MAMBOURIN ESTATE STAGE 2
FRASERS PROPERTY
AUSTRALIA

GENERAL NOTES:

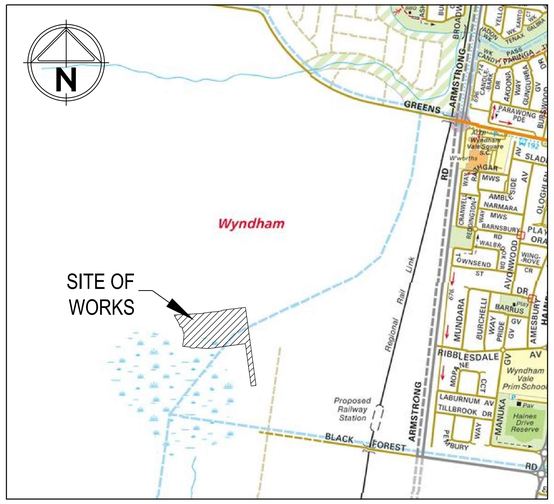
1. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) ZONE 55.
2. ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.
3. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED METROPOLITAN PLANNING AUTHORITY OR MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS WHERE NOTED AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE MUNICIPAL ENGINEER OR HIS REPRESENTATIVE.
4. ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB.
5. 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.
6. 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.
7. ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF SITE UNLESS NOTED OTHERWISE.
8. 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.
9. FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, AS 3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
10. ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
11. 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.
12. 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.
13. AT LEAST 3 DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 1.50m 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.
14. 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.
15. 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.
16. NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCILS PERMISSION.
17. 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
17. ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.
18. AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE METROPOLITAN PLANNING AUTHORITY STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.
19. CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
20. WHERE CURVED PIPE ALIGNMENTS 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.
21. WATER TAPPINGS TO BE LOCATED IN CENTRE OF ALLOTMENTS UNLESS OTHERWISE SHOWN.
22. TELSTRA IS TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.
23. 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.
24. 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.
25. 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.
26. ALL VEHICLE CROSSINGS ARE IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS.
27. 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 METROPOLITAN PLANNING AUTHORITY.
28. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.
29. TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.
30. CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. SEMP TO BE APPROVED BY COUNCIL PRIOR TO THE COMMENCEMENT OF WORKS.
31. 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.
32. TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS.
33. THE CONTRACTOR IS REQUIRED TO OBTAIN A 'PERMIT TO WORK' FROM MELBOURNE WATER'S SURVEILLANCE OFFICER AT THE PRE-COMMENCEMENT MEETING. THE CONTRACTOR IS REQUIRED TO ENSURE THAT THE 'PERMIT TO WORK' IS KEPT UP TO DATE FOR THE DURATION OF THE CONTRACT.
34. ALL PITS / MANHOLES IN CONCRETED AREAS TO BE CONSTRUCTED IN ACCORDANCE WITH WCC DETAIL SD2-5.
35. ALL NATURESTRIPS, FROM BACK OF KERB TO EXISTING EDGE OF PATH OR PROPERTY BOUNDARY ARE TO BE FILLED TO A CLEAN, TIDY CONDITION, TOP DRESSED (50MM LOAMY TOP SOIL FREE OF CLUMPS, SODS AND CLAY LUMPS) AND HYDROSEEDED.
36. ALL STORMWATER DRAINS ARE TO BE CLASS 2 R.C. OR RIGID F.R.C. PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. ALL PIPES UP TO AND INCLUDING 750mm DIA ARE TO BE RUBBER RING JOINTED. INTERLOCKING / FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 750mm DIA.
37. CURVED PIPE ALIGNMENTS TO BE ACHIVED USING SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION.
    RADIUS AND SPLAY LENGTHS PROVIDED FOR ORDERING PURPOSES.

SERVICE OFFSETS AND LOCATION TABLE

ROAD NAME	POTABLE WATER		RECYCLED WATER		GAS		ELECTRICITY				TELECOM	
							POLE		U/G CABLE			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
BARRABOOL BOULEVARD (Ch280 to Ch512.30)	W	3.25	W	2.50	W	2.10	E	0.80*	E	3.60	E	2.725
BARRABOOL BOULEVARD (Ch197.09 to Ch280)	W	3.25	W	2.50	W	2.10	E	0.80*	E	2.55	E	2.000
SURROUND DRIVE	N	3.00	N	2.50	N	2.10	N	0.80*	S	2.60	S	1.725
SHALLOW DRIVE	W	2.95	W	2.50	W	2.10	E	0.80*	E	2.60	E	1.725
SEDGE STREET	E	2.95	E	2.50	E	2.10	W	0.80*	W	2.60	W	1.725
BRANCH STREET	N	2.95	N	2.50	N	2.10	S	0.80*	S	2.60	S	1.725
SHOAL CIRCUIT	W	2.95	W	2.50	W	2.10	E	0.80*	E	2.60	E	1.725
FUTURE ROAD	N	3.00	N	2.50	N	2.10	S	0.80*	S	2.60	S	1.725

1. TELSTRA AND ELECTRICITY CABLES ARE TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRAWINGS.
2. GAS AND WATER MAINS ARE TO BE CONSTRUCTED IN A COMMON TRENCH.
3. * DENOTES OFFSET FROM BACK OF KERB.
4. LIGHT POLES DIMENSIONED TO CENTRE OF POLE.



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LOCALITY PLAN

SCALE: NOT TO SCALE
MAP: 204 E5

DRAWING INDEX

Drawing Number	Drawing Name
303977R01	FACE SHEET
303977R02	DETAIL PLAN - SHEET 1 OF 2
303977R03	DETAIL PLAN - SHEET 2 OF 2
303977R04	LONGITUDINAL SECTION - BARRABOOL BOULEVARD & FUTURE ROAD
303977R05	LONGITUDINAL SECTION - SURROUND DRIVE, BRANCH STREET & SHOAL CIRCUIT
303977R06	LONGITUDINAL SECTION - SHALLOW STREET & SEDGE STREET
303977R07	CROSS SECTIONS - BARRABOOL BOULEVARD
303977R08	CROSS SECTIONS - BARRABOOL BOULEVARD
303977R09	CROSS SECTIONS - