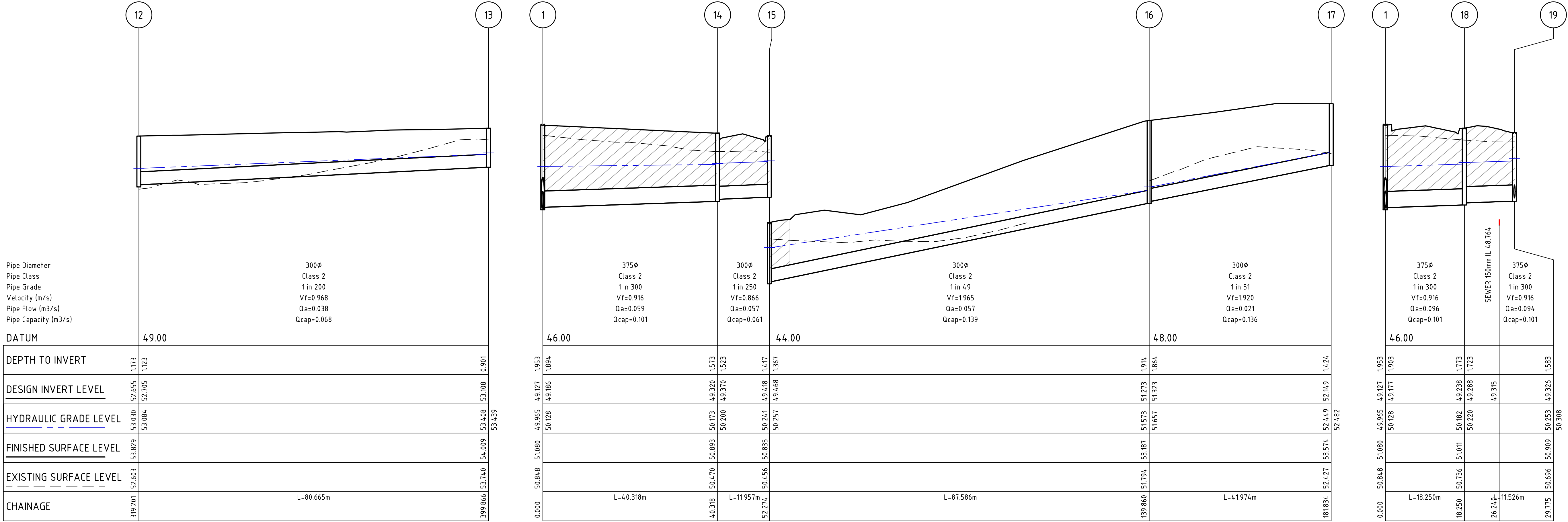
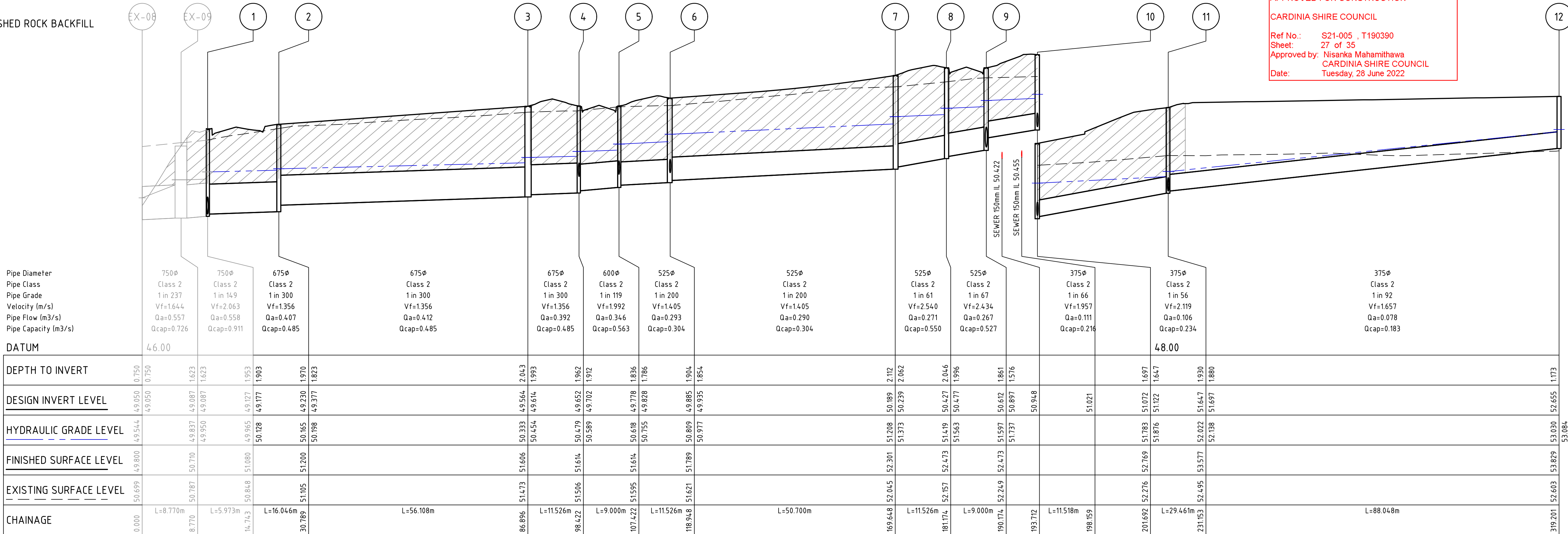
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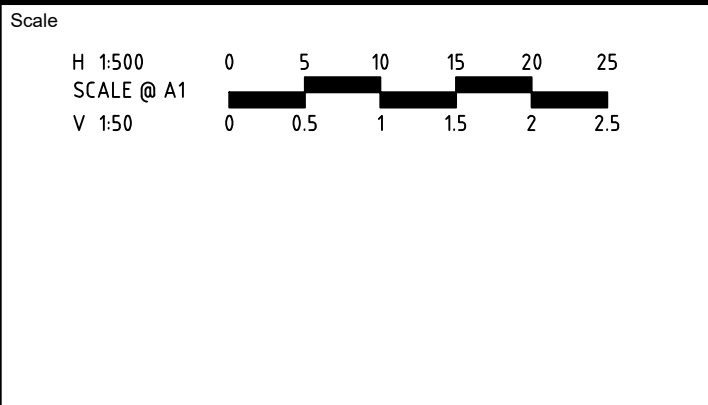
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CARDINIA SHIRE COUNCIL
Ref No.: S21-005, T190390
Sheet: 27 of 35
Approved by: Nisanka Mahamithawa
CARDINIA SHIRE COUNCIL
Date: Tuesday, 28 June 2022



0	ISSUED FOR CONSTRUCTION	B.W.	04/05/22
B	ISSUED TO COUNCIL	B.W.	01/12/21
A	PRELIMINARY ISSUE	B.W.	19/11/21
Rev	Amendments	Approved	Date



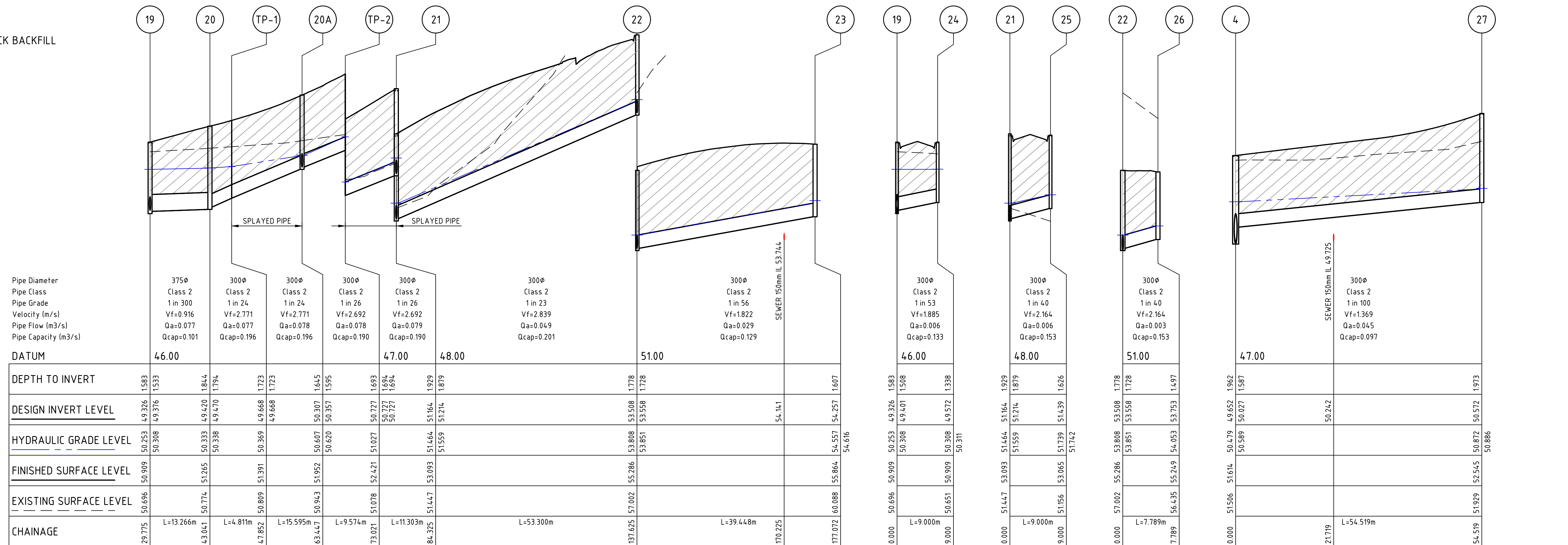
Designed	J.SIM	Checked	
Authorised	B.WAREHAM	Date	19/11/2021

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

PRELIMINARY Drg No 308003CR601 Rev 0



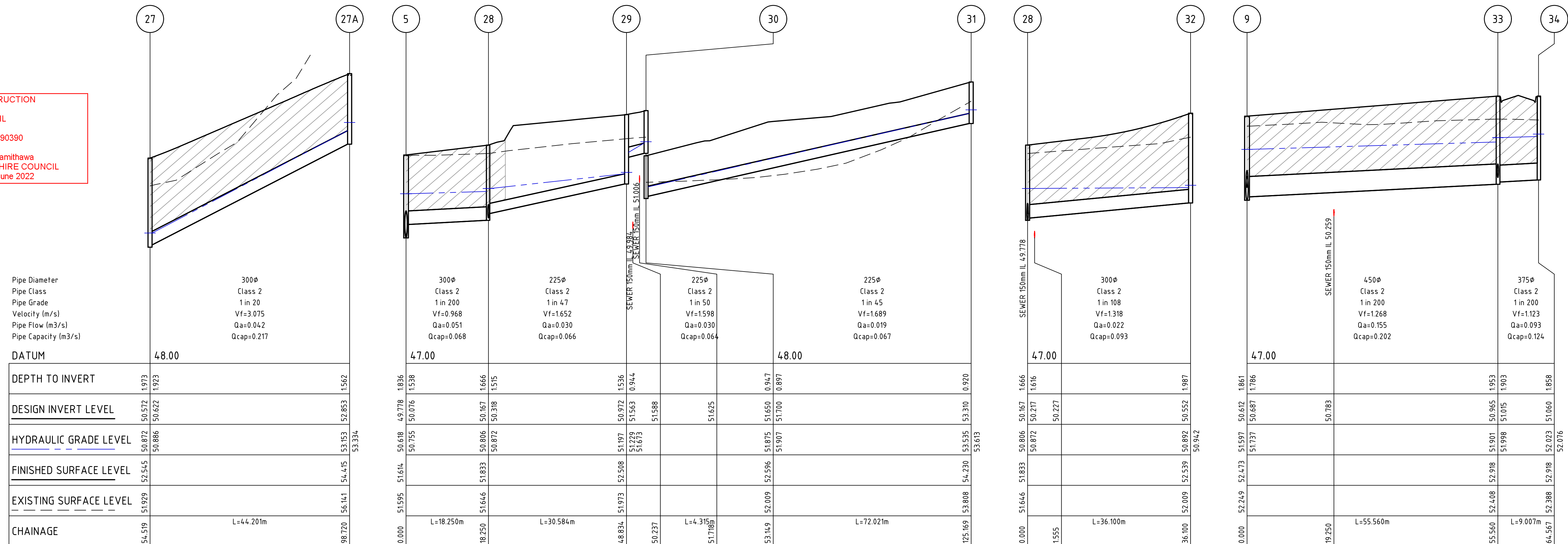
CRUSHED ROCK BACKFILL



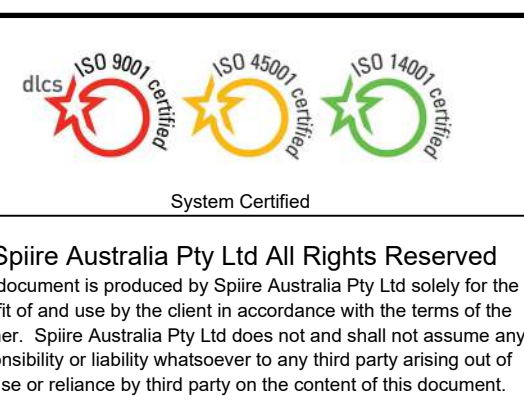
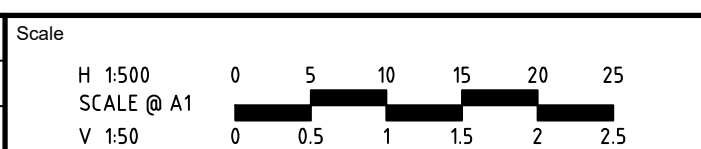
APPROVED FOR CONSTRUCTION

CARDINIA SHIRE COUNCIL

Ref No.: S21-005 , T190390
Sheet: 28 of 35
Approved by: Nisanka Mahamithawa
CARDINIA SHIRE COUNCIL
Date: Tuesday, 28 June 2022



0	ISSUED FOR CONSTRUCTION	B.W	04/05/22
C	UPDATES AS PER COUNCIL COMMENTS	B.W.	22/03/22
B	ISSUED TO COUNCIL	B.W.	01/12/21
A	PRELIMINARY ISSUE	B.W.	19/11/21
Rev	Amendments	Approved	Date

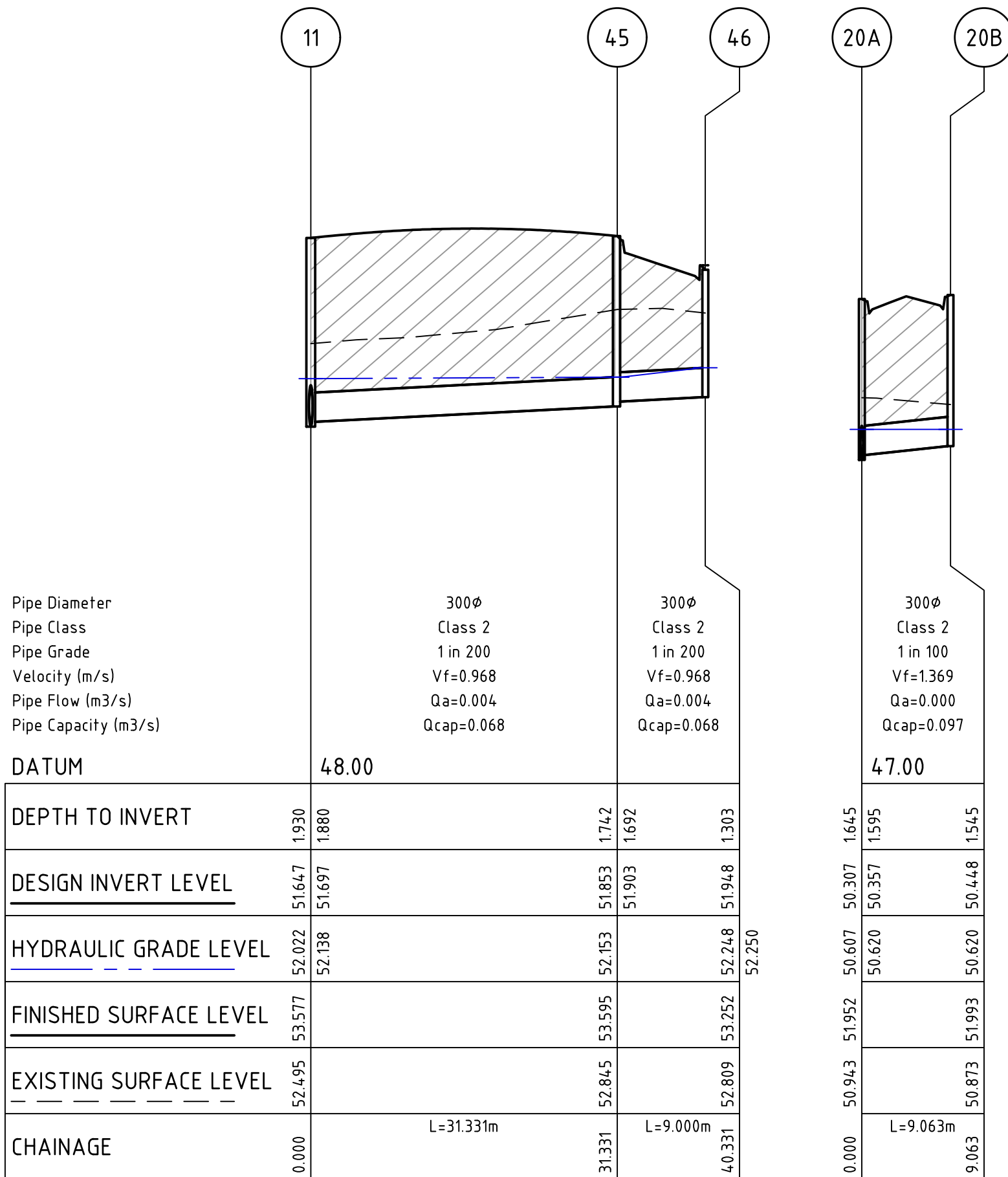
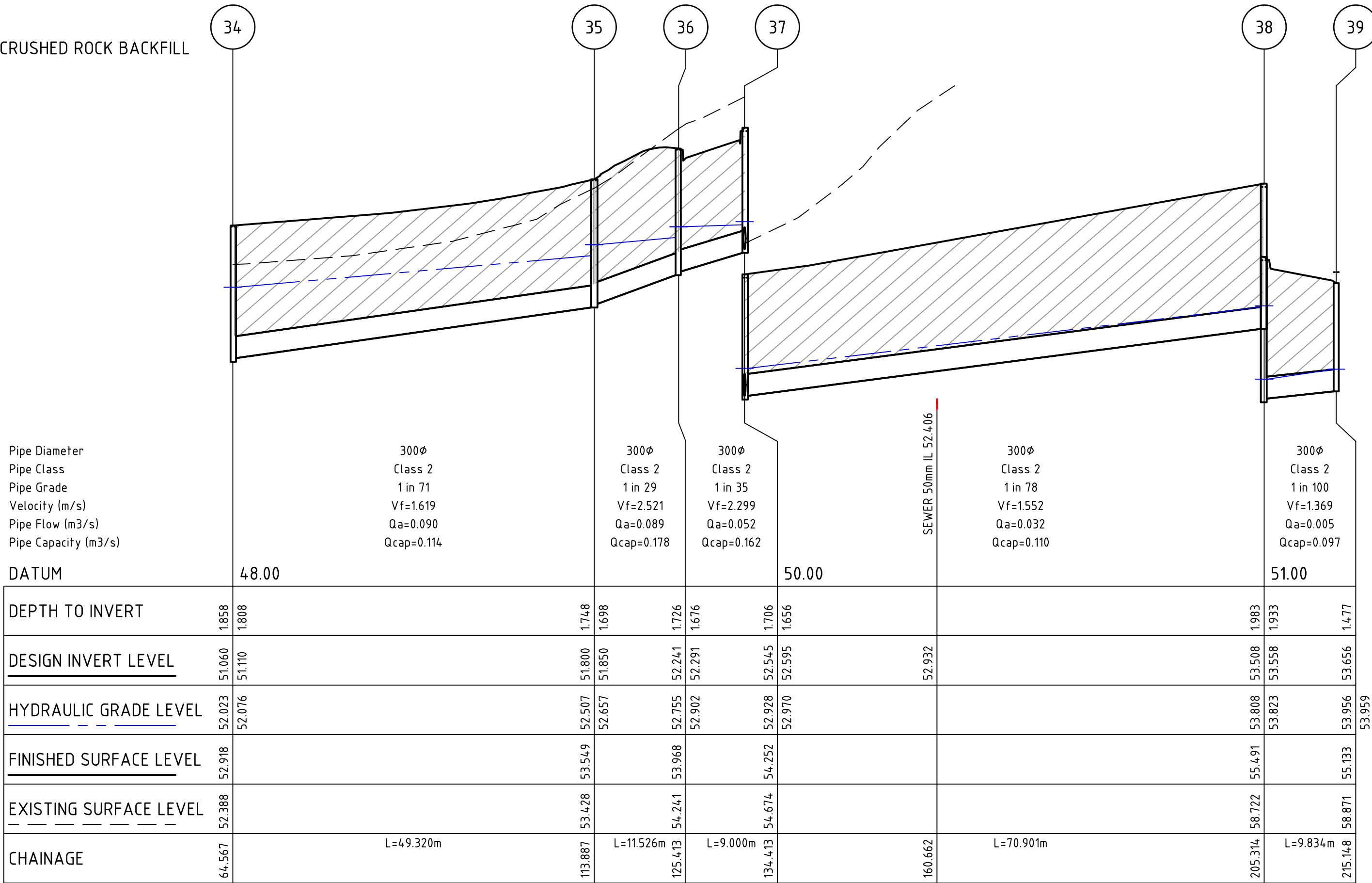


OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 3
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY **308003CR602** **0**

Drig No Rev

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APPROVED FOR CONSTRUCTION

CARDINIA SHIRE COUNCIL

Ref No.: S21-005, T190390

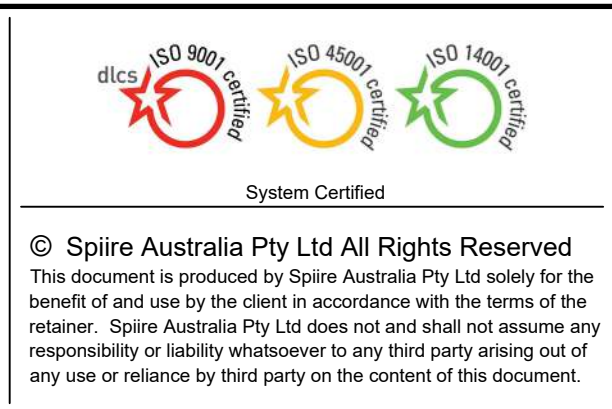
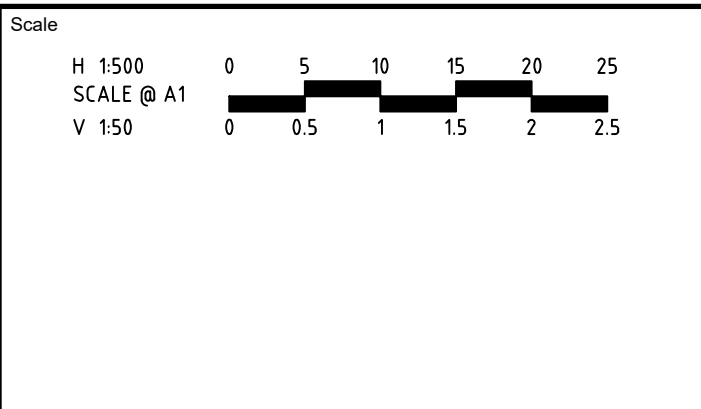
Sheet: 29 of 35

Approved by: Nisanka Mahamithawa

CARDINIA SHIRE COUNCIL

Date: Tuesday, 28 June 2022

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	B.W	04/05/22
C	UPDATES AS PER COUNCIL COMMENTS	B.W.	22/03/22
B	ISSUED TO COUNCIL	B.W.	01/12/21
A	PRELIMINARY ISSUE	B.W.	19/11/21



Designed J.SIM	Checked
Authorised B.WAREHAM	Date 19/11/2021

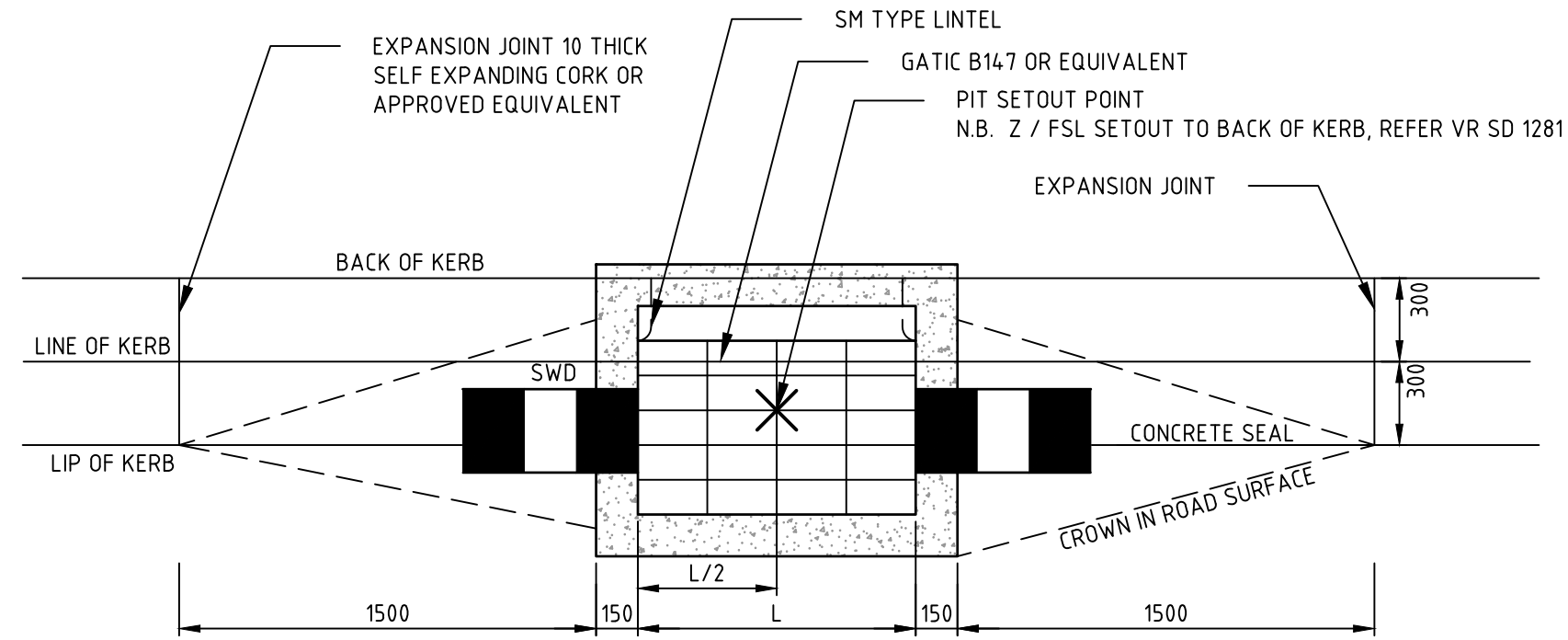
OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 4
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Drg No 308003CR603 Rev 0

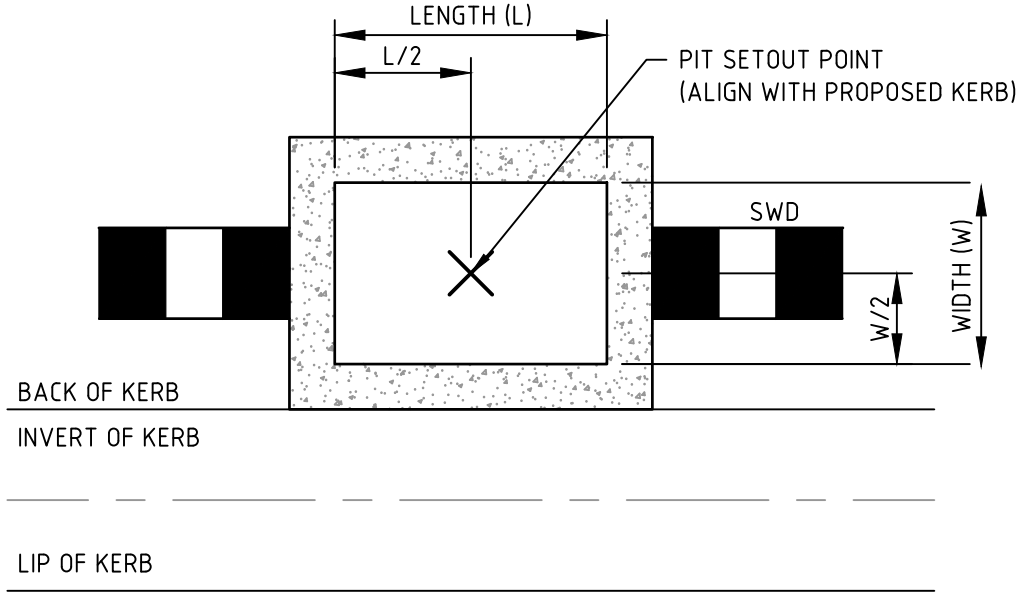
DRAINAGE PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
EX-08	OUTFALL	0	0	750	4.9.050			4.9.800	0.750	
EX-09	GROSS POLLUTANT TRAP	1800	2600	750	4.9.087	750	4.9.087	50.710	1.623	EXISTING GPT UNIT
1	DOUBLE SIDE ENTRY PIT	2x 600	900	675	4.9.177	750	4.9.127	51.080	1.953	CONSTRUCT PIT OVER EXISTING 750Ø ENDBPIPE
				375	4.9.186					
				375	4.9.177					
2	GRATED SIDE ENTRY PIT	1050	900	675	4.9.377	675	4.9.230	51.200	1.970	PROVIDE HEAVY DUTY COVER AND HAUNCH PIT UNDER KERB, REFER STANDARD DRAWINGS EDCM 603, EDCM 607
3	GRATED SIDE ENTRY PIT	1050	1350	675	4.9.614	675	4.9.564	51.606	2.043	PROVIDE HAUNCHED PIT UNDER KERB, REFER STANDARD DRAWINGS EDCM 603, EDCM 607
4	GRATED SIDE ENTRY PIT	600	1350	600	4.9.702	675	4.9.652	51.614	1.962	
				300	50.027					
5	GRATED SIDE ENTRY PIT	600	1050	525	4.9.828	600	4.9.778	51.614	1.836	
				300	50.076					
6	GRATED SIDE ENTRY PIT	1050	900	525	4.9.935	525	4.9.885	51.789	1.904	PROVIDE HAUNCHED PIT UNDER KERB, REFER STANDARD DRAWINGS EDCM 603, EDCM 607
				300	50.110					
7	GRATED SIDE ENTRY PIT	1050	900	525	50.239	525	50.189	52.301	2.112	PROVIDE HAUNCHED PIT UNDER KERB, REFER STANDARD DRAWINGS EDCM 603, EDCM 607
8	GRATED SIDE ENTRY PIT	600	1050	525	50.477	525	50.427	52.473	2.046	
9	GRATED SIDE ENTRY PIT	750	900	375	50.897	525	50.612	52.473	1.861	PROVIDE HAUNCHED PIT UNDER KERB, REFER STANDARD DRAWINGS EDCM 603, EDCM 607
				450	50.687					
10	GRATED SIDE ENTRY PIT	750	900	375	51.122	375	51.072	52.769	1.697	PROVIDE HAUNCHED PIT UNDER KERB, REFER STANDARD DRAWINGS EDCM 603, EDCM 607
				300	51.147					
11	JUNCTION PIT	750	900	375	51.697	375	51.647	53.577	1.930	PROVIDE HAUNCHED PIT UNDER KERB, REFER STANDARD DRAWINGS EDCM 603, EDCM 607
				300	51.697					
12	JUNCTION PIT	600	900	300	52.705	375	52.655	53.829	1.173	
13	JUNCTION PIT	600	900			300	53.108	54.009	0.901	PROVIDE 300Ø STUB AT IL 53.158 AND BLOCK WITH MARINE GRADE PLY FOR FUTURE CONNECTION
14	GRATED SIDE ENTRY PIT	600	900	300	4.9.370	375	4.9.320	50.893	1.573	
15	GRATED SIDE ENTRY PIT	600	900	300	4.9.468	300	4.9.418	50.835	1.417	
16	JUNCTION PIT	600	900	300	51.323	300	51.273	53.187	1.914	
17	JUNCTION PIT	600	900			300	52.149	53.574	1.424	
18	GRATED SIDE ENTRY PIT	600	900	375	4.9.288	375	4.9.238	51.011	1.773	PROVIDE HAUNCHED PIT UNDER KERB, REFER STANDARD DRAWINGS EDCM 603, EDCM 607
19	GRATED SIDE ENTRY PIT	600	900	375	4.9.376	375	4.9.326	50.909	1.583	
				300	4.9.401					
20	JUNCTION PIT	600	900	300	4.9.470	375	4.9.420	51.265	1.844	
TP-1	TANGENT POINT	0	0	300	4.9.668	300	4.9.668	51.391	1.723	
20A	JUNCTION PIT	600	900	300	50.357	300	50.307	51.952	1.645	
				300	50.357					
TP-2	TANGENT POINT	0	0	300	50.727	300	50.727	52.421	1.694	
21	GRATED SIDE ENTRY PIT	600	900	300	51.214	300	51.164	53.093	1.929	
				300	51.214					
22	JUNCTION PIT	600	900	300	53.558	300	53.508	55.286	1.778	
				300	53.558					
23	JUNCTION PIT	600	900			300	54.257	55.864	1.607	
24	GRATED SIDE ENTRY PIT	600	900			300	4.9.572	50.909	1.338	
25	GRATED SIDE ENTRY PIT	600	900			300	51.439	53.065	1.626	
26	GRATED JUNCTION PIT	600	900			300	53.753	55.249	1.497	
27	GRATED SIDE ENTRY PIT	600	900	300	50.622	300	50.572	52.545	1.973	
27A	GRATED SIDE ENTRY PIT	600	900			300	52.853	54.415	1.562	
28	JUNCTION PIT	600	900			300	50.167	51.833	1.666	
				300	50.217					
29	JUNCTION PIT	600	900	225	51.563	225	50.972	52.508	1.536	
30	JUNCTION PIT	600	900	225	51.700	225	51.650	52.596	0.947	
31	JUNCTION PIT	600	900			225	53.310	54.230	0.920	

