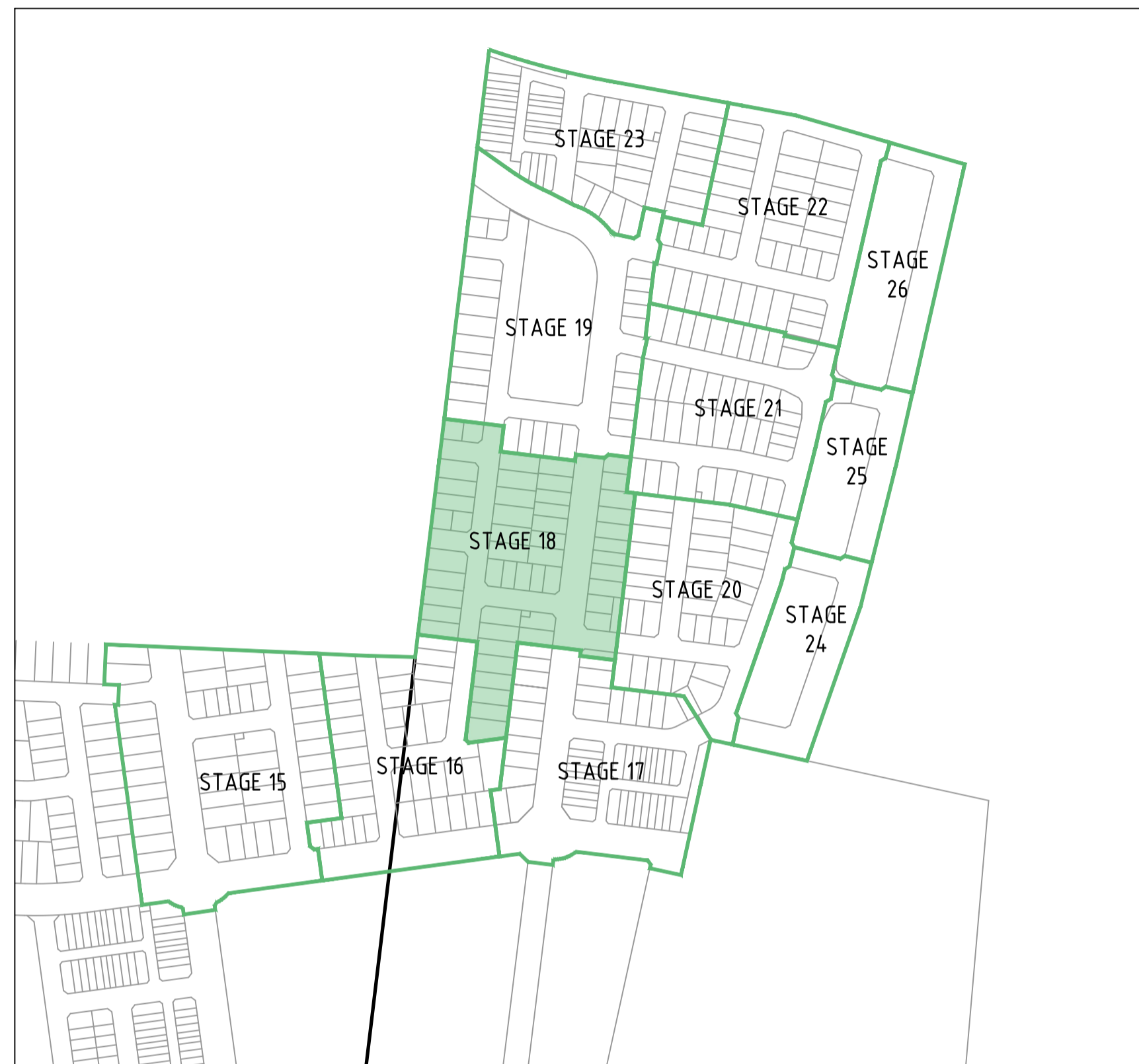


MAMBOURIN STAGE 18 FRASERS PROPERTY LTD

GENERAL NOTES:

- 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 PEET'S MODIFIED AS4000-1997-AMENDED FROM 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
- 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 SHALL BE TO A LEVEL 150mm BELOW THE FINISHED SURFACE LEVEL SHOWN AND COMPACTED AS PER AS-3798-1998. FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION & 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.
- 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.
- AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.
- 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.
- 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.
- 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.
- LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742-1 AND AS 1742-2 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.
- 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.



LOCALITY PLAN

H 1:4000
SCALE @ A1

DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES	1	3
CR200	ROAD LAYOUT PLANS	2	1
CR201	SERVICES PLAN	3	3
CR300	SHILLINGS ROAD & PALETTE STREET LONG SECTIONS	4	2
CR301	NIVEA ST, SHRUBS RD & BIOTA WAY LONG SECTIONS	5	2
CR400	SHILLINGS ROAD CROSS SECTIONS	6	1
CR401	PALETTE STREET CROSS SECTIONS	7	1
CR402	PALETTE STREET & NIVEA STREET CROSS SECTIONS	8	1
CR403	SHRUBS ROAD & BIOTA WAY CROSS SECTIONS	9	1
CR500	INTERSECTION DETAILS	10	2
CR600	DRAINAGE LONG SECTIONS - SHEET 1 OF 2	11	3
CR601	DRAINAGE LONG SECTIONS - SHEET 2 OF 2	12	2
CR602	DRAINAGE PIT SCHEDULE & DETAILS	13	3
CR700	PAVEMENT AND TYPICAL DETAILS	14	1
CR800	SIGNAGE AND LINEMARKING	15	2



WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

LEGEND

DESCRIPTION	EXISTING	PROPOSED
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	--->--->---	--->--->---
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	Ex.47	1
GAS & WATER CONDUITS	--- gw ---	--- gw ---
CONCRETE VEHICLE CROSSING	--->--->---	--->--->---
HEAVY DUTY VEHICLE CROSSING	--->--->---	--->--->---
RIDGE / CHANGE OF GRADE LINE	--->--->---	--->--->---
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	---	1 in 150
SIGN AND POST	--->--->---	--->--->---
LIGHT & POLE (BY OTHERS)	--->--->---	--->--->---
STREET SIGN	--->--->---	--->--->---
PERMANENT SURVEY MARK	--->--->---	--->--->---
TEMPORARY BENCH MARK	--->--->---	--->--->---
BOLLARD	--->--->---	--->--->---
ROAD CHAINAGES	CH116.57 (L/R)TP CH116.57	CH116.57 (L/R)TP CH116.57
LOT CHAINAGES	CH20.06	CH20.06
SETOUT POINT	---	A2
LIMIT OF WORKS	--->--->---	--->--->---
BATTER	---	---
EXCAVATION GREATER THAN 0.20m	---	---
FILLING GREATER THAN 0.20m	---	---
FENCE - VEHICLE EXCLUSION	---	---
FENCES	---	---
TREE (& SURVEYED CANOPY) TO BE RETAINED	---	---
TREE TO BE PROTECTED	---	---
TREE TO BE REMOVED	---	---
FOOTPATH	---	---
TACTILE GROUND SURFACE INDICATOR	---	---
KERB TRANSITION	---	B2 SM2

file name: 309505CR100.dwg, layout: name: CD100, plotted by: Kevin Nguyen, file location: \\spire\media\data\309505\CD100\309505.dwg, plot date: 23/06/2023 2:52 PM, Sheet 1 of 15 Sheets

Rev	Description	By	Date	Scale
3	AS CONSTRUCTED	M.R	23/06/23	
2	DRAINAGE PIT ADDED	M.R	15/12/22	
1	SHEETS 300, 301, 500, 600, 602 & 800 UPDATED	M.R	02/11/22	
0	ISSUED FOR CONSTRUCTION	M.R	28/09/22	
D	CURVED DRAIN BACKFILL DETAIL UPDATED	M.R	15/09/22	
C	LOT CONNECTIONS, SIGNAGE & LINEMARKING UPDATED	M.R	26/08/22	
B	PLANS AMENDED AS PER COUNCIL COMMENTS	M.R	04/08/22	
A	PRELIMINARY ISSUE	M.R	04/07/22	
Rev	Amendments	Approved	Date	



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Authorised
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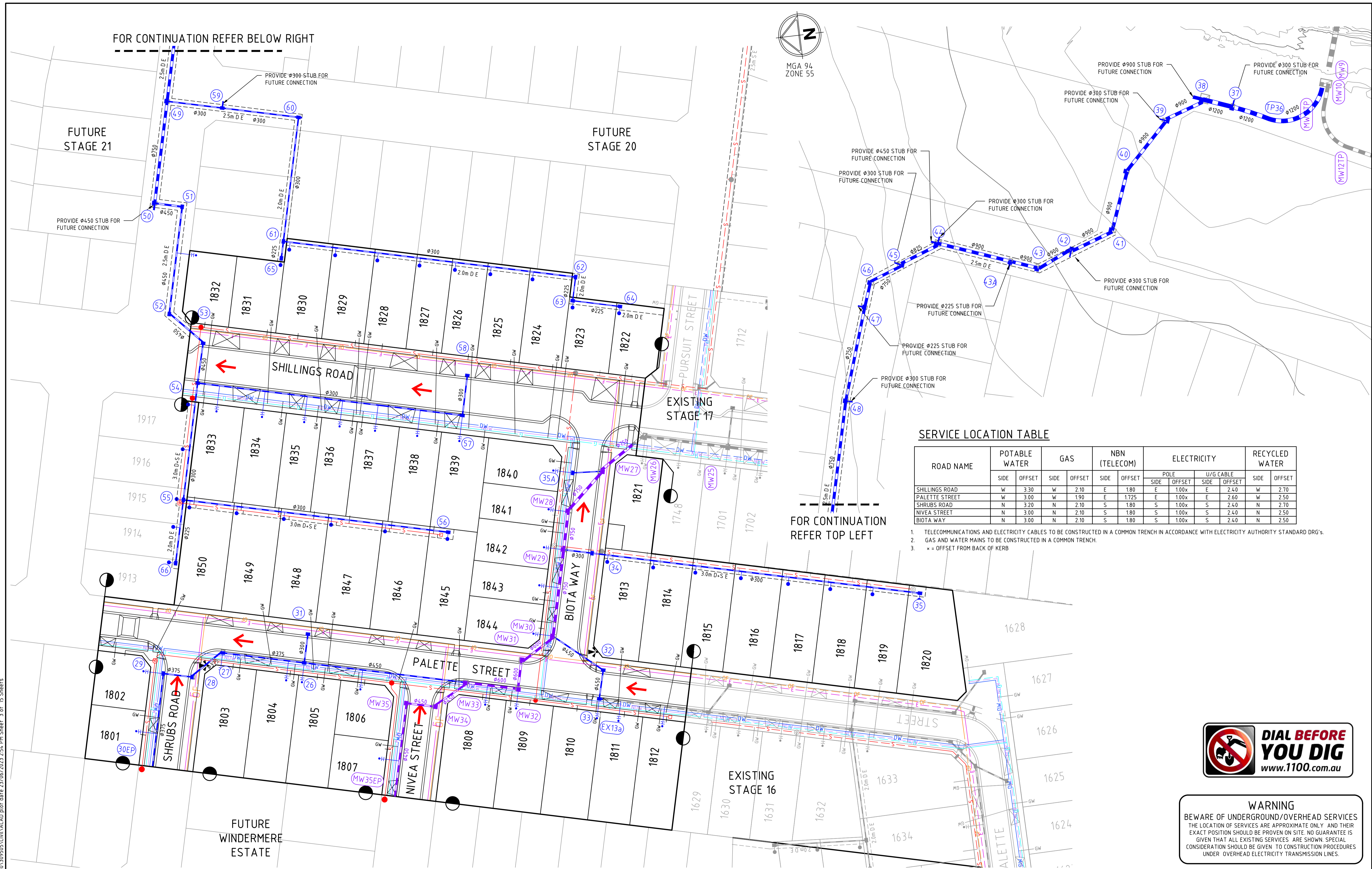


Checked
G. KOHLMAN
Date
11/11/22

**MAMBOURIN
STAGE 18
ROAD AND DRAINAGE
GENERAL NOTES**
WYNDHAM CITY COUNCIL
FRASERS PROPERTY LTD

AS CONSTRUCTED Drg No **309505CR100** Rev **3**

FOR CONTINUATION REFER BELOW RIGHT



FOR CONTINUATION REFER TOP LEFT

SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY				RECYCLED WATER	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE		SIDE	OFFSET
SHILLINGS ROAD	W	3.30	W	2.10	E	1.80	E	1.80x	E	2.40	W	2.70
PALETTE STREET	W	3.00	W	1.90	E	1.725	E	100x	E	2.60	W	2.50
SHRUBS ROAD	N	3.20	N	2.10	S	1.80	S	100x	S	2.40	N	2.70
NIVEA STREET	N	3.00	N	2.10	S	1.80	S	100x	S	2.40	N	2.50
BIOTA WAY	N	3.00	N	2.10	S	1.80	S	100x	S	2.40	N	2.50

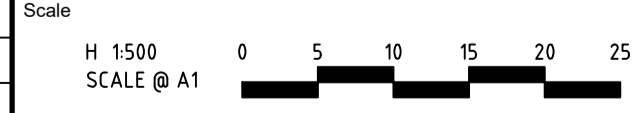
- TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG'S.
- GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
- x = OFFSET FROM BACK OF KERB



WARNING
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Rev	Description	Approved	Date
3	AS CONSTRUCTED	M.R.	23/06/23
2	DRAINAGE PIT ADDED	M.L.R.	15/12/22
1	DRAINAGE STUB REMOVED	M.L.R.	11/11/22
0	ISSUED FOR CONSTRUCTION	M.L.R.	28/09/22
C	LOT CONNECTIONS UPDATED	M.R.	26/08/22
B	DRAINAGE LAYOUT AMENDED	M.R.	04/08/22
A	PRELIMINARY ISSUE	M.R.	04/07/22



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 Checked
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 Date
 11/11/22

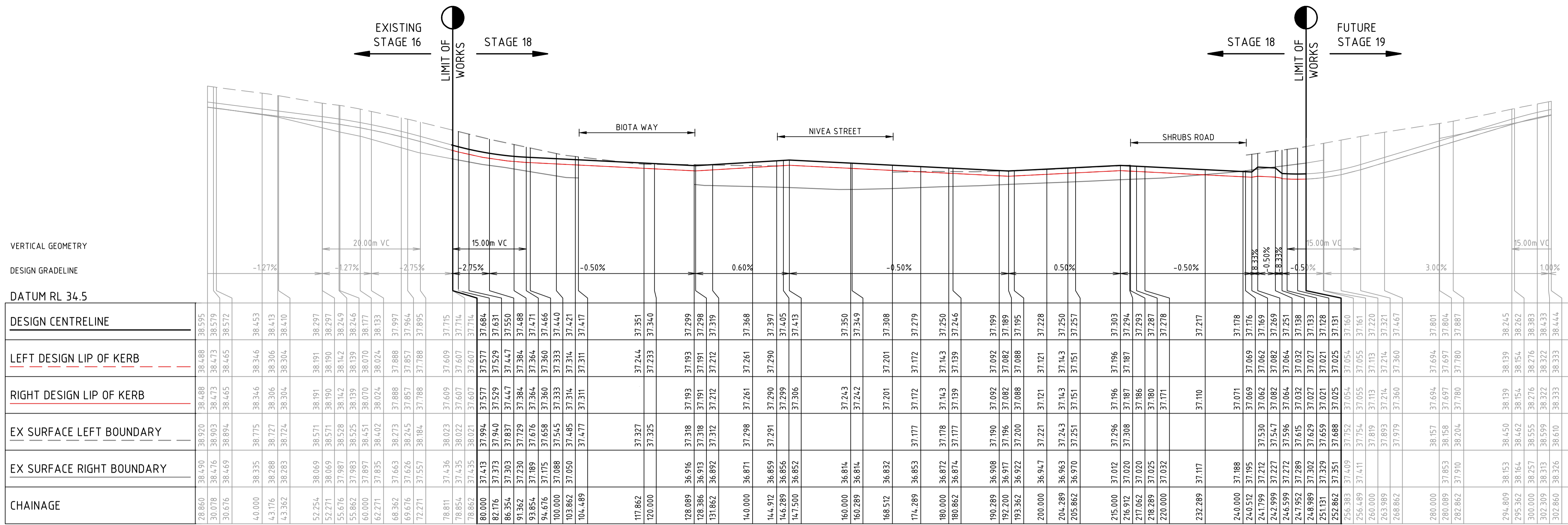
MAMBOURIN
STAGE 18
 ROAD AND DRAINAGE
 SERVICES PLAN
 WYNDHAM CITY COUNCIL
 FRASERS PROPERTY LTD

AS CONSTRUCTED

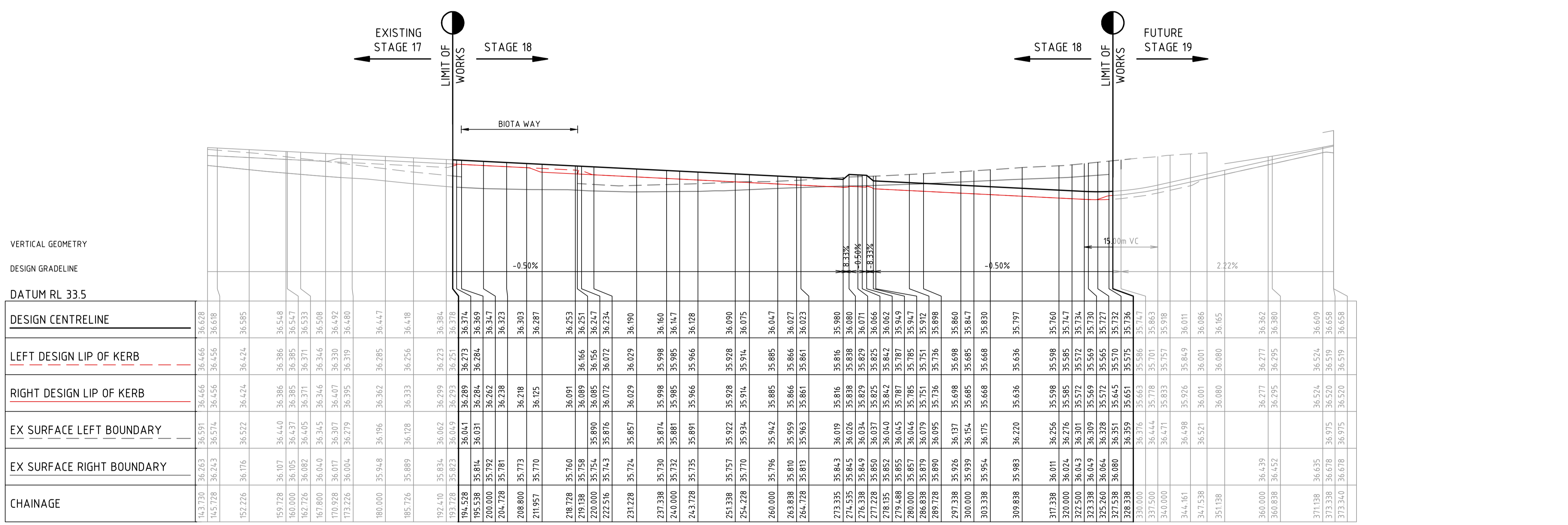
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 Rev **3**

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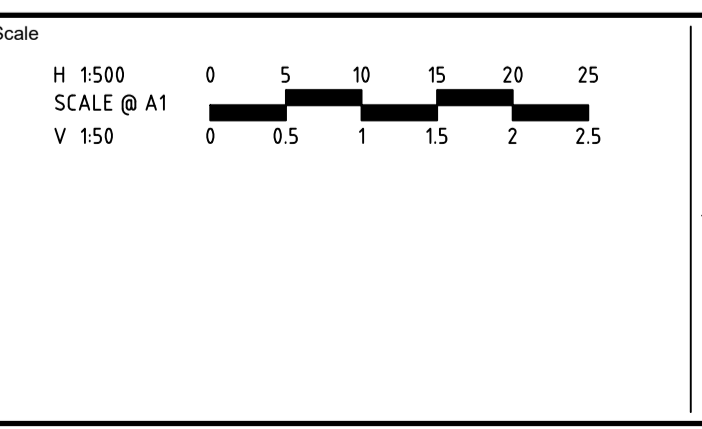


PALETTE STREET



SHILLINGS ROAD

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.R	23/06/23
1	PALETTE STREET SECTION UPDATED	M.R	02/11/22
0	ISSUED FOR CONSTRUCTION	M.I.R	28/09/22
A	PRELIMINARY ISSUE	M.R	04/07/22



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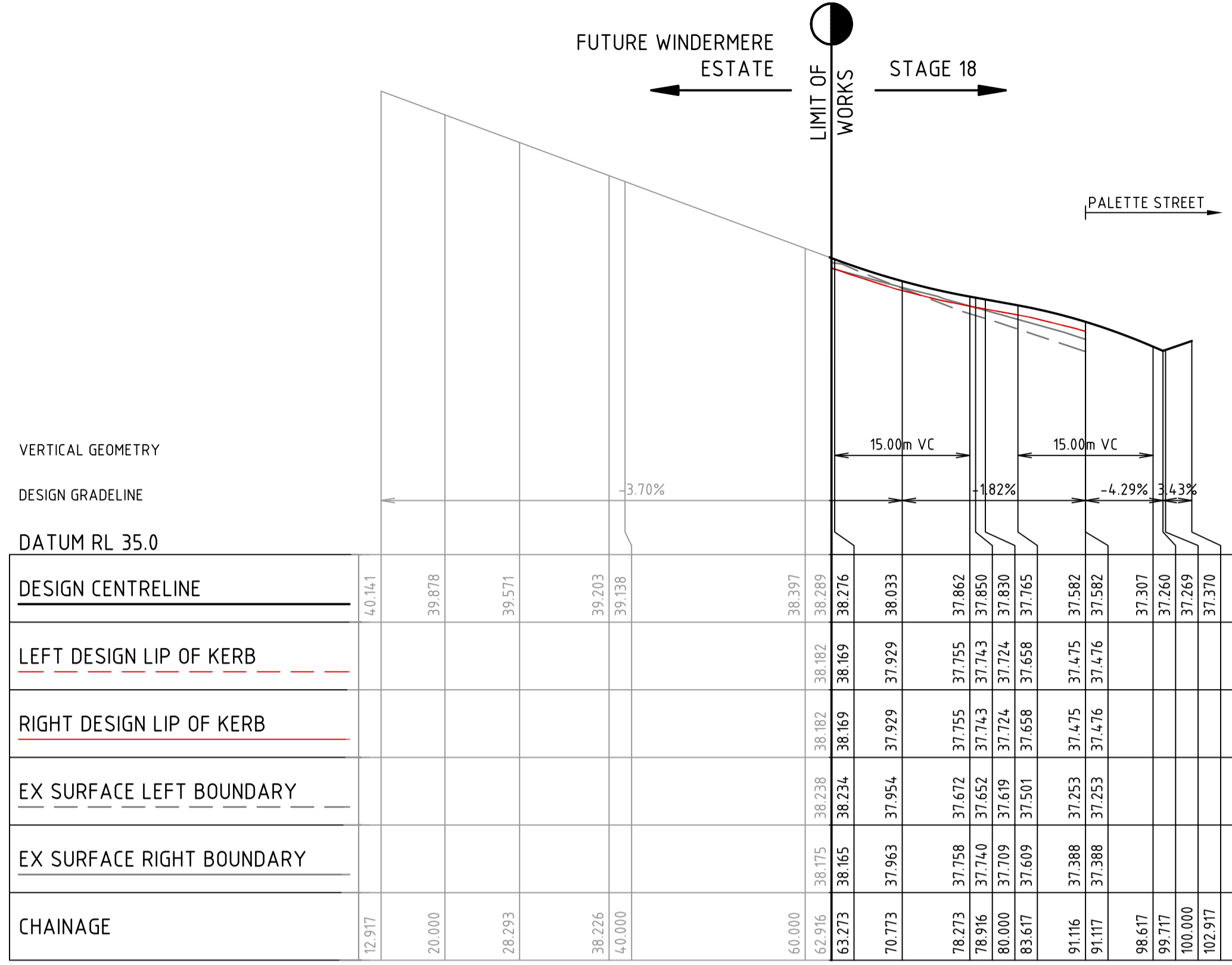
MAMBOURIN
STAGE 18
ROAD AND DRAINAGE
SHILLINGS ROAD & PALETTE STREET LONG SECTIONS
WYNDHAM CITY COUNCIL
FRASERS PROPERTY LTD

