

# MAMBOURIN STAGE 41 FRASERS PROPERTY LTD

## GENERAL NOTES:

### SURVEY

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) 94 & ZONE 55.
- ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE MUNICIPAL ENGINEER OR HIS REPRESENTATIVE.
- ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB.

### EARTHWORKS

- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- WHERE REQUIRED ANY BUILDINGS, 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 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 AS PER RELEVANT AUTHORITY STANDARD, UNLESS NOTED OTHERWISE.
- 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 STORM WATER DRAINS ARE TO BE CLASS '2' R.C. PIPES UNLESS OTHERWISE SHOWN.

- CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
- WHERE CURVED PIPES ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- HOUSE DRAINS NOT OUT OF PIT TO BE OFFSET IN ACCORDANCE WITH COUNCIL STANDARDS UNLESS NOTED OTHERWISE.

### PAVEMENT

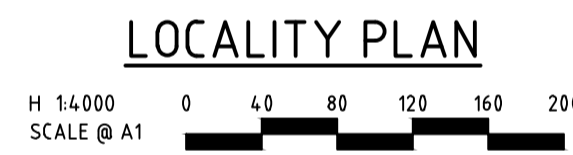
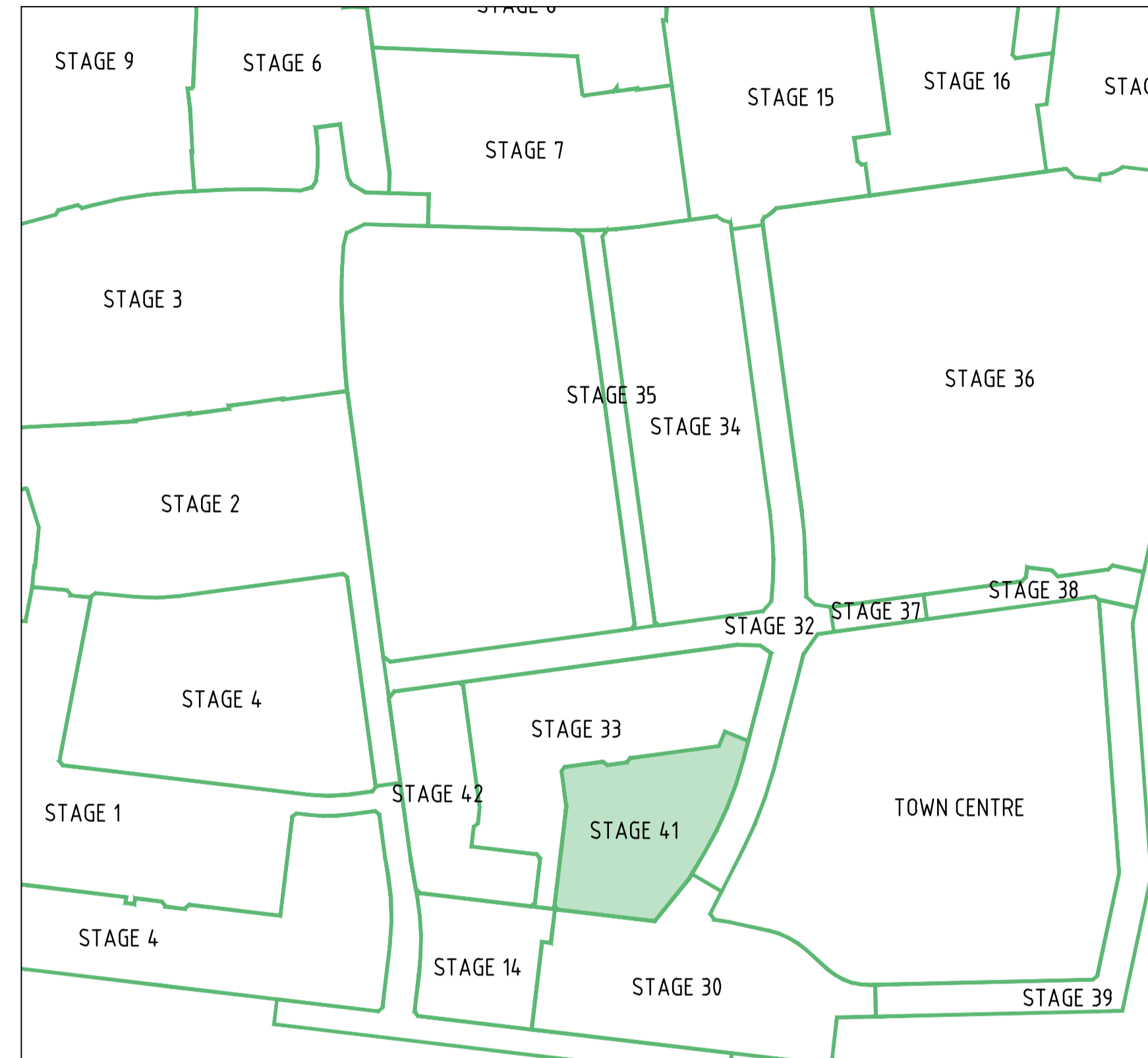
- PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
- WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED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

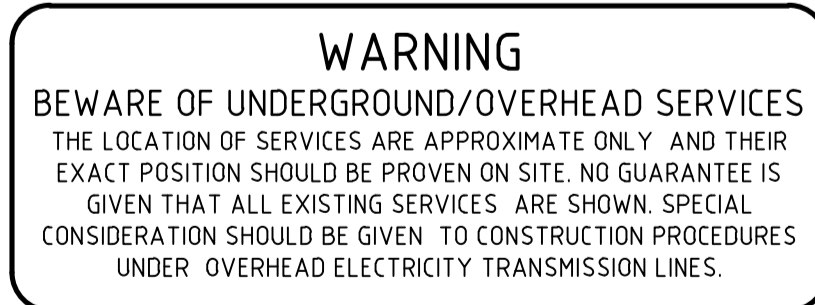
### ENVIRONMENTAL

- 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.



## DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	FACE SHEET	1	5
CR200	LAYOUT PLAN	2	5
CR201	SERVICE PLAN	3	4
CR300	ROAD LONGITUDINAL SECTIONS	4	3
CR400	ROAD CROSS SECTIONS - SHEET 1	5	3
CR401	ROAD CROSS SECTIONS - SHEET 2	6	2
CR500	INTERSECTION DETAILS	8	0
CR600	DRAINAGE LONG SECTIONS	9	3
CR700	PAVEMENT AND TYPICAL DETAILS - SHEET 1	10	3
CR701	PAVEMENT AND TYPICAL DETAILS - SHEET 2	11	2
CR800	SIGNAGE AND LINEMARKING	12	4



## LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	DW	DW
WATER RECYCLED	NDW	NDW
UNDERGROUND ELECTRICITY	E	E
OPTIC FIBRE	OF	OF
GAS MAIN	G	G
SEWER & MAINTENANCE STRUCTURE	S	S
CENTRAL INVERT	>	>
COUNCIL STORMWATER DRAIN AND PIT	[Symbol]	[Symbol]
STORM WATER DRAINAGE PROPERTY INLETS	[Symbol]	[Symbol]
COUNCIL STORM WATER PITS	[Symbol]	[Symbol]
HOUSE DRAIN	H	H
AG DRAIN AND FLUSHER	AG	AG
STORM WATER DRAINAGE PIT NUMBER	Ex 4.7	1
GAS & WATER CONDUITS	GW	GW
CONCRETE VEHICLE CROSSING	[Symbol]	[Symbol]
HEAVY DUTY VEHICLE CROSSING	[Symbol]	[Symbol]
SURFACE CONTOUR MINOR	- 169.00 -	169.00
SURFACE CONTOUR MAJOR	- 168.90 -	168.90
SURFACE LEVEL	E123.45	F124.68
BATTER LEVEL (TOP / TOE)	T124.80	T124.80
RETAINING WALL LEVEL (TOP/BOTTOM)	TW112.76	TW128.50 BW126.74
EARTHWORKS GRADE	[Symbol]	1 in 150
SIGN AND POST	[Symbol]	[Symbol]
LIGHT & POLE (BY OTHERS)	[Symbol]	[Symbol]
STREET SIGN	[Symbol]	[Symbol]
PERMANENT SURVEY MARK	[Symbol]	[Symbol]
TEMPORARY BENCH MARK	[Symbol]	[Symbol]
BOLLARD	[Symbol]	[Symbol]
ROAD CHAINAGES	CH116.57 (L/R)T/P CH116.57	CH116.57 (L/R)T/P CH116.57
LOT CHAINAGES	CH20.06	CH20.06
SETOUT POINT	[Symbol]	A2
LIMIT OF WORKS	[Symbol]	[Symbol]
BATTER	[Symbol]	[Symbol]
EXCAVATION GREATER THAN 0.20m	[Symbol]	[Symbol]
FILLING GREATER THAN 0.20m	[Symbol]	[Symbol]
FENCE - VEHICLE EXCLUSION	[Symbol]	[Symbol]
FENCES	[Symbol]	[Symbol]
TACTILE GROUND SURFACE INDICATOR	[Symbol]	[Symbol]
ROAD PAVEMENT	[Symbol]	[Symbol]
CONCRETE PAVEMENT	[Symbol]	[Symbol]
HEAVY DUTY CONCRETE PAVEMENT	[Symbol]	[Symbol]

CCS V00000 87 WITH 5mm DEEP CUTS IN 900mm x 500mm GRID PATTERN

file name: 310818CR100.dwg, layout name: CS100, plotted by: Gary Kuhlman, file location: G:\310818\310818.dwg, plot date: 10/05/2024, 1:50 PM, sheet: 1 of 11 Sheets

Rev	Amendments	Approved	Date
5	AMENDMENTS TO EXPOSED AGGREGATE DETAILS	M.R	08/05/24
4	REVISED LOT LAYOUT & TO COUNCIL COMMENTS	M.R	05/04/24
3	REVISED EXPOSED AGGREGATE, LANEWAY KERB, SUPERLOT DRAIN & BATTER	M.R	01/02/24
2	REVISED LOT LAYOUT	M.R	02/08/23
1	REVISED LOT LAYOUT & PLEINAIR LANE	M.R	20/06/23
0	ISSUED FOR CONSTRUCTION	M.R	24/05/23
C	REVISED TO COUNCIL COMMENTS	M.R	28/04/23
B	ISSUED FOR TENDER	M.R	18/04/23

L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE  
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Designed  
**K.NGUYEN**

Authorised  
**G.KOHLMAN**

Checked  
**G.KOHLMAN**

Date  
**24/05/23**

**MAMBOURIN  
STAGE 41  
ROAD AND DRAINAGE  
GENERAL NOTES - SHEET 1  
WYNDHAM CITY COUNCIL  
FRASERS PROPERTY LTD**

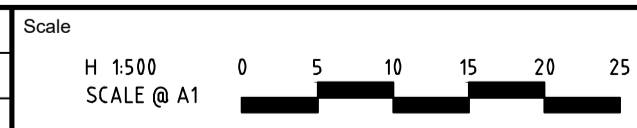
Drg No  
**310818CR100**

Rev  
**5**



**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	Description	Approved	Date
5	AMENDMENTS TO EXPOSED AGGREGATE DETAILS	M.R	08/05/24
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B	ISSUED FOR TENDER	M.R	18/04/23



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**FRASERS PROPERTY**

Designed  
K.NGUYEN

Authorised  
G.KOHLMAN

**Mambourin**

Checked  
G.KOHLMAN

Date  
24/05/23

**MAMBOURIN STAGE 41**  
ROAD AND DRAINAGE  
ROAD LAYOUT PLANS - SHEET 1  
WYNDHAM CITY COUNCIL  
FRASERS PROPERTY LTD

**CONSTRUCTION** Drg No 310818CR200 Rev 5

file name: 310818CR200.dwg, layout: rsm, csg200, plotted by: Gary Kishman, file location: G:\310818CR200\A1.dwg, plot date: 10/05/2024, 13:11 PM, Sheet 2 of 11 Sheets



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SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY		RECYCLED WATER	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE SIDE	U/G CABLE SIDE	SIDE	OFFSET
ATTRACTION WAY	W	3.00	W	2.10	E	1.85	E 1.00x	E 2.45	W	2.50

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

file name: 310818CR201.dwg, layout: name: CSD01, plotted by: Gary Kishman, file location: G:\310818CR201\DWG\310818CR201.dwg, plot date: 10/05/2024, 1:31 PM, Sheet: 3 of 11 Sheets

Rev	Amendments	Approved	Date
4	REVISED LOT LAYOUT & TO COUNCIL COMMENTS	M.R	05/04/24
3	ADDED LANEWAY KERB FOR PARKING AREA	M.R	01/02/24
2	REVISED LOT LAYOUT	M.R	02/08/23
1	REVISED LOT LAYOUT & PLEINAIR LANE	M.R	20/06/23
0	ISSUED FOR CONSTRUCTION	M.R	24/05/23
C	REVISED TO COUNCIL COMMENTS	M.R	28/04/23
B	ISSUED FOR TENDER	M.R	18/04/23
A	PRELIMINARY ISSUE	M.R	27/03/23



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Authorised  
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Checked  
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Date  
24/05/23

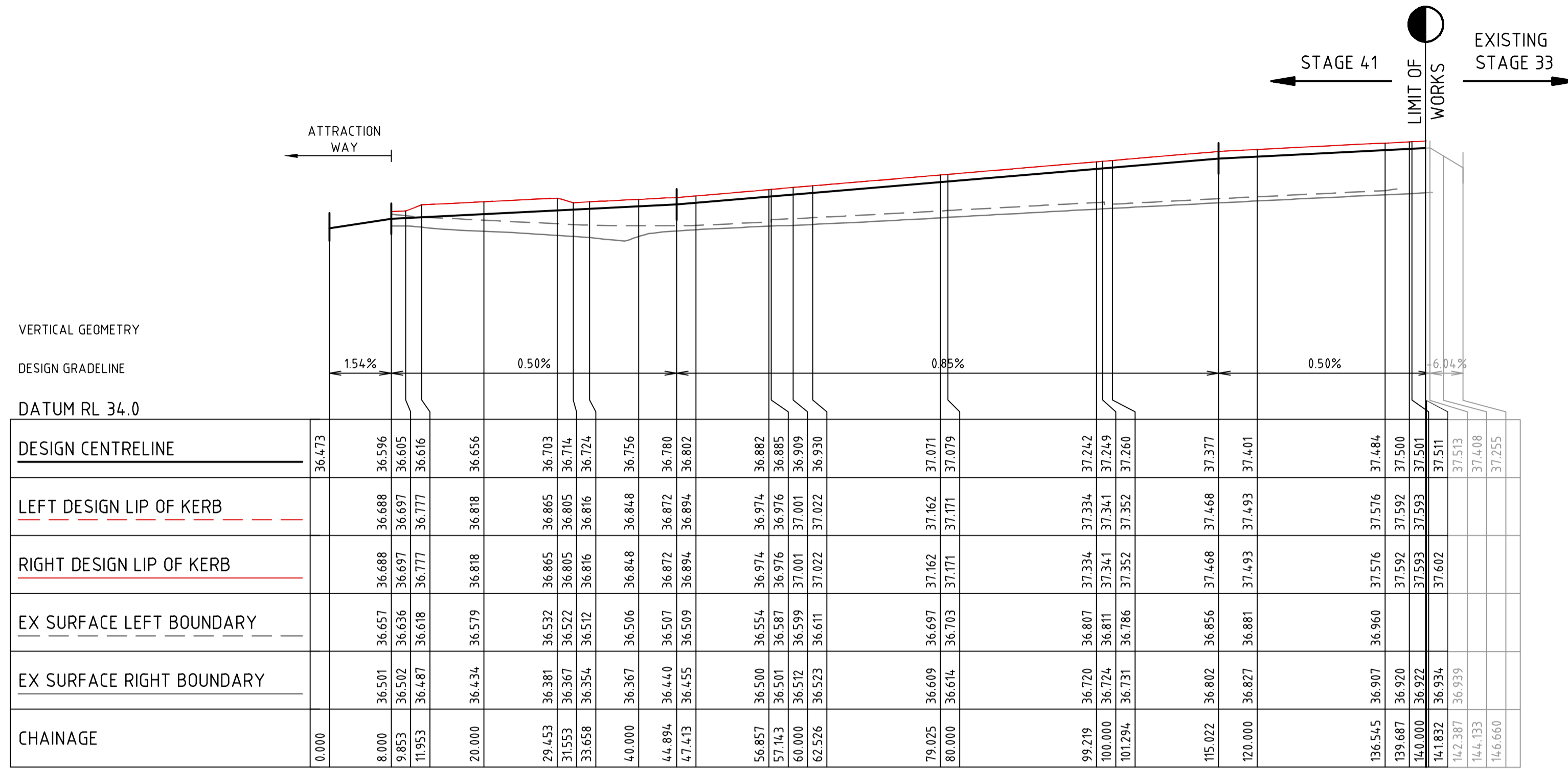
**MAMBOURIN**  
**STAGE 41**  
 ROAD AND DRAINAGE  
 ROAD LAYOUT PLANS - SHEET 2  
 WYNDHAM CITY COUNCIL  
 FRASERS PROPERTY LTD