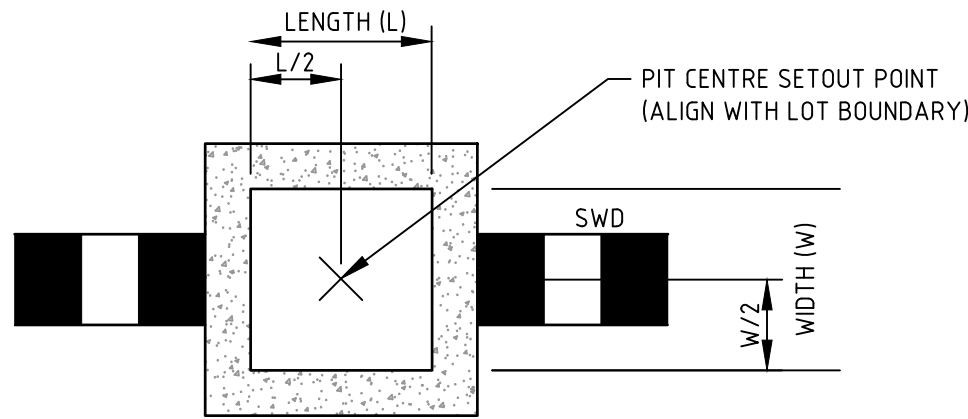
NOTE: EDCM STANDARD DRAWINGS TO BE USED UNLESS OTHERWISE NOTED



TYPICAL DRAINAGE PIT SETOUT POINT 'A'
SIDE ENTRY PIT (B TYPE KERB) WITH CAST IRON COVER IN ROAD (REFER VR SD 1281)
NOT TO SCALE



TYPICAL DRAINAGE PIT SETOUT POINT 'B'
GRATED SIDE ENTRY PIT
NOT TO SCALE



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

DRAINAGE PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
32	GRATED SIDE ENTRY PIT	600	900			300	50.552	52.539	1.987	
33	GRATED SIDE ENTRY PIT	750	900	375	51.015	450	50.965	52.918	1.953	PROVIDE HAUNCHED PIT UNDER KERB, REFER STANDARD DRAWINGS EDCM 603, EDCM 607
				300	51.115					
34	GRATED SIDE ENTRY PIT	600	900	300	51.110	375	51.060	52.918	1.858	
35	GRATED SIDE ENTRY PIT	600	900	300	51.850	300	51.800	53.549	1.748	
36	GRATED SIDE ENTRY PIT	600	900	300	52.291	300	52.241	53.968	1.726	
37	GRATED SIDE ENTRY PIT	600	900	300	52.595	300	52.545	54.252	1.706	
				300	52.595					
38	GRATED SIDE ENTRY PIT	600	900	300	53.558	300	53.508	55.491	1.983	
39	GRATED SIDE ENTRY PIT	600	900			300	53.656	55.133	1.477	
40	JUNCTION PIT	600	900			300	51.959	53.587	1.628	
41	GRATED SIDE ENTRY PIT	600	900			300	50.335	51.785	1.449	
42	GRATED SIDE ENTRY PIT	600	900			300	51.372	52.735	1.363	
43	GRATED SIDE ENTRY PIT	600	900	300	52.737	300	52.687	54.373	1.686	
44	JUNCTION PIT	600	900			300	53.273	54.933	1.660	
45	JUNCTION PIT	600	900	300	51.903	300	51.853	53.595	1.742	
46	DOUBLE SIDE ENTRY PIT	2x 600	900			300	51.948	53.252	1.303	
20B	JUNCTION PIT	600	900			300	50.448	51.993	1.545	
EX-06	OUTFALL	0	0	375	51.000			51.375	0.375	
50	DOUBLE SIDE ENTRY PIT	2x 600	900	300	51.140	375	51.090	53.239	2.149	CONSTRUCT PIT OVER EXISTING PIPE, INSTALLED BY OTHERS
				300	51.165					
51	DOUBLE SIDE ENTRY PIT	2x 600	900	300	51.377	300	51.327	53.267	1.940	
				300	51.816					
52	DOUBLE SIDE ENTRY PIT	2x 600	900	300	51.710	300	51.660	53.433	1.769	
				300	51.710					
53	GRATED SIDE ENTRY PIT	600	900	300	52.066	300	52.016	53.623	1.607	PROVIDE V-NOTCH IN PIT WALL AT IL 53.40 FOR SWALE OUTLET
				300	52.066					
54	DEPRESSED GRATED PIT	600	900	300	52.306	300	52.256	54.057	1.802	GRATED PIT TO BE LOCATED AT BASE OF SWALE
55	SIDE ENTRY PIT	750	1000			300	52.379	54.057	1.678	VICROADS SEP (SD 1281)
56	SIDE ENTRY PIT	750	1000			300	51.313	53.239	1.926	VICROADS SEP (SD 1281)
57	SIDE ENTRY PIT	750	1000			300	51.890	53.267	1.377	VICROADS SEP (SD 1281)
58	SIDE ENTRY PIT	750	1000			300	51.931	53.431	1.499	VICROADS SEP (SD 1281)
59	SIDE ENTRY PIT	750	1000			300	52.214	53.623	1.409	VICROADS SEP (SD 1281)

NOTE: EDCM STANDARD DRAWINGS TO BE USED UNLESS OTHERWISE NOTED

PIT SETOUT CO-ORDINATES

NAME	POINT	EASTING	NORTHING
1	B	361772.107	5787312.828
2	B	361775.427	5787328.527
3	B	361784.099	5787383.960
4	B	361793.411	5787390.752
5	B	361794.802	5787399.644
6	B	361788.010	5787408.956
7	B	361795.846	5787459.047
8	B	361805.158	5787465.839
9	B	361806.549	5787474.731
10	B	361799.755	5787484.032
11	C	361804.309	5787513.139
12	C	361891.299	5787499.536
13	C	361970.996	5787487.075
14	B	361795.301	5787279.850
15	B	361807.116	5787278.014
16	C	361893.732	5787265.013

17	C	361935.230	5787258.710
18	B	361788.589	5787304.992
19	B	361799.921	5787302.887
20	C	361810.908	5787310.321
20A	C	361830.243	5787316.216
21	B	361850.949	5787313.936
22	C	361903.609	5787305.697
23	C	361909.692	5787344.673
24	B	361805.016	5787295.468
25	B	361849.581	5787305.040
26	C	361905.676	5787298.187
27	B	361847.275	5787382.326
27A	B	361890.945	5787375.495
28	C	361812.833	5787396.823
29	C	361817.557	5787427.040
30	C	361821.072	5787429.543
31	C	361892.227	5787418.411
32	B	361848.499	5787391.243
33	B	361861.443	5787466.150
34	B	361860.040	5787457.253
35	B	361908.768	5787449.629
36	B	361915.560	5787440.318

37	B	361924.452	5787438.926
38	B	361913.502	5787368.876
39	B	361904.406	5787365.138
40	C	361912.264	5787458.162
41	B	361779.118	5787410.347
42	B	361790.866	5787485.439
43	B	361933.764	5787445.719
44	C	361953.014	5787442.712
45	C	361809.151	5787544.093
46	B	361800.255	5787545.455
20B	C	361831.701	5787307.270
50	A	361785.237	5787556.651
51	B	361822.152	5787550.920
52	B	361878.118	5787542.230
53	B	361938.563	5787532.846
54	C	361976.056	5787527.029
55	A	361977.187	5787534.313
56	A	361786.368	5787563.939
57	A	361823.287	5787558.207
58	A	361879.253	5787549.517
59	A	361939.698	5787540.133