AS CONSTRUCTED

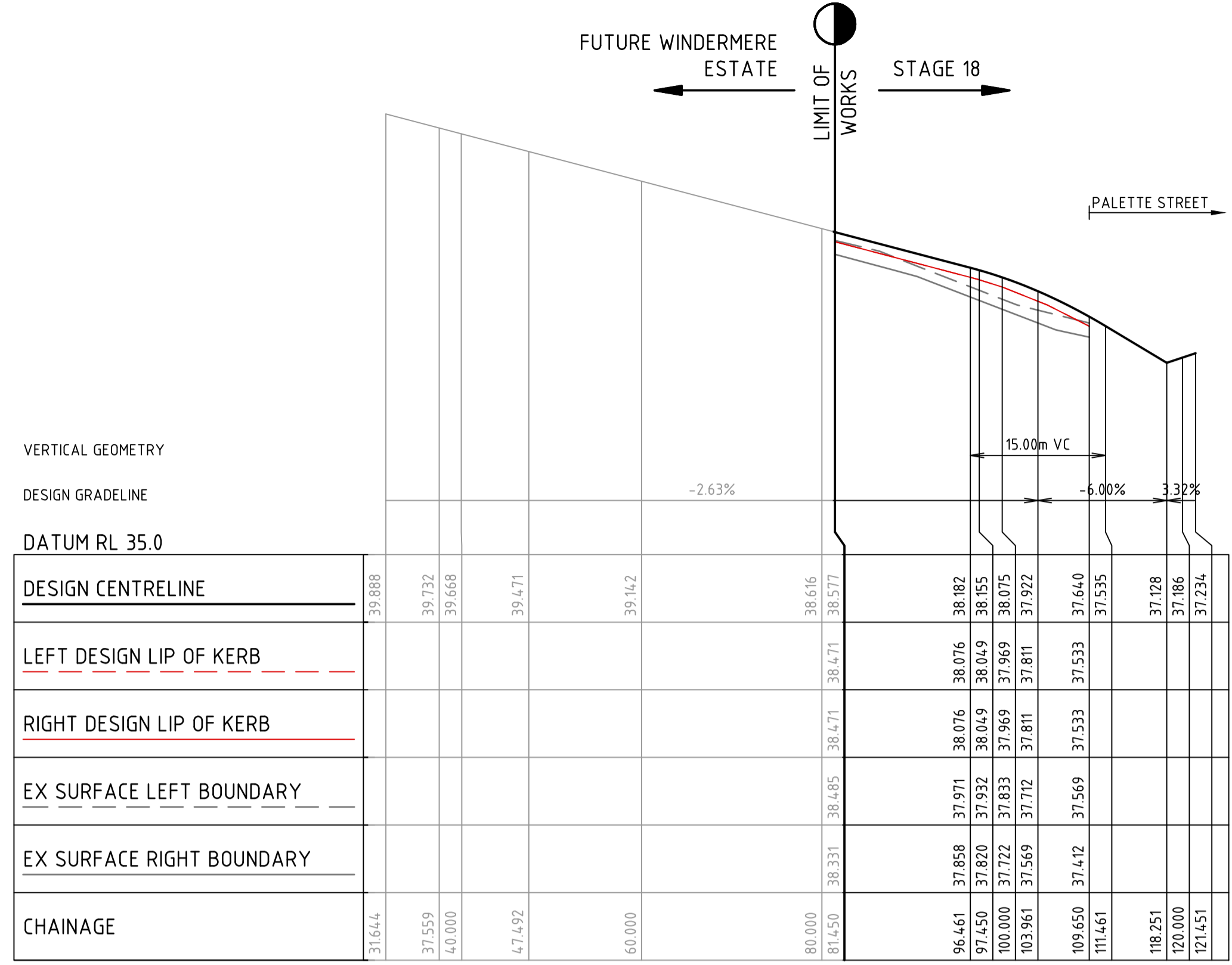
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Rev
2

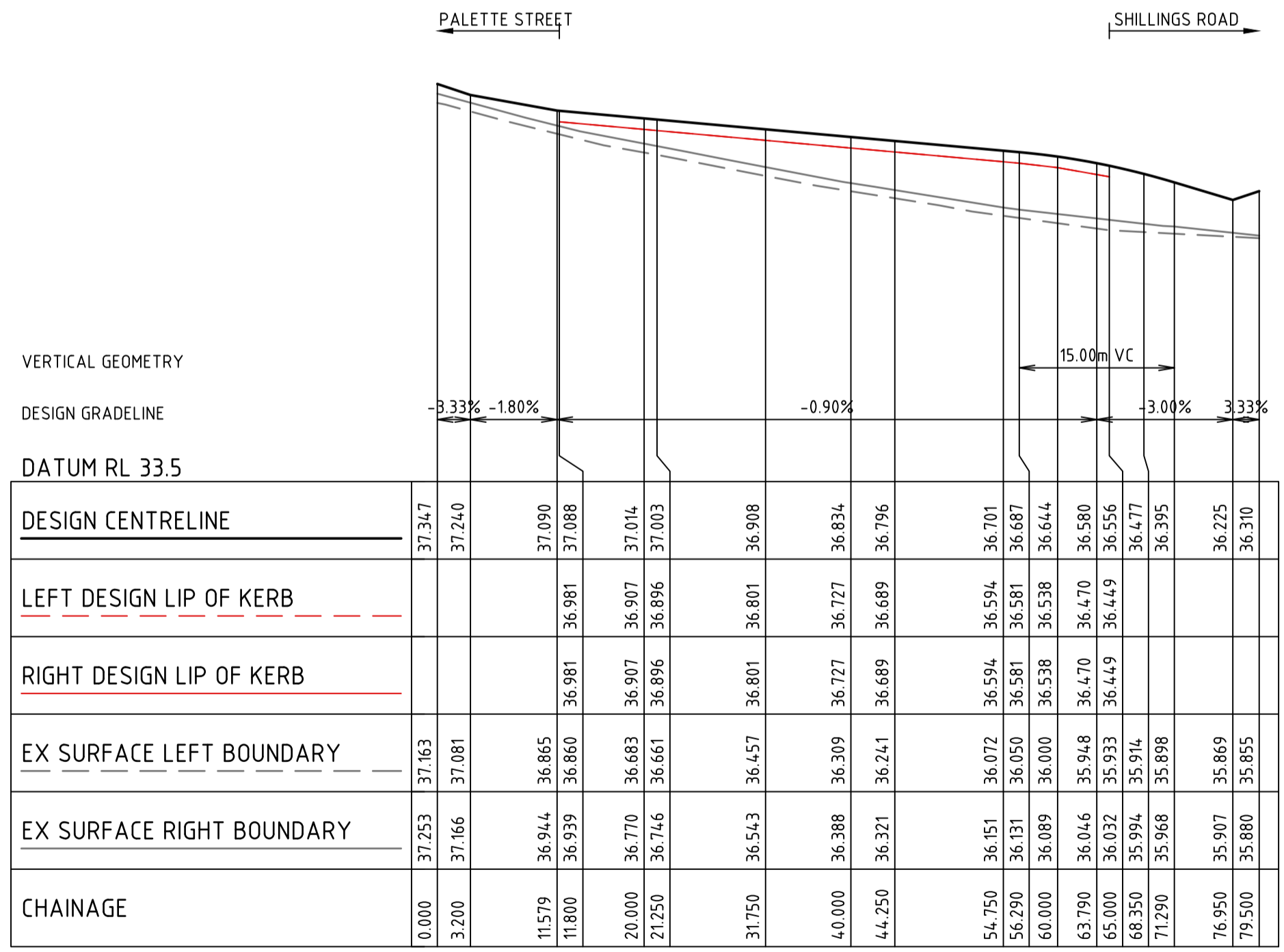
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NIVEA STREET

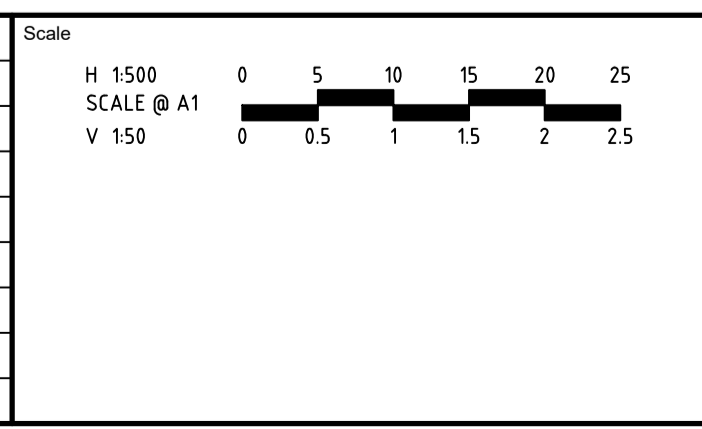


SHRUBS ROAD



BIOTA WAY

2	AS CONSTRUCTED	M.R	23/06/23
1	BIOTA WAY SECTION UPDATED	M.R	02/11/22
0	ISSUED FOR CONSTRUCTION	M.R	28/09/22
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MAMBOURIN
STAGE 18
ROAD AND DRAINAGE
NIVEA ST, SHRUBS RD & BIOTA WAY LONG SECTIONS
WYNDHAM CITY COUNCIL
FRASERS PROPERTY LTD

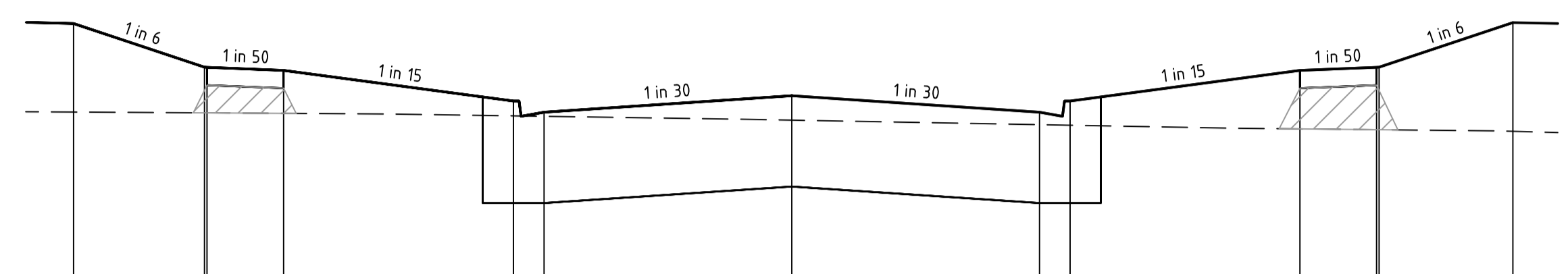
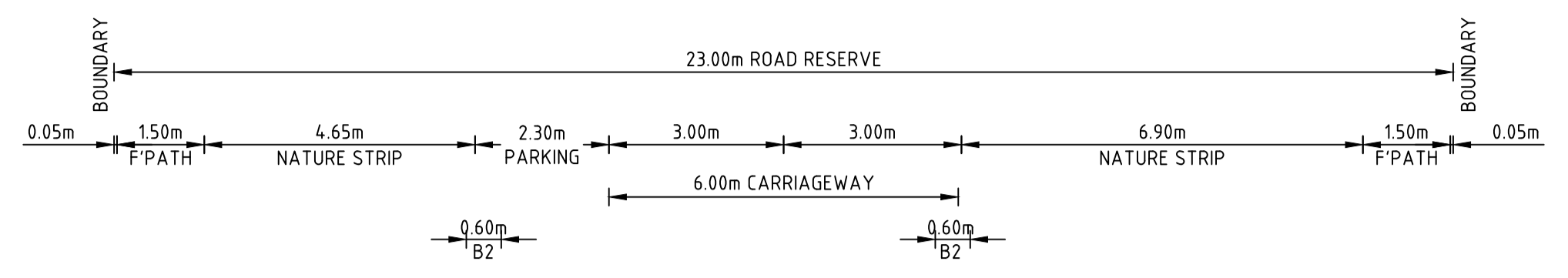
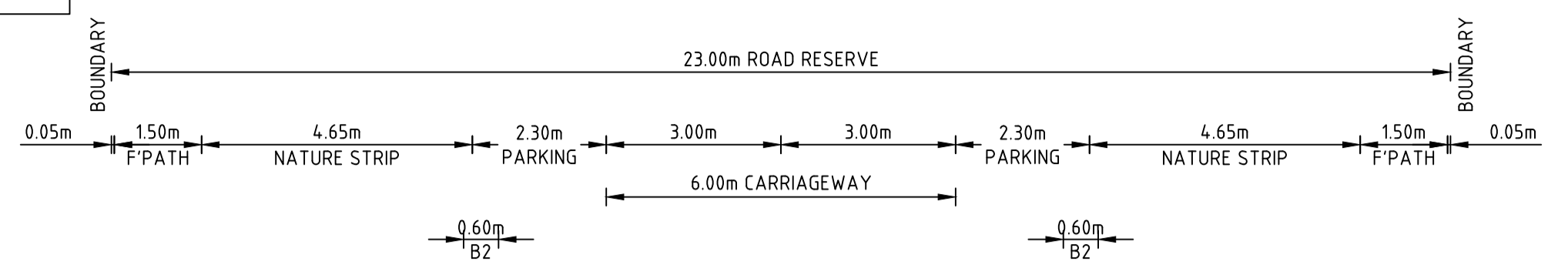
AS CONSTRUCTED

Drg No
309505CR301

Rev
2

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.

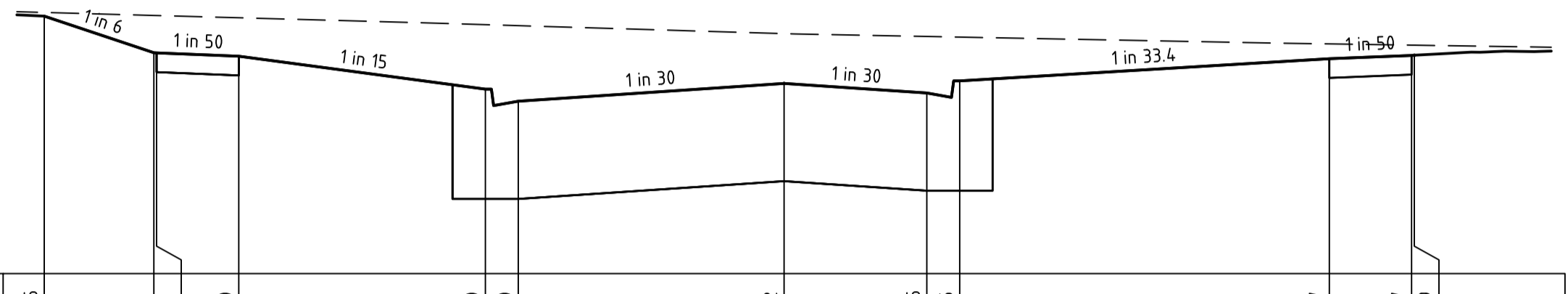
 STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1



DATUM R.L. 34.0	
DESIGN SURFACE LEVEL	36.197, 36.370, 36.368, 36.338, 36.038, 35.928, 36.090, 35.928, 36.338, 36.368, 36.370, 36.806
EXISTING SURFACE LEVEL	35.930, 35.922, 35.922, 35.917, 35.888, 35.888, 35.851, 35.806, 35.801, 35.757, 35.757, 35.711
OFFSET	-11.063, -11.500, -11.450, -9.950, -5.450, -4.850, 0.000, 4.850, 5.450, 9.950, 11.450, 11.500, 14.119

SHILLINGS ROAD

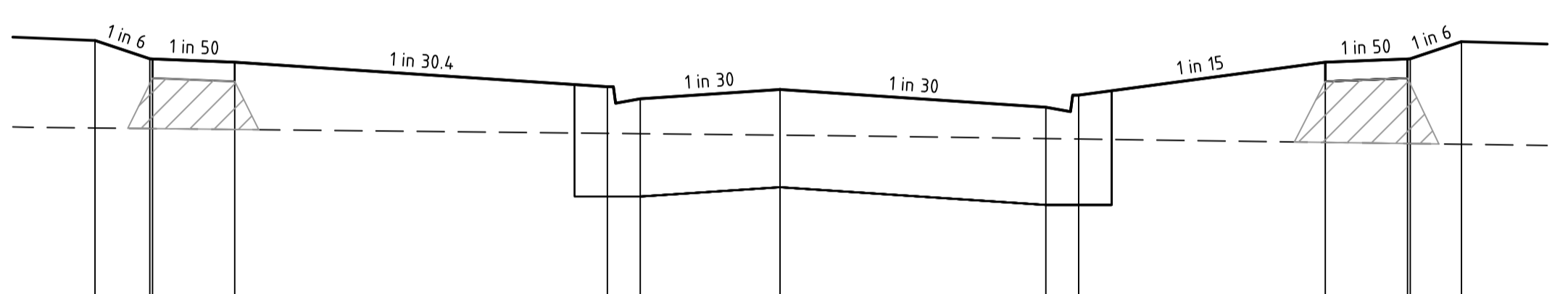
CH 251.34



DATUM R.L. 34.0	
DESIGN SURFACE LEVEL	36.345, 36.012, 36.010, 35.980, 35.680, 35.720, 35.645, 35.957, 35.987, 35.889
EXISTING SURFACE LEVEL	36.379, 36.351, 36.351, 36.330, 36.267, 36.258, 36.154, 36.092, 36.081, 36.080
OFFSET	-13.500, -11.500, -11.450, -9.950, -5.450, -4.850, 0.000, 2.605, 3.205, 9.950, 11.450, 11.500

SHILLINGS ROAD

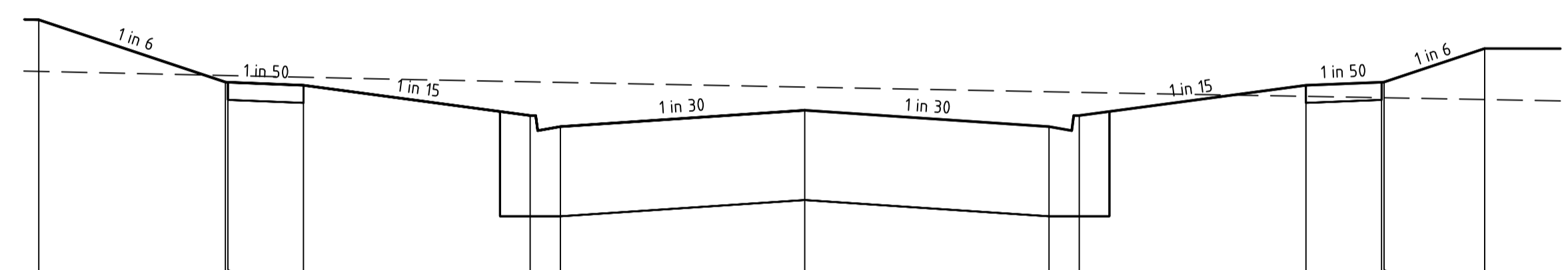
CH 327.54



DATUM R.L. 34.0	
DESIGN SURFACE LEVEL	36.698, 36.531, 36.529, 36.499, 36.276, 36.166, 36.251, 36.089, 36.199, 36.499, 36.529, 36.531, 36.687
EXISTING SURFACE LEVEL	35.900, 35.895, 35.895, 35.887, 35.851, 35.848, 35.835, 35.804, 35.800, 35.769, 35.759, 35.758, 35.752
OFFSET	-12.500, -11.500, -11.450, -9.950, -3.150, -2.550, 0.000, 4.850, 5.450, 9.950, 11.450, 11.500, 12.435

SHILLINGS ROAD

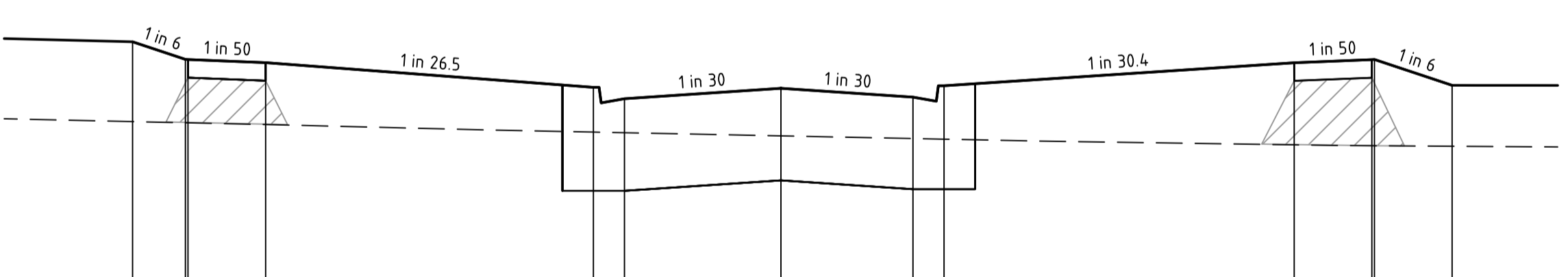
CH 219.14



DATUM R.L. 34.0	
DESIGN SURFACE LEVEL	36.727, 36.110, 36.108, 35.778, 35.668, 35.830, 35.668, 36.078, 36.108, 36.443
EXISTING SURFACE LEVEL	36.216, 36.175, 36.174, 36.158, 36.112, 36.106, 36.060, 35.968, 35.955, 35.954
OFFSET	-15.204, -11.500, -11.450, -9.950, -5.450, -4.850, 0.000, 4.850, 5.450, 9.950, 11.450, 11.500, 13.497

SHILLINGS ROAD

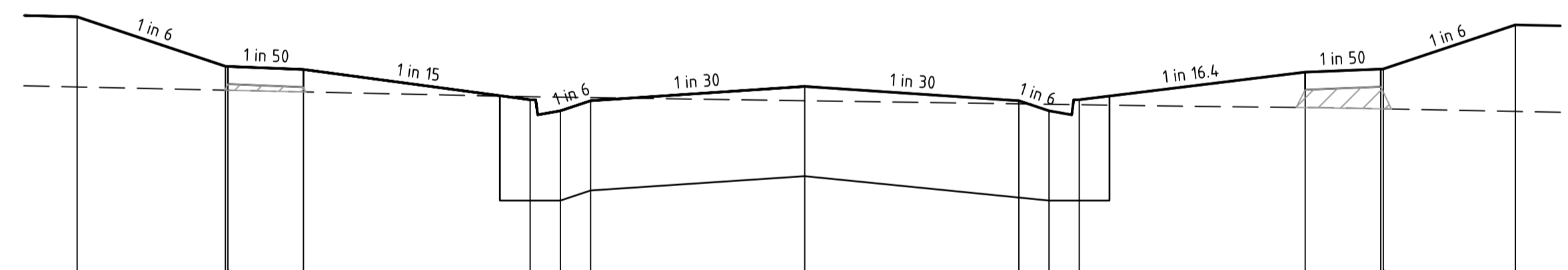
CH 303.34



DATUM R.L. 34.0	
DESIGN SURFACE LEVEL	36.824, 36.654, 36.652, 36.622, 36.383, 36.273, 36.374, 36.289, 36.399, 36.621, 36.651, 36.653, 36.403
EXISTING SURFACE LEVEL	36.052, 36.041, 36.040, 36.024, 35.951, 35.945, 35.914, 35.889, 35.883, 35.828, 35.819, 35.819, 35.814
OFFSET	-12.520, -11.450, -11.450, -9.950, -3.621, -3.021, 0.000, 2.550, 3.150, 9.911, 11.411, 11.461, 12.961