**CONSTRUCTION**

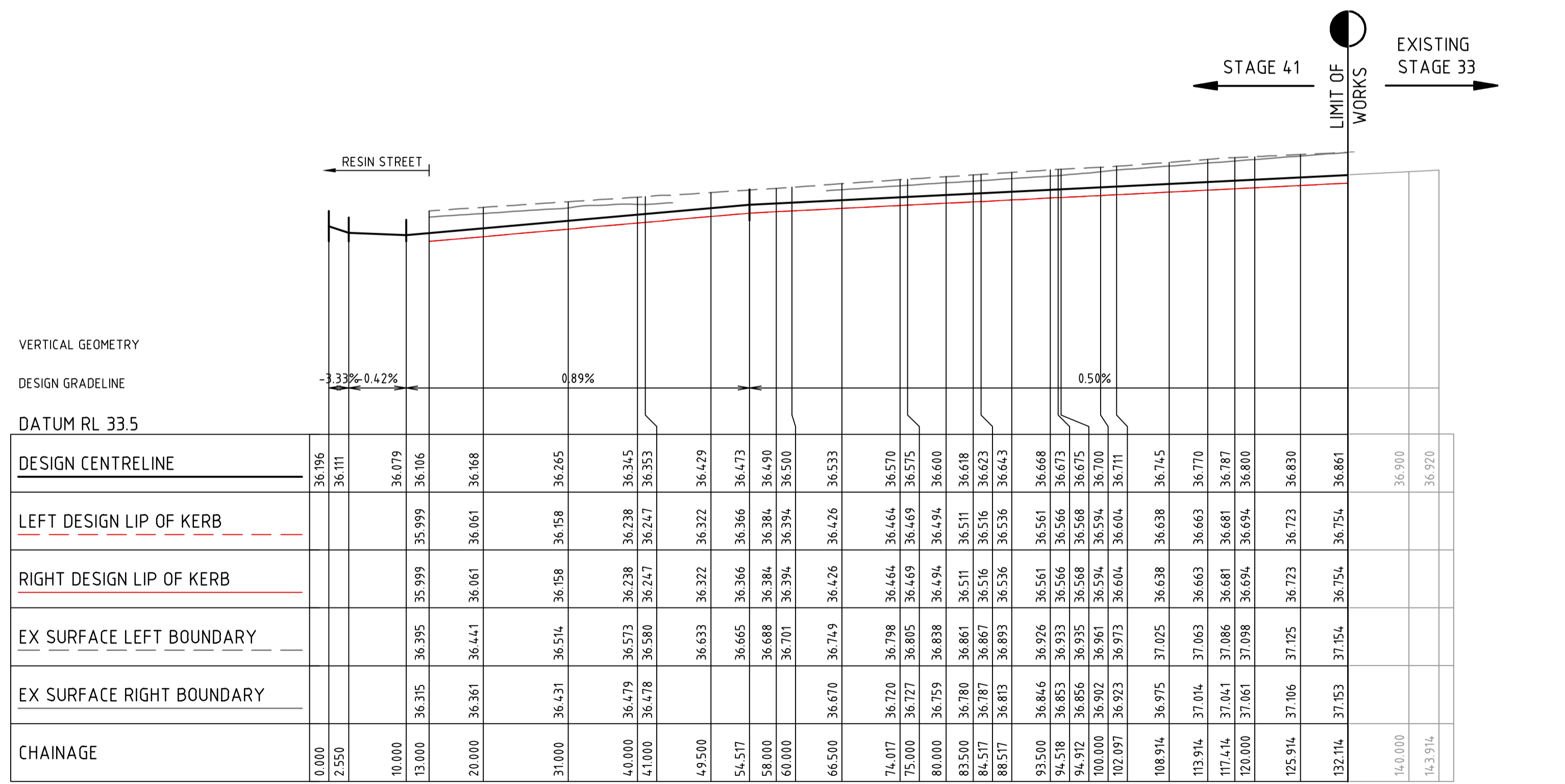
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Rev  
**4**

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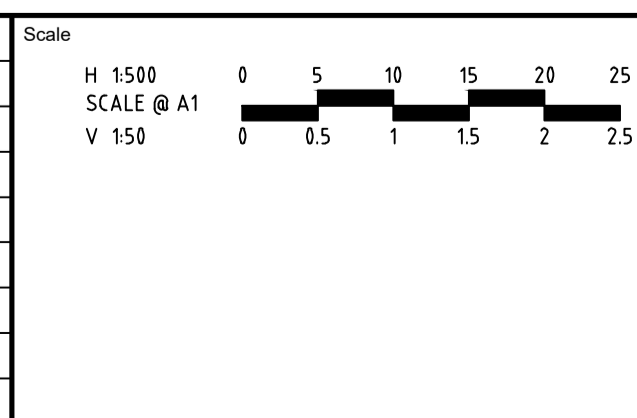


PLEINAIR LANE



ATTRACTION WAY

Rev	Amendments	Approved	Date
3	REVISED LOT LAYOUT	M.R	05/04/24
2	REVISED LOT LAYOUT	M.R	02/08/23
1	REVISED LOT LAYOUT & PLEINAIR LANE	M.R	20/06/23
0	ISSUED FOR CONSTRUCTION	M.R	24/05/23
C	REVISED TO COUNCIL COMMENTS	M.R	28/04/23
B	ISSUED FOR TENDER	M.R	18/04/23
A	PRELIMINARY ISSUE	M.R	27/03/23



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24/05/23

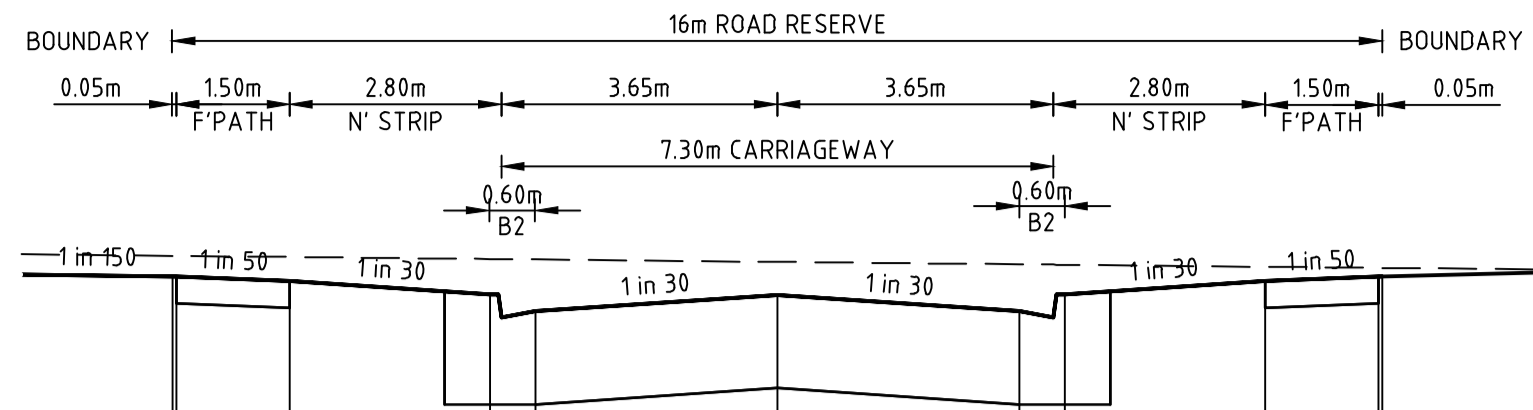
**MAMBOURIN**  
**STAGE 41**  
**ROAD AND DRAINAGE**  
**ROAD LONG SECTIONS - SHEET 1**  
WYNDHAM CITY COUNCIL  
FRASERS PROPERTY LTD

CONSTRUCTION 310818CR300

Rev 3

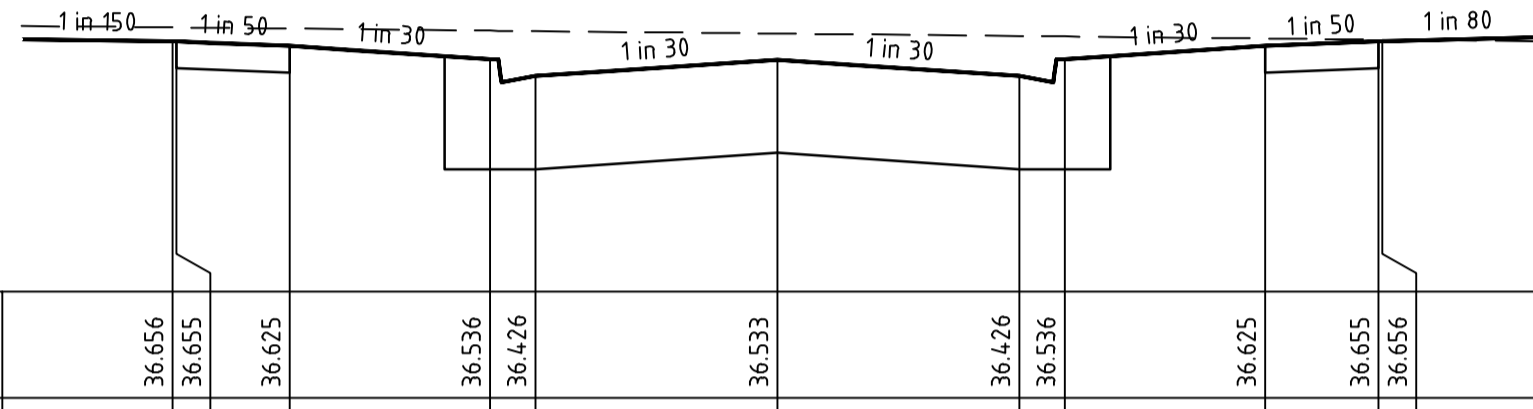
**FILLING NOTE**  
 ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO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

STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1



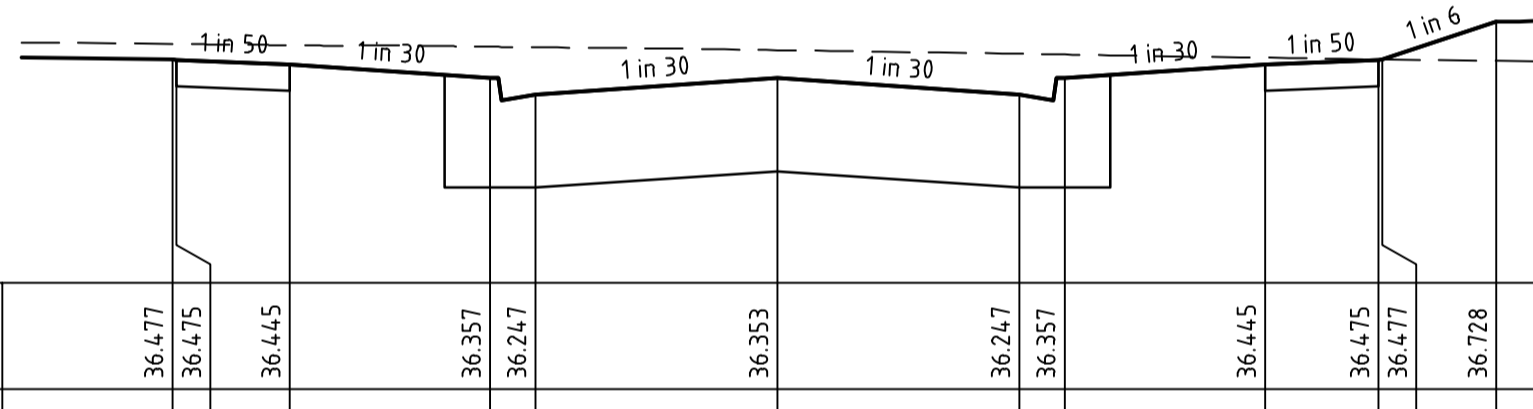
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EXISTING SURFACE LEVEL	-8.000 36.933 36.933 36.935 36.925 36.912 36.909 36.893 36.877 36.877 36.874 36.861 36.861 36.853 36.853 36.853 36.853 36.853
OFFSET	-8.000 -7.950 -6.450 -3.800 -3.200 0.000 3.200 3.800 6.450 7.950 8.000

ATTRACTION WAY CH 94.52



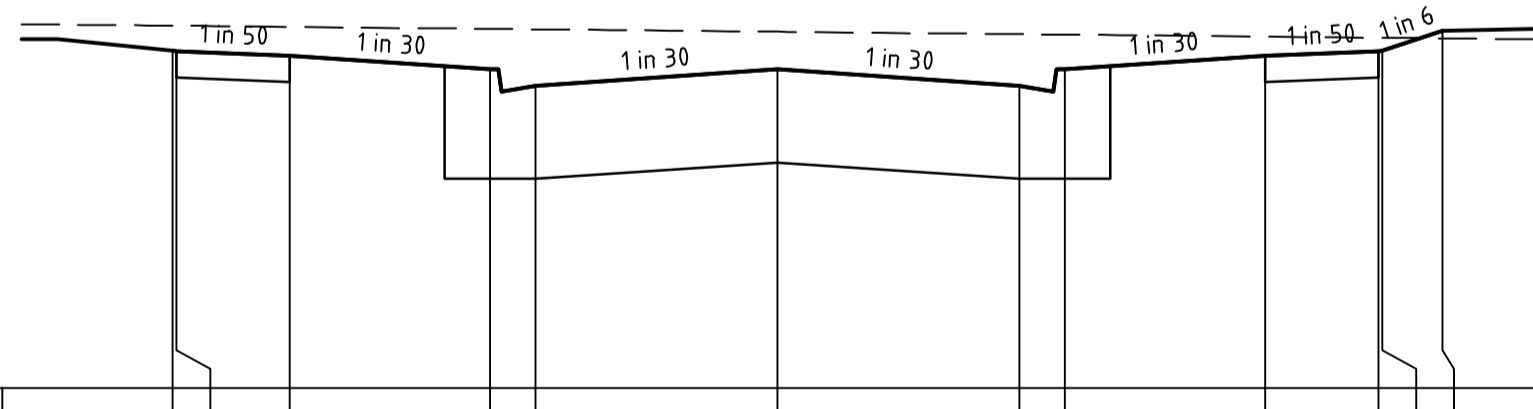
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EXISTING SURFACE LEVEL	-8.000 36.748 36.748 36.748 36.740 36.727 36.724 36.724 36.707 36.691 36.688 36.675 36.675 36.667 36.667 36.667 36.667 36.667
OFFSET	-8.000 -7.950 -6.450 -3.800 -3.200 0.000 3.200 3.800 6.450 7.950 8.000

ATTRACTION WAY CH 66.50



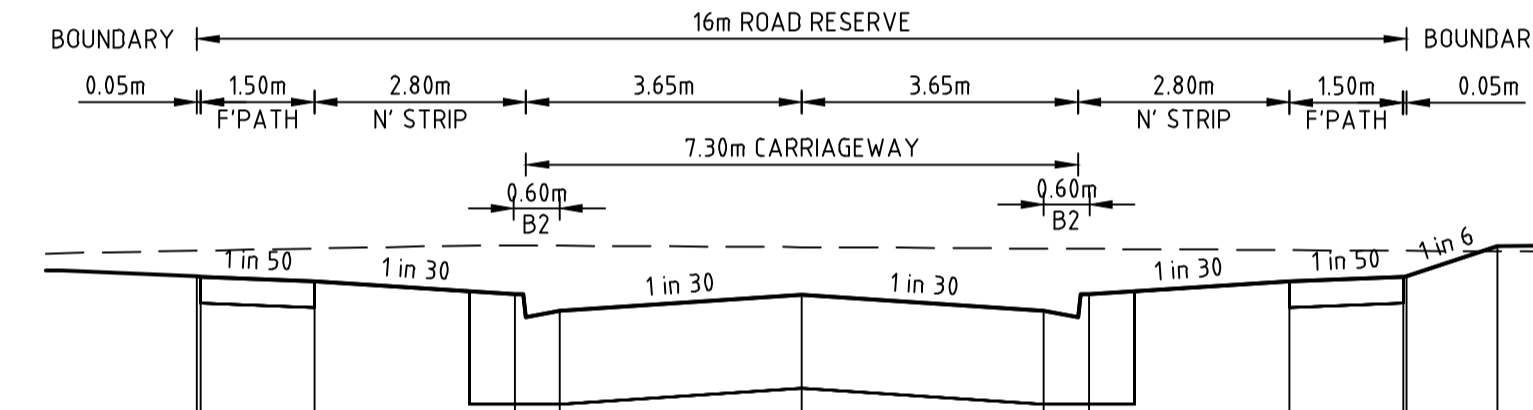
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EXISTING SURFACE LEVEL	-8.000 36.580 36.580 36.580 36.572 36.562 36.558 36.558 36.540 36.515 36.510 36.510 36.490 36.490 36.479 36.478 36.478 36.469 36.469 36.469 36.469 36.469 36.469
OFFSET	-8.000 -7.950 -6.450 -3.800 -3.200 0.000 3.200 3.800 6.450 7.950 8.000 9.511