APPROVED FOR CONSTRUCTION
CARDINIA SHIRE COUNCIL
Ref No.: S21-005 , T190390
Sheet: 30 of 35
Approved by: Nisanka Mahamithawa
CARDINIA SHIRE COUNCIL
Date: Tuesday, 28 June 2022

file name: 308003CR604.dwg, layout name: CR604, plotted by: Luke Russell, file location: \\spiremedia\data\301308003\301308003.dwg, plot date: 16/05/2022 3:47 PM, Sheet: 30 of 35, Sheets:

0	ISSUED FOR CONSTRUCTION	B.W	04/05/22
D	UPDATES AS PER COUNCIL COMMENTS	B.W.	22/04/22
C	UPDATES AS PER COUNCIL COMMENTS	B.W.	22/03/22
B	ISSUED TO COUNCIL	B.W.	01/12/21
A	PRELIMINARY ISSUE	B.W.	19/11/21
Rev	Amendments	Approved	Date

Scale
H 1:500 SCALE @ A1 V 1:50

DESIGN PAVEMENT PROFILE

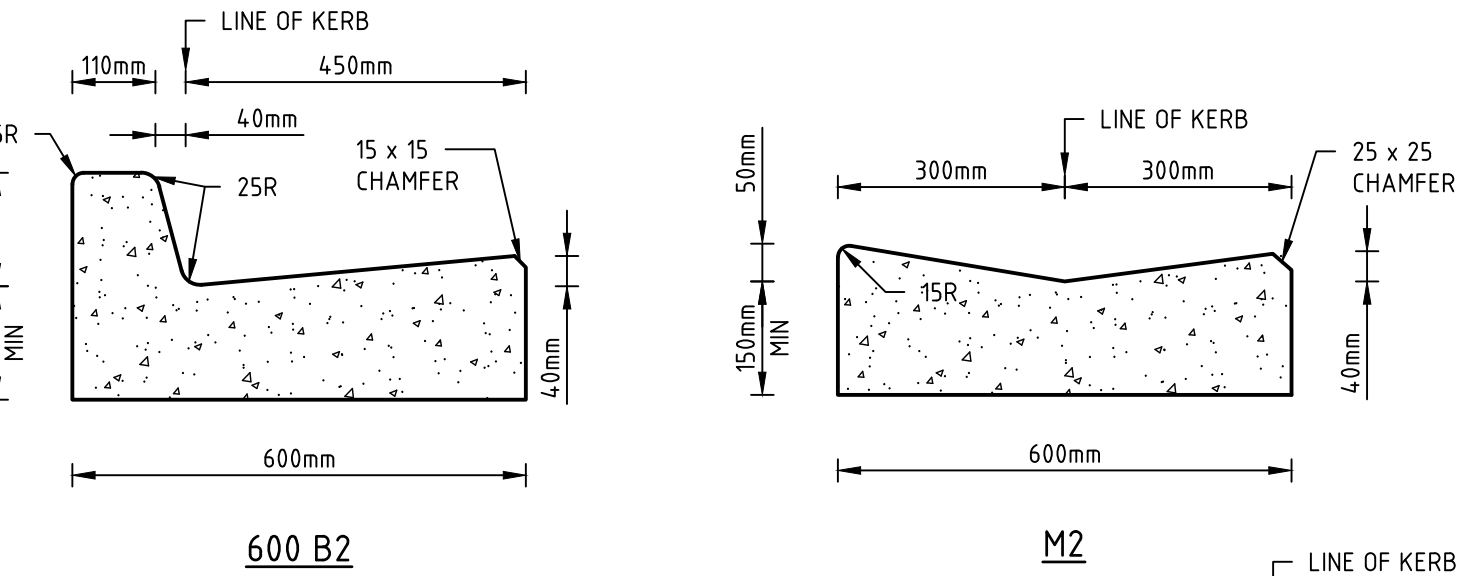
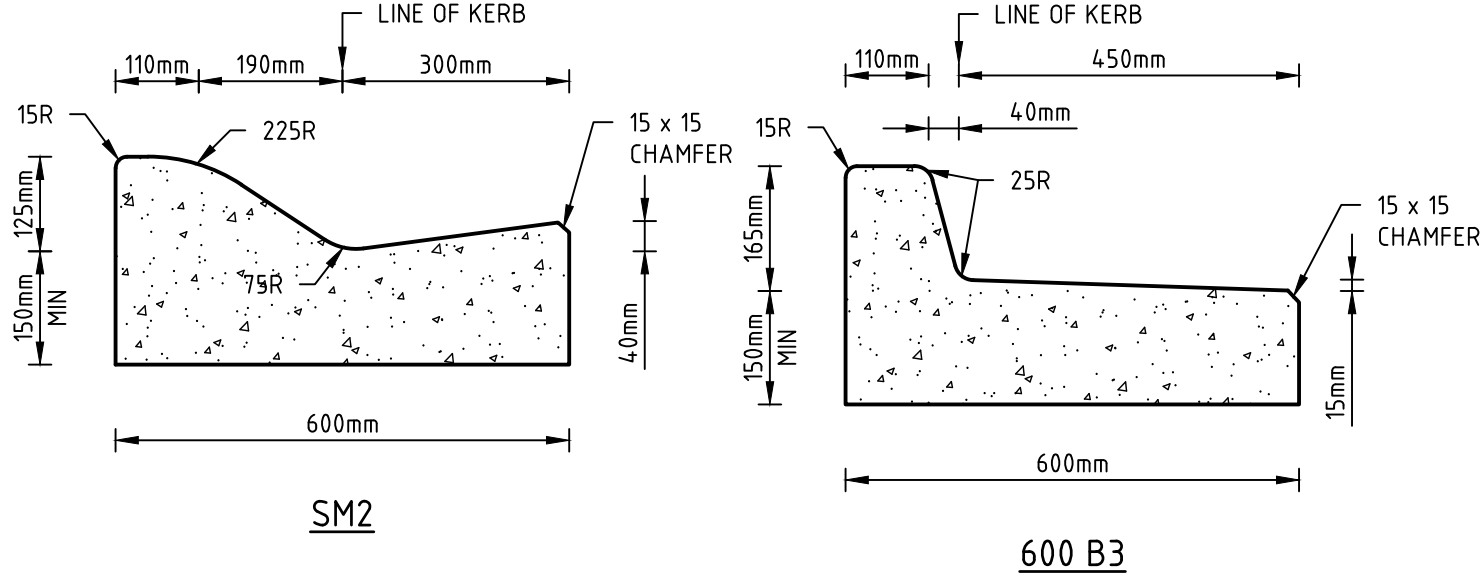
PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)				
		TYPE A*	TYPE 5A* Option 1	TYPE 5A* Option 2	RESHEET Option 1	RESHEET Option 2
WEARING COURSE ASPHALT	SIZE 10mm TYPE N 320 BINDER	30	-	-	-	-
WEARING COURSE ASPHALT	SIZE 14mm TYPE N	-	40	40	40	40
INTERMEDIATE COURSE	SIZE 20mm TYPE SI (PLACED IN TWO LAYERS)	-	-	150	-	150
BASE COURSE ASPHALT	SIZE 14mm TYPE HP	-	40	-	40	-
BASE COURSE ASPHALT	SIZE 10mm TYPE N 320 BINDER	30	-	-	-	-
BITUMINOUS PRIME	CUT BACK BITUMEN OR BITUMEN EMULSION PRIMER SEAL ^(U)	NOMINAL	NOMINAL	-	-	-
BASE	20mm Nominal SIZE, CLASS 2 CRUSHED ROCK	130	110	-	110	-
UPPER SUBBASE	20mm SIZE, CLASS 2 VICROADS CRUSHED	-	100	-	-	-
LOWER SUBBASE	20mm SIZE CLASS 3 CRUSHED ROCK	-	180	-	-	-
LOWER SUBBASE	20mm SIZE CLASS 4 CRUSHED ROCK, COMPACTED TO MINIMUM MODIFIED DENSITY RATIO OF 97%	-	-	190	-	-
SUBBASE	20mm SIZE CLASS 3 OR 20mm 3 CRUSHED CONCRETE. (MORE THAN ONE LAYER MAYBE REQUIRED).	230	-	-	-	-
TOTAL PAVEMENT DEPTH		420	470	380	190	190

* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES

ROAD NAME	TYPE
BROWN ROAD	5A/RESHEET
CUMMINS STREET	A
HEFFERMAN DRIVE	A
JOWETT RISE	A
TULLOCH STREET	A

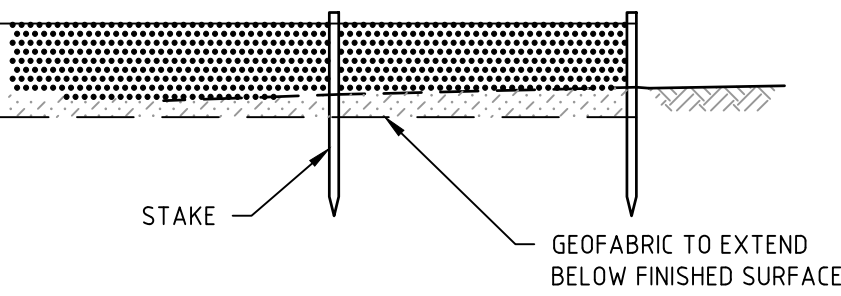
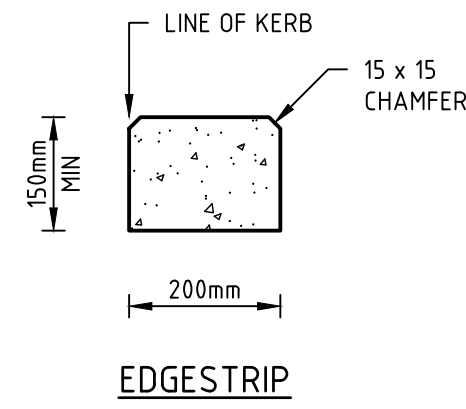
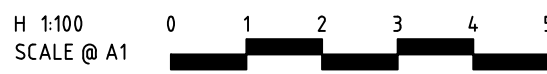
GENERAL NOTES:

- 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.