SHILLINGS ROAD

CH 194.53



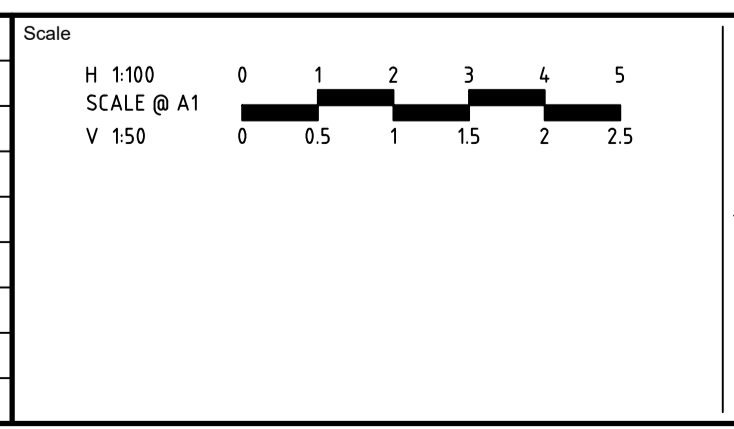
DATUM R.L. 34.0	
DESIGN SURFACE LEVEL	36.761, 36.271, 36.269, 35.939, 35.829, 35.929, 36.071, 35.929, 36.213, 36.243, 36.244, 36.681
EXISTING SURFACE LEVEL	36.066, 36.034, 36.033, 36.017, 35.969, 35.964, 35.960, 35.894, 35.890, 35.862, 35.849, 35.849
OFFSET	-14.443, -11.500, -11.450, -9.950, -5.450, -4.850, 0.000, 4.250, 4.850, 9.935, 11.435, 11.465, 14.107


SHILLINGS ROAD

CH 276.34


file name: 309505CR400.dwg, layout name: CR400, plotted by: Kevin Nguyen, file location: \\spiremedia\data\309505\309505.dwg, plot date: 23/06/2023 2:55 PM, sheet: 6 of 15 sheets


Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.R.	23/06/23
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 Authorised
M. RANJANAN


 Checked
G. KOHLMAN
 Date
 11/11/22

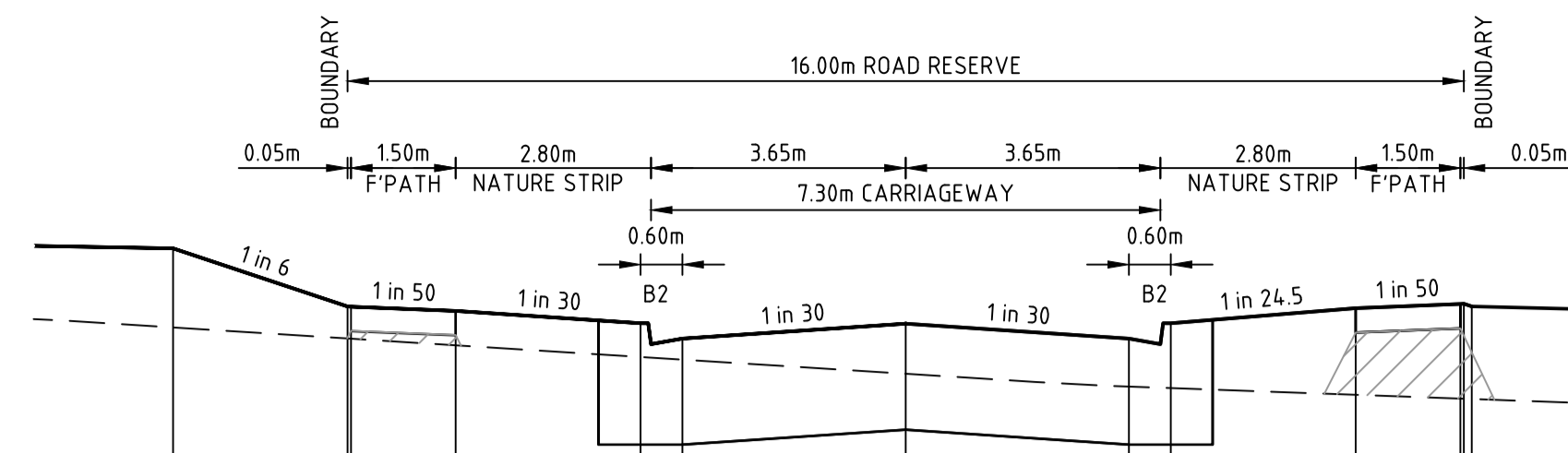
MAMBOURIN
STAGE 18
ROAD AND DRAINAGE
SHILLINGS ROAD CROSS SECTIONS
 WYNDHAM CITY COUNCIL
 FRASERS PROPERTY LTD
AS CONSTRUCTED

Drg No
309505CR400

Rev
1

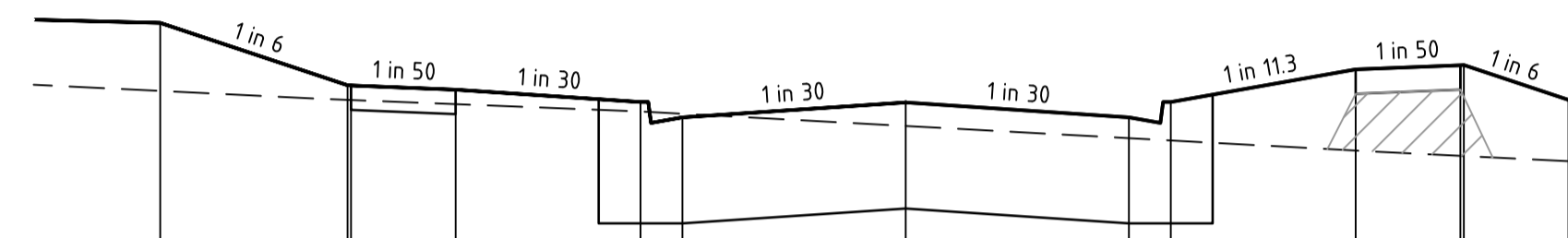
FILLING NOTE
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 STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1



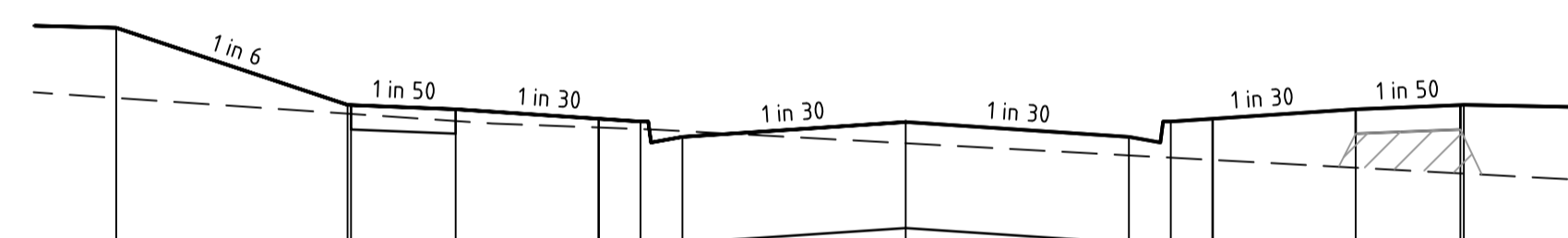
DATUM R.L.36.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

PALETTE STREET CH 144.91



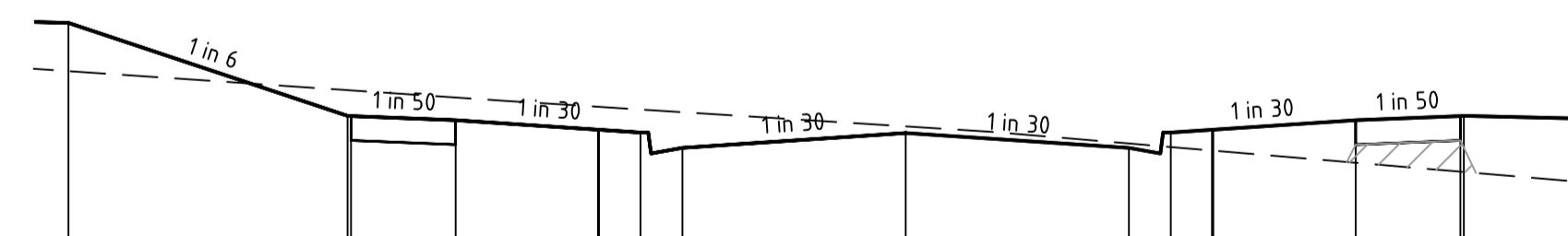
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DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

PALETTE STREET CH 128.09



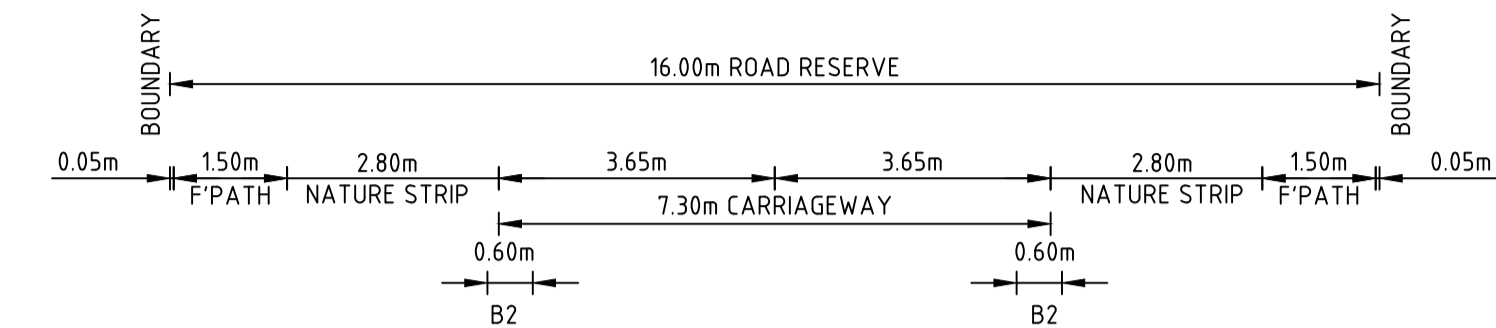
DATUM R.L.36.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

PALETTE STREET CH 104.49



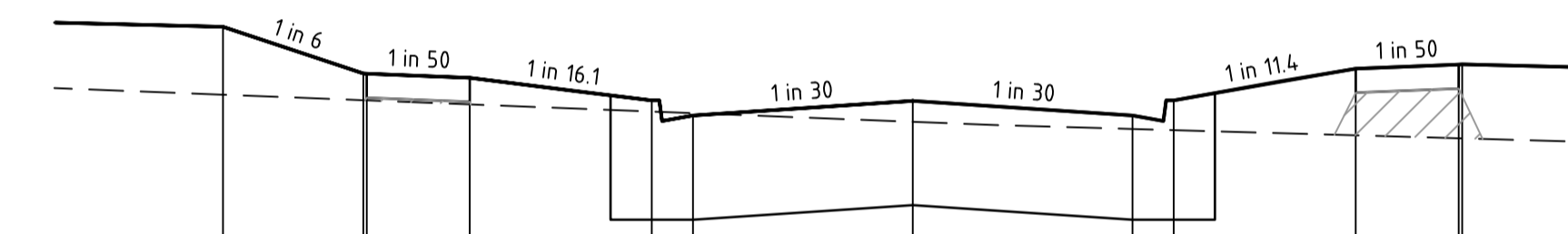
DATUM R.L.36.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

PALETTE STREET CH 78.86



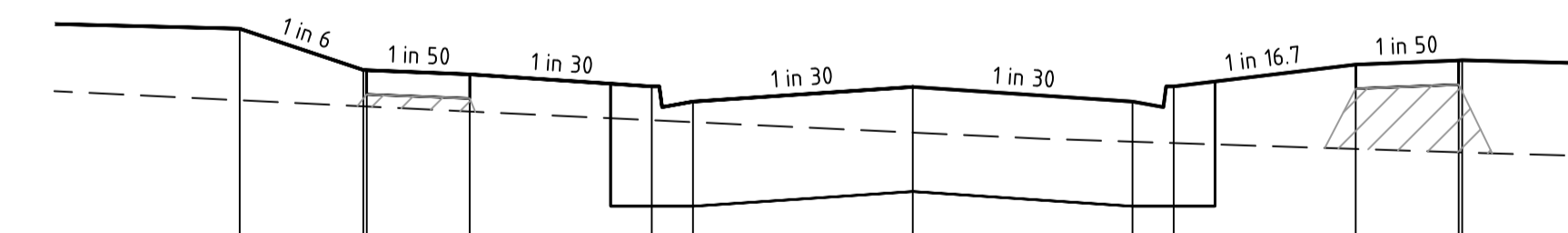
DATUM R.L.35.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

PALETTE STREET CH 216.91



DATUM R.L.35.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

PALETTE STREET CH 193.36

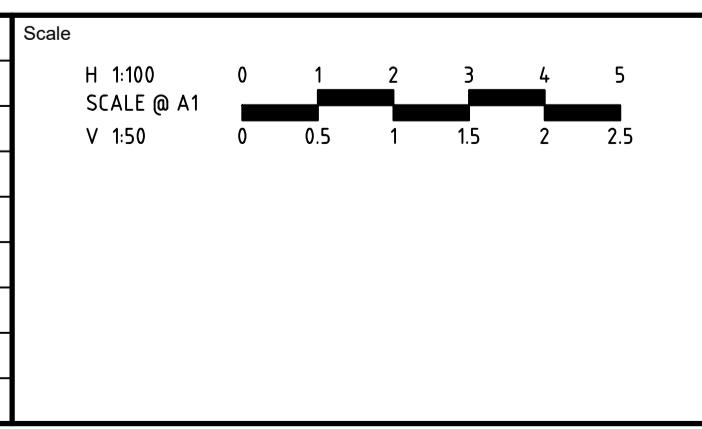



DATUM R.L.35.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

PALETTE STREET CH 168.51


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1	AS CONSTRUCTED	M.R	23/06/23
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K. FEARN-WANNAN
 Authorised
M. RANJANAN

Checked
G. KOHLMAN
 Date
 11/11/22

MAMBOURIN
 STAGE 18
 ROAD AND DRAINAGE
 PALETTE STREET CROSS SECTIONS
 WYNDHAM CITY COUNCIL
 FRASERS PROPERTY LTD

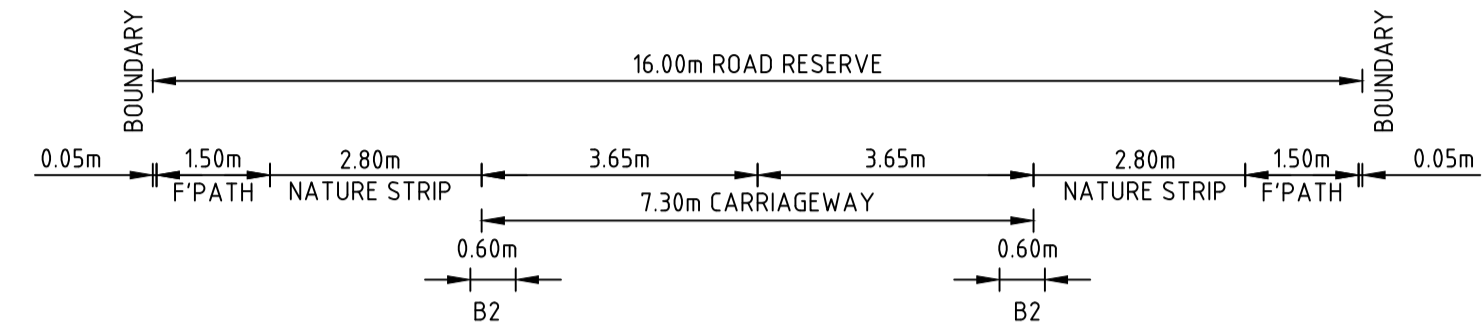
AS CONSTRUCTED

Drg No
309505CR401

Rev
1

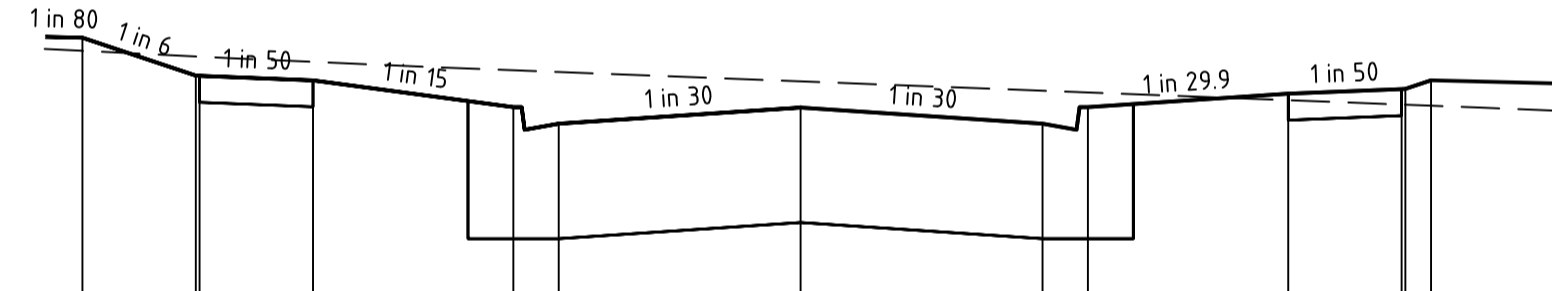
FILLING NOTE
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 STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1



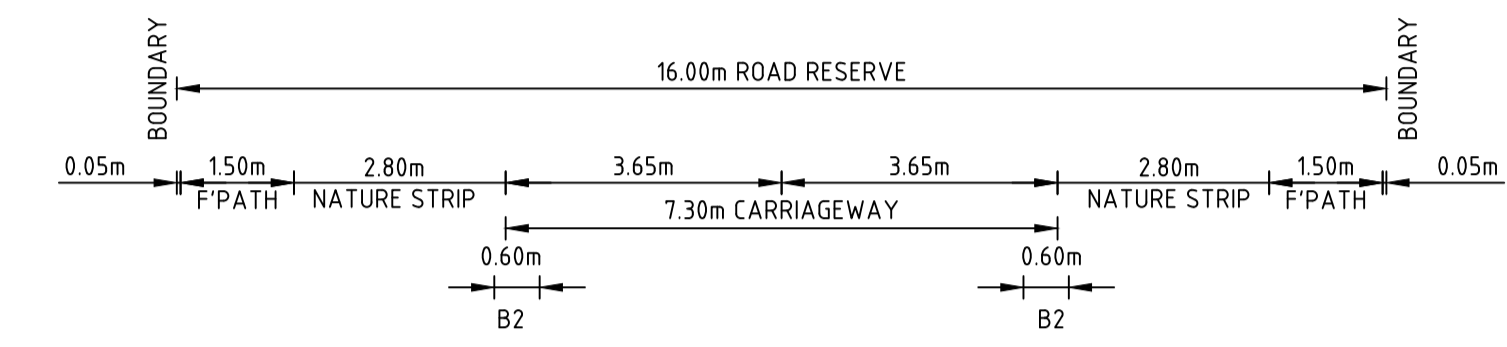
DATUM R.L.35.0	
DESIGN SURFACE LEVEL	37.593
EXISTING SURFACE LEVEL	37.721
OFFSET	-9.500

PALETTE STREET CH 252.86



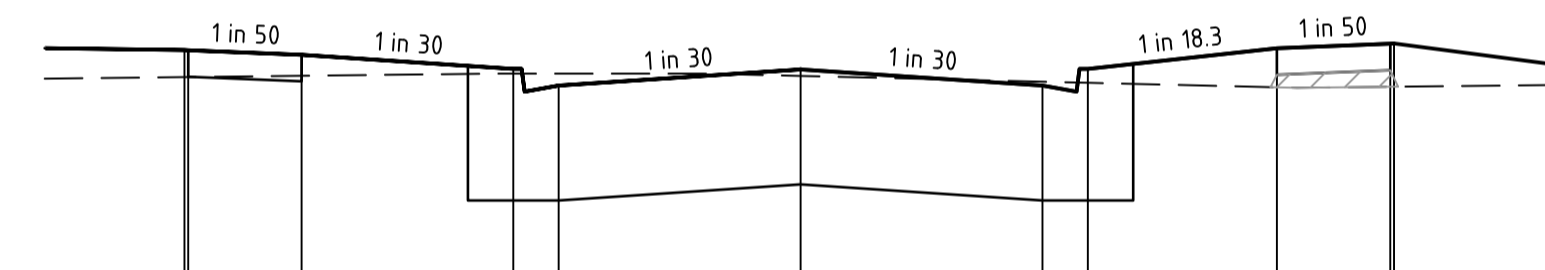
DATUM R.L.35.0	
DESIGN SURFACE LEVEL	37.637
EXISTING SURFACE LEVEL	37.551
OFFSET	-9.500

PALETTE STREET CH 240.51



DATUM R.L.36.0	
DESIGN SURFACE LEVEL	37.729
EXISTING SURFACE LEVEL	37.253
OFFSET	-8.150

NIVEA STREET CH 91.12

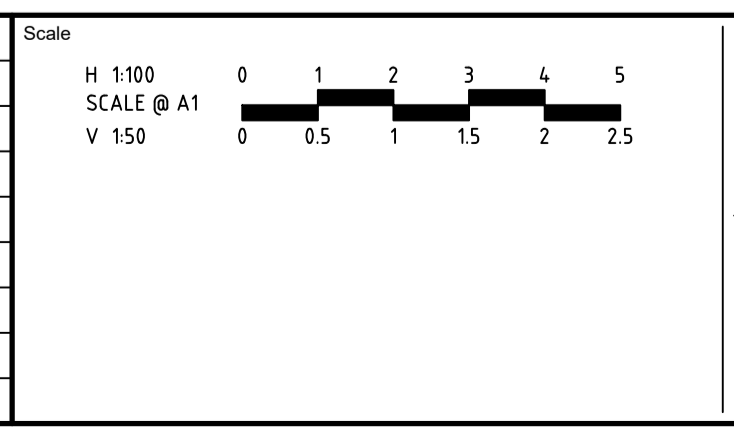



DATUM R.L.36.0	
DESIGN SURFACE LEVEL	38.417
EXISTING SURFACE LEVEL	38.238
OFFSET	-8.150

NIVEA STREET CH 62.92



file name: 309505CR402.dwg, layout name: CR402, plotted by: Kevin Nguyen, file location: \\spiremedia\data\309505\dwg\MAMBOURIN.dwg, plot date: 23/06/2023 2:55 PM, Sheet: 8 of 15 Sheets