ATTRACTION WAY CH 41.00



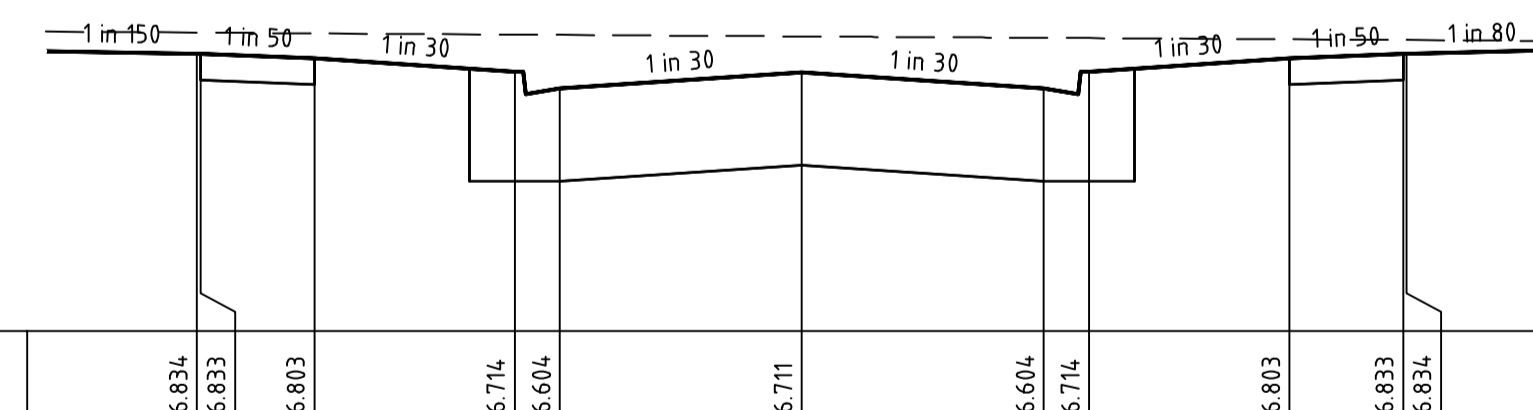
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DESIGN SURFACE LEVEL	-8.000 36.229 36.229 36.227 36.197 36.109 35.999 0.000 36.106 35.999 36.109 36.109 6.450 36.323 36.197 7.950 36.316 36.227 8.000 36.315 36.229 8.800 36.311 36.362
EXISTING SURFACE LEVEL	-8.000 36.395 36.395 36.395 36.388 36.374 36.371 36.355 36.339 36.336 36.336 36.323 36.323 36.316 36.315 36.315 36.311 36.311 36.311 36.311 36.311 36.311 36.311
OFFSET	-8.000 -7.950 -6.450 -3.800 -3.200 0.000 3.200 3.800 6.450 7.950 8.000 8.800

ATTRACTION WAY CH 13.00



DATUM R.L. 35.0	
DESIGN SURFACE LEVEL	-8.000 37.984 37.984 37.983 37.953 37.864 37.754 0.000 37.861 37.754 37.864 37.864 6.450 37.953 37.953 7.950 37.983 37.983 8.000 37.983 37.984 9.200 37.149 37.184
EXISTING SURFACE LEVEL	-8.000 37.154 37.154 37.154 37.146 37.137 37.137 37.117 37.109 37.107 37.107 37.107 37.107 37.107 37.107 37.107 37.107 37.107 37.107 37.107 37.107 37.107 37.107
OFFSET	-8.000 -7.950 -6.450 -3.800 -3.200 0.000 3.200 3.800 6.450 7.950 8.000 9.200

ATTRACTION WAY CH 132.11

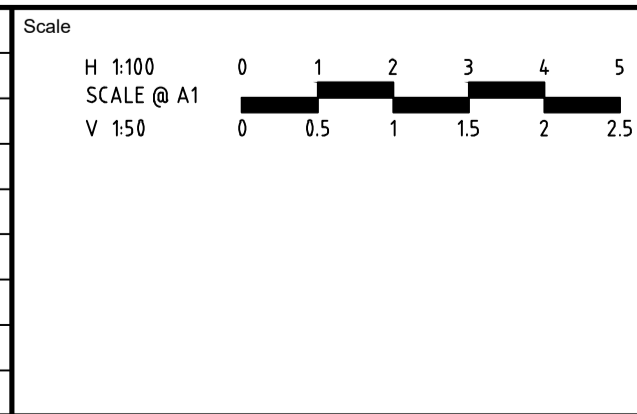


DATUM R.L. 35.0	
DESIGN SURFACE LEVEL	-8.000 36.834 36.834 36.833 36.803 36.714 36.604 0.000 36.711 36.604 36.714 36.714 6.450 36.803 36.803 7.950 36.834 36.834 8.000 36.834 36.834 8.800 36.831 36.862
EXISTING SURFACE LEVEL	-8.000 36.973 36.973 36.973 36.968 36.968 36.968 36.947 36.938 36.938 36.938 36.938 36.938 36.938 36.938 36.938 36.938 36.938 36.938 36.938 36.938 36.938 36.938
OFFSET	-8.000 -7.950 -6.450 -3.800 -3.200 0.000 3.200 3.800 6.450 7.950 8.000 8.800

ATTRACTION WAY CH 102.10

file name: 310818CR400.dwg, layout: name: CH400, plotted by: Gary Kohlman, file location: G:\310818\WV\ACAD\Plot date: 10/05/2024, 13:17 PM, Sheet 5 of 11 Sheets

Rev	Description	Approved	Date
3	ADDITIONAL BATTER ON ATTRACTION WAY	M.R.	01/02/24
2	REVISED LOT LAYOUT	M.R.	02/08/23
1	REVISED LOT LAYOUT & PLEINAIR LANE	M.R.	20/06/23
0	ISSUED FOR CONSTRUCTION	M.R.	24/05/23
C	REVISED TO COUNCIL COMMENTS	M.R.	28/04/23
B	ISSUED FOR TENDER	M.R.	18/04/23
A	PRELIMINARY ISSUE	M.R.	27/03/23
Rev	Amendments	Approved	Date



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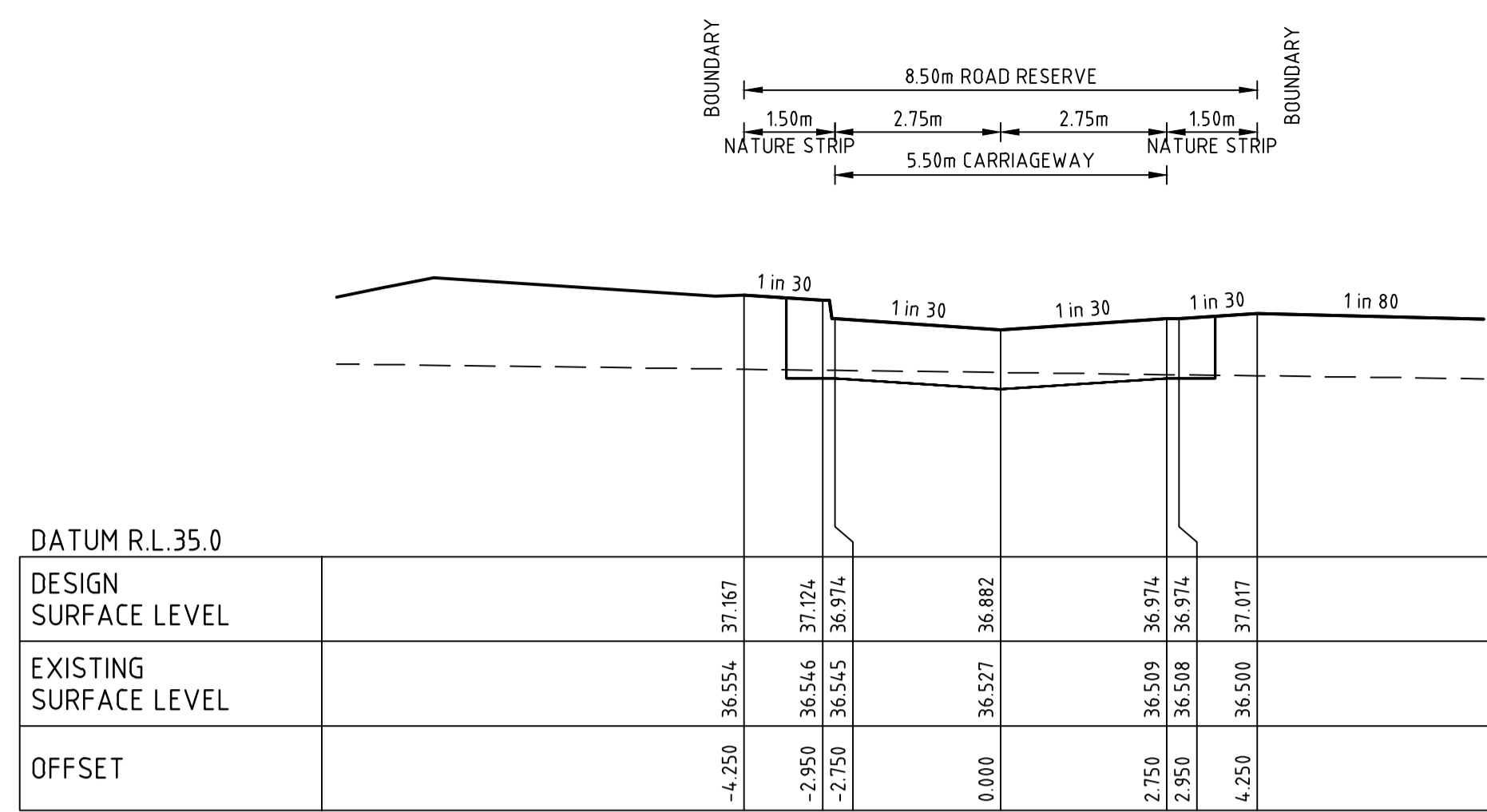
Designed  
 K.NGUYEN  
 Authorised  
 G.KOHLMAN

Checked  
 G.KOHLMAN  
 Date  
 24/05/23

**MAMBOURIN  
 STAGE 41  
 ROAD AND DRAINAGE  
 ROAD CROSS SECTIONS - SHEET 1  
 WYNDHAM CITY COUNCIL  
 FRASERS PROPERTY LTD**