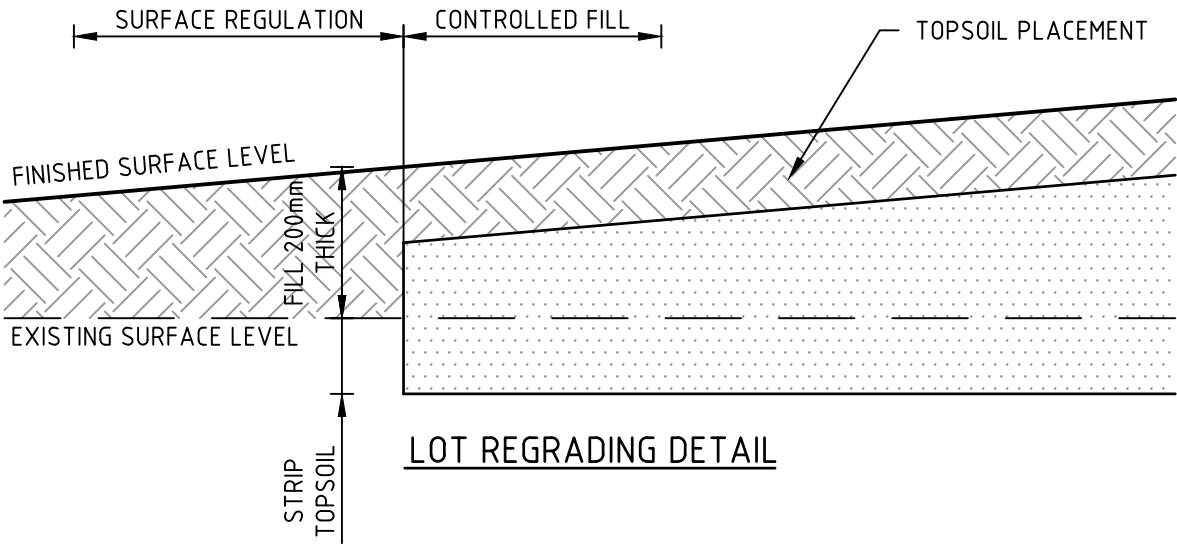
STANDARD KERB PROFILES

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

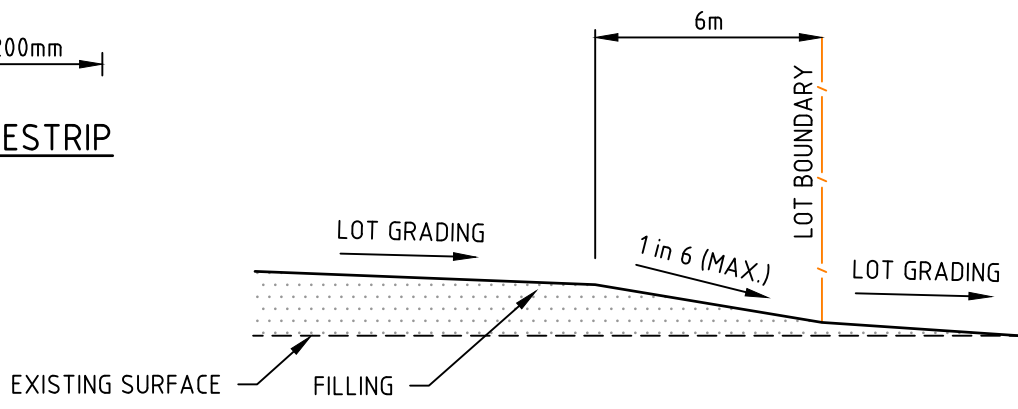


SILT CONTROL FOR LOTS

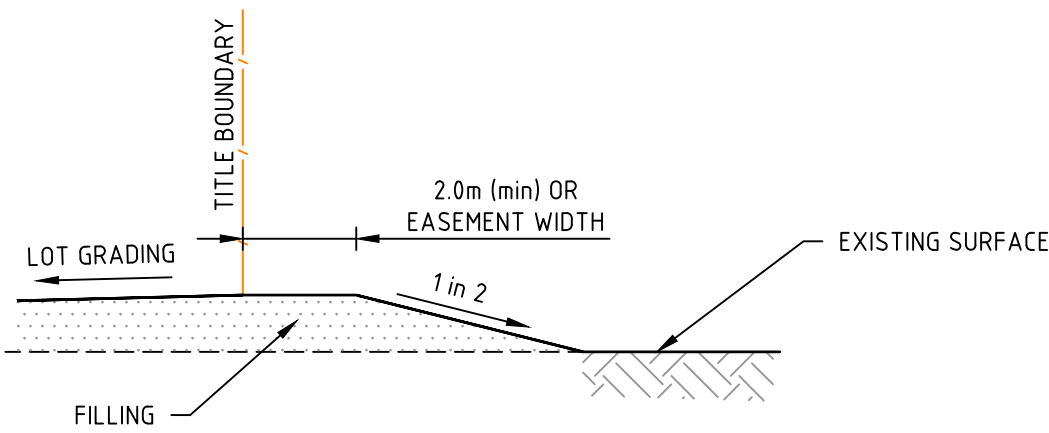
GEOTEXTILE SILT FENCE



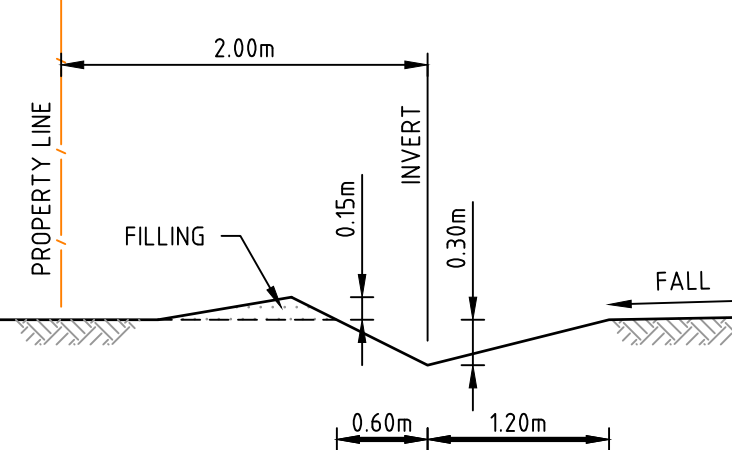
LOT REGRADING DETAIL



BATTER AT BACK OF LOTS TYPICAL DETAIL



LOT FILLING AT STAGE BOUNDARY



TYPICAL CATCH DRAIN SECTION

PAVEMENT DETAILS

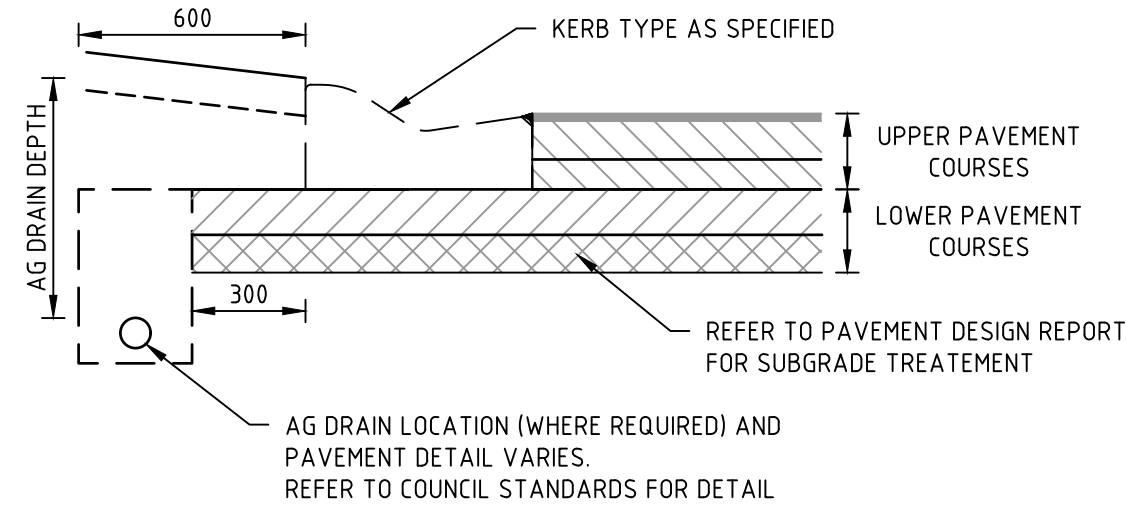
THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY DOUGLAS PARTNERS PTY LTD, WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF DOUGLAS PARTNERS PTY LTD.

THE DESIGN HAS BEEN EXTRACTED FROM THE 95313 01R.002 REV0 REPORT ON "GEOTECHNICAL INVESTIGATION FOR OFFICER FIELD" 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.

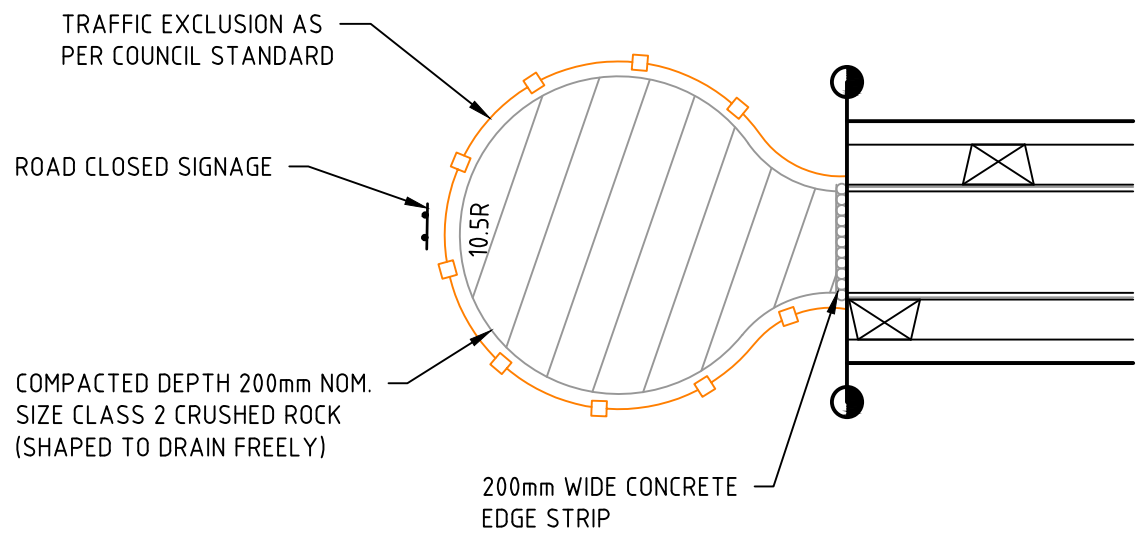
ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO DOUGLAS PARTNERS PTY LTD AND COPIED TO SPIIRE.