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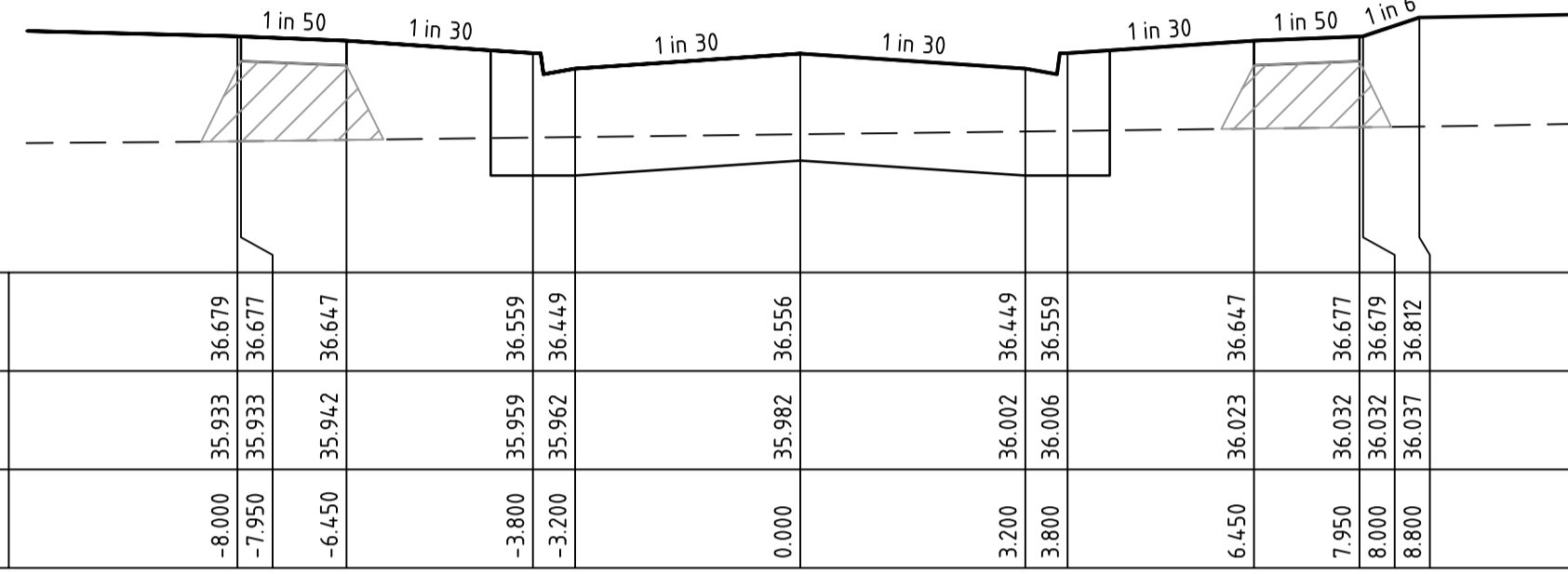
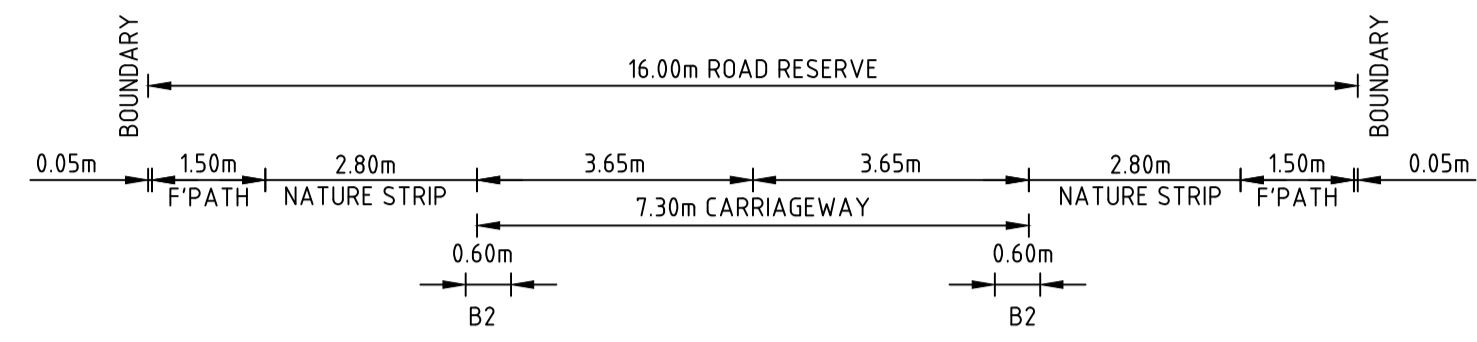

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 Authorised: M. RANJANAN
 Checked: G. KOHLMAN
 Date: 11/11/22

MAMBOURIN
STAGE 18
 ROAD AND DRAINAGE
 PALETTE STREET & NIVEA STREET CROSS SECTIONS
 WYNDHAM CITY COUNCIL
 FRASERS PROPERTY LTD
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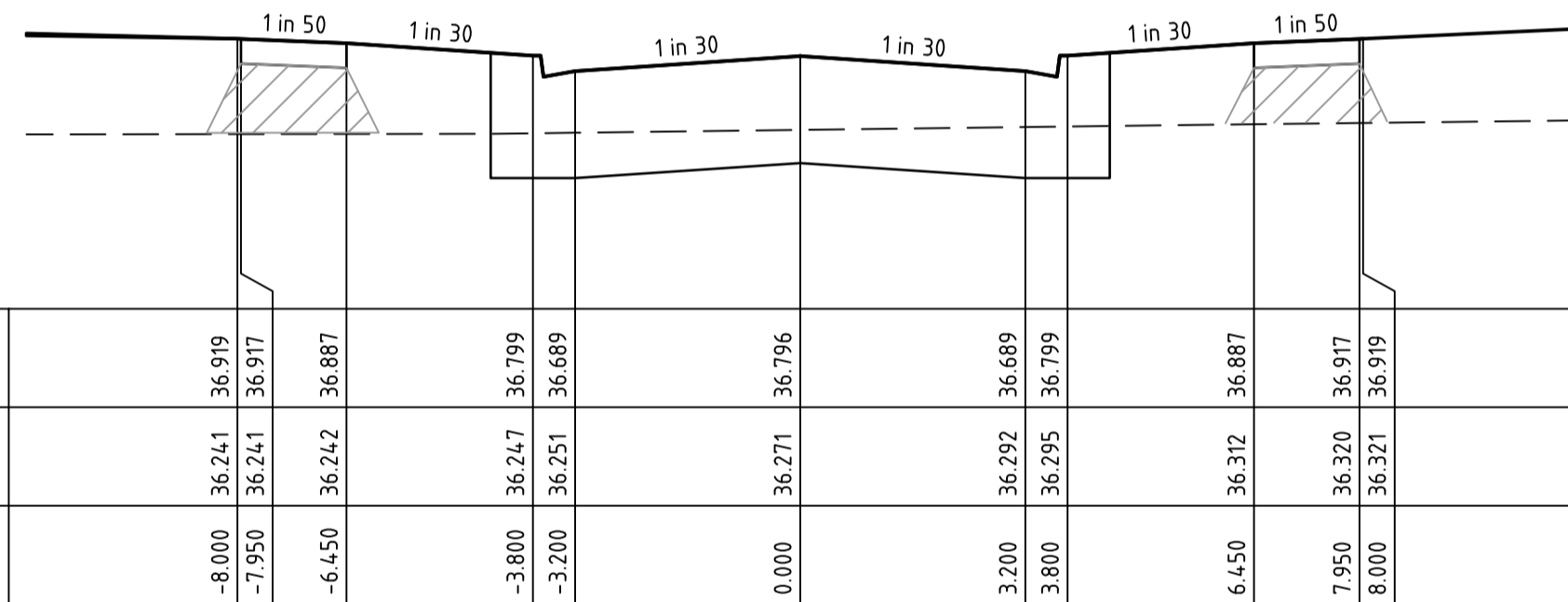
 STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1



DATUM R.L. 35.0

Offset	Design Surface Level	Existing Surface Level
-8.000	35.933	36.677
-7.950	35.933	36.677
-6.450	35.942	36.647
-3.800	35.959	36.559
-3.200	35.962	36.449
0.000	36.556	
3.200	36.002	36.449
3.800	36.006	36.559
6.450	36.023	36.647
7.950	36.032	36.677
8.000	36.032	36.677
8.800	36.037	36.677

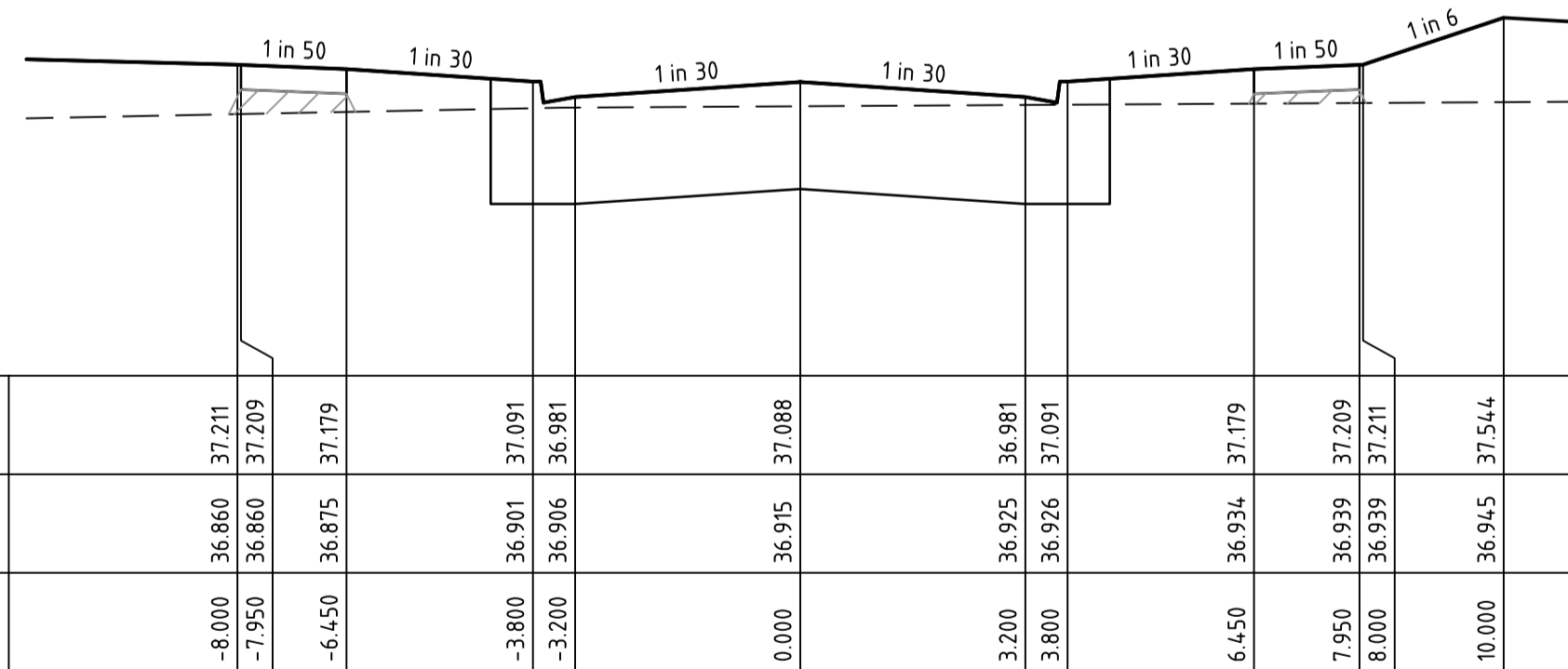
BIOTA WAY CH 65.00



DATUM R.L. 35.0

Offset	Design Surface Level	Existing Surface Level
-8.000	36.241	36.919
-7.950	36.241	36.917
-6.450	36.242	36.887
-3.800	36.247	36.799
-3.200	36.251	36.689
0.000	36.796	
3.200	36.292	36.689
3.800	36.295	36.799
6.450	36.312	36.887
7.950	36.320	36.917
8.000	36.321	36.919

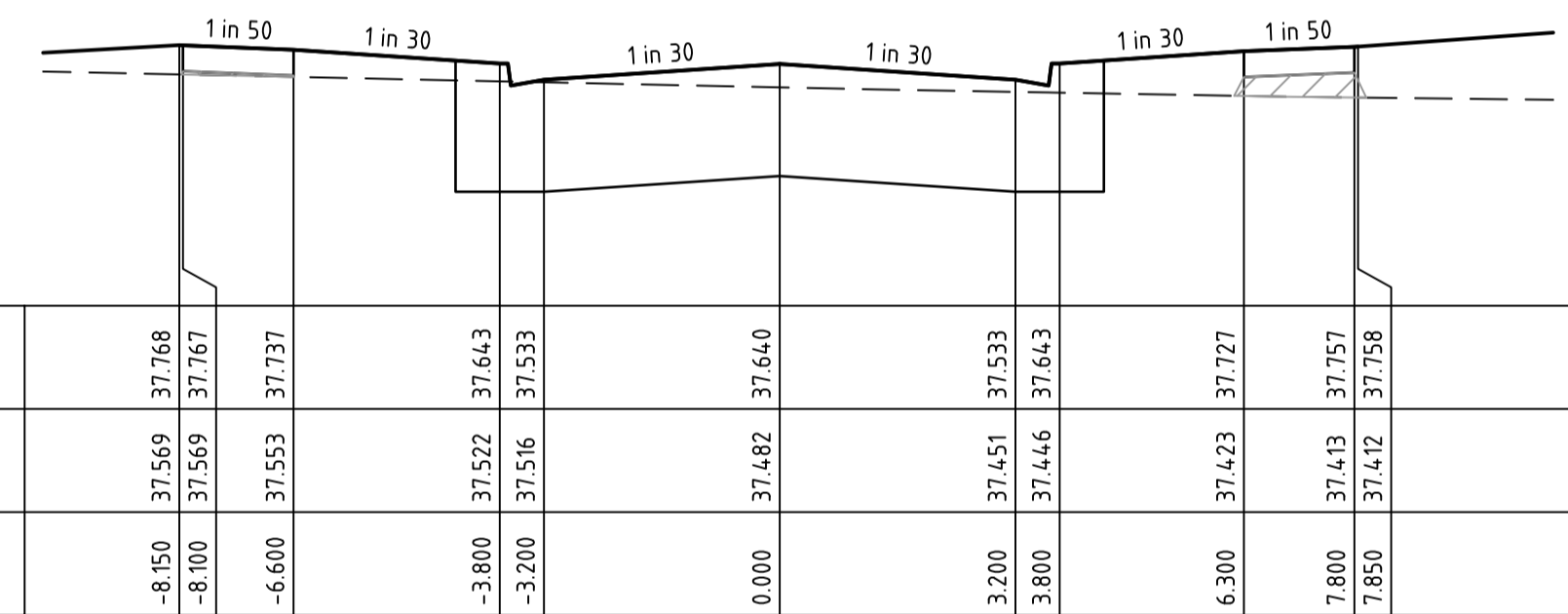
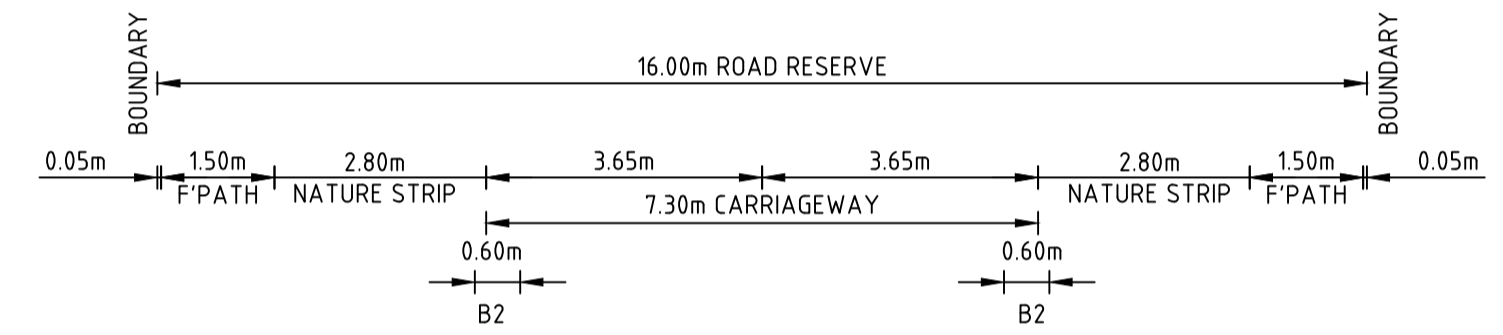
BIOTA WAY CH 44.25



DATUM R.L. 35.0

Offset	Design Surface Level	Existing Surface Level
-8.000	36.860	37.211
-7.950	36.860	37.209
-6.450	36.875	37.179
-3.800	36.901	37.091
-3.200	36.906	36.981
0.000	36.915	37.088
3.200	36.925	36.981
3.800	36.926	37.091
6.450	36.934	37.179
7.950	36.939	37.209
8.000	36.939	37.211
10.000	36.945	37.544

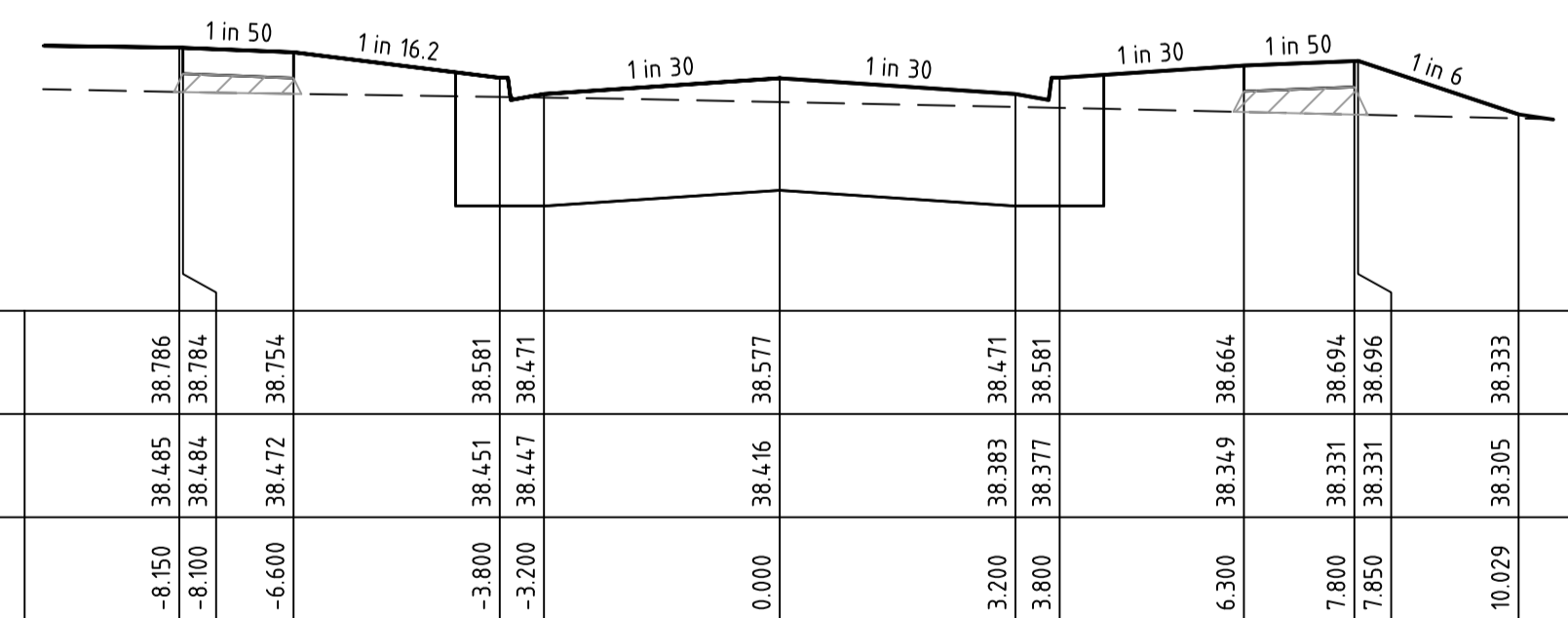
BIOTA WAY CH 11.80



DATUM R.L. 36.0

Offset	Design Surface Level	Existing Surface Level
-8.150	37.569	37.768
-8.100	37.569	37.767
-6.600	37.553	37.737
-3.800	37.522	37.643
-3.200	37.516	37.533
0.000	37.482	37.640
3.200	37.451	37.533
3.800	37.446	37.643
6.300	37.423	37.727
7.800	37.413	37.757
7.850	37.412	37.758

SHRUBS ROAD CH 109.65



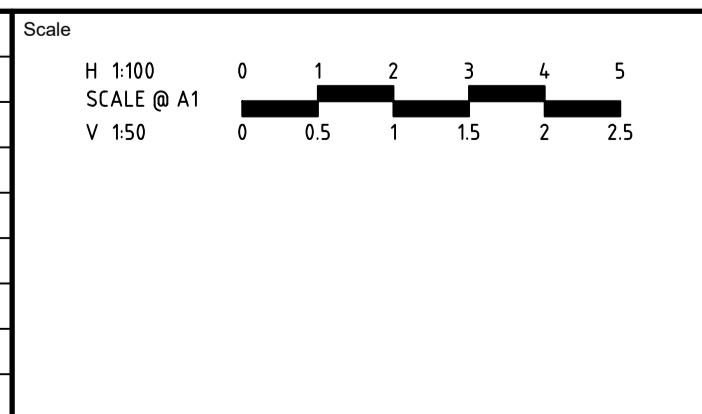
DATUM R.L. 37.0


Offset	Design Surface Level	Existing Surface Level
-8.150	38.485	38.786
-8.100	38.484	38.784
-6.600	38.472	38.754
-3.800	38.451	38.581
-3.200	38.447	38.471
0.000	38.416	38.577
3.200	38.383	38.471
3.800	38.377	38.581
6.300	38.349	38.664
7.800	38.331	38.694
7.850	38.331	38.696
10.029	38.305	38.333

SHRUBS ROAD CH 81.45


file name: 309505CR403.dwg, location: temp, CR403, plot date: 23/06/2023 2:55 PM, sheet: 9 of 15 sheets


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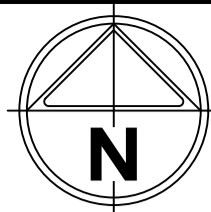

 Checked
 G. KOHLMAN
 Date
 11/11/22

MAMBOURIN
STAGE 18
 ROAD AND DRAINAGE
 SHRUBS ROAD & BIOTA WAY CROSS SECTIONS
 WYNDHAM CITY COUNCIL
 FRASERS PROPERTY LTD