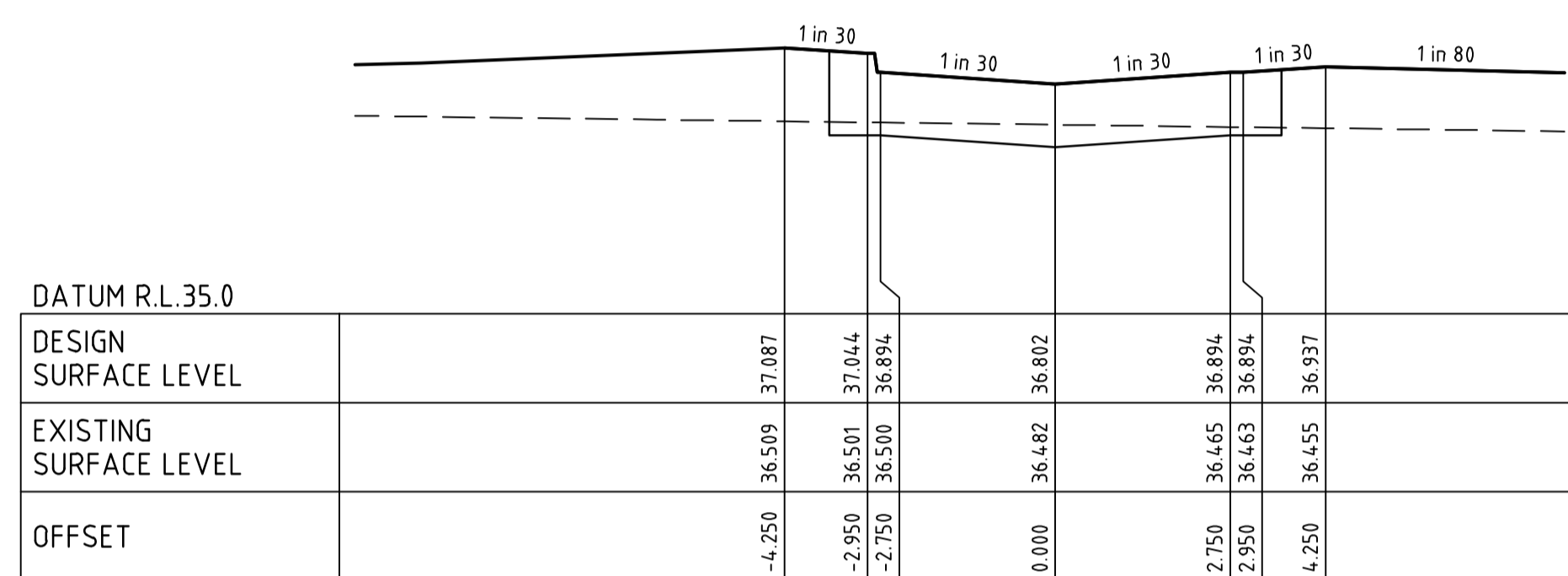
**CONSTRUCTION** 310818CR400

Rev 3



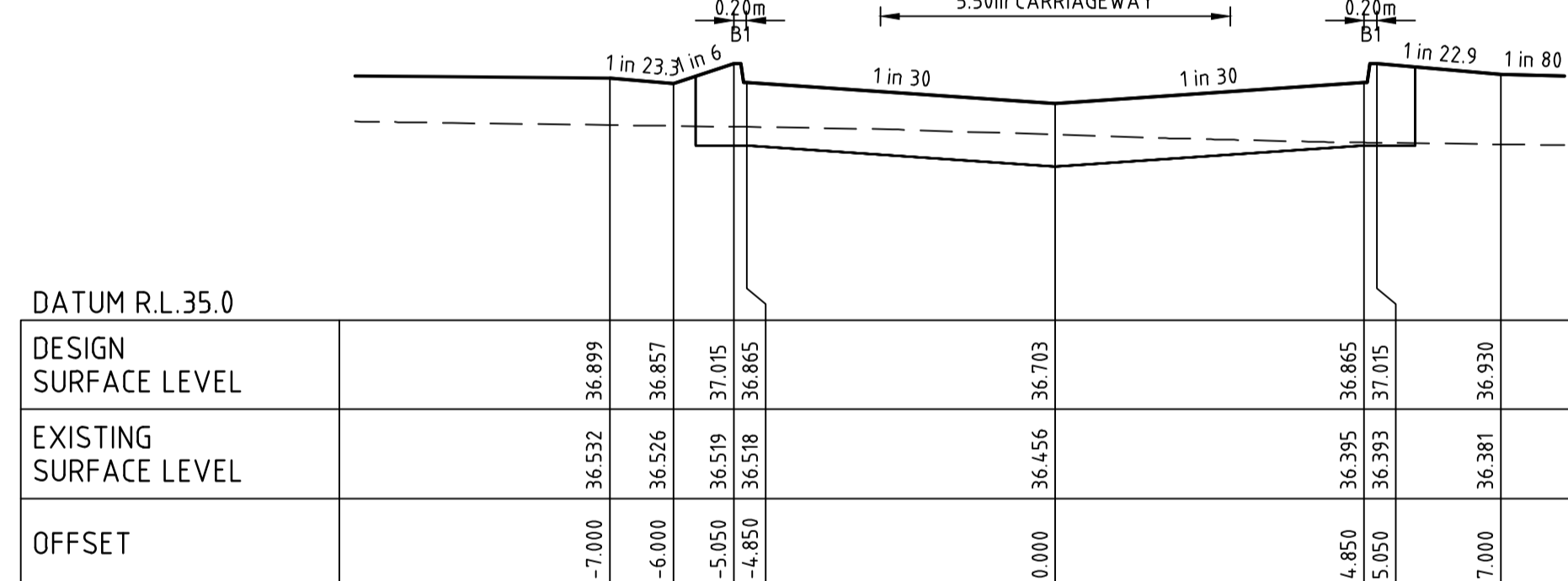
PLEINAIR LANE

CH 56.86



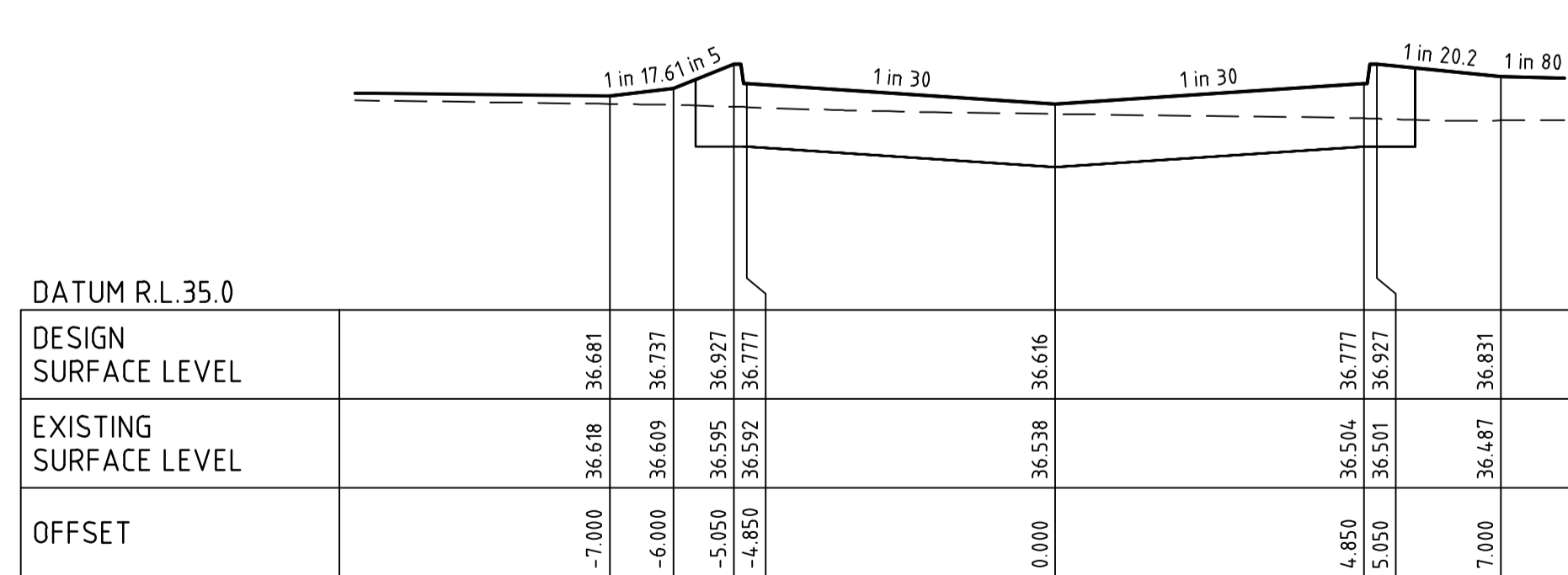
PLEINAIR LANE

CH 47.41



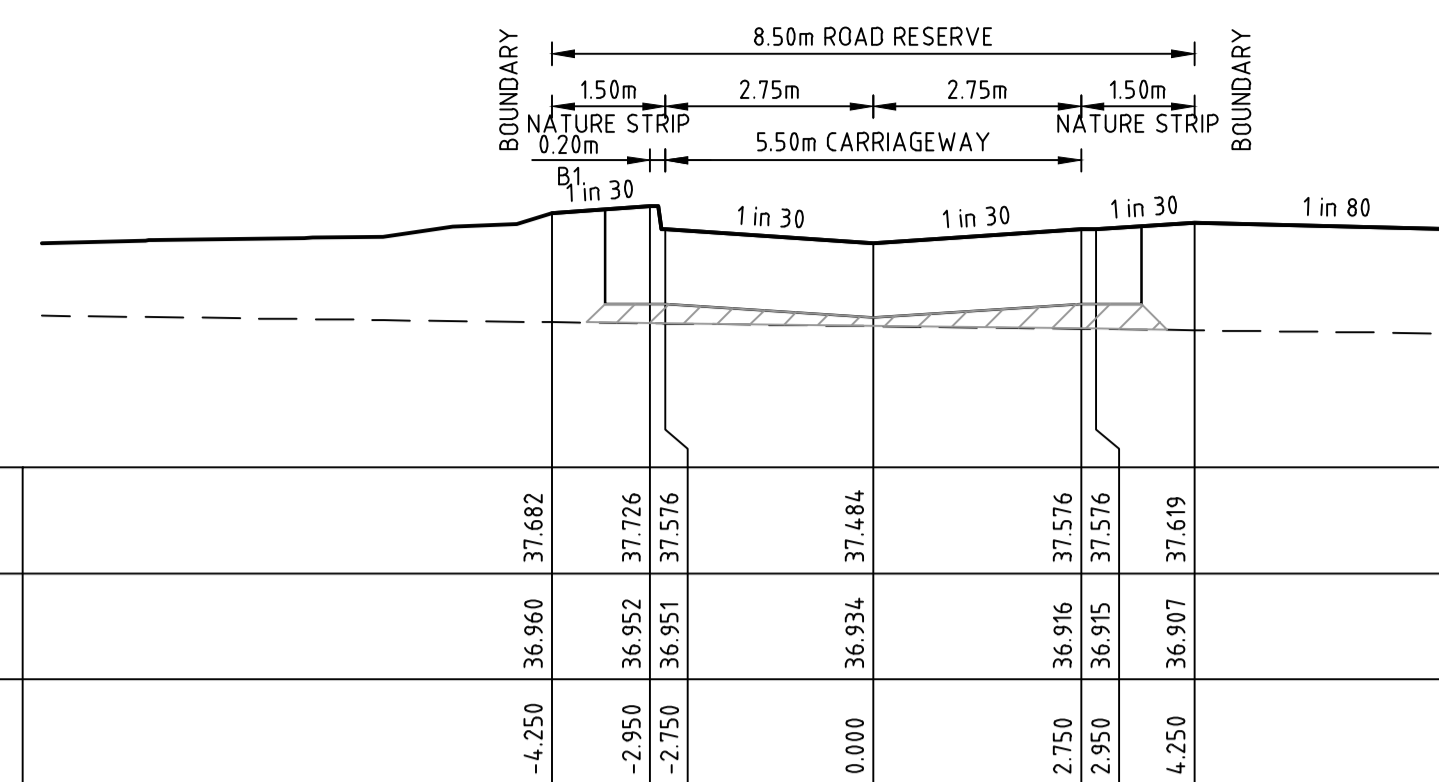
PLEINAIR LANE

CH 29.45



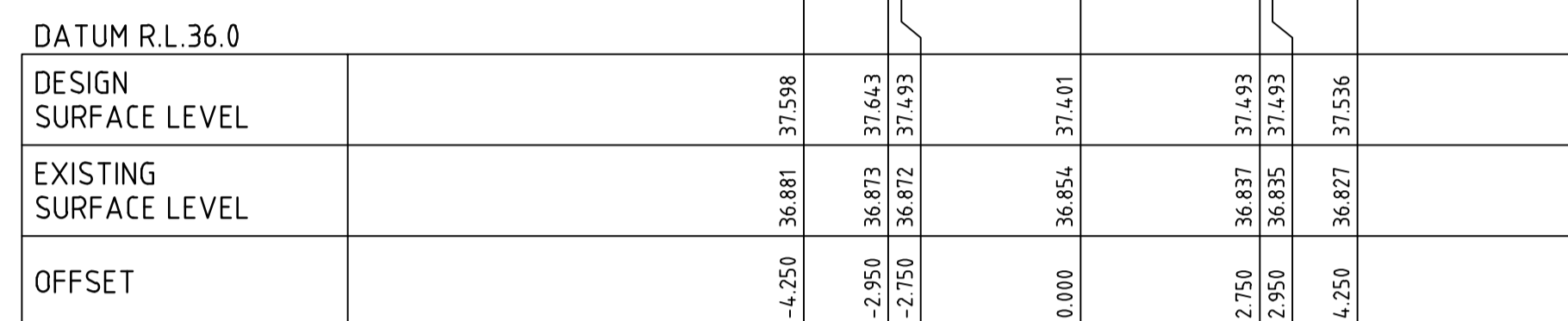
PLEINAIR LANE

CH 11.95



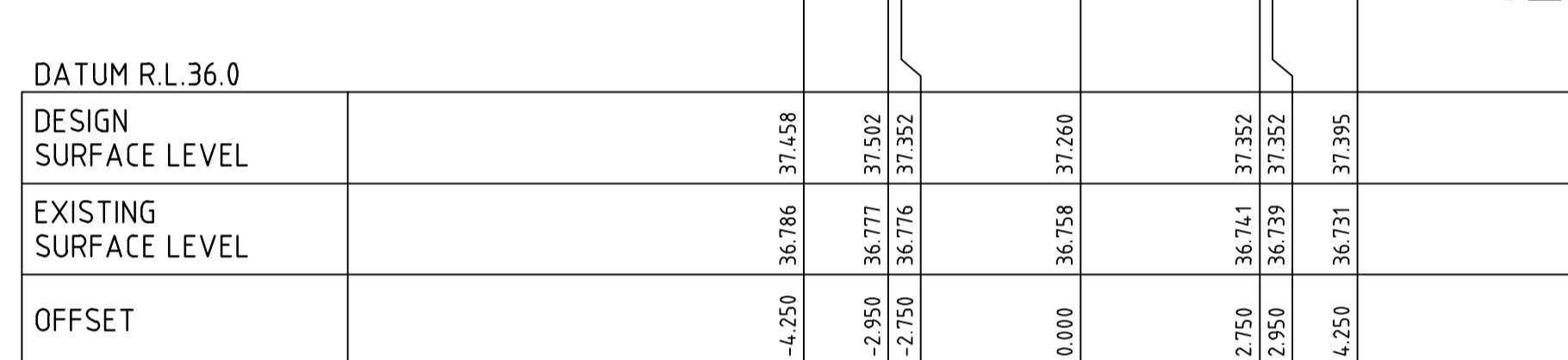
PLEINAIR LANE

CH 136.54



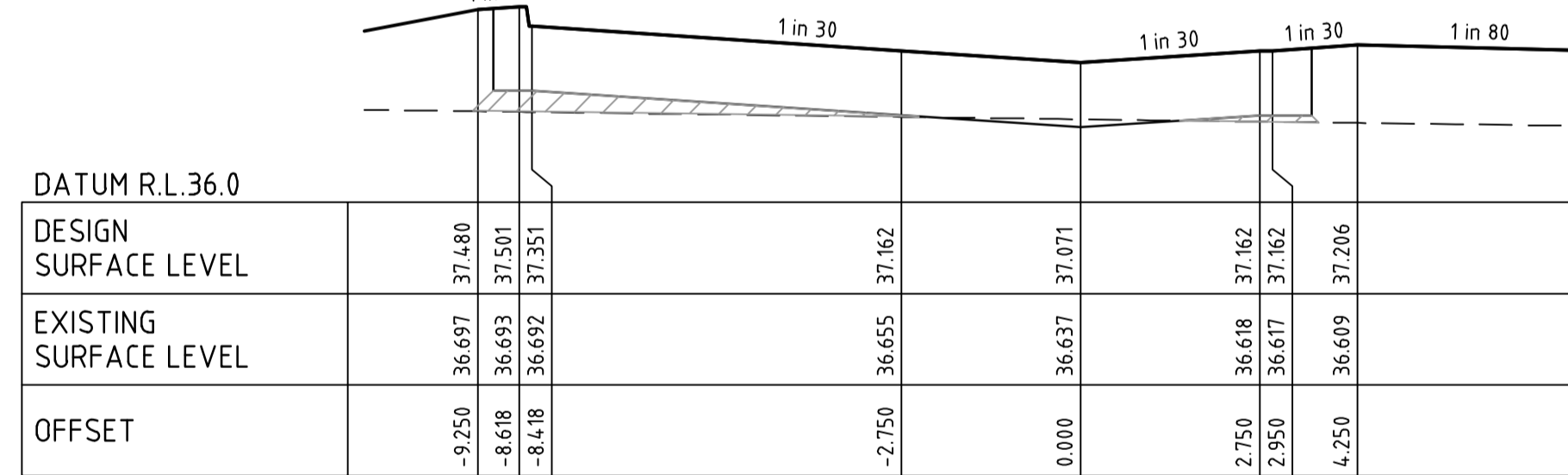
PLEINAIR LANE

CH 120.00



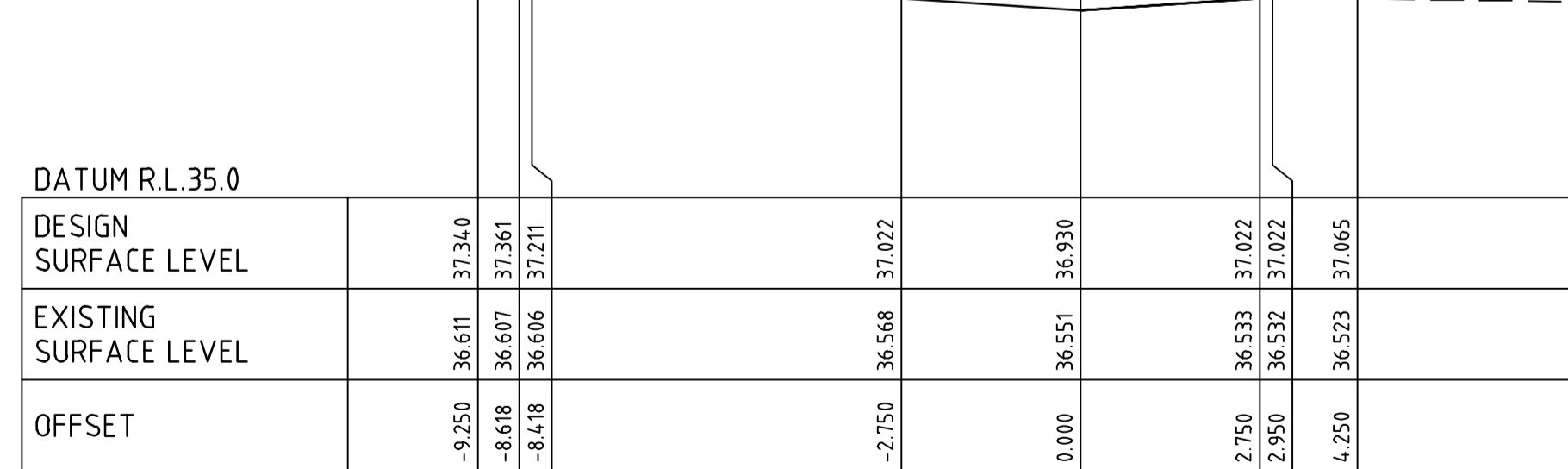
PLEINAIR LANE

CH 101.29



PLEINAIR LANE

CH 79.03

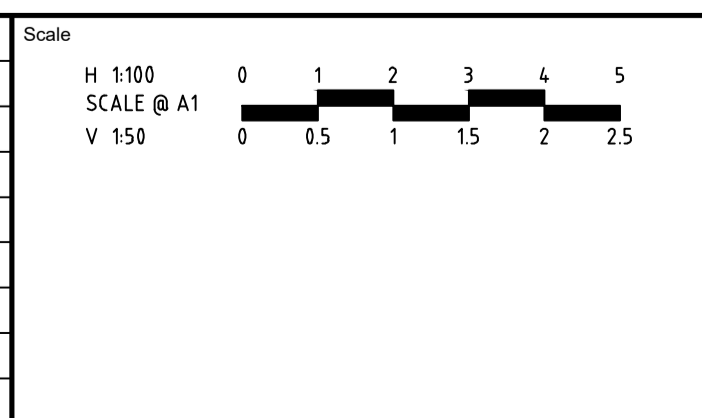


PLEINAIR LANE

CH 62.53

file name: 310818CR401.dwg, layout: rsm, cbl,01, plotted by: Gary, Kshirman, file location: G:\310818\310818\WV\ACAD\Plot date: 10/05/2024, 13:11 PM, Sheet: 6 of 11 Sheets

2	REVISED TO COUNCIL COMMENTS	M.R	05/04/24
1	REVISED EXPOSED AGGREGATE & LANEWAY KERB	M.R	01/02/24
0	REVISED LOT LAYOUT & PLEINAIR LANE	M.R	20/06/23
Rev	Amendments	Approved	Date