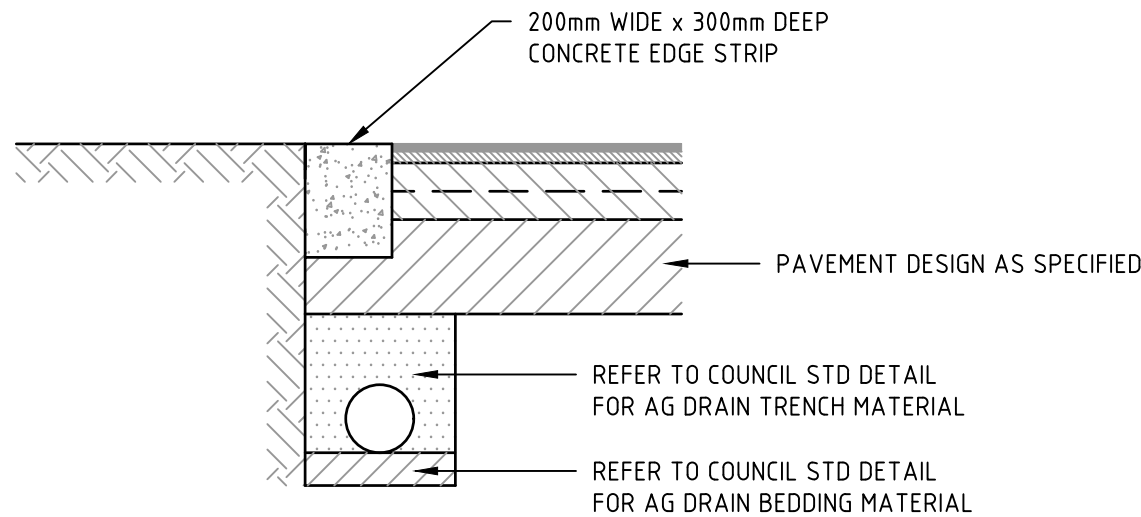
TYPICAL SUBSURFACE DRAIN DETAIL FOR NON-EXPANSIVE SUBGRADE

REFER TO AUTHORITY REQUIREMENTS FOR SPECIFIC DETAILS

NOT TO SCALE

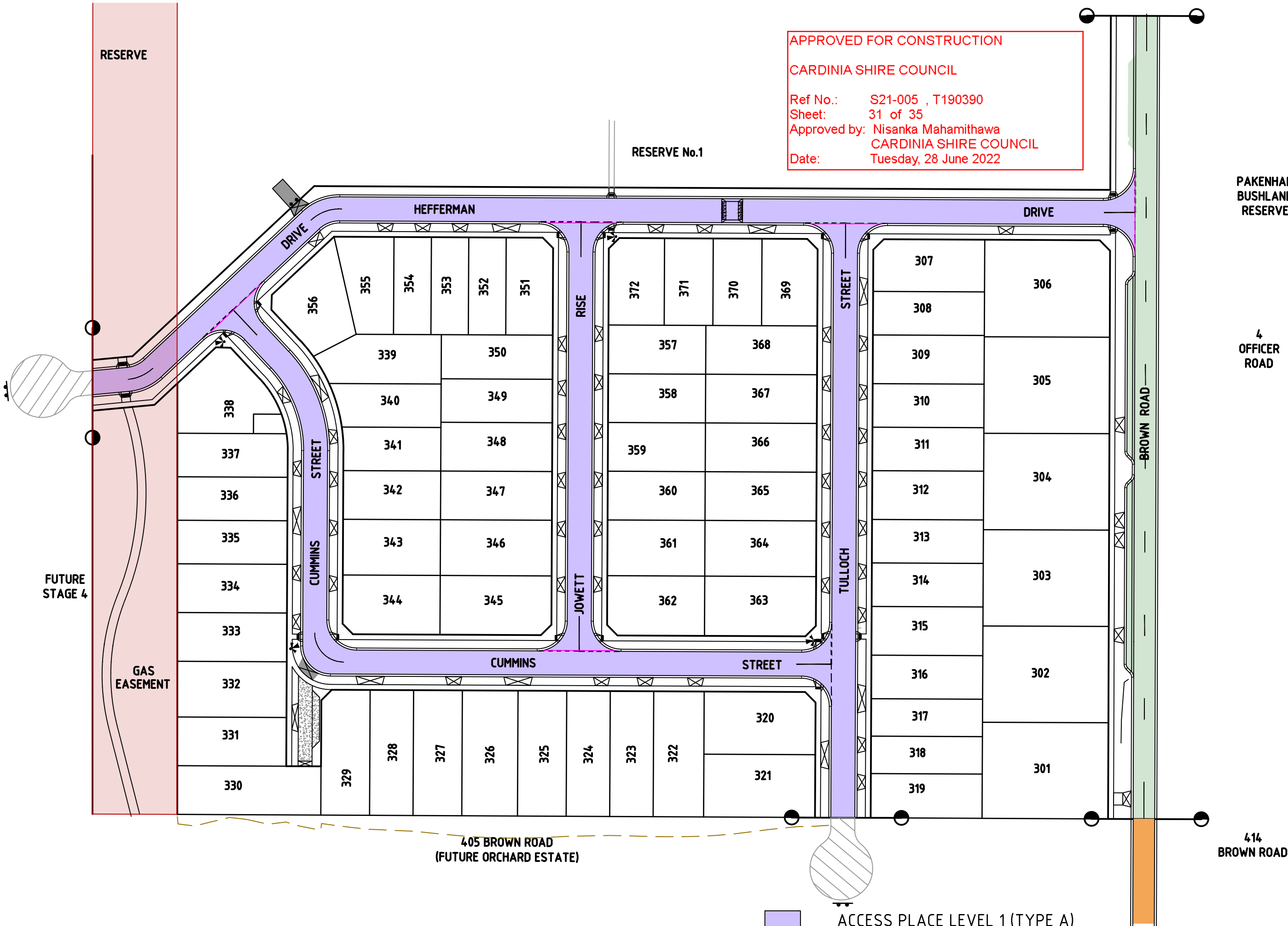


TEMPORARY TURNING AREA DETAIL

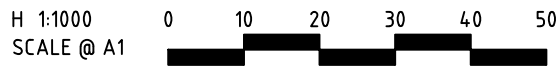


LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE DETAIL

NOT TO SCALE



PAVEMENT PLAN



- ACCESS PLACE LEVEL 1 (TYPE A)
- CONCRETE LANEWAY (REFER CR701 FOR DETAILS)
- RESHEET ASPHALT (FLEXIBLE)
- 5A ACCESS STREET LEVEL 2



MGA 2020
ZONE 55

PAKENHAM
BUSHLAND
RESERVE

4
OFFICER
ROAD

414
BROWN ROAD

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	B.W.	04/05/22
D	UPDATES AS PER COUNCIL COMMENTS	B.W.	28/04/22
C	UPDATES AS PER COUNCIL COMMENTS	B.W.	22/03/22
B	ISSUED TO COUNCIL	B.W.	01/12/21
A	PRELIMINARY ISSUE	B.W.	19/11/21

Scale



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VICTORIA 8007 AUSTRALIA T 61 3 9993 7888
spiire.com.au ABN 55 050 029 635

YourLand
Developments

Designed
A.CHARALAMBOUS
Checked
B.WAREHAM
Date
19/11/2021

**OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
PAVEMENT AND TYPICAL DETAILS - SHEET 1**
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Drg No 308003CR700 Rev 0

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 $\geq 1.0 \text{ L/m}^2$	NOMINAL
SUBBASE COURSE	VICROADS CTCR, CLASS 3 SIZE 20MM CRUSHED ROCK OR CRUSHED CONCRETE WITH 5% CEMENT (MOIST CURED)	125
TOTAL PAVEMENT DEPTH		310

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;

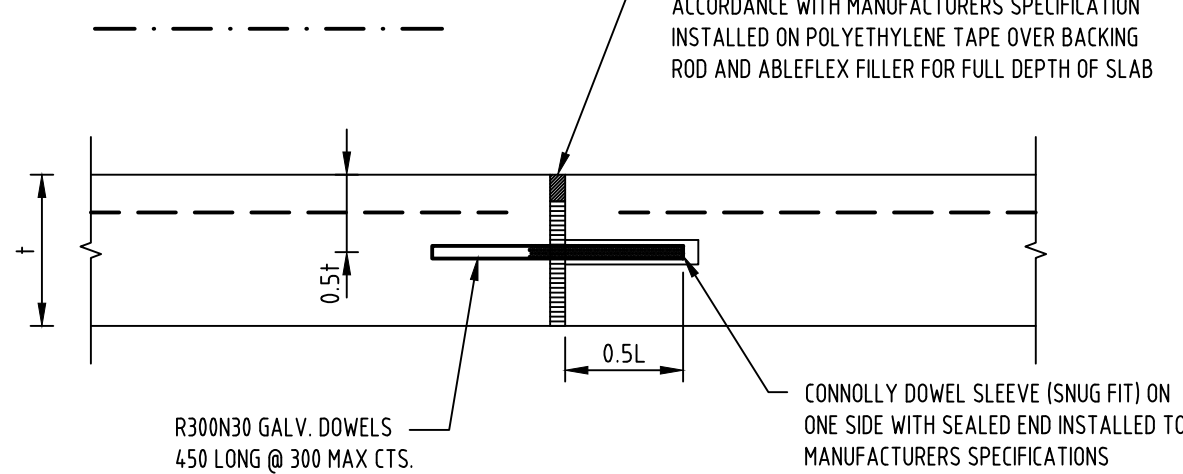
BASE PANEL WIDTHS SHOULD NOT EXCEED 4.2 M.

CONTRACTION JOINTS SHOULD BE PROVIDED AT A SPACING NOT EXCEEDING 4.2 M.

FULL DEPTH 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, 1M LONG TIE BARS SHOULD BE PROVIDED AT 300 MM CENTRES.



225

75

EMER-SEAL P440 CLEANED,
PRIMED AND INSTALLED TO
MANUFACTURED SPECIFICATION
ON POLYETHYLENE TAPE.

ABLEFLEX FILLER FOR FULL
DEPTH OF SLAB

REINFORCING MESH (SL 92)
SHOULD BE CENTRALLY PLACED

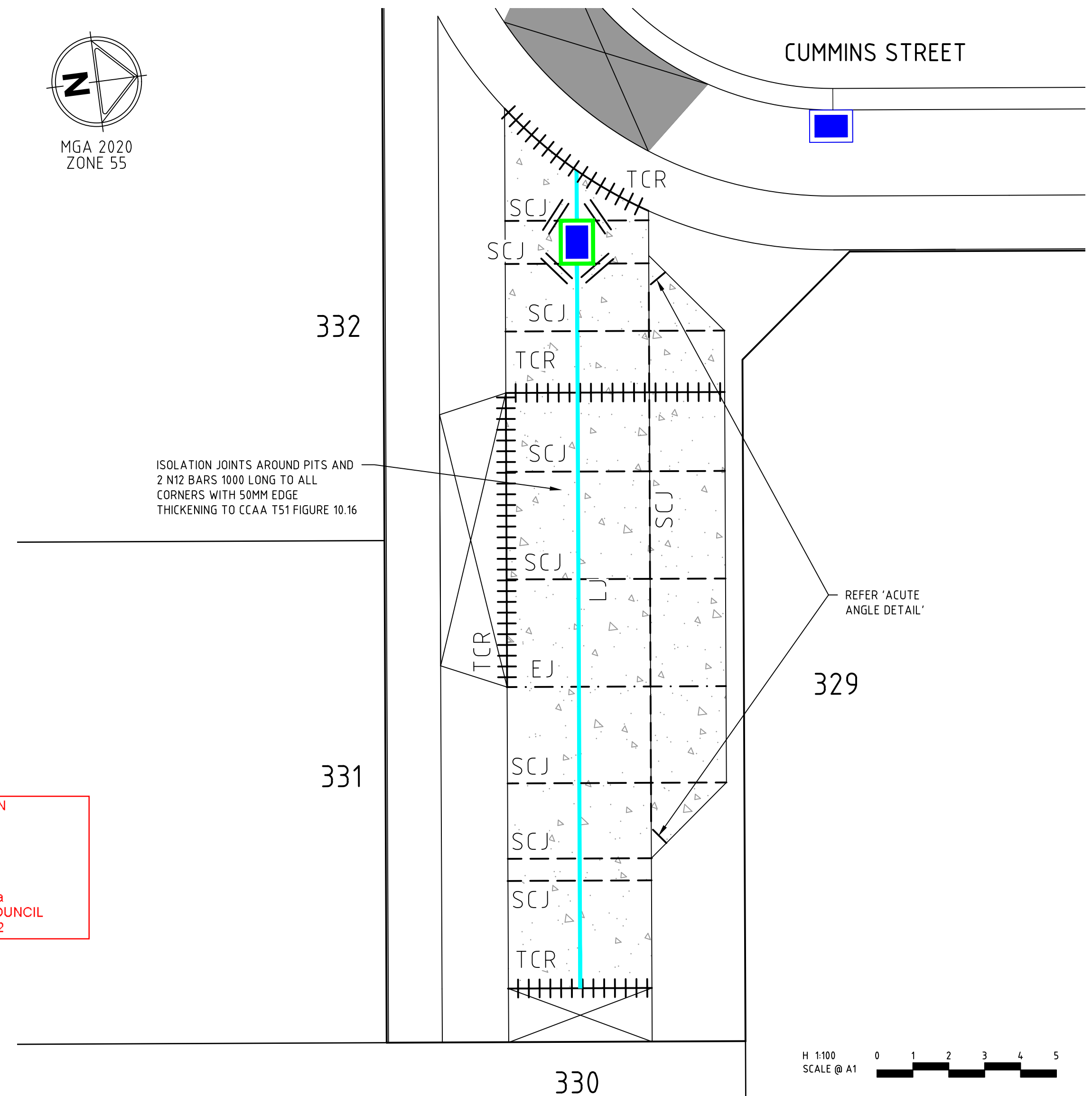
Technical drawing of a wall cross-section showing the installation of a window frame. The drawing includes dimensions for the window frame (75mm width, 50mm min cover), the wall (450mm thick), and the window frame components (R300 N36 GALV DOWELS 450 LONG @ 300MAX CTS, BOND BREAKING COMPOUND, CAP REQUIRED FOR EXPANSION JOINT).

Technical drawing showing a cross-section of a repair detail. The drawing includes the following labels and dimensions:

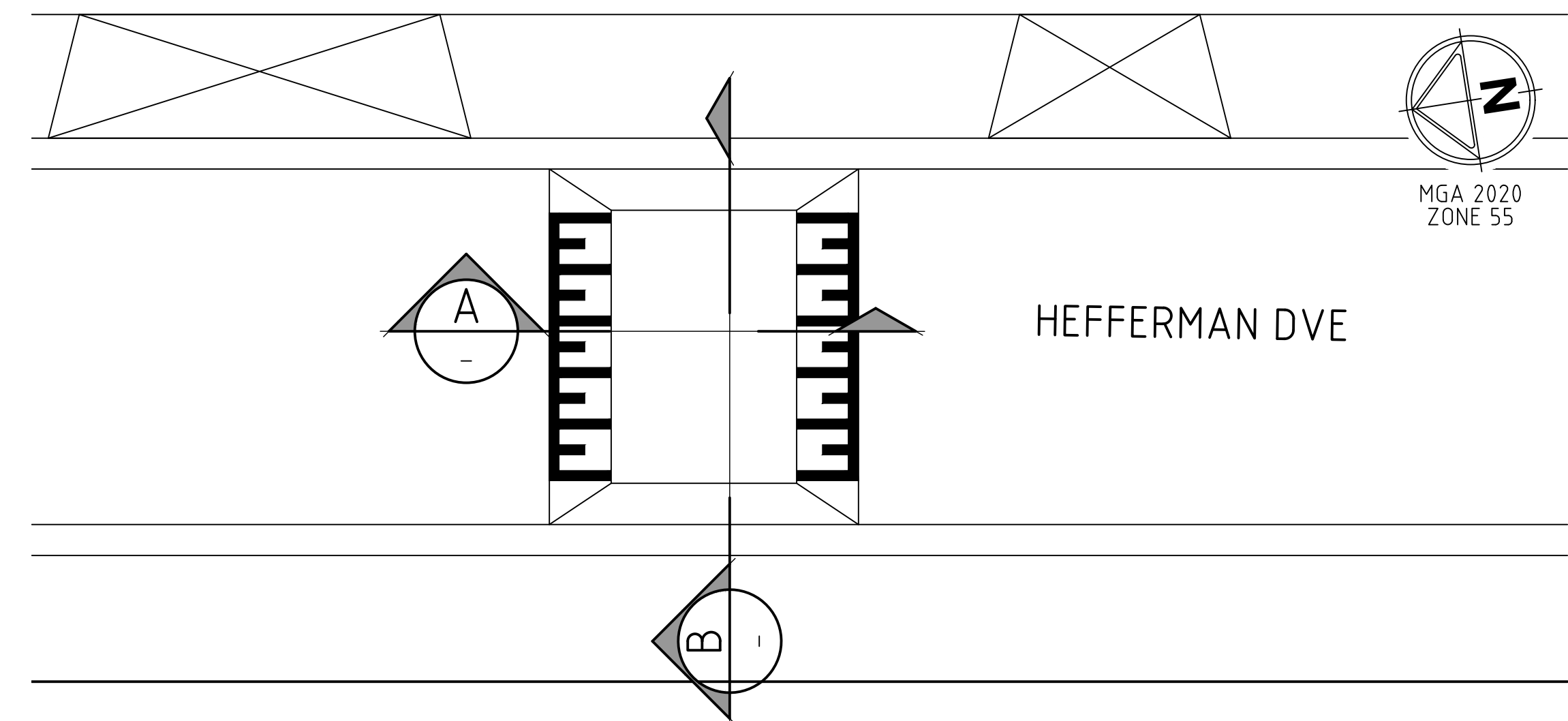
- 50mm MIN COVER (top and bottom)
- 0.31" DEEP SAW CUT
- 75
- SEALANT
- INDUCED CRACK
- 0.51
- R300 N36 GALV DEFORMED TIE BAR 450 LONG @ 300MAX CTS
- BOND BREAKING COMPOUND
- 0.5L
- 50mm MIN COVER (bottom)

SECTION A
N.T.S. -

SECTION B
N.T.S.

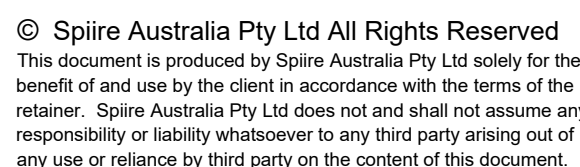


H 1:100
SCALE @ A1



H 1:100
SCALE @ A1

0	ISSUED FOR CONSTRUCTION	B.W.	04/05/22
D	UPDATES AS PER COUNCIL COMMENTS	B.W.	28/04/22
C	UPDATES AS PER COUNCIL COMMENTS	B.W.	22/03/22
B	ISSUED TO COUNCIL	B.W.	01/12/21
A	PRELIMINARY ISSUE	B.W.	19/11/21
Rev	Amendments	Approved	Date



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

Authorised
B.WAREHAM

Checked

Date
19/11/2021

PRELIMINARY Drg No **308003CR701**

Rev
0



Ref No.: S21-005 , T190390
Sheet: 33 of 35
Approved by: Nisanka Mahamithawa
CARDINIA SHIRE COUNCIL
Date: Tuesday, 28 June 2022

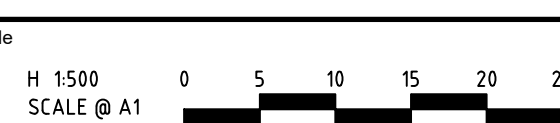


4
OFFICER
ROAD



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

0	ISSUED FOR CONSTRUCTION	B.W	04/05/22
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Designed	Checked
A.CHARALAMBOUS	
Authorised	Date
B.WAREHAM	19/11/2021

OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
SIGNAGE AND LINEMARKING - SHEET 1
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Drg No 308003CR800 Rev 0

- TYPE R IS TO BE ROCK RETAINING WALL
- TYPE C IS TO BE CONCRETE SLEEPER RETAINING WALL



ALIGNMENT W			
POINT NO	EASTING	NORTHING	RL
W1	36184.0 010	5787271.153	51.000
W2	361852.369	5787269.277	51.450
W3	361864.727	5787267.401	51.900
W4	361878.569	5787265.299	52.350
W5	361892.411	5787263.198	52.800
W6	361908.228	5787260.797	53.000
W7	361922.071	5787258.695	53.200
W8	361935.699	5787256.626	53.200



ALIGNMENT R			
POINT NO	EASTING	NORTHING	RL
R1	361907.365	5787305.704	55.800
R2	361909.762	5787302.417	56.150
R3	361911.652	5787302.121	56.300
R4	361942.080	5787297.361	56.900
R5	361942.287	5787297.328	56.900

0	ISSUED FOR CONSTRUCTION	B.W	04/05/22
C	UPDATES AS PER COUNCIL COMMENTS	B.W.	22/03/22
B	ISSUED TO COUNCIL	B.W.	01/12/21
A	PRELIMINARY ISSUE	B.W.	19/11/21
Rev	Amendments	Approved	Date

Scale

NOT TO SCALE



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Designed
A.CHARALAMBOUS

Authorised
B.WAREHAM

Checked

Date
19/11/2021

OFFICER FIELDS
STAGE 3
ROAD AND DRAINAGE
MISCELLANEOUS - SHEET 2
CARDINIA SHIRE COUNCIL
YOURLAND PTY LTD

PRELIMINARY Drg No 308003CR901 Rev 0