AS CONSTRUCTED

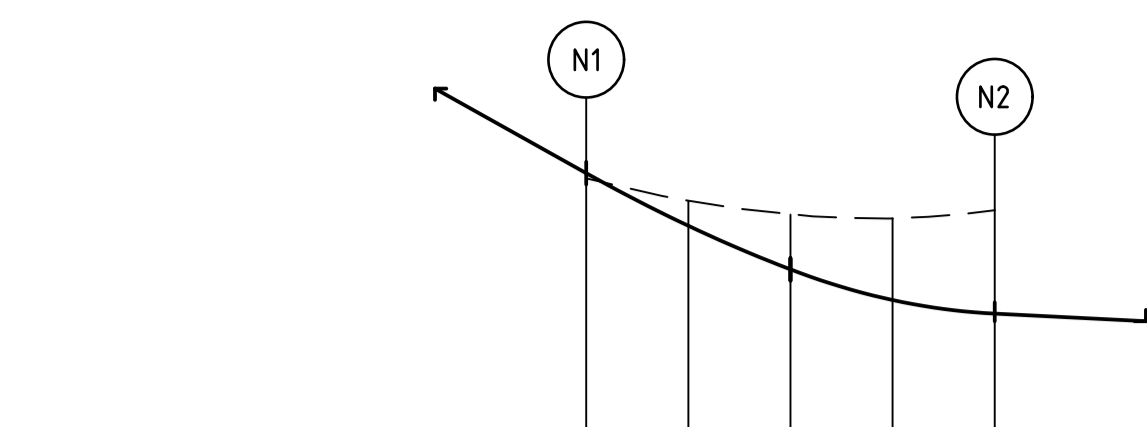
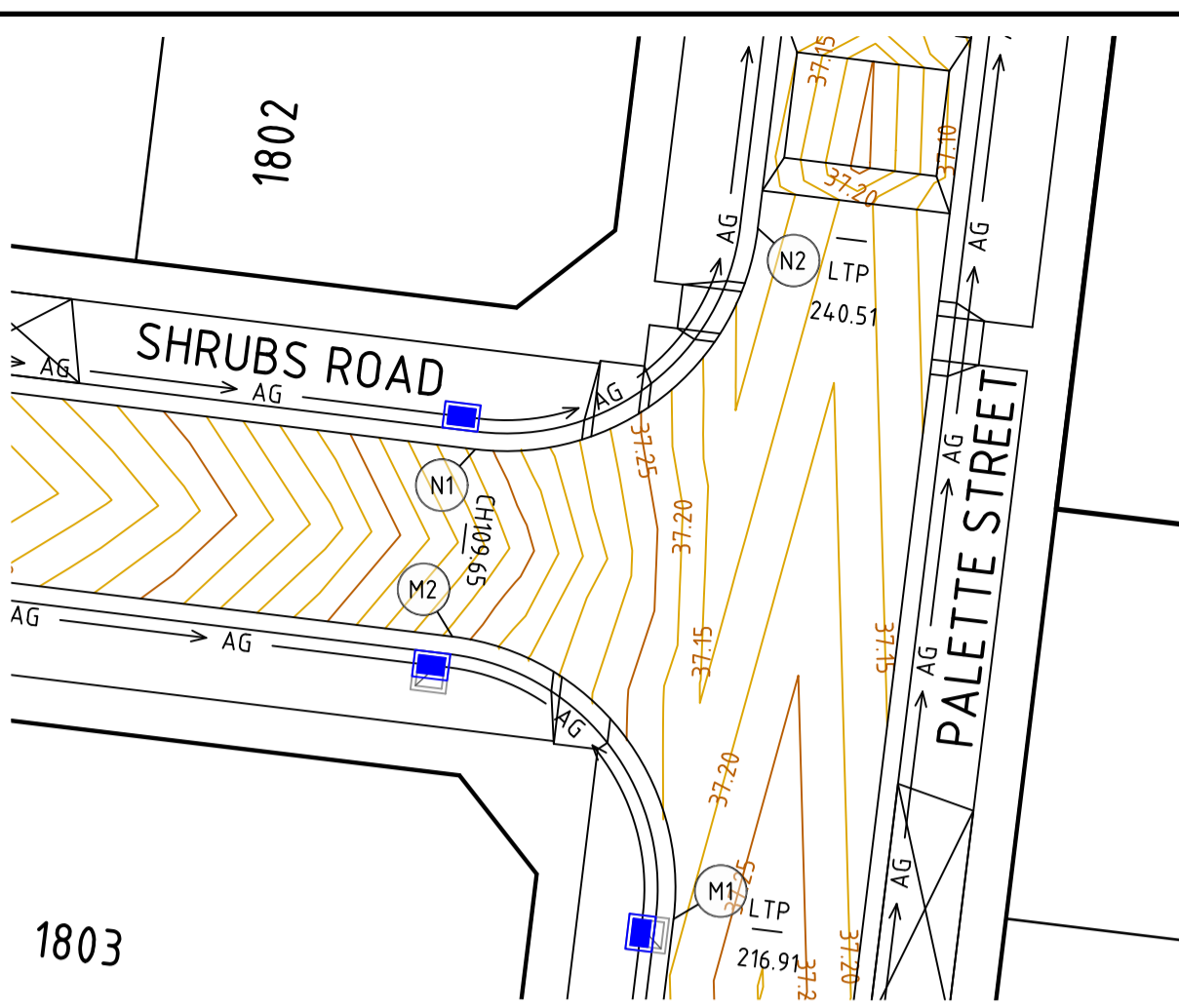
Drg No
309505CR403

Rev
1



MGA 94
ZONE 55

1843



VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 36.0

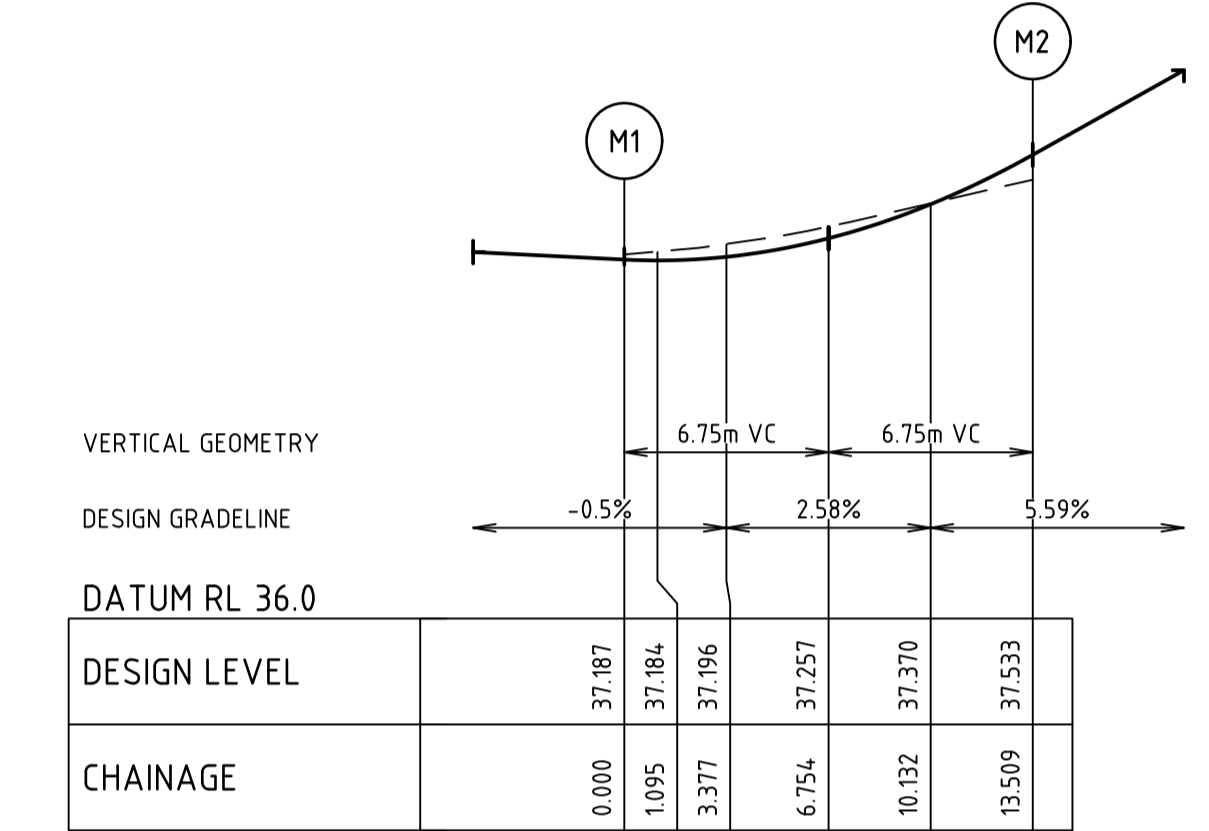
DESIGN LEVEL	CHAINAGE
37.533	0.000
37.359	3.377
37.215	6.754
37.114	10.132
37.069	13.509

KERB N

ALIGNMENT N

POINT NO	EASTING	NORTHING	RL
N1	289047.805	5803807.308	37.533
1/4	289051.151	5803807.560	37.359
1/2	289054.147	5803809.072	37.215
3/4	289056.335	5803811.616	37.114
N2	289057.383	5803814.804	37.069

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
N1-N2	8.600	13.509	12.162	2.519	-0.655



VERTICAL GEOMETRY

DESIGN GRADELINE

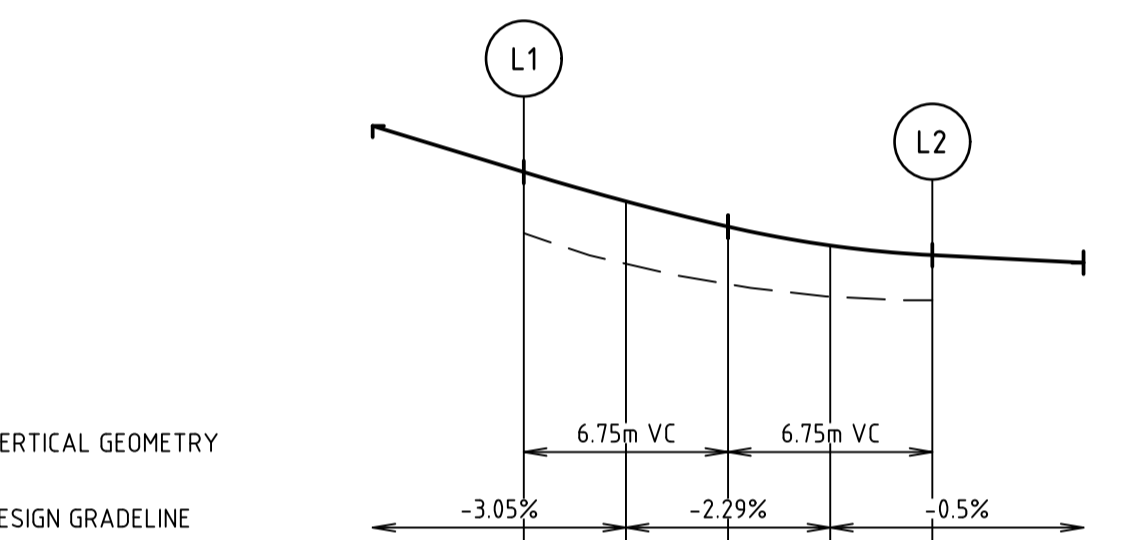
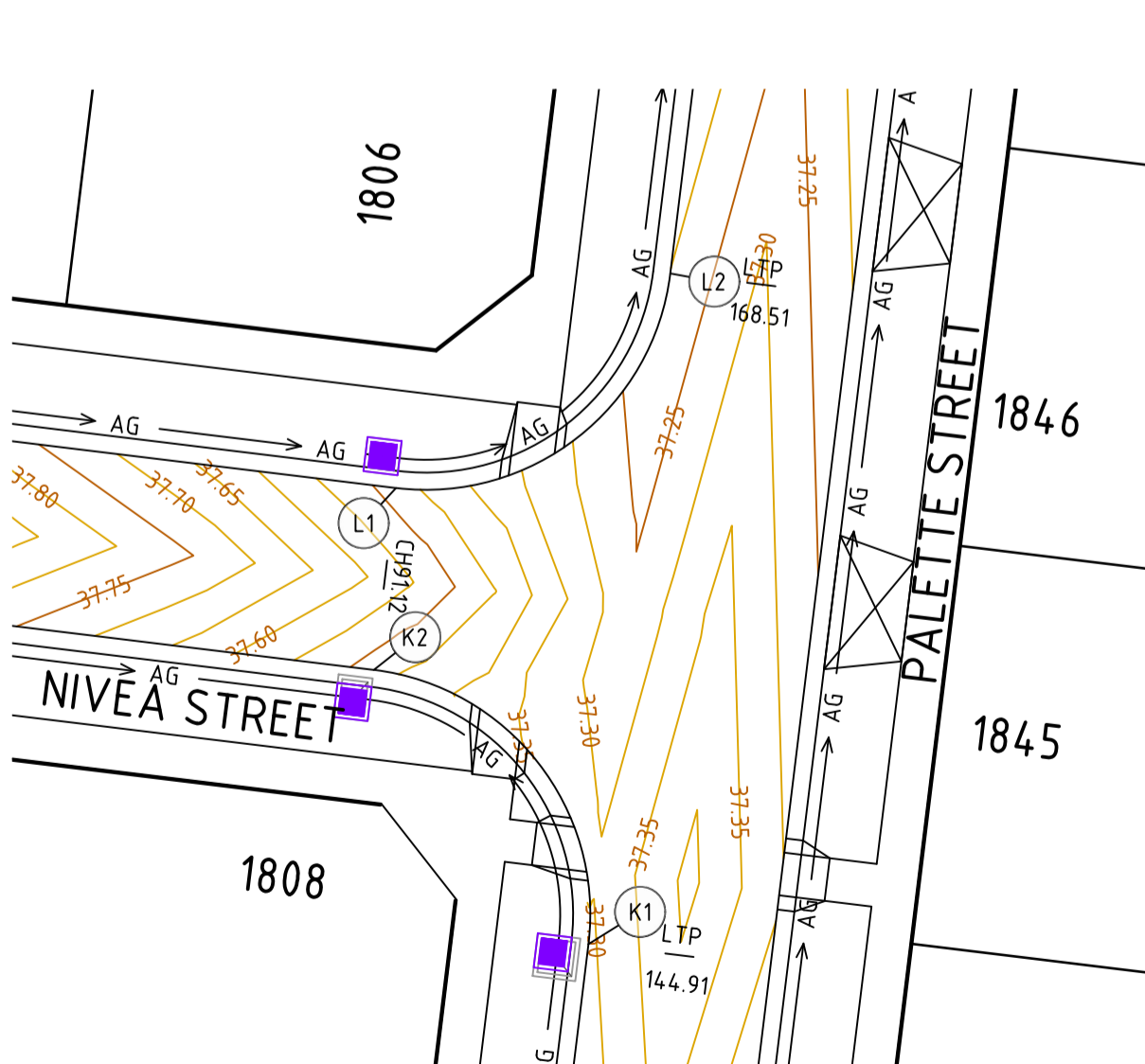
DATUM RL 36.0

DESIGN LEVEL	CHAINAGE
37.187	0.000
37.184	1.095
37.196	3.377
37.257	6.754
37.370	10.132
37.533	13.509

KERB M

ALIGNMENT M

POINT NO	EASTING	NORTHING	RL
M1	289054.526	5803791.377	37.187
1/4	289054.274	5803794.723	37.196
1/2	289052.762	5803797.719	37.257
3/4	289050.218	5803799.907	37.370
M2	289047.030	5803800.955	37.533



VERTICAL GEOMETRY

DESIGN GRADELINE

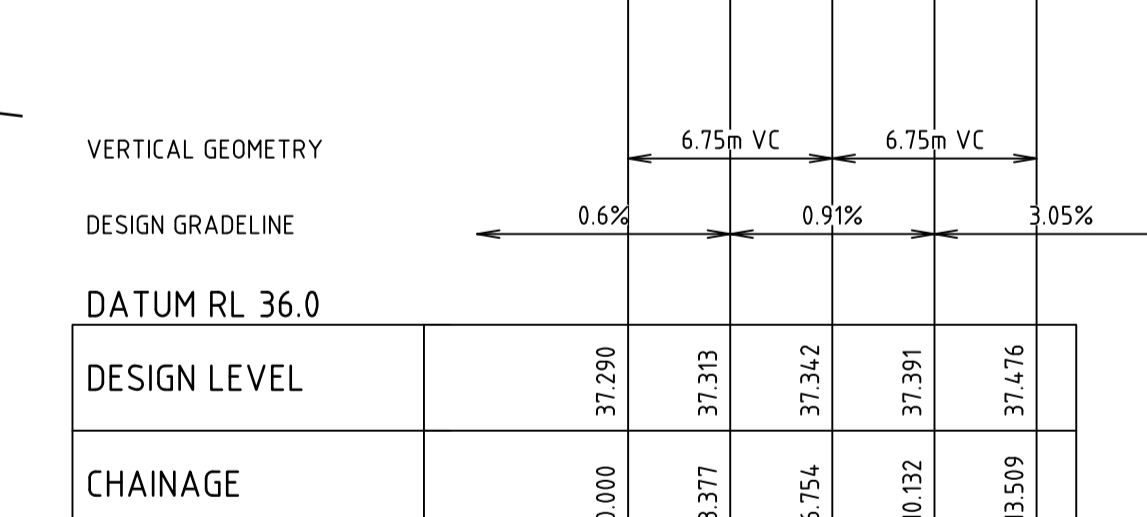
DATUM RL 36.0

DESIGN LEVEL	CHAINAGE
37.476	0.000
37.379	3.377
37.285	6.754
37.233	10.132
37.201	13.509

KERB L

ALIGNMENT L

POINT NO	EASTING	NORTHING	RL
L1	289039.087	5803735.838	37.476
1/4	289042.434	5803736.089	37.379
1/2	289045.429	5803737.602	37.295
3/4	289047.617	5803740.146	37.233
L2	289048.665	5803743.333	37.201



VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 36.0

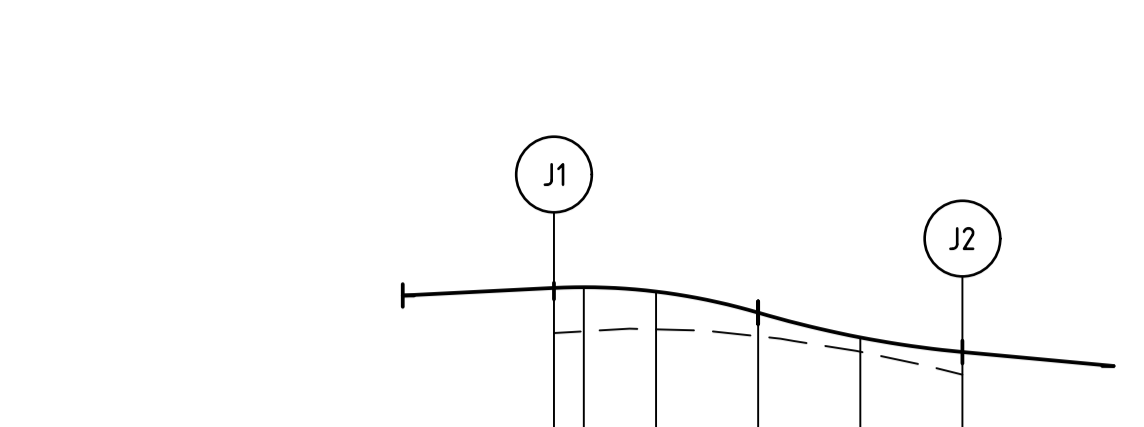
DESIGN LEVEL	CHAINAGE
37.290	0.000
37.313	3.377
37.342	6.754
37.391	10.132
37.476	13.509

KERB K

ALIGNMENT K

POINT NO	EASTING	NORTHING	RL
K1	289045.808	5803719.907	37.290
1/4	289045.557	5803723.253	37.313
1/2	289044.044	5803726.248	37.342
3/4	289041.500	5803728.437	37.391
K2	289038.313	5803729.485	37.476

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
K1-K2	8.600	13.509	12.162	2.519	-0.655



VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 36.0

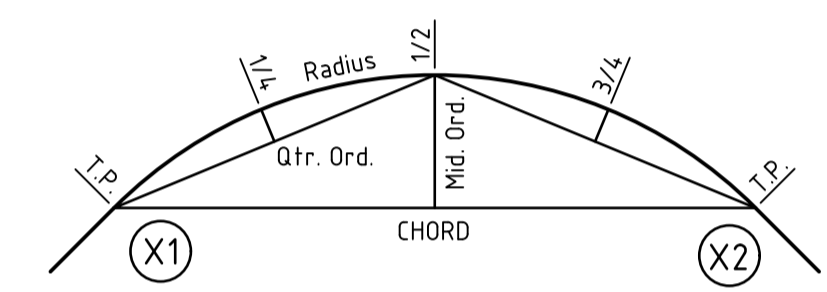
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37.195	0.987
37.181	3.377
37.111	6.754
37.029	10.132
36.981	13.509

KERB J

ALIGNMENT J

POINT NO	EASTING	NORTHING	RL
J1	289050.124	5803702.433	37.193
1/4	289050.375	5803699.087	37.181
1/2	289051.888	5803696.092	37.110
3/4	289054.432	5803693.903	37.029
J2	289057.619	5803692.855	36.981

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
J1-J2	8.600	13.509	12.162	2.519	-0.655

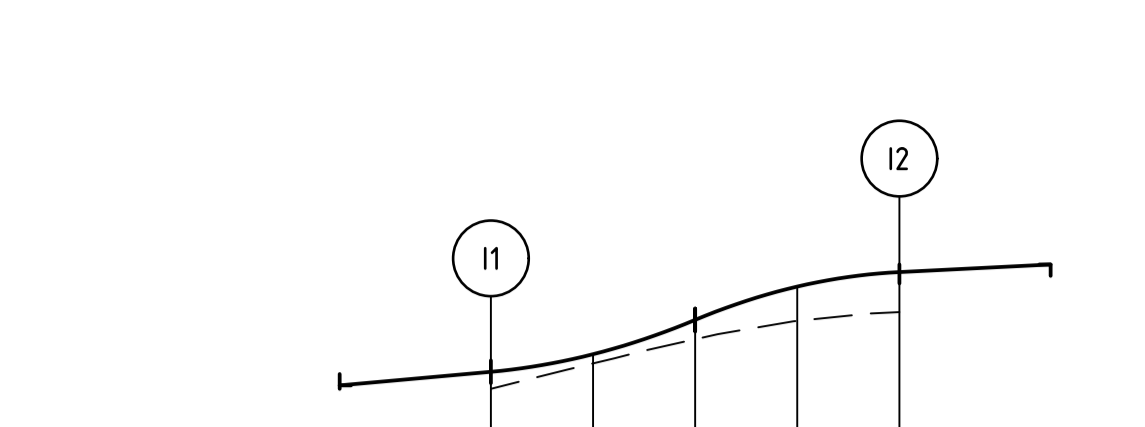


KERB RETURN SETOUT DETAIL

ALIGNMENT L

POINT NO	EASTING	NORTHING	RL
L1	289039.087	5803735.838	37.476
1/4	289042.434	5803736.089	37.379
1/2	289045.429	5803737.602	37.295
3/4	289047.617	5803740.146	37.233
L2	289048.665	5803743.333	37.201

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
L1-L2	8.600	13.509	12.162	2.519	-0.655



VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 36.0

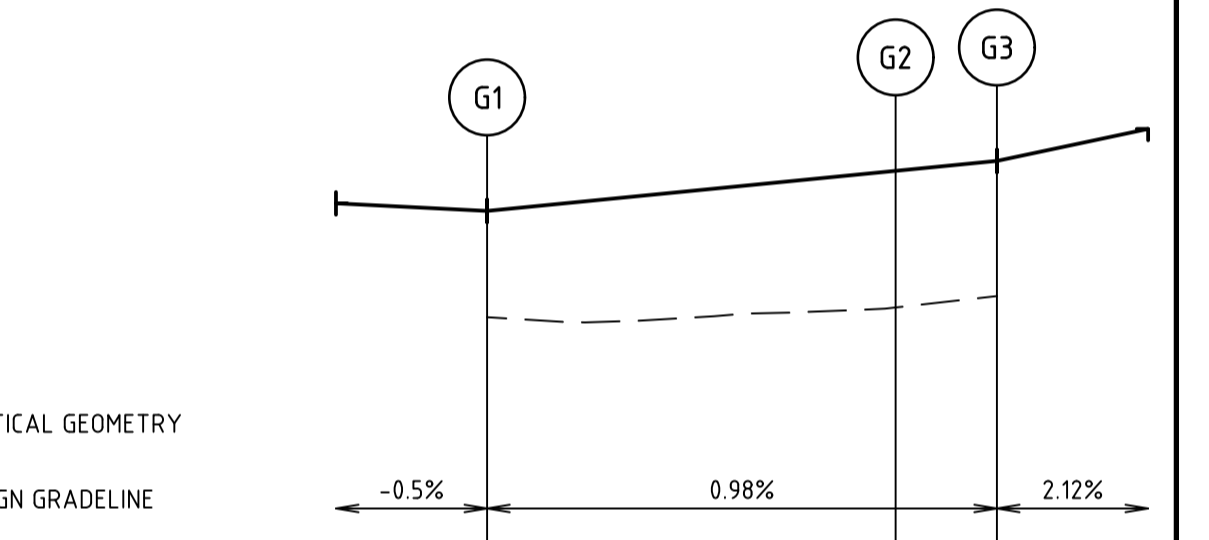
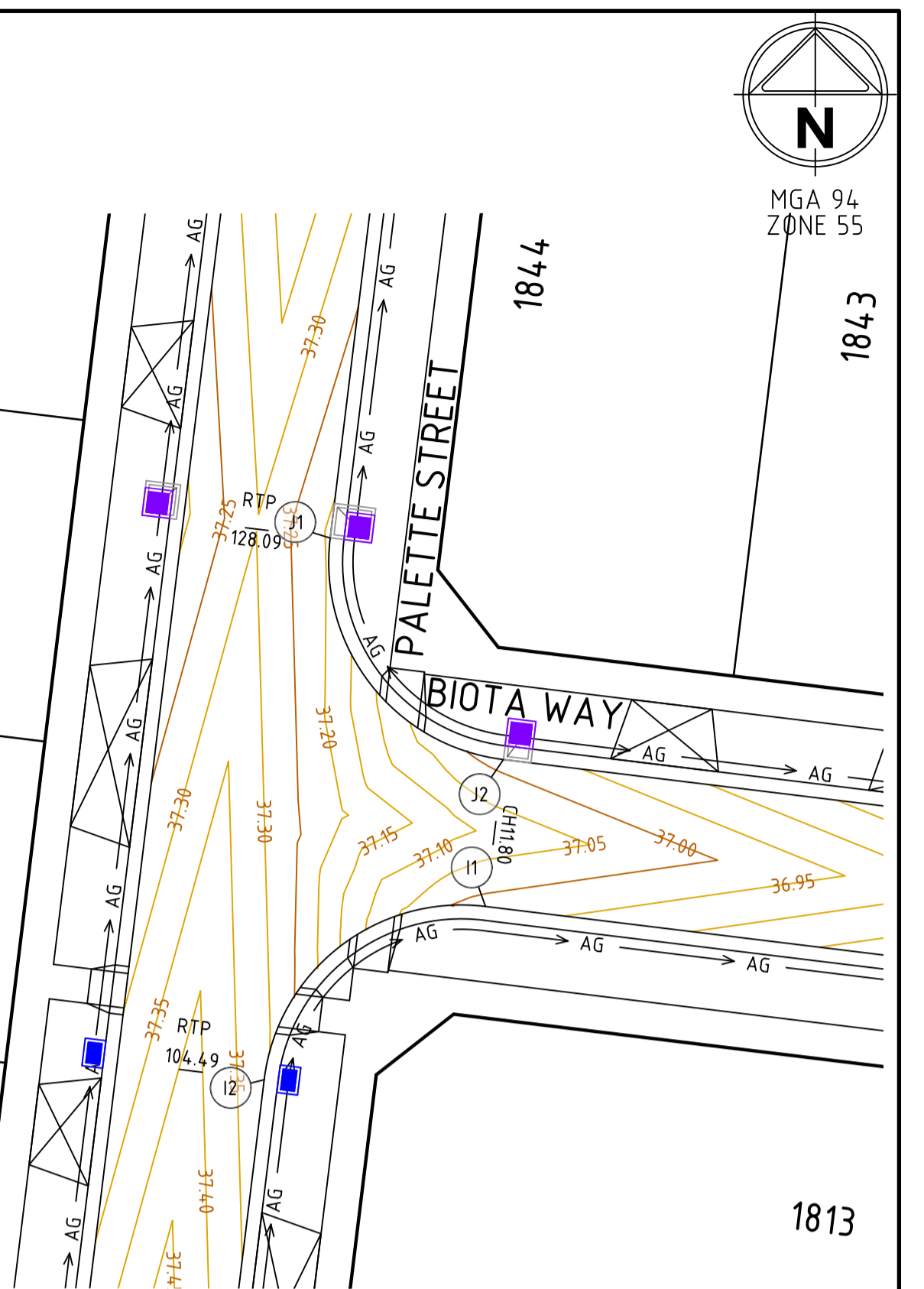
DESIGN LEVEL	CHAINAGE
36.981	0.000
37.039	3.377
37.153	6.754
37.263	10.132
37.311	13.509

KERB I

ALIGNMENT I

POINT NO	EASTING	NORTHING	RL
I1	289056.844	5803686.502	36.981
1/4	289053.498	5803686.251	37.039
1/2	289050.503	5803684.738	37.153
3/4	289048.315	5803682.194	37.263
I2	289047.266	5803679.007	37.311

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
I1-I2	8.600	13.509	12.162	2.519	-0.655

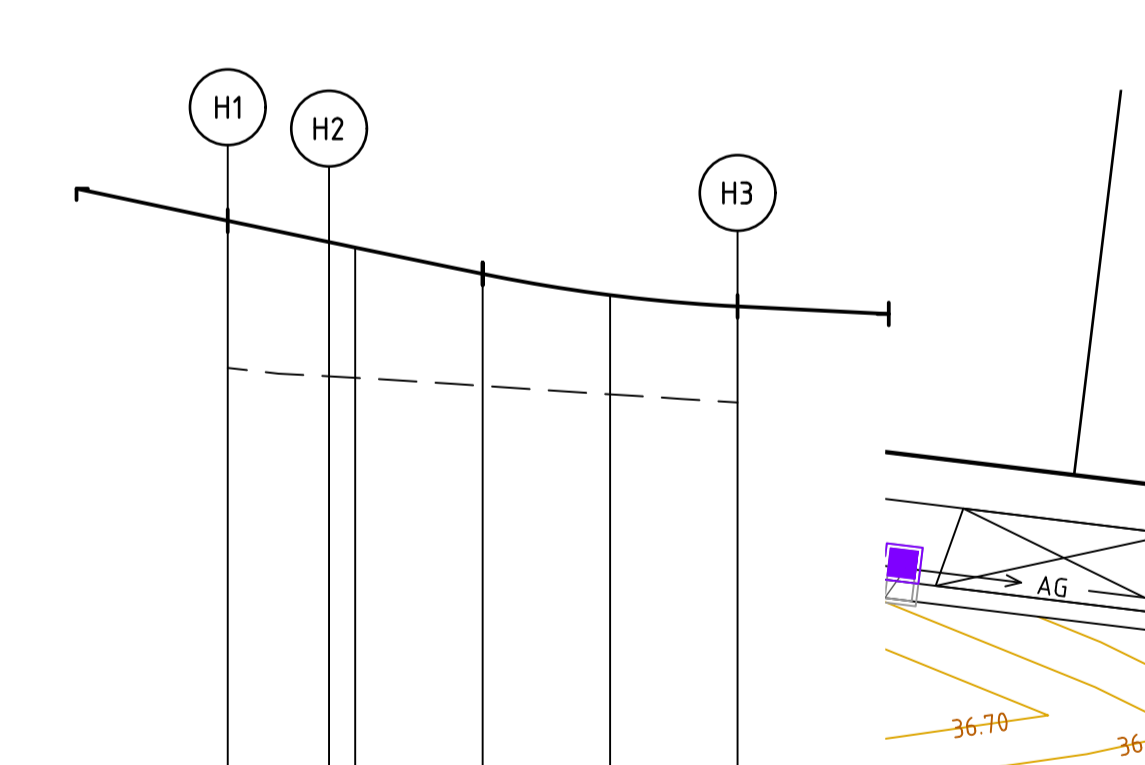
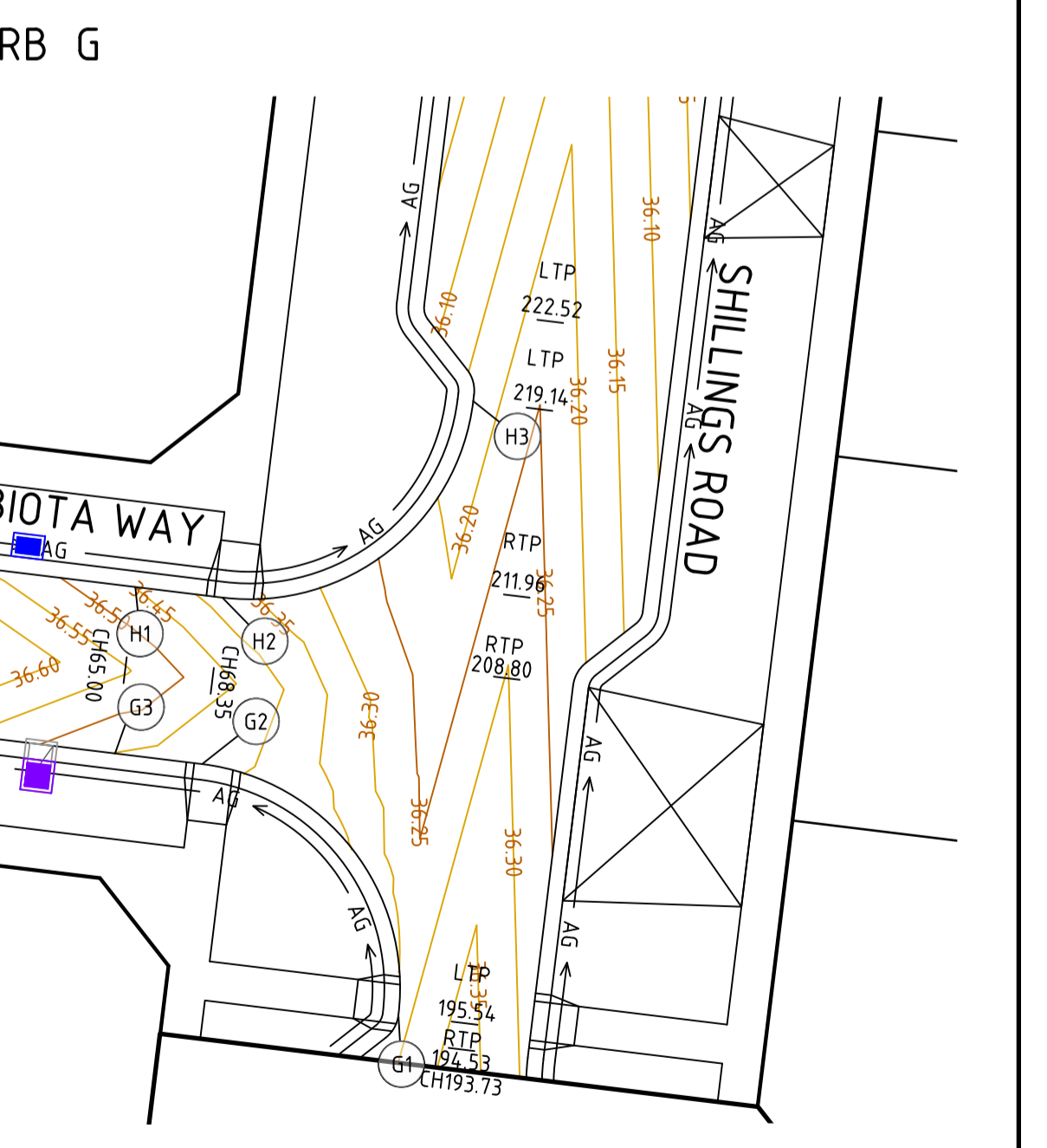


VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 35.0

DESIGN LEVEL	CHAINAGE
36.284	0.000
36.416	13.509
36.449	16.859



VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 34.0

DESIGN LEVEL	CHAINAGE
36.449	0.000
36.378	3.350
36.360	4.215
36.273	8.429
36.203	12.644
36.166	16.859

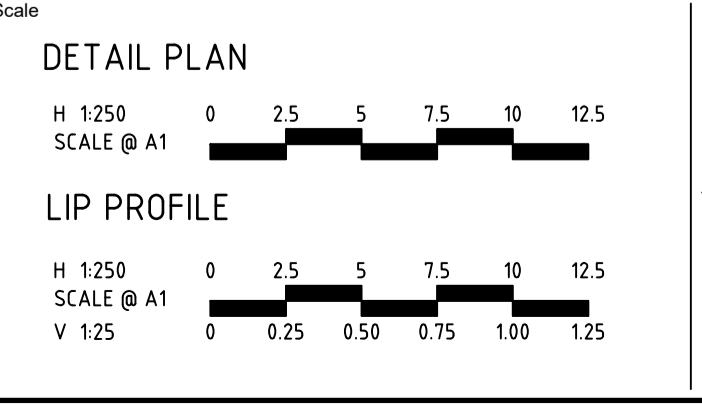
KERB H

ALIGNMENT H

POINT NO	EASTING	NORTHING	RL
H1	289110.428	5803684.413	36.449
H2	289113.753	5803686.008	36.378
1/4	289117.099	5803686.259	36.308
1/2	289120.095	5803687.772	36.242
3/4	289122.283	5803690.316	36.193
H3	289123.331	5803693.503	36.166

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
H2-H3	8.600	13.509	12.162	2.519	-0.655

Rev	Description	Approved	Date
2	AS CONSTRUCTED	M.R	23/06/23
1	KERB RETURNS UPDATED	M.R	02/11/22
0	ISSUED FOR CONSTRUCTION	M.R	28/09/22
A	PRELIMINARY ISSUE	M.R	04/07/22



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

Designed
K. FEARN-WANNAN

Checked
G. KOHLMAN

Authorised
M. RANJANAN

Date
11/11/22

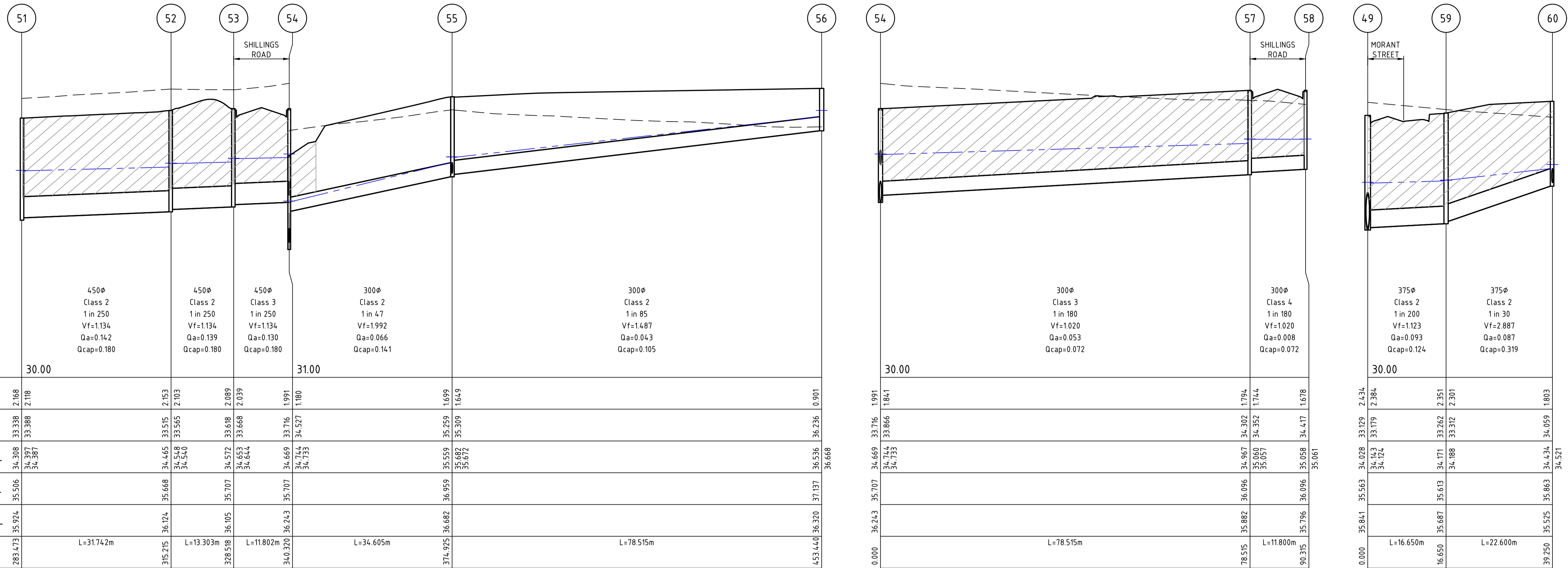
MAMBOURIN
STAGE 18
ROAD AND DRAINAGE
INTERSECTION DETAILS
WYNDHAM CITY COUNCIL
FRASERS PROPERTY LTD

AS CONSTRUCTED

Drg No
309505CR500

Rev
2

file name: 309505CR500.dwg, layout: name: CR500, plotted by: Kevin Nguyen
 file location: \\spire\media\data\30950505.dwg, plot date: 23/06/2023 2:56 PM, sheet: 10 of 15 sheets



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

DATUM

DEPTH TO INVERT

DESIGN INVERT LEVEL

HYDRAULIC GRADE LEVEL

FINISHED SURFACE LEVEL

EXISTING SURFACE LEVEL

CHAINAGE

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

DATUM

DEPTH TO INVERT

DESIGN INVERT LEVEL

HYDRAULIC GRADE LEVEL

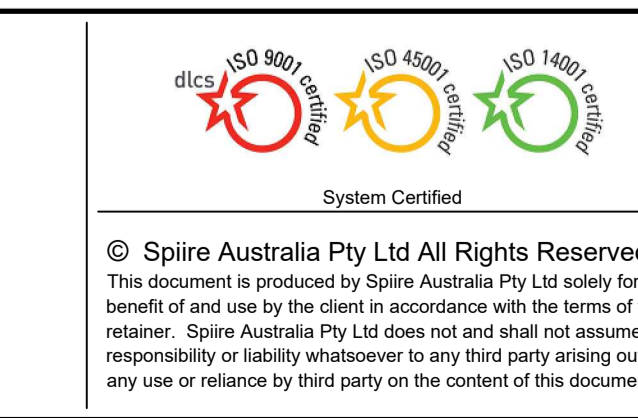
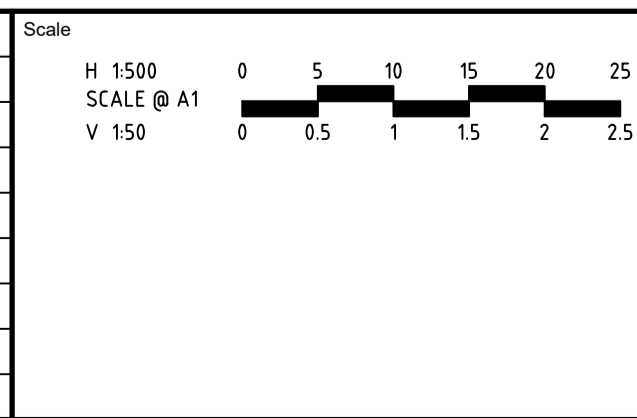
FINISHED SURFACE LEVEL

EXISTING SURFACE LEVEL

CHAINAGE

file name: 309505CR601.dwg; layout name: CR601; plotted by: Kevin Newman; file location: \\spire\media\data\309505\309505.dwg; plot date: 23/06/2023 2:56 PM; Sheet: 12 of 15 Sheets

Rev	Description	Approved	Date
2	AS CONSTRUCTED	M.R	23/06/23
1	DRAINAGE STUB REMOVED AND DRAINAGE LEVELS UPDATED	M.L.R	02/11/22
0	ISSUED FOR CONSTRUCTION	M.L.R	28/09/22
B	DRAINAGE LAYOUT AND SECTIONS AMENDED	M.R	04/08/22
A	PRELIMINARY ISSUE	M.R	04/07/22
Rev	Amendments	Approved	Date



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VICTORIA 3007 AUSTRALIA T 61 3 9993 7888
spiire.com.au ABN 55 050 029 635

FRASERS PROPERTY
Designed: K. FEARN-WANNAN
Authorised: M. RANJANAN
Checked: G. KOHLMAN
Date: 11/11/22

MAMBOURIN STAGE 18
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 2 OF 2
WYNDHAM CITY COUNCIL
FRASERS PROPERTY LTD
AS CONSTRUCTED 309505CR601

DRAINAGE PIT SCHEDULE

PIT NAME	PIT TYPE	INTERNAL		INLET		OUTLET		PIT		REMARKS
		WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
26	DOUBLE SIDE ENTRY PIT	750	900	375	35.222	450	35.147	37.221	2.074	DOUBLE GRATED SIDE ENTRY PIT
				300	35.297					
27	JUNCTION PIT	1050	900	375	35.475	375	35.425	37.307	1.882	
28	GRATED SIDE ENTRY PIT	1050	900	375	35.707	375	35.657	37.696	2.039	
29	GRATED SIDE ENTRY PIT	600	900	375	35.821	375	35.751	37.689	1.938	
31	DOUBLE SIDE ENTRY PIT	600	900			300	35.344	37.232	1.887	DOUBLE GRATED SIDE ENTRY PIT
32	GRATED SIDE ENTRY PIT	600	900	450	35.387	450	35.337	37.435	2.098	
33	GRATED SIDE ENTRY PIT	600	900	375	35.641	450	35.421	37.435	2.014	
34	GRATED SIDE ENTRY PIT	600	900	300	35.057	300	35.007	36.870	1.863	
35	JUNCTION PIT	600	900			300	37.326	38.237	0.910	
35A	GRATED SIDE ENTRY PIT	600	900			300	34.789	36.649	1.860	PROVIDE CLASS D PIT LID
37	JUNCTION PIT	1650	900	1200	31.283	1200	31.233	34.162	2.929	A GRATED SIDE ENTRY PIT TO BE CONNECTED TO JUNCTION PIT IN FUTURE ROAD CONSTRUCTION
				300	32.133					
38	JUNCTION PIT	2400	2400	900	31.350	1200	31.300	34.109	2.808	REFER TO MELBOURNE WATER DRAWING 7251/08/408 & 7251/08/409 FOR JUNCTION PIT.
				900	31.600					
39	JUNCTION PIT	1800	900	900	31.420	900	31.390	34.274	2.885	A GRATED SIDE ENTRY PIT TO BE CONNECTED TO JUNCTION PIT IN FUTURE ROAD CONSTRUCTION
				300	32.527					
40	JUNCTION PIT	1350	900	900	31.504	900	31.474	34.649	3.175	
41	JUNCTION PIT	1800	900	900	31.576	900	31.548	34.717	3.168	
42	JUNCTION PIT	1650	900	900	31.641	900	31.611	35.029	3.418	A GRATED SIDE ENTRY PIT TO BE CONNECTED TO JUNCTION PIT IN FUTURE ROAD CONSTRUCTION
				300	32.993					
43	JUNCTION PIT	1650	900	900	31.700	900	31.670	35.071	3.401	
43A	JUNCTION PIT	1500	900	900	31.770	900	31.720	35.112	3.392	
				225	32.395					
44	JUNCTION PIT	1500	1650	825	31.875	900	31.825	35.222	3.397	REFER TO MELBOURNE WATER DRAWING 7251/08/408 & 7251/08/409 FOR JUNCTION PIT.
				300	32.334					
				450	32.275					
45	JUNCTION PIT	1650	900	750	31.979	825	31.904	35.336	3.432	A GRATED SIDE ENTRY PIT TO BE CONNECTED TO JUNCTION PIT IN FUTURE ROAD CONSTRUCTION
				300	33.604					
46	JUNCTION PIT	1500	900	750	32.531	750	32.481	35.398	2.917	
47	JUNCTION PIT	1200	900	750	32.916	750	32.866	35.438	2.572	
				225	34.193					
48	JUNCTION PIT	1200	900	750	33.036	750	32.986	35.398	2.412	A GRATED SIDE ENTRY PIT TO BE CONNECTED TO JUNCTION PIT IN FUTURE ROAD CONSTRUCTION
				300	33.436					
49	JUNCTION PIT	1200	900	750	33.179	750	33.129	35.563	2.434	
				375	33.179					
50	JUNCTION PIT	1200	900	450	33.304	750	33.254	35.510	2.256	A GRATED SIDE ENTRY PIT TO BE CONNECTED TO JUNCTION PIT IN FUTURE ROAD CONSTRUCTION
				450	33.304					
51	JUNCTION PIT	600	900	450	33.388	450	33.338	35.506	2.168	A GRATED SIDE ENTRY PIT TO BE CONNECTED TO JUNCTION PIT IN FUTURE ROAD CONSTRUCTION
52	JUNCTION PIT	600	900	450	33.565	450	33.515	35.668	2.153	
53	GRATED SIDE ENTRY PIT	600	900	450	33.668	450	33.618	35.707	2.089	
54	GRATED SIDE ENTRY PIT	600	900	300	34.527	450	33.716	35.707	1.991	
				300	33.866					
55	JUNCTION PIT	600	900	300	35.309	300	35.259	36.959	1.699	
				225	35.334					
56	JUNCTION PIT	600	900			300	36.236	37.137	0.901	
57	GRATED SIDE ENTRY PIT	600	900	300	34.352	300	34.302	36.096	1.794	CLASS D PIT LID
58	GRATED SIDE ENTRY PIT	600	900	300		300	34.417	36.096	1.678	
59	JUNCTION PIT	600	900	375	33.312	375	33.262	35.613	2.351	A GRATED SIDE ENTRY PIT TO BE CONNECTED TO JUNCTION PIT IN FUTURE ROAD CONSTRUCTION
60	JUNCTION PIT	600	900	300	34.134	375	34.059	35.863	1.803	
				300	34.134					
61	JUNCTION PIT	600	900	300	34.783	300	34.733	36.228	1.495	
				225	35.406					
62	JUNCTION PIT	600	900	225	35.340	300	35.265	36.407	1.142	
63	JUNCTION PIT	600	900	225	35.436	225	35.386	36.475	1.089	
64	JUNCTION PIT	600	900			225	35.530	36.351	0.821	
65	JUNCTION PIT	600	900			225	35.439	36.269	0.830	
66	JUNCTION PIT	600	900			225	35.555	37.190	1.635	

NOTES:

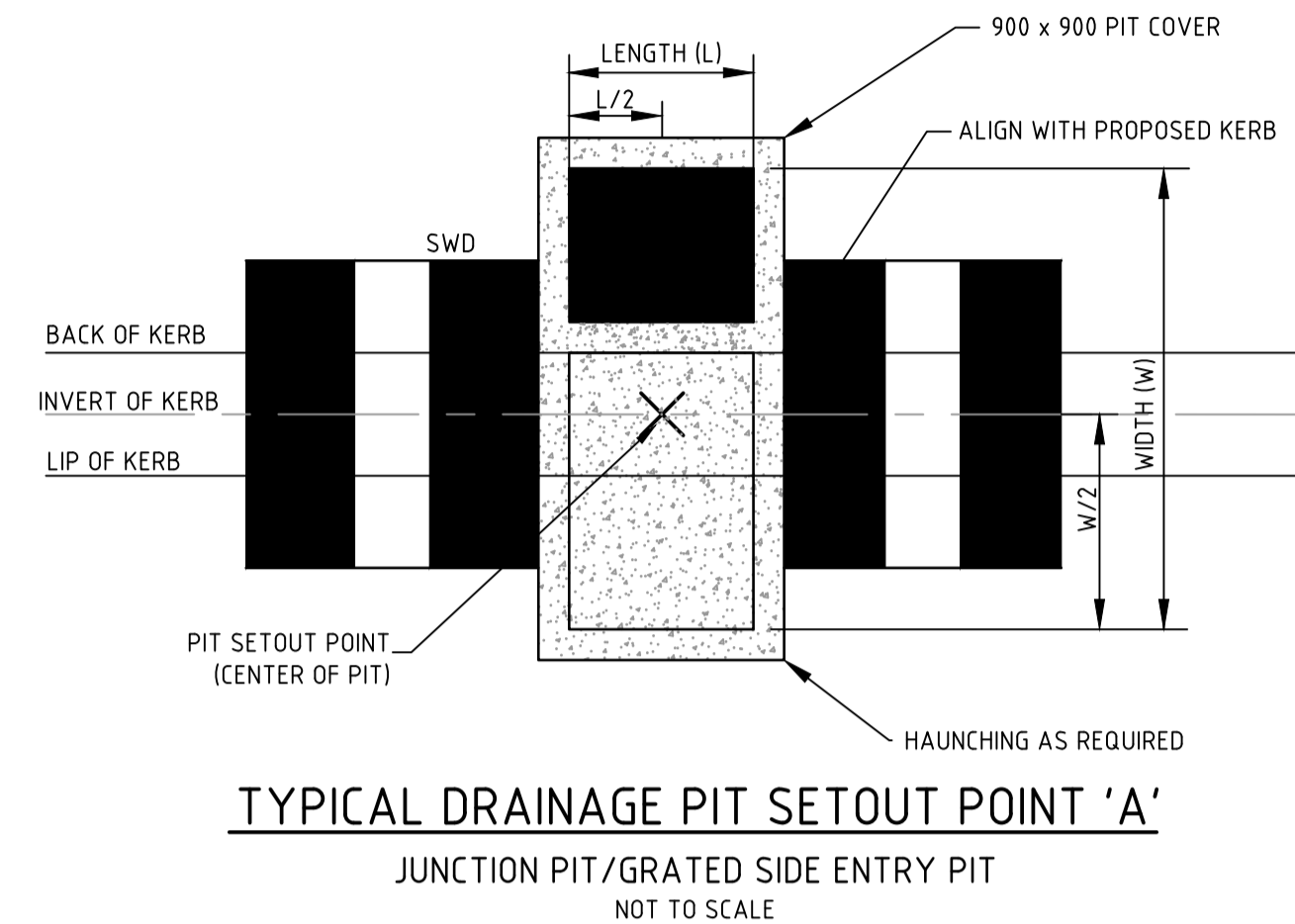
- ALL GRATED SIDE ENTRY PITS ARE TO BE IN ACCORDANCE WITH EDM601 AND EDM605 OR EDM606 (UNLESS NOTED OTHERWISE)
- ALL JUNCTION PITS ARE TO BE IN ACCORDANCE WITH EDM605 OR EDM606 (UNLESS NOTED OTHERWISE)
- ALL PITS WITH A WIDTH GREATER THAN 600mm ARE TO BE HAUNCHED PITS IN ACCORDANCE WITH EDM607 OR EDM608 (UNLESS NOTED OTHERWISE)
- ALL GRATED ENTRY ARE TO BE IN ACCORDANCE WITH EDM605 OR EDM606 WITH "BIKE-SAFE" HOT DIP GALVANIZED CLASS D GRATING & FRAME TO SUIT (UNLESS NOTED OTHERWISE)
- ENDWALL TO BE STANDARD ROCLA HEADWALL (OR APPROVED EQUIVALENT)

PIPE SPLAY SCHEDULE

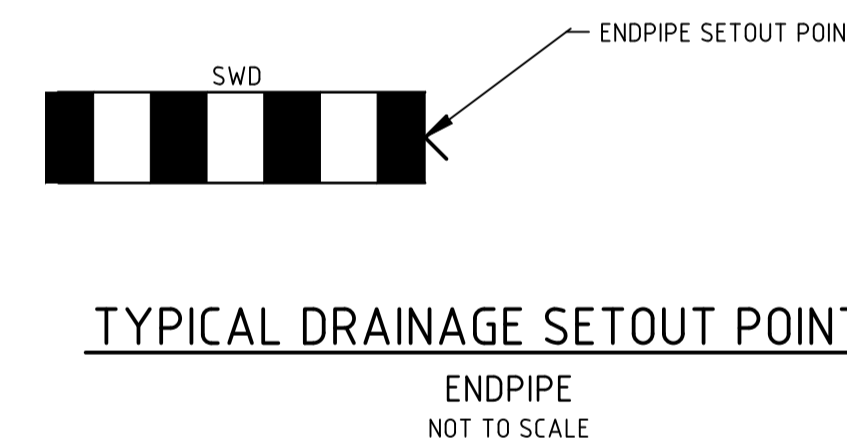
DOWNSTREAM NO.	UPSTREAM NO.	DIAMETER	RADIUS	ANGLE	TOTAL ARC LENGTH	PIPE UNIT EFFECTIVE LENGTH	MIN NO. OF PIPES	JOINTING METHOD
TP36	MW10TP	1200	12.00	97	20.94	2.326	9	FLUSH JOINT

PIT SETOUT COORDINATES

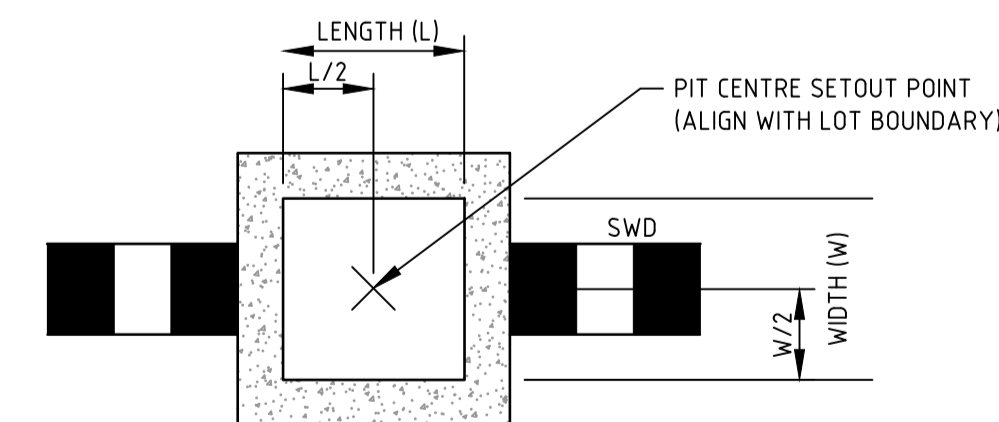
NAME	POINT	EASTING	NORTHING
TP36	B	289335.585	5803678.743
37	A	289338.914	5803689.079
38	A	289341.369	5803697.252
39	A	289334.909	5803708.672
40	A	289319.878	5803720.055
41	A	289302.648	5803724.310
42	A	289296.754	5803736.446
43	A	289291.606	5803746.486
43A	A	289293.508	5803754.396
44	A	289298.873	5803775.734
45	A	289292.491	5803786.649
46	A	289287.156	5803795.515
47	A	289279.989	5803797.238
48	A	289252.455	5803802.823
49	A	289215.591	5803807.320
50	A	289185.631	5803810.974
51	C	289184.568	5803802.886
52	C	289153.054	5803806.687
59	C	289213.611	5803791.090
60	C	289210.875	5803768.656



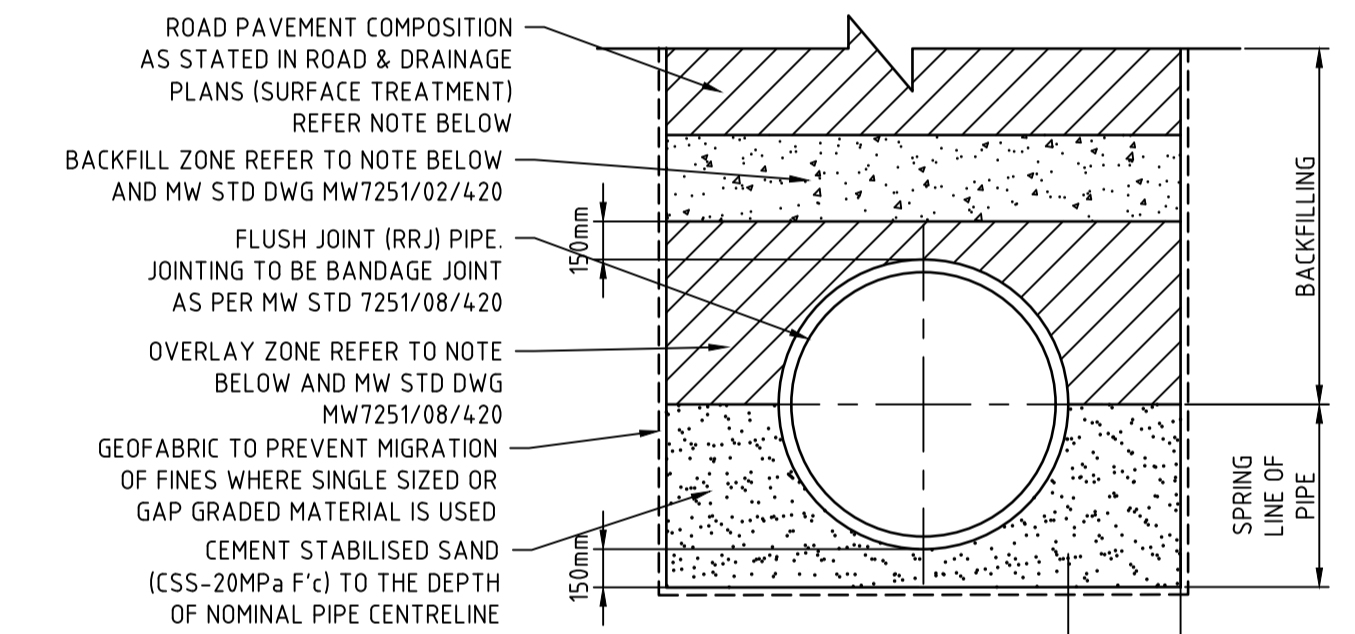
TYPICAL DRAINAGE PIT SETOUT POINT 'A'
JUNCTION PIT/GRATED SIDE ENTRY PIT
NOT TO SCALE



TYPICAL DRAINAGE SETOUT POINT 'B'
ENDPIPE
NOT TO SCALE



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



CURVED DRAIN BACKFILL DETAIL

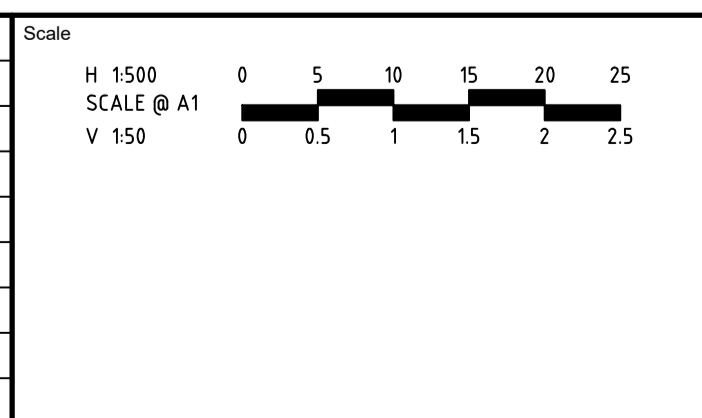
- BACKFILL MATERIAL - FOR OVERLAY ZONE AND BACKFILL ZONE**
 - WORKS WITHIN A ROADWAY - OVERLAY ZONE TO CONSIST OF VICROADS 20mm CLASS 2 OR CLASS 3 CRUSHED ROCK AS DEFINED IN VICROADS STANDARD DOCUMENT 812 AND COMPACTED TO 98% SMD @OMC
 - WORKS OUTSIDE OF A ROADWAY**
 - FILL CONSISTING OF MATERIAL FROM THE EXCAVATION AND SHALL NOT CONTAIN ANY STONES LARGER THAN 150mm, NOR MORE THAN 20% WITH A SIZE BETWEEN 75mm AND 150mm. MATERIAL SHOULD BE COMPACTED AS NECESSARY TO PREVENT EXCESSIVE SETTLEMENT.
 - SINGLE SIZED OR GAP GRADED AGGREGATE (INCLUDING SCORIA) WHERE THE PIPE TRENCH IS ENCASED WITH SUITABLE GEOFABRIC TO PREVENT THE MIGRATION OF FINES INTO THE EMBEDMENT MATERIAL. COMPACTION IS NECESSARY TO PREVENT EXCESSIVE SETTLEMENT
- THE FILL IN THE OVERLAY ZONE SHOULD BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm
- SURFACE TREATMENT - SUBJECT TO THE LOCATIONS AS FOLLOWS:**
 - WORKS WITHIN A ROADWAY - PAVEMENT SHALL BE AS PER THE LOCAL COUNCIL OR VICROADS STANDARDS
 - WORKS OUTSIDE OF A ROADWAY - SURFACE SHALL BE OF A STANDARD CONSISTENT WITH THE SURROUNDING AREA TO INCLUDE TOP SOILING AND GRASS SEEDING WHERE APPROPRIATE.
 - HOLD POINTS FOR MELBOURNE WATER BANDAGE JOINT CONSTRUCTION**
 - CIVIL CONTRACTOR TO PREPARE EACH BANDAGE JOINT AND SEEK INSPECTION BY COUNCIL CONSTRUCTION SUPERVISOR TO ENSURE BANDAGE JOINT SET OUT COMPLIANCE PRIOR TO CONCRETE POUR
 - FOLLOWING COMPLETION OF BANDAGE JOINTS AND A MINIMUM 7 DAY CURE PERIOD, THE ENTIRE PIPE SPLAY SECTION MUST BE BACKFILLED AND COMPACTED TO SPRING LINE OF ENTIRE LENGTH OF SPLAY PIPES, WITH CEMENT TREATED SAND AS PER THE PIPE BACKFILL DETAIL PROVIDED.

NOTES:

- PIPE TO BE CUT TO REDUCE THE OPENING AS MUCH AS REASONABLY POSSIBLE.
- CCTV OF THE PIPES TO BE PROVIDED ON COMPLETION OF DRAINAGE WORKS.

file name: 309505CR602.dwg, layout: name: CR602, plotted by: Kevin Nguyen, file location: G:\309505\309505.dwg, LCAO Plot date: 22/06/2023 2:56 PM, sheet: 13 of 15 Sheets

Rev	Amendments	Approved	Date
3	AS CONSTRUCTED	M.R	23/06/23
2	DRAINAGE PIT ADDED	M.L.R	15/12/22
1	DRAINAGE STUB REMOVED AND DRAINAGE LEVELS UPDATED	M.L.R	02/11/22
0	ISSUED FOR CONSTRUCTION	M.L.R	28/09/22
C	CURVED DRAIN BACKFILL DETAIL UPDATED	M.L.R	15/09/22
B	DRAINAGE LAYOUT AND SECTIONS AMENDED	M.R	04/08/22
A	PRELIMINARY ISSUE	M.R	04/07/22



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Designed
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Authorised
M. RANJANAN

Checked
G. KOHLMAN

Date
 11/11/22

MAMBOURIN
STAGE 18
ROAD AND DRAINAGE
DRAINAGE PIT SCHEDULE & DETAILS
 WYNDHAM CITY COUNCIL
 FRASERS PROPERTY LTD

AS CONSTRUCTED

Drg No
309505CR602

Rev
3

DESIGN PAVEMENT PROFILE

PAVEMENT LAYER	DESCRIPTION	TYPE	
		B	D
UPPER PAVEMENT LAYER			
ASPHALT WEARING COURSE	VICROADS SIZE 14 TYPE H, CLASS 320 BINDER	40	
	VICROADS SIZE 10 TYPE N, CLASS 170 BINDER		40
ASPHALT INTERMEDIATE COURSE	VICROADS SIZE 20 TYPE S1, CLASS 320 BINDER	75	
ASPHALT BASE COURSE	VICROADS SIZE 20 TYPE SF, CLASS 320 BINDER	75	
	VICROADS SIZE 10 TYPE N, CLASS 170 BINDER		40
	SAMI (SIZE 10 CLASS S18RF)	Y	Y
	BITUMINOUS PRIME	Y	Y
GRANULAR BASE	VICROADS 20mm CLASS 2 CRUSHED ROCK OR EQUIVALENT		110
LOWER PAVEMENT LAYER			
SUBBASE COURSE	3% CEMENT TREATED CRUSHED ROCK	100	
GRANULAR SUBBASE	VICROADS 20mm CLASS 2 CRUSHED ROCK OR EQUIVALENT	200	
	VICROADS 100mm CLASS 3 CRUSHED ROCK OR EQUIVALENT		140
	E		130
CAPPING LAYER			
CAPPING LAYER	TYPE A MATERIAL, CBR ≥ 8%, SWELL ≤ 15%, PERMEABILITY ≤ 5 x 10 ⁻⁹ m/s	150	150
PAVEMENT DEPTH		640	610
CONSTRUCTION LAYER		150	150
TOTAL DEPTH		790	760

SUBGRADE = CLAY WITH DESIGN CBR OF 2%. TO BE IMPROVED TO A DEPTH NOT LESS THAN 150 MM USING SUBGRADE IMPROVEMENT LAYER OR IN-SITU STABILISED WITH A CBR VALUE +10%

PAVEMENT DETAILS

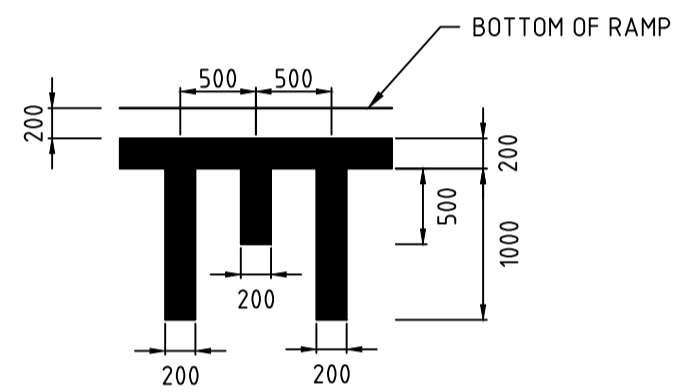
THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY COFFEY WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIRE IS NOT RESPONSIBLE FOR THE WORK OF COFFEY.

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-MELGE219191AE-AB REV 4). THIS DOCUMENTS SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

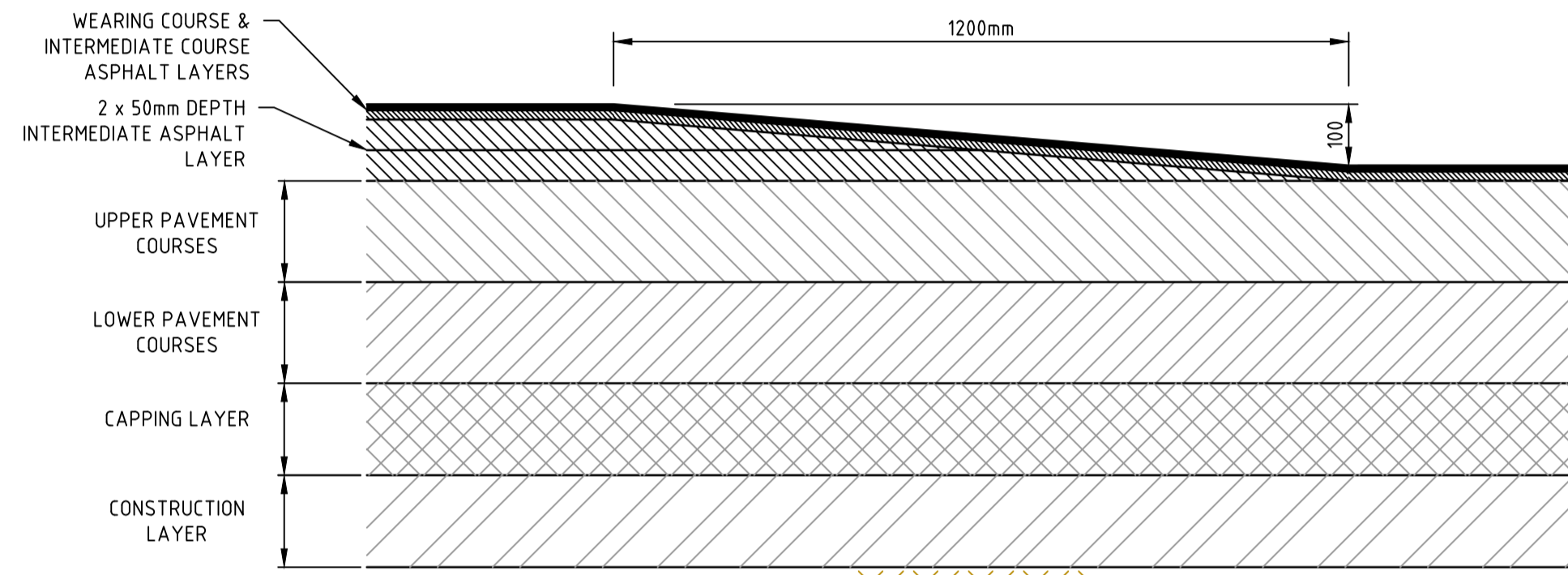
A COPY OF THE DOCUMENT WILL BE PROVIDED ON REQUEST.