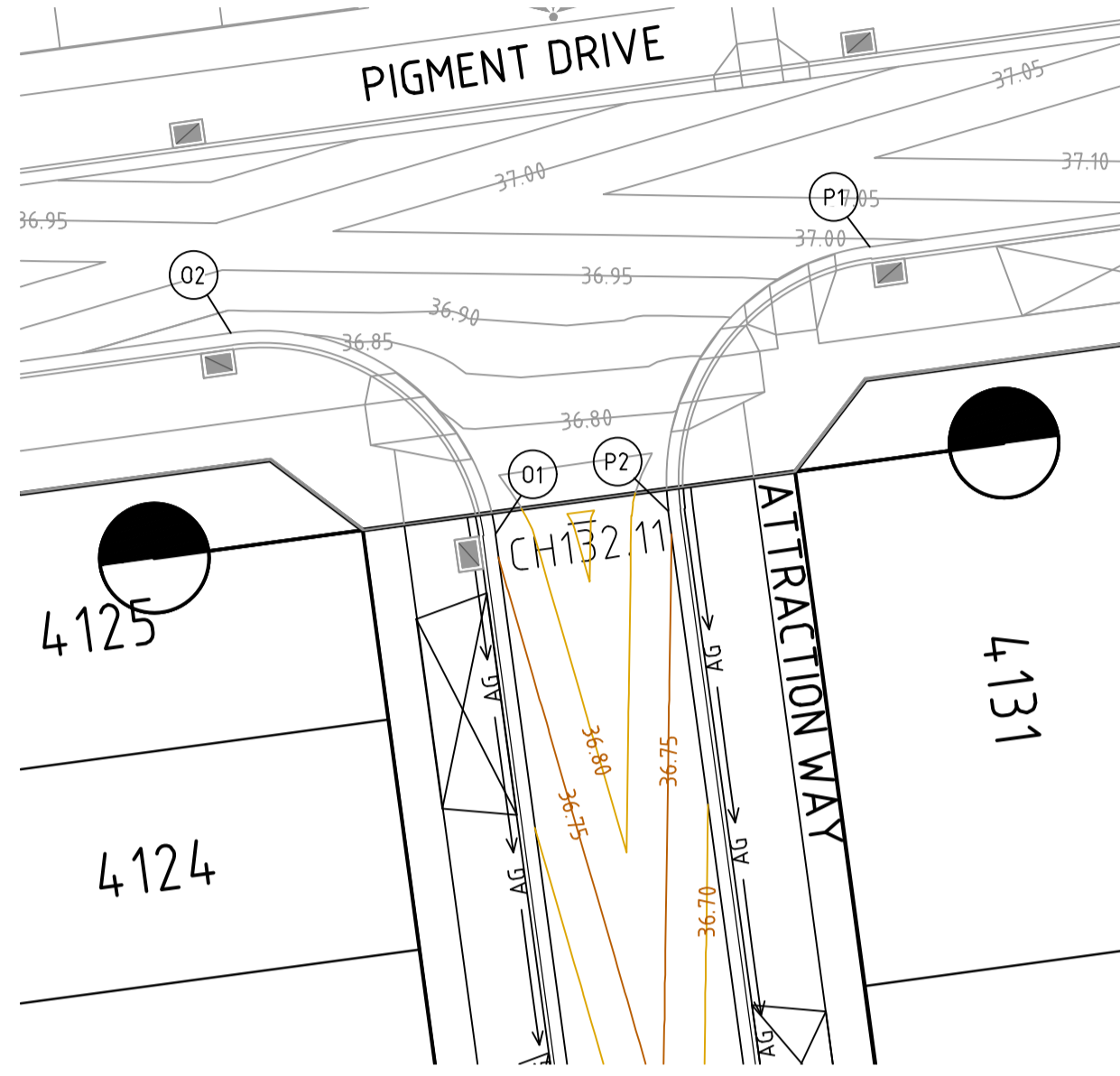
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Designed
   
 K. NGUYEN
   
 Authorised
   
 G. KOHLMAN

Checked
   
 G. KOHLMAN
   
 Date
   
 24/05/23

**MAMBOURIN**
  
**STAGE 41**
  
 ROAD AND DRAINAGE
   
 ROAD CROSS SECTIONS - SHEET 2
   
 WYNDHAM CITY COUNCIL
   
 FRASERS PROPERTY LTD
   
**CONSTRUCTION**
  
 Drg No: 310818CR401
   
 Rev: 2



**ALIGNMENT O**

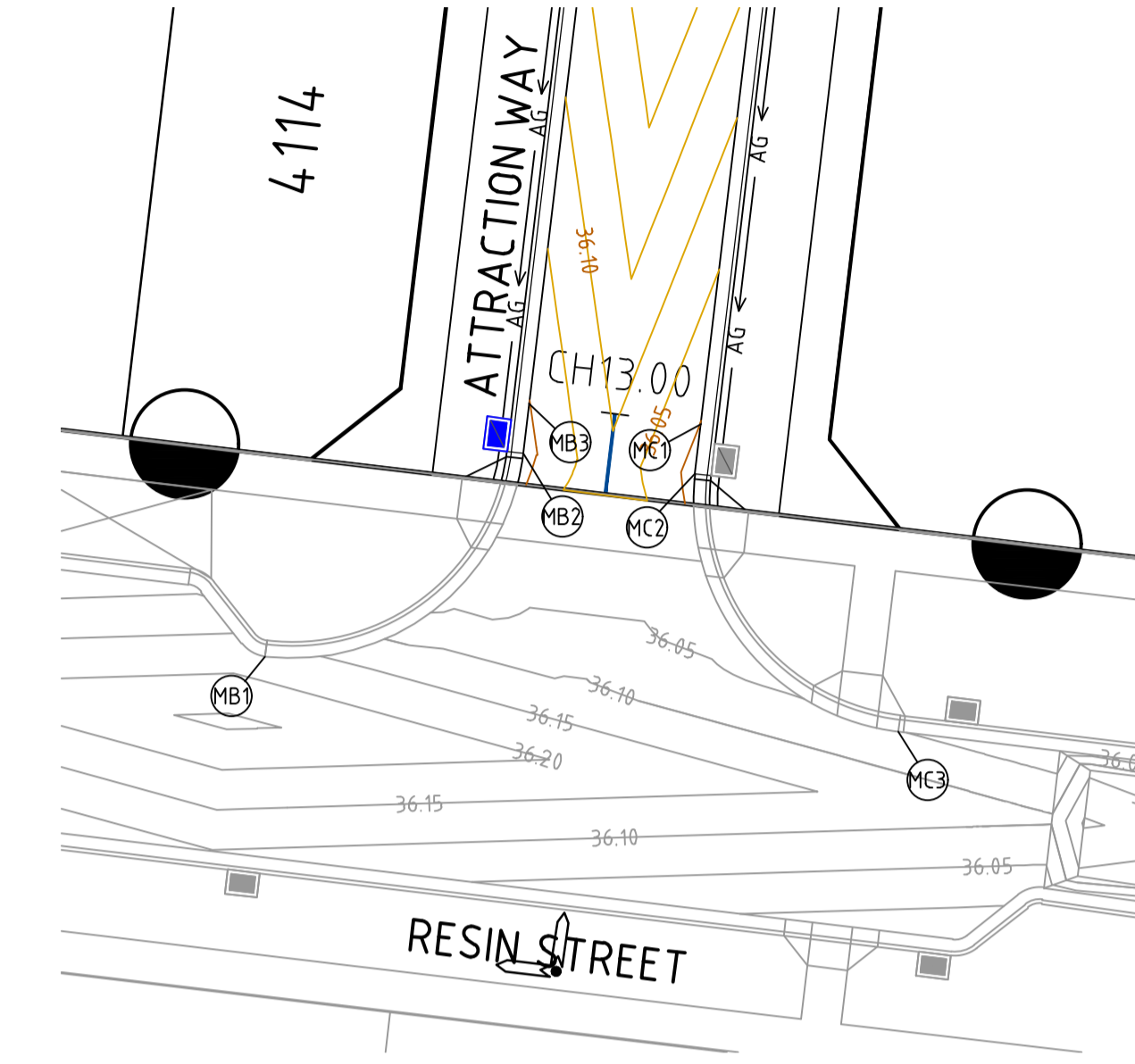
POINT NO	EASTING	NORTHING	RL
01	288718.850	5803004.972	36.755
1/4	288717.761	5803008.145	36.785
1/2	288715.539	5803010.660	36.814
3/4	288712.525	5803012.134	36.844
02	288709.176	5803012.342	36.873

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
01-02	8.600	13.509	12.162	2.519	-0.655

**ALIGNMENT P**

POINT NO	EASTING	NORTHING	RL
P1	288732.563	5803015.504	36.991
1/4	288729.389	5803014.414	36.953
1/2	288726.874	5803012.193	36.873
3/4	288725.400	5803009.178	36.793
P2	288725.193	5803005.829	36.755

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
P1-P2	8.600	13.509	12.162	2.519	-0.655



**ALIGNMENT MB**

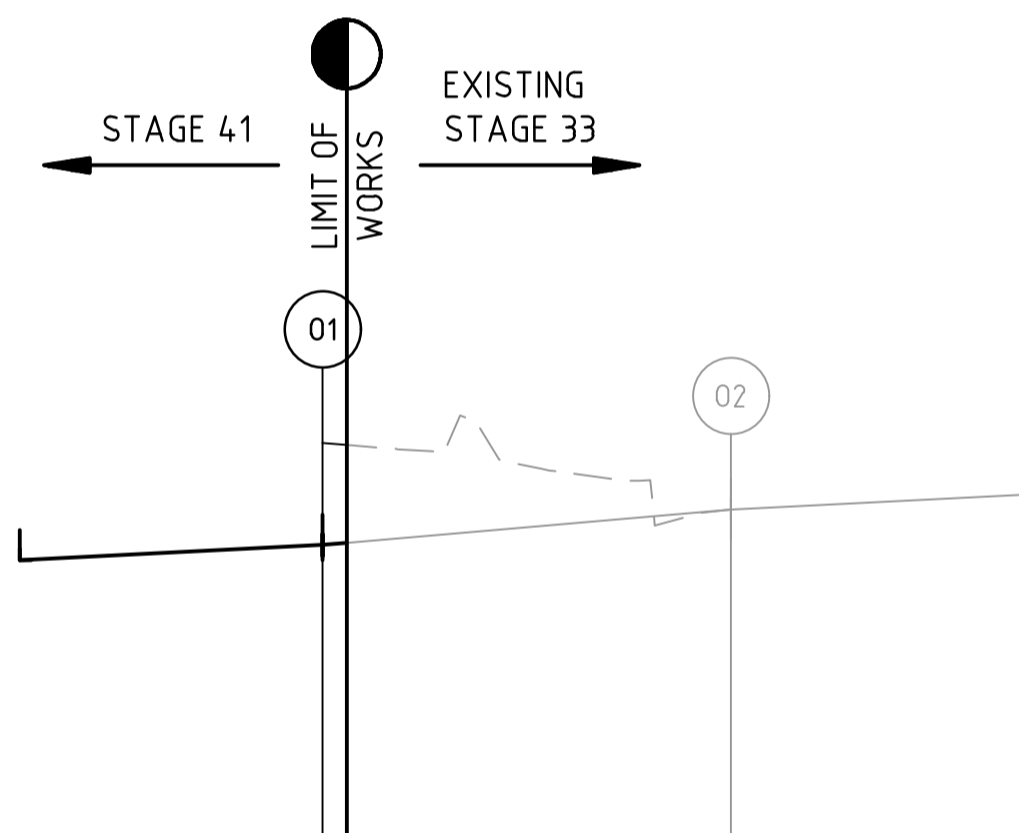
POINT NO	EASTING	NORTHING	RL
MB1	288703.536	5802878.162	36.170
1/4	288706.882	5802878.423	36.127
1/2	288709.872	5802879.945	36.043
3/4	288712.053	5802882.496	35.999
MB2	288713.091	5802885.687	35.983
MB3	288713.309	5802887.524	35.999

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
MB1-MB2	8.600	13.509	12.162	2.519	-0.655

**ALIGNMENT MC**

POINT NO	EASTING	NORTHING	RL
MC1	288719.664	5802886.769	35.999
MC2	288719.446	5802884.932	35.983
1/4	288719.708	5802881.587	35.999
1/2	288721.230	5802878.596	36.022
3/4	288723.781	5802876.416	36.052
MC3	288726.971	5802875.377	36.052

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
MC2-MC3	8.600	13.509	12.162	2.519	-0.655



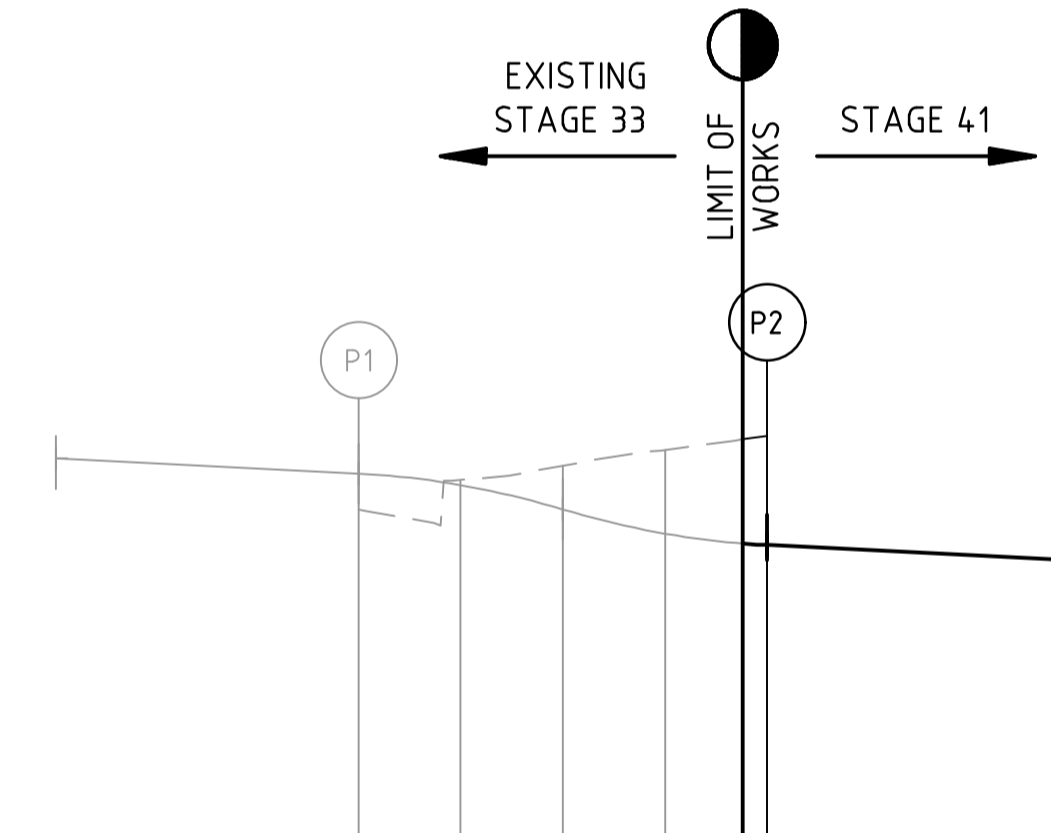
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 35.0

DESIGN LEVEL	CHAINAGE
36.755	0.000
36.762	0.801
36.873	13.509

ALIGNMENT O



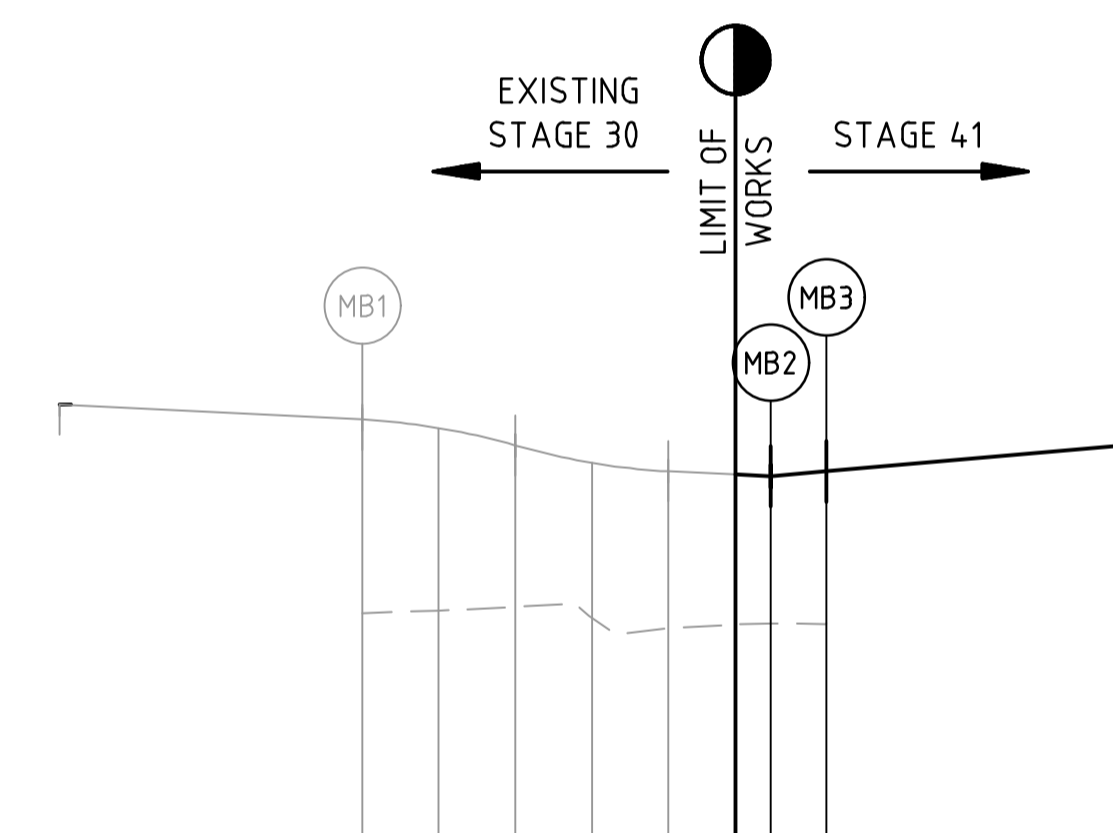
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 35.0

DESIGN LEVEL	CHAINAGE
36.991	0.000
36.953	3.377
36.873	6.754
36.793	10.132
36.761	12.708
36.755	13.509

ALIGNMENT P



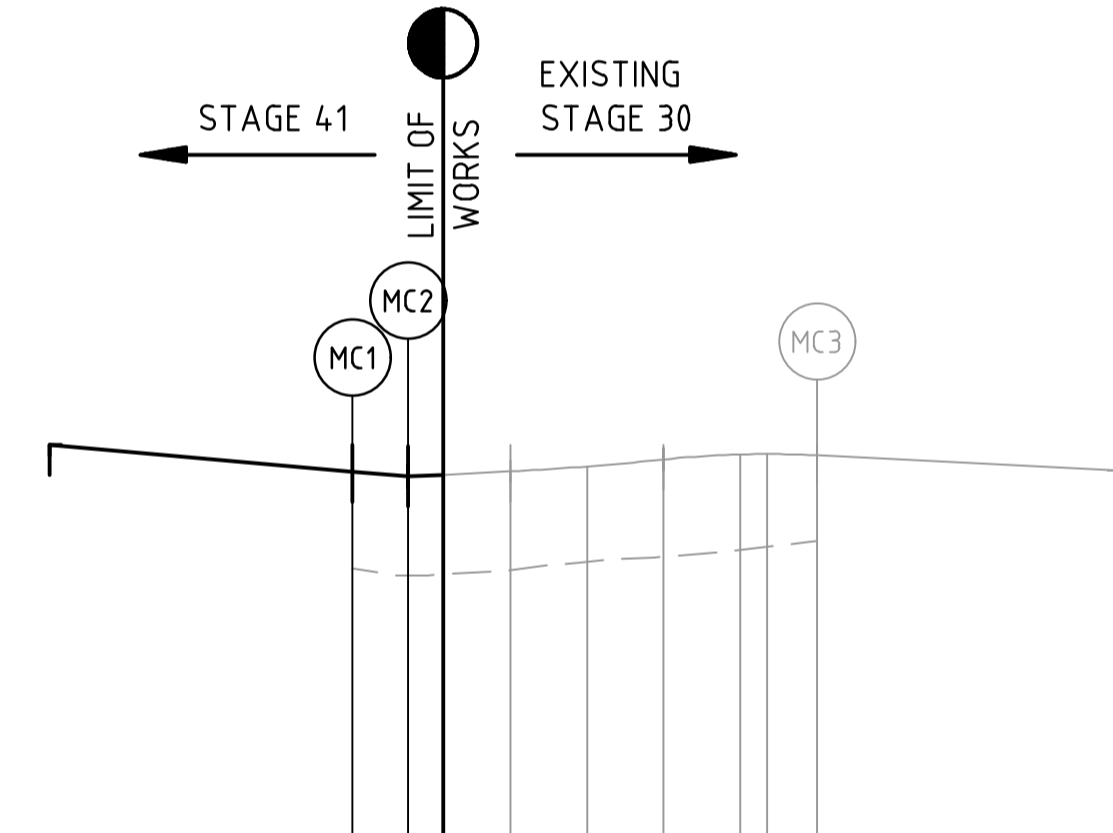
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 34.0

DESIGN LEVEL	CHAINAGE
36.170	0.000
36.143	2.533
36.085	5.066
36.027	7.599
35.999	10.132
35.988	12.355
35.983	13.509
35.999	15.359

ALIGNMENT MB



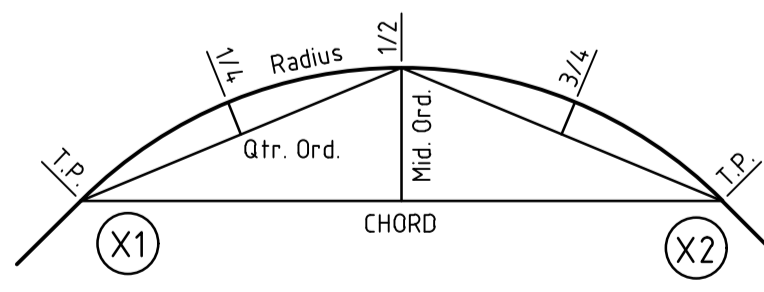
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 34.0

DESIGN LEVEL	CHAINAGE
35.999	0.000
35.983	1.850
35.988	3.003
35.999	5.227
36.016	7.760
36.039	10.293
36.055	12.826
36.056	13.720
36.052	15.359

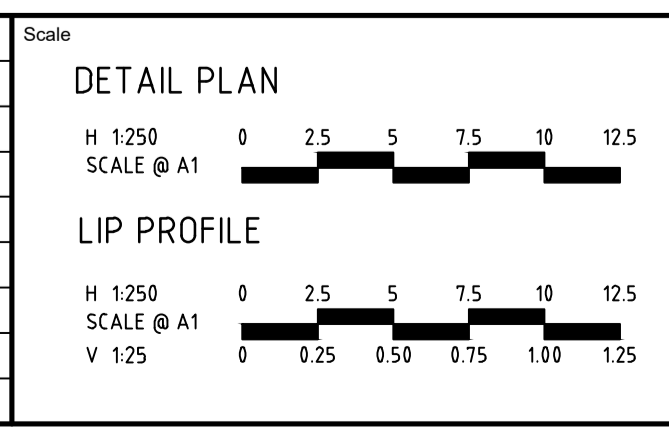
ALIGNMENT MC



KERB RETURN SETOUT DETAIL

file name: 310818CR500.dwg, layout: name: CR500, plotted by: Gary Kishman, file location: G:\310818CR500\A1.dwg, plot date: 10/05/2024, 1:31 PM, Sheet: 7 of 11 Sheets

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	M.R	24/05/23
C	REVISED TO COUNCIL COMMENTS	M.R	28/04/23
B	ISSUED FOR TENDER	M.R	18/04/23
A	PRELIMINARY ISSUE	M.R	27/03/23



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Designed  
**K.NGUYEN**

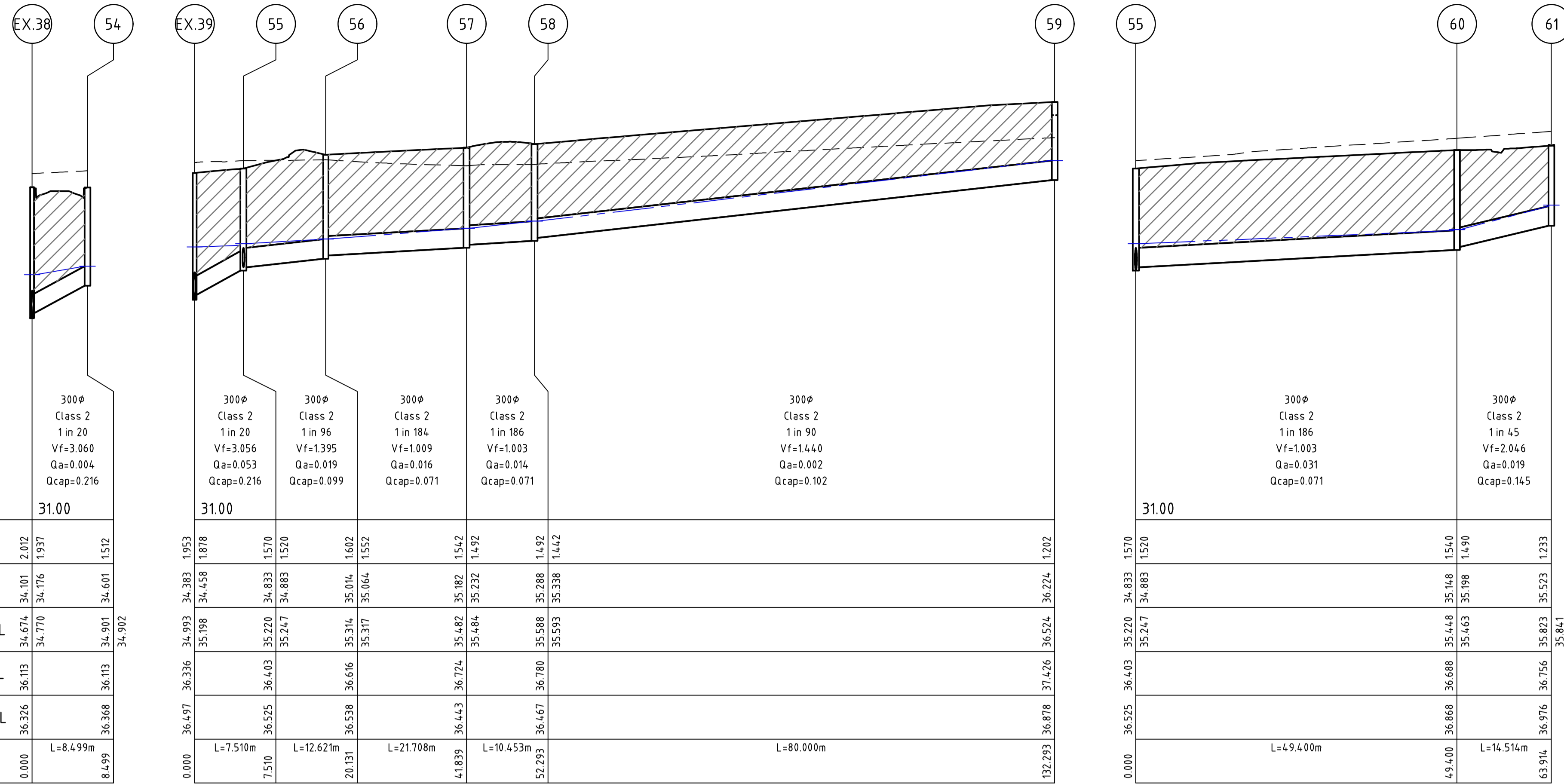
Authorised  
**G.KOHLMAN**

Checked  
**G.KOHLMAN**

Date  
**24/05/23**

**MAMBOURIN**  
**STAGE 41**  
**ROAD AND DRAINAGE**  
**INTERSECTION DETAILS - SHEET 1**  
WYNDHAM CITY COUNCIL  
FRASERS PROPERTY LTD

CONSTRUCTION Drg No 310818CR500 Rev 0



Pipe Diameter  
Pipe Class  
Pipe Grade  
Velocity (m/s)  
Pipe Flow (m<sup>3</sup>/s)  
Pipe Capacity (m<sup>3</sup>/s)

DATUM

DEPTH TO INVERT

DESIGN INVERT LEVEL

HYDRAULIC GRADE LEVEL

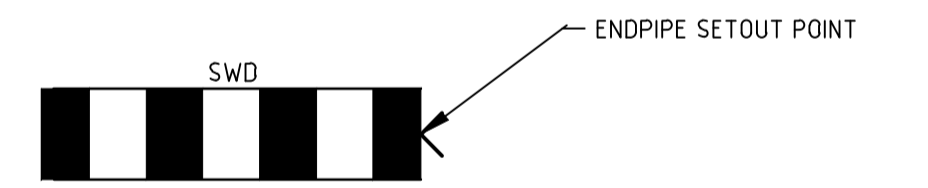
FINISHED SURFACE LEVEL

EXISTING SURFACE LEVEL

CHAINAGE

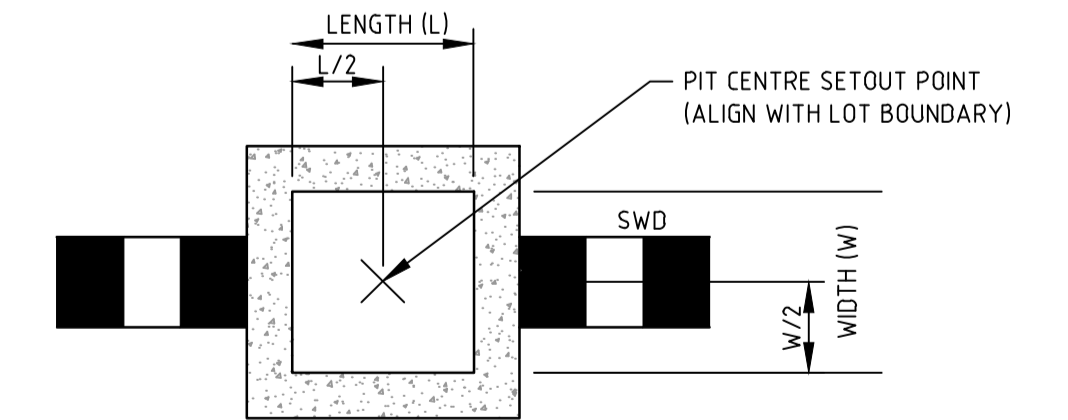
DRAINAGE PIT SCHEDULE

NAME	PIT TYPE	INTERNAL		INLET		OUTLET		PIT		REMARKS
		WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
54	GRATED SIDE ENTRY PIT	600	900		34.601	300	34.113	36.113	1.512	REFER TO EDM601
55	GRATED SIDE ENTRY PIT	600	900	300	34.883	300	34.833	36.403	1.570	REFER TO EDM601
				300	34.883					
56	GRATED ENTRY PIT	600	900	300	35.064	300	35.014	36.616	1.602	REFER TO EDM601. PROVIDE HEAVY DUTY PIT LID
57	GRATED ENTRY PIT	600	900	300	35.232	300	35.182	36.724	1.542	REFER TO EDM601. PROVIDE HEAVY DUTY PIT LID
58	GRATED ENTRY PIT	600	900	300	35.338	300	35.288	36.780	1.492	REFER TO EDM601. PROVIDE HEAVY DUTY PIT LID
59	GRATED ENTRY PIT	600	900	300	36.224	300	36.224	37.426	1.202	REFER TO EDM601. PROVIDE HEAVY DUTY PIT LID
60	GRATED ENTRY PIT	600	900	300	35.148	300	35.148	36.688	1.540	REFER TO EDM601. PROVIDE HEAVY DUTY PIT LID
61	GRATED SIDE ENTRY PIT	600	900		35.523	300	35.523	36.756	1.233	REFER TO EDM601
Ex.38	JUNCTION PIT	600	900	375	34.151	375	34.101	36.113	2.012	CONVERT PIT TO GRATED SIDE ENTRY PIT
				300	34.151					
				300	34.176					
Ex.39	JUNCTION PIT	600	900	375	34.437	375	34.387	36.321	1.935	CONVERT PIT TO GRATED SIDE ENTRY PIT
				300	34.462					
Ex.40	JUNCTION PIT	600	900	375	34.591	375	34.541	36.321	1.780	CONVERT PIT TO GRATED SIDE ENTRY PIT
Ex.42	JUNCTION PIT	600	900	375	34.988	375	34.938	36.732	1.794	CONVERT PIT TO GRATED SIDE ENTRY PIT



TYPICAL DRAINAGE SETOUT POINT 'B'

ENDPIPE  
NOT TO SCALE

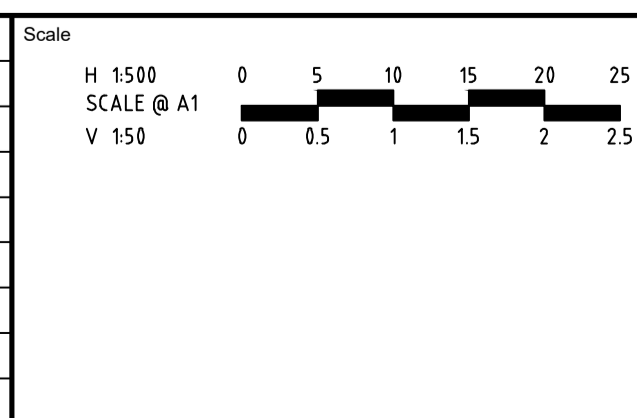


TYPICAL DRAINAGE PIT SETOUT POINT 'C'

JUNCTION PIT / EASEMENT PIT  
NOT TO SCALE

file name: 310818CR600.dwg, layout name: CR600, plotted by: Gary Kishman, file location: G:\310818\310818\WV\AC\AD\Pit.dwg, date: 10/05/2024, 1:31 PM, Sheet 8 of 11 Sheets

Rev	Description	Approved	Date
3	REVISED LOT LAYOUT	M.R	05/04/24
2	REMOVED DRAINAGE LINE EX.36 - 36EP	M.R	01/02/24
1	REVISED LOT LAYOUT & PLEINAIR LANE	M.R	20/06/23
0	ISSUED FOR CONSTRUCTION	M.R	24/05/23
C	REVISED TO COUNCIL COMMENTS	M.R	28/04/23
B	ISSUED FOR TENDER	M.R	18/04/23
A	PRELIMINARY ISSUE	M.R	27/03/23



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spiire.com.au ABN 55 050 029 635

Designed  
K.NGUYEN

Authorised  
G.KOHLMAN

Checked  
G.KOHLMAN

Date  
24/05/23

**MAMBOURIN**  
**STAGE 41**  
**ROAD AND DRAINAGE**  
**DRAINAGE LONG SECTIONS - SHEET 1**  
WYNDHAM CITY COUNCIL  
FRASERS PROPERTY LTD

**CONSTRUCTION** 310818CR600

Rev 3



**DESIGN PAVEMENT PROFILE**

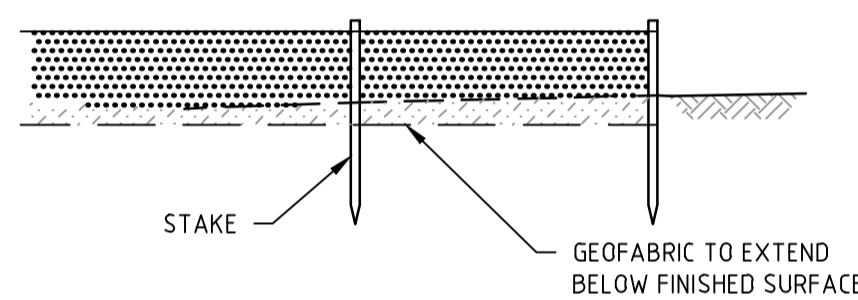
PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		TYPE A
<b>UPPER PAVEMENT LAYER</b>		
ASPHALT WEARING COURSE	VICROADS SIZE 10 TYPE N, CLASS 170 BINDER	40
ASPHALT BASE COURSE	VICROADS SIZE 10 TYPE N, CLASS 170 BINDER	40
	SAMI (SIZE 10 CLASS S18RF)	Y
	BITUMINOUS PRIME	Y
GRANULAR BASE	VICROADS 20mm CLASS 2 CRUSHED ROCK OR EQUIVALENT	110
<b>LOWER PAVEMENT LAYER</b>		
GRANULAR SUBBASE	VICROADS 100mm CLASS 3 CRUSHED ROCK OR EQUIVALENT	140
	VICROADS 100mm CLASS 3 CRUSHED ROCK OR EQUIVALENT	130
CAPPING LAYER	TYPE A MATERIAL, CBR ≥ 8%, SWELL ≤ 15%, PERMEABILITY ≤ 5 × 10 <sup>-9</sup> m/s	150
CAPPING LAYER	TYPE A MATERIAL, CBR ≥ 8%, SWELL ≤ 15%, PERMEABILITY ≤ 5 × 10 <sup>-9</sup> m/s	150
<b>PAVEMENT DEPTH</b>		610
<b>CONSTRUCTION LAYER</b>		150
<b>TOTAL DEPTH</b>		760

CLAY SUBGRADE WITH DESIGN CBR OF 2%

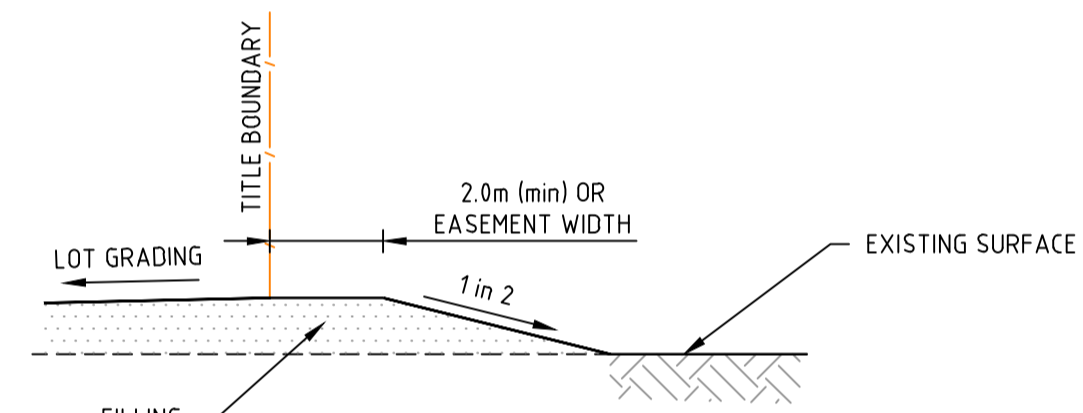
PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		TYPE E
CONCRETE BASE	PCP (MINIMUM FLEXURAL STRENGTH 4.5MPa, MINIMUM COMPRESSIVE STRENGTH 32MPa)	230
GRAVEL SUB BASE	CLASS 4 CRUSHED ROCK OR BETTER	125
CAPPING LAYER	VICROADS TYPE A CAPPING LAYER	150
<b>TOTAL PAVEMENT DEPTH</b>		505

CLAY SUBGRADE WITH DESIGN CBR OF 2%

ROAD NAME	TYPE
ATTRACTION WAY	ACCESS STREET LEVEL 1
PLEINAIR LANE	ACCESS LANE

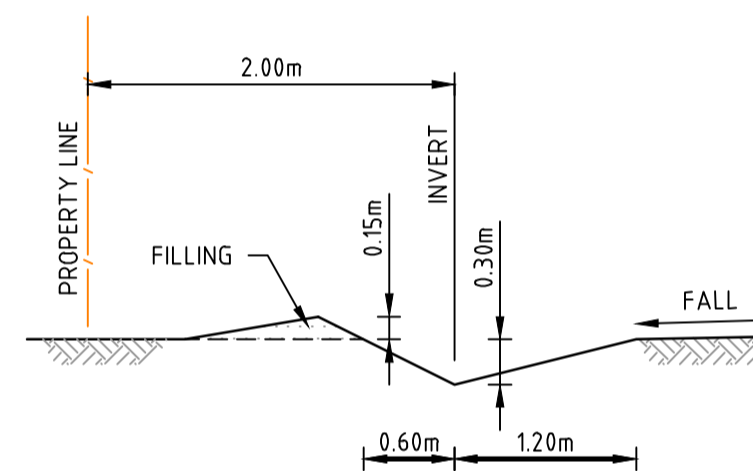


**SILT CONTROL FOR LOTS**  
GEOFABRIC SILT FENCE  
NOT TO SCALE

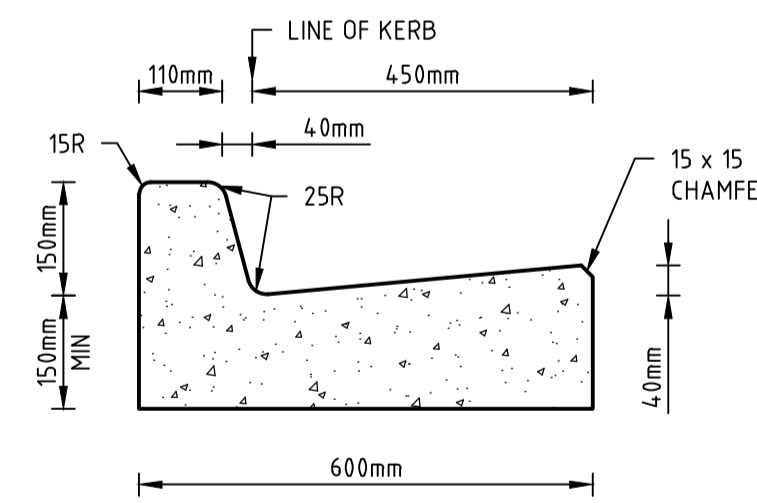


**LOT FILLING AT STAGE BOUNDARY**

NOT TO SCALE



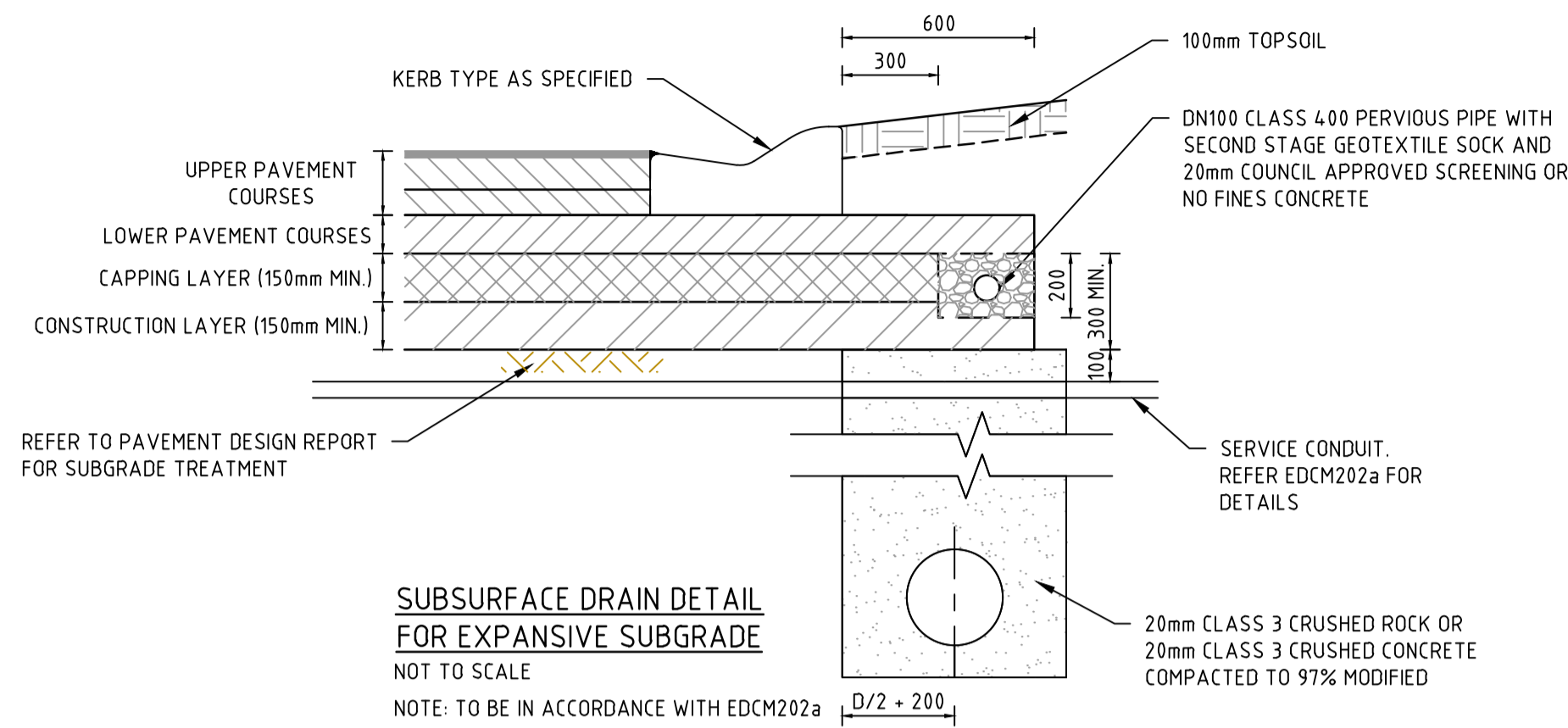
**TYPICAL CATCH DRAIN SECTION**



**600 B2**

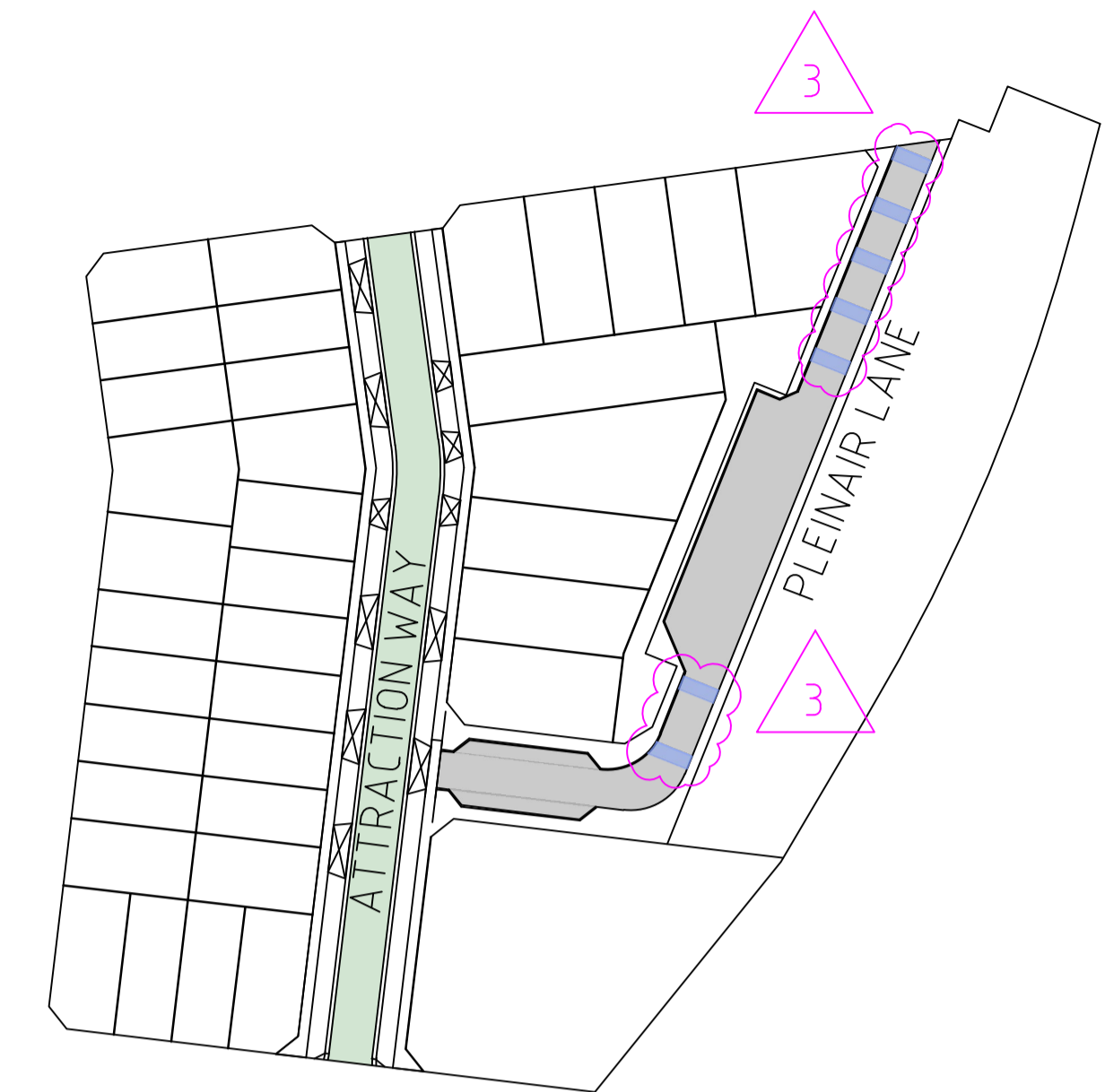
**STANDARD KERB PROFILES**

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



**SUBSURFACE DRAIN DETAIL FOR EXPANSIVE SUBGRADE**  
NOT TO SCALE

NOTE: TO BE IN ACCORDANCE WITH EDCM202a



**PAVEMENT PLAN**

H 1:1000  
SCALE @ A1

**PAVEMENT DETAILS**

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THE DESIGN HAS BEEN EXTRACTED FROM THE MAMBOURIN ESTATE - REMAINING STAGES (PRECINCT 2 AND 3, AND TOWN CENTRE) GEOTECHNICAL REPORT ON "GEOTECHNICAL INVESTIGATION AND PAVEMENT DESIGN" (REPORT NO. 754-MEL GE221991AE-AB REV 4) AND WYNDHAM CITY COUNCIL EMAIL "SDW3180/21 - MAMBOURIN STAGE 30 - PLAN CHECKING FEE - APPROVED ENGINEERING PLANS (A3645602)" DATED 02/06/2022. THESE DOCUMENTS SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

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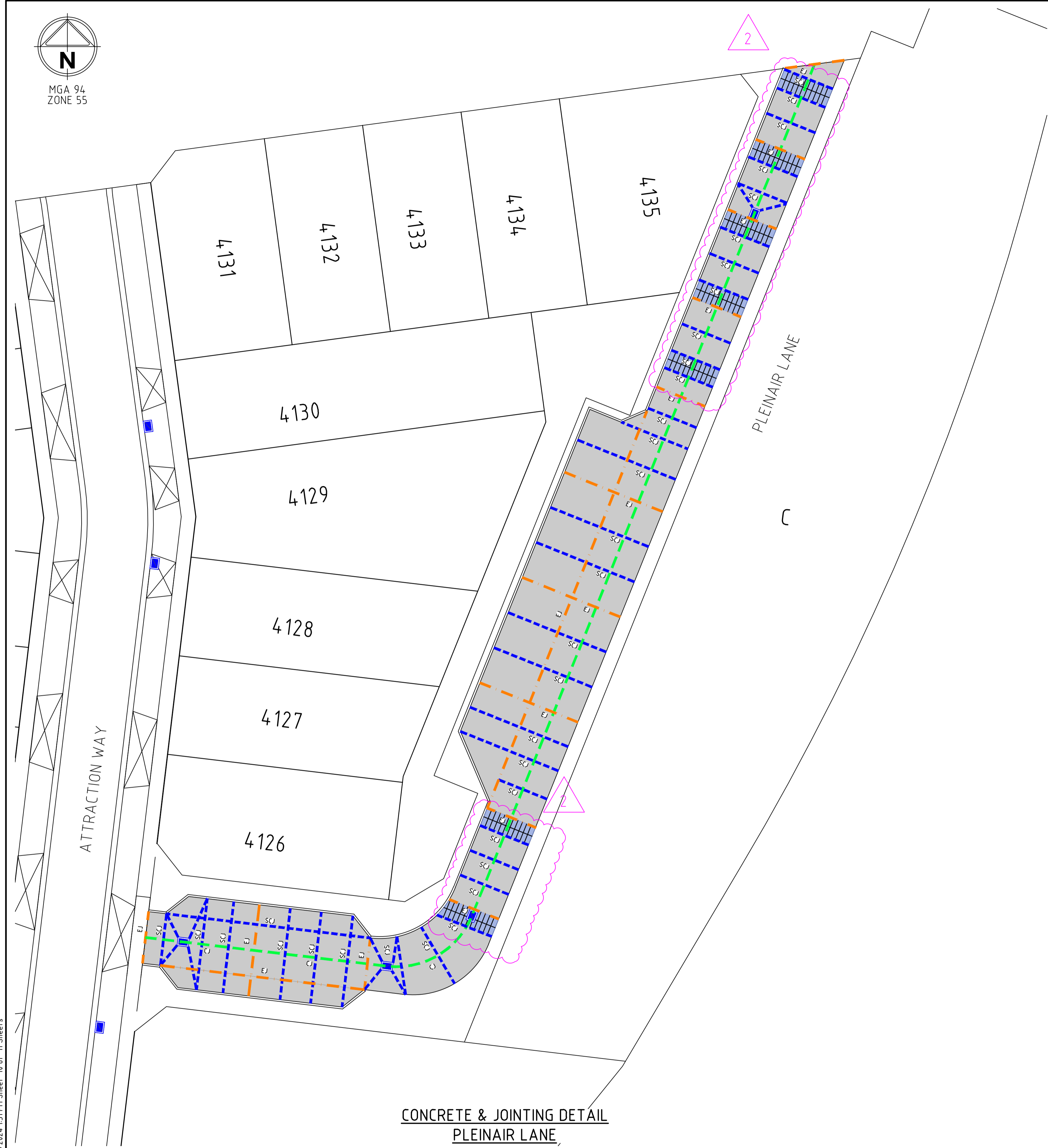
Rev	Amendments	Approved	Date
3	AMENDMENTS TO EXPOSED AGGREGATE DETAILS	M.R	08/05/24
2	REVISED EXPOSED AGGREGATE & LANEWAY KERB	M.R	01/02/24
1	REVISED LOT LAYOUT & PLEINAIR LANE	M.R	20/06/23
0	ISSUED FOR CONSTRUCTION	M.R	24/05/23
C	REVISED TO COUNCIL COMMENTS	M.R	28/04/23
B	ISSUED FOR TENDER	M.R	18/04/23
A	PRELIMINARY ISSUE	M.R	27/03/23

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**Mambourin**
  
 Designed  
 K. NGUYEN
   
 Authorised  
 G. KOHLMAN
   
 Checked  
 G. KOHLMAN
   
 Date  
 24/05/23

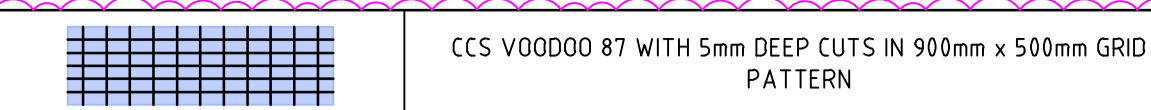
**MAMBOURIN**  
**STAGE 41**  
 ROAD AND DRAINAGE  
 PAVEMENT AND TYPICAL DETAILS - SHEET 1  
 WYNDHAM CITY COUNCIL  
 FRASERS PROPERTY LTD
   
**CONSTRUCTION**
  
 Drg No  
**310818CR700**
  
 Rev  
**3**



**CONCRETE & JOINTING DETAIL  
PLEINAIR LANE**

H 1:250  
SCALE @ A1

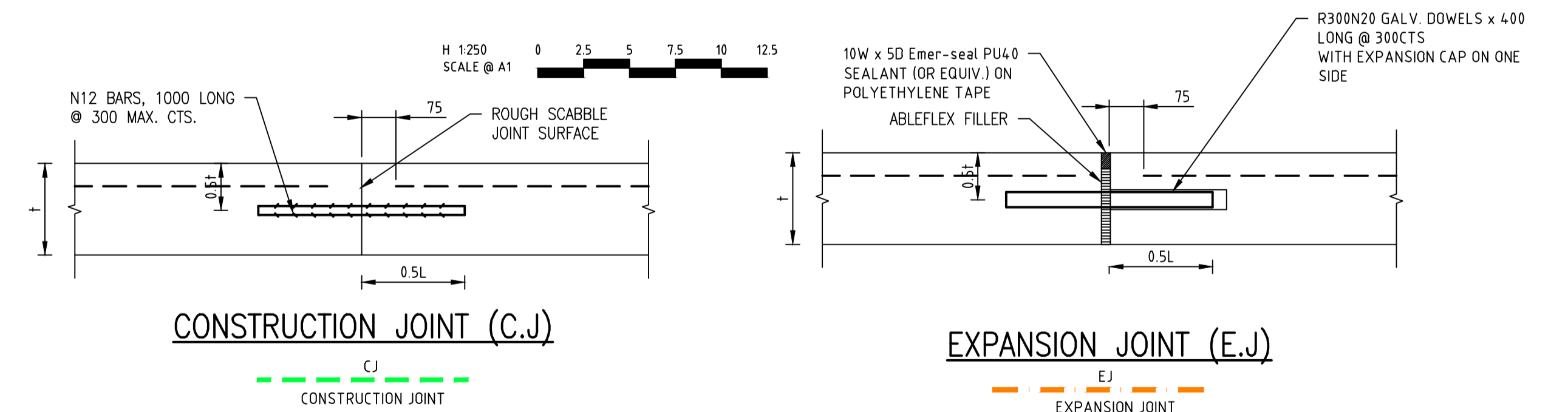
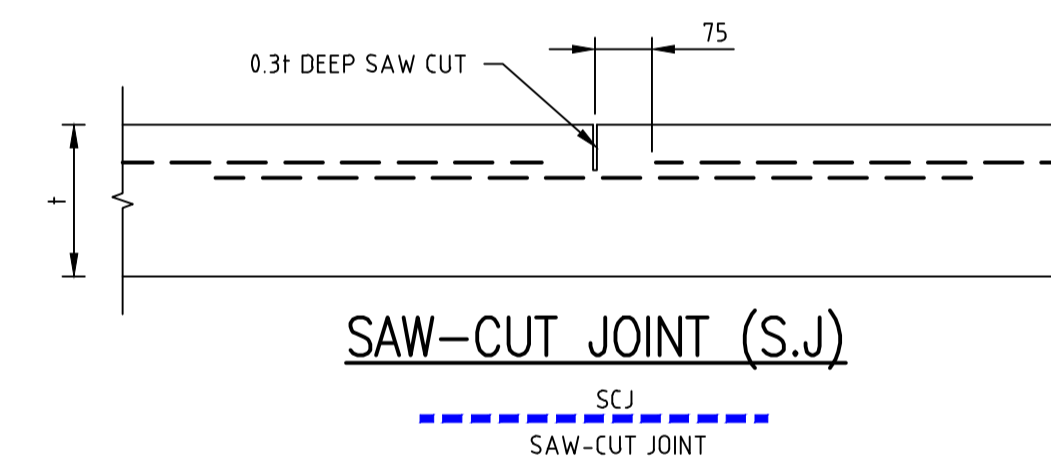
**LEGEND**



REFER TO TYPE F PAVEMENT PROFILE AND CCS FULL DEPTH COLOURED CONCRETE SPECIFICATIONS FOR INSTALLATION DETAILS.

**CONCRETE GENERAL NOTES:**

1. ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE, OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
2. CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
3. ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
4. CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
5. PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
6. CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
7. SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
8. 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.
9. ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.
10. VARIATION TO JOINT LAYOUT BY CONTRACTOR WILL NOT BE ACCEPTED WITHOUT SPECIFIC WRITTEN APPROVAL OF SUPERINTENDENT & COUNCIL.
11. ALL DOWELS IN EXISTING CONCRETE ARE TO BE GREASED TO THE FACE OF THE EXISTING CONCRETE BEFORE THE NEXT POUR.
12. ISOLATION JOINTS ARE TO BE PROVIDED AROUND ALL PIT SIDES INTERFACING WITH PAVEMENT.



file name: 310818CR701.dwg, layout name: CR701, plotted by: Gary Kishman, file location: G:\310818\310818\310818\310818.dwg, plot date: 10/05/2024, 1:31 PM, Sheet: 10 of 11, Sheets

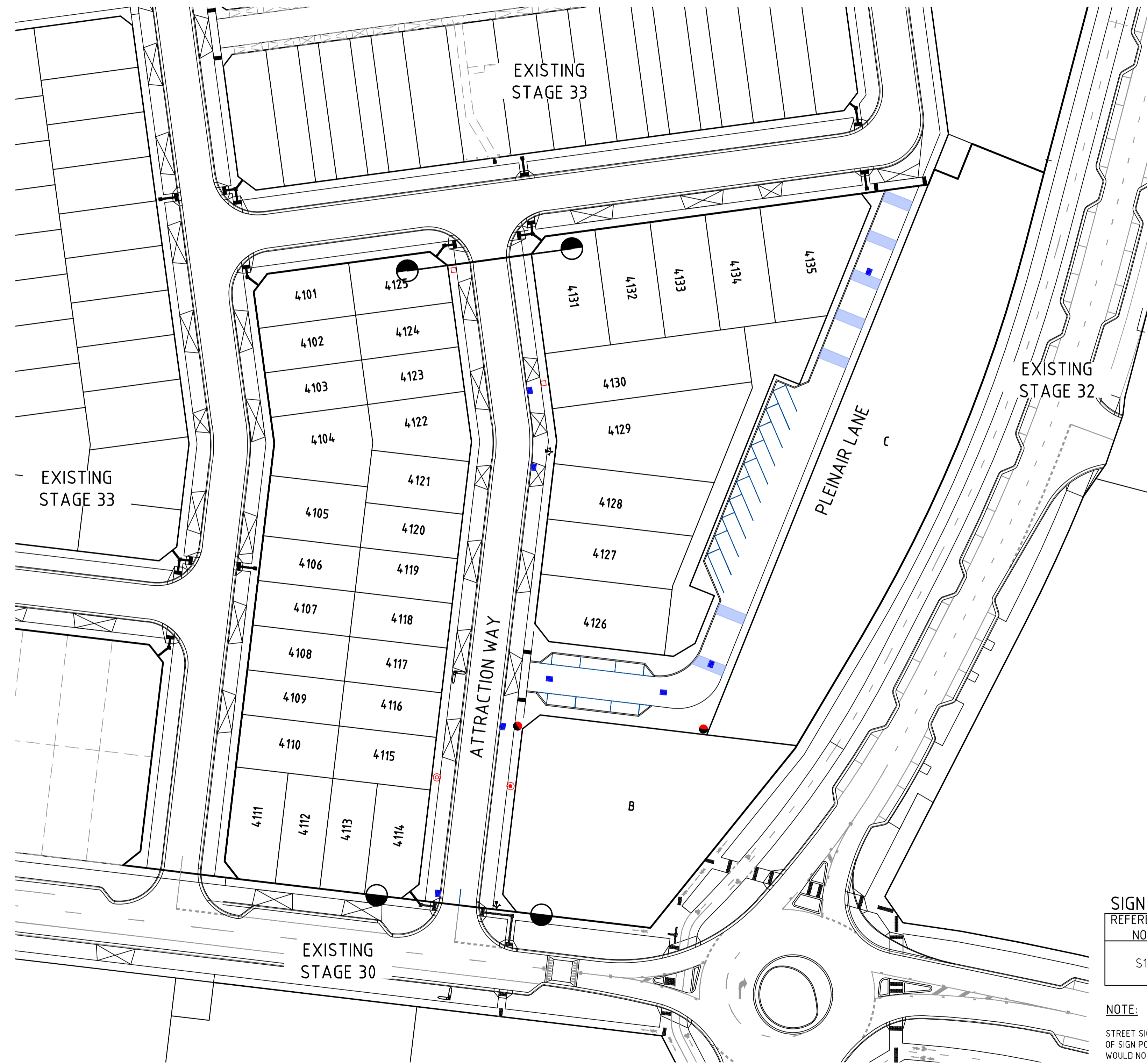
Rev	Amendments	Approved	Date
2	AMENDMENTS TO EXPOSED AGGREGATE DETAILS	M.R	08/05/24
1	REVISED EXPOSED AGGREGATE & LANEWAY KERB	M.R	01/02/24
0	REVISED LOT LAYOUT & PLEINAIR LANE	M.R	20/06/23

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**Mambourin**
  
 Designed: K.NGUYEN  
 Authorised: G.KOHLMAN  
 Checked: G.KOHLMAN  
 Date: 24/05/23

**MAMBOURIN  
STAGE 41  
ROAD AND DRAINAGE  
PAVEMENT AND TYPICAL DETAILS - SHEET 2**  
 WYNDHAM CITY COUNCIL  
 FRASERS PROPERTY LTD
   
**CONSTRUCTION**
  
 Drg No: 310818CR701 Rev: 2



**SIGNAGE SCHEDULE**

REFERENCE NO.	SIGN	COMMENTS
S1		STREET NAME PLATES TO BE IN ACCORDANCE WITH MELTON CITY COUNCIL STANDARD

**NOTE:**

STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES, WITH A COUNCIL APPROVED BRACKET, IN LIEU OF SIGN POLES WHERE THE TWO POLES ARE IN CLOSE PROXIMITY AND WHERE THE STREET SIGN WOULD NOT BE COMPROMISED IN ITS PURPOSE BY THE RELOCATION.

file name: 310818CR800.dwg, layout: name: CR800, plotted by: Gary Kishman, file location: G:\310818\310818\310818.dwg, plot date: 10/05/2024, 1:32 PM, Sheet: 11 of 11, Sheets

Rev	Amendments	Approved	Date
4	REVISED LOT LAYOUT	M.R	05/04/24
3	REVISED EXPOSED AGGREGATE & LANEWAY KERB	M.R	01/02/24
2	REVISED LOT LAYOUT	M.R	02/08/23
1	REVISED LOT LAYOUT & PLEINAIR LANE	M.R	20/06/23
0	ISSUED FOR CONSTRUCTION	M.R	24/05/23
C	REVISED TO COUNCIL COMMENTS	M.R	28/04/23
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Designed  
K.NGUYEN  
Authorised  
G.KOHLMAN

Checked  
G.KOHLMAN  
Date  
24/05/23

**MAMBOURIN  
STAGE 41  
ROAD AND DRAINAGE  
SIGNAGE AND LINEMARKING - SHEET 1  
WYNDHAM CITY COUNCIL  
FRASERS PROPERTY LTD**

**CONSTRUCTION** Dwg No **310818CR800** Rev **4**