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

ROAD NAME	TYPE
SHILLINGS ROAD	CONNECTOR STREET
NIVEA STREET	ACCESS STREET LEVEL 1
SHRUBS ROAD	ACCESS STREET LEVEL 1
PALETTE STREET	ACCESS STREET LEVEL 1
BIOTA WAY	ACCESS STREET LEVEL 1

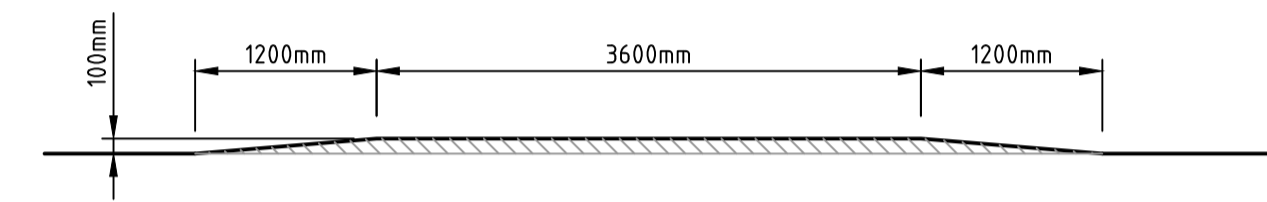


RAMP LINE MARKING

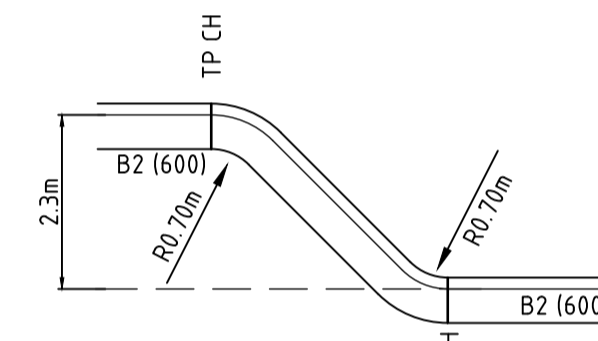


RAISED PAVEMENT APPROACH RAMP

NOT TO SCALE

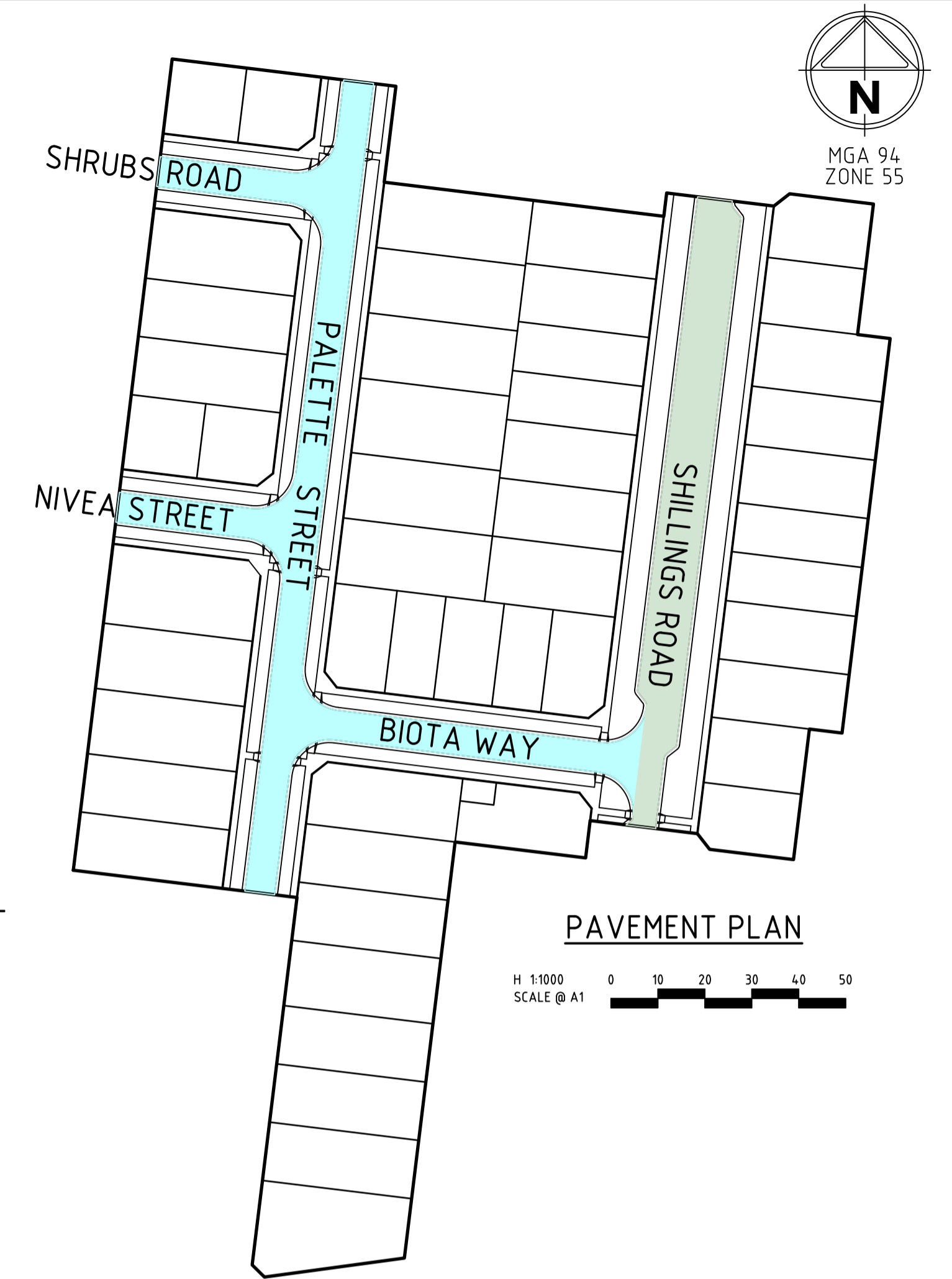


RAISED PAVEMENT PROFILE



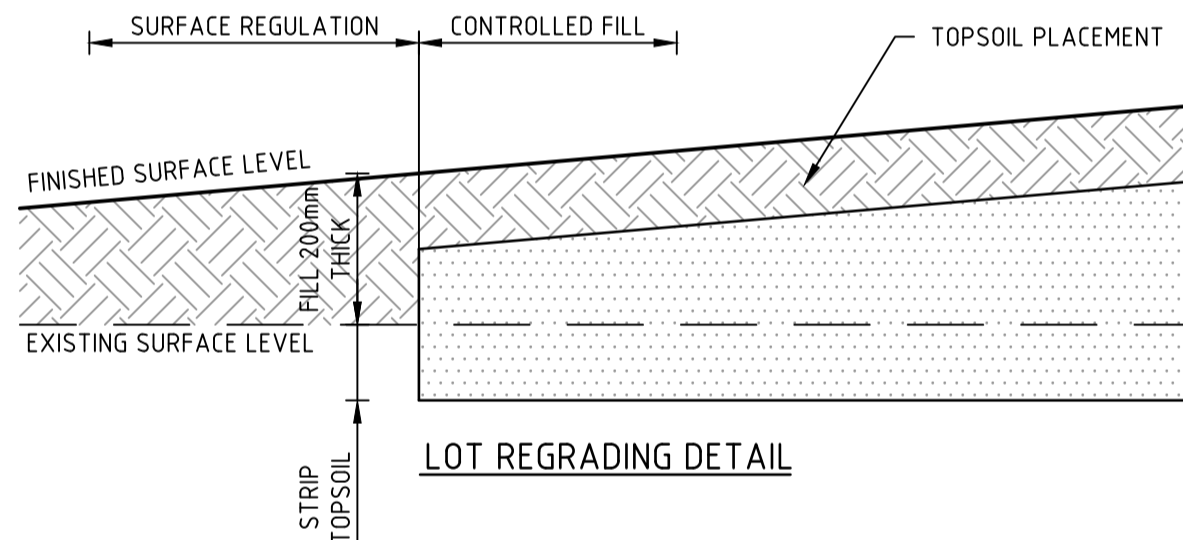
TYPICAL PARKING BAY SETOUT

NOT TO SCALE

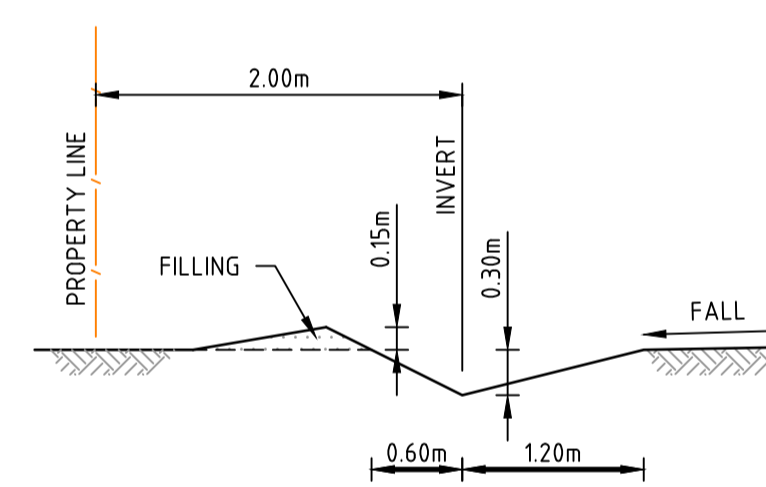


PAVEMENT PLAN

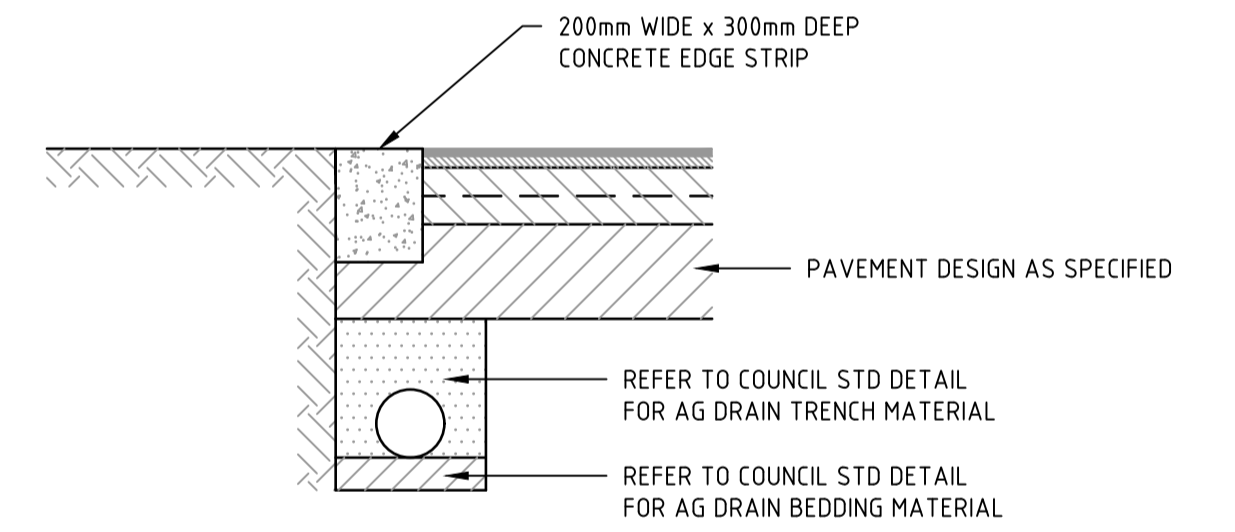
H 1:1000 SCALE @ A1



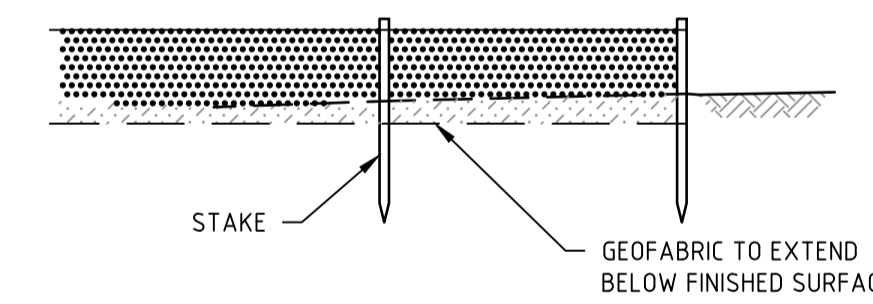
LOT REGRADING DETAIL



TYPICAL CATCH DRAIN SECTION

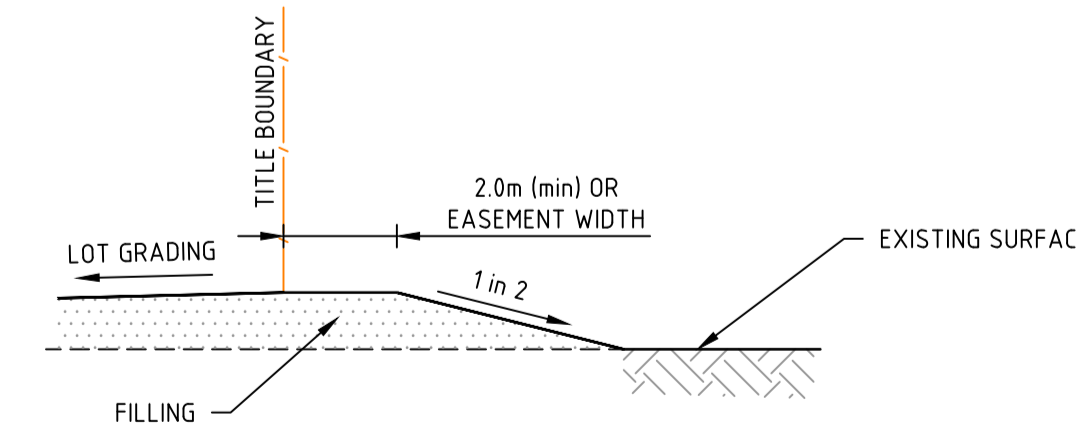


LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE DETAIL

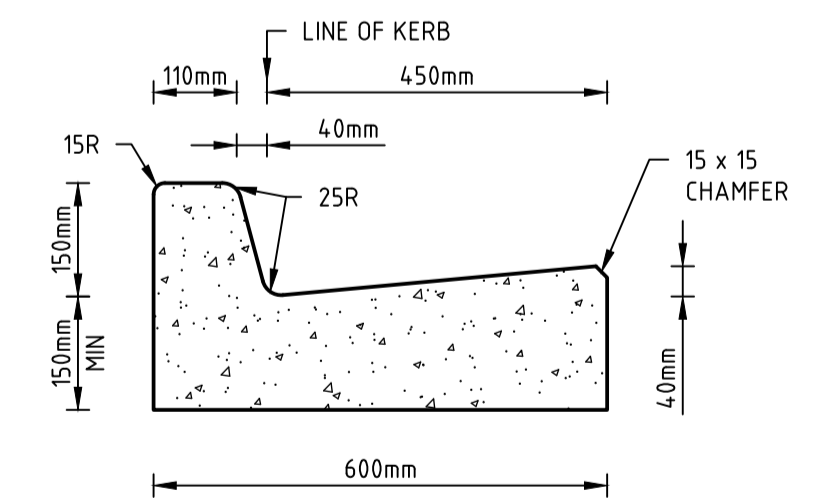


SILT CONTROL FOR LOTS

GEOTEXTILE SILT FENCE



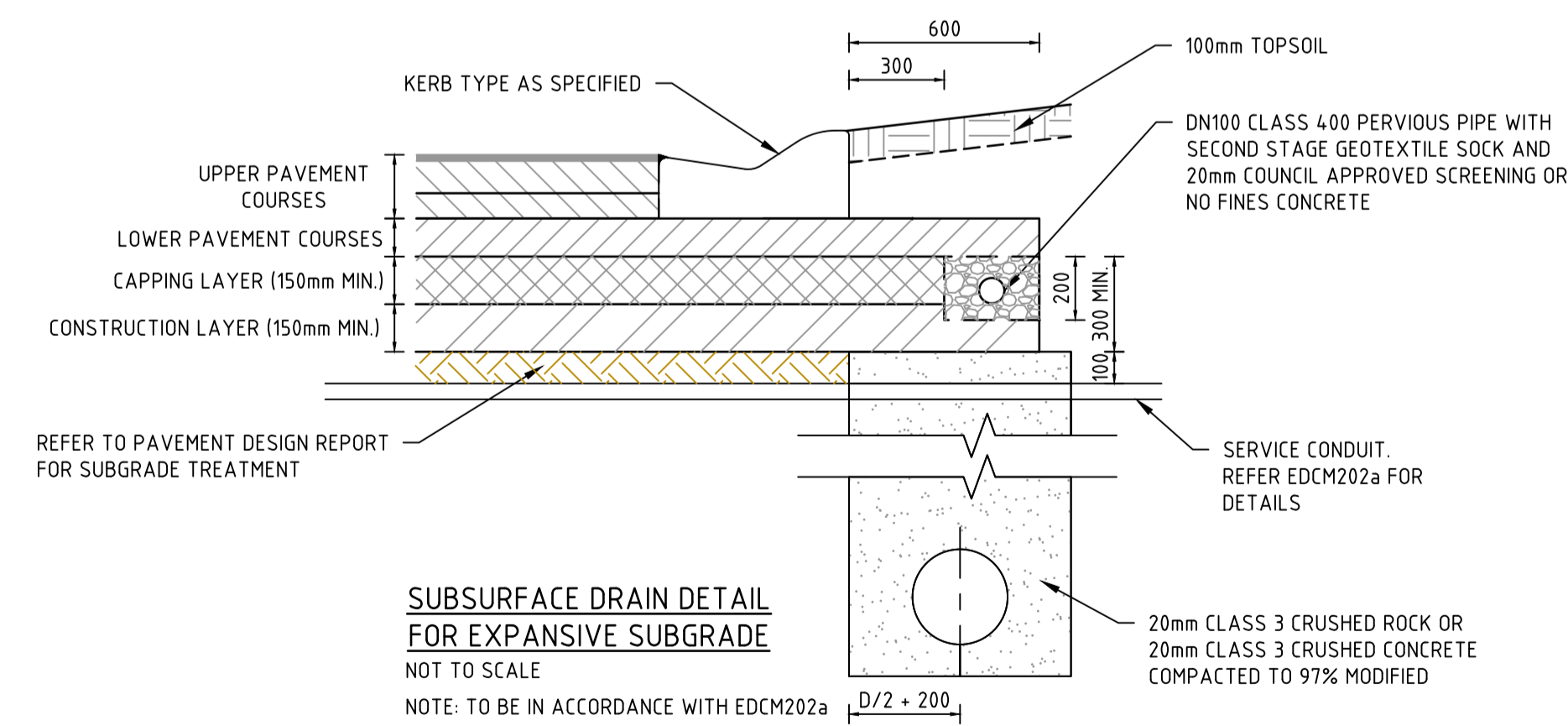
LOT FILLING AT STAGE BOUNDARY



STANDARD KERB PROFILES

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

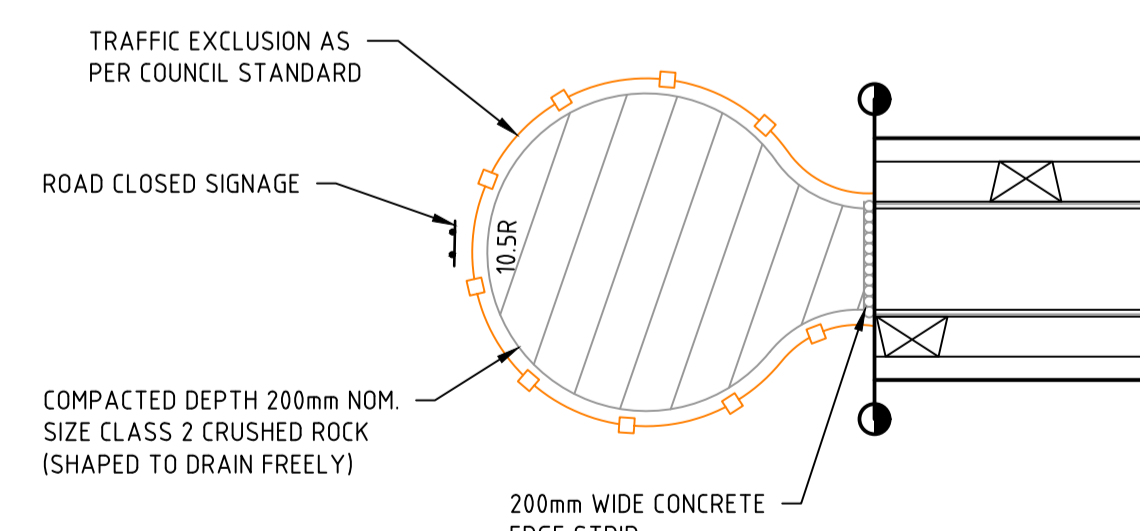
H 1:100 SCALE @ A1



SUBSURFACE DRAIN DETAIL FOR EXPANSIVE SUBGRADE

NOT TO SCALE

NOTE: TO BE IN ACCORDANCE WITH EDMC202a



TEMPORARY TURNING AREA DETAIL

file name: 309505CR700.dwg; location: c:\pwworking\spire\cadd\309505\309505.dwg; plot date: 23/06/2023 2:57 PM; sheet: 14 of 15; sheets

Rev	Description	By	Date
1	AS CONSTRUCTED	M.R	23/06/23
0	ISSUED FOR CONSTRUCTION	M.R	28/09/22
B	PAVEMENT PROFILE UPDATED	M.R	04/08/22
A	PRELIMINARY ISSUE	M.R	04/07/22
Rev	Amendments	Approved	Date

System Certified

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Mambourin

 Designed: K. FEARN-WANNAN

 Authorised: M. RANJANAN

 Checked: G. KOHLMAN

 Date: 11/11/22

MAMBOURIN

STAGE 18

 ROAD AND DRAINAGE

 PAVEMENT AND TYPICAL DETAILS

 WYNDHAM CITY COUNCIL

 FRASERS PROPERTY LTD

AS CONSTRUCTED

 Drg No: 309505CR700

 Rev: 1



SIGNAGE SCHEDULE

REFERENCE NO.	SIGN	COMMENTS
S1		STREET NAME PLATES TO BE IN ACCORDANCE WITH MELTON CITY COUNCIL STANDARD
S2		G9-20
S3		D4-5
S4		W5-10
S5		W8-2
S6		W3-4
S7		R1-2

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.

LINEMARKING LEGEND

SYMBOL	DESCRIPTION	REMARK
	HOLDING LINE (GIVEWAY)	600mm LINE, 600mm GAP, 300mm WIDE
	CONTINUOUS LANE LINE	150mm WIDE
	TACTILE GROUND SURFACE INDICATORS	REFER AS1428.4.1 - 2009
	RRPM	REFER AS1742.2 - 2009

file name: 309505CR800.dwg; layout name: CR800; plotted by: Kevin Nguyen; file location: \\spiremedia\data\30950505.dwg; plot date: 23/06/2023 2:57 PM Sheet: 15 of 15 Sheets

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.R.	23/06/23
1	RRPMS REMOVED	M.R.	02/11/22
0	ISSUED FOR CONSTRUCTION	M.R.	28/09/22
C	GIVE WAY SIGNAGE & LINEMARKING ADDED	M.R.	26/08/22
B	SIGNAGE UPDATED	M.R.	04/08/22
A	PRELIMINARY ISSUE	M.R.	04/07/22



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Designed
 K. FEARN-WANNAN

 Authorised
 M. RANJANAN

Checked
 G. KOHLMAN

 Date
 11/11/22

MAMBOURIN
STAGE 18
ROAD AND DRAINAGE
SIGNAGE AND LINEMARKING
 WYNDHAM CITY COUNCIL
 FRASERS PROPERTY LTD

AS CONSTRUCTED

Drg No: 309505CR800 Rev: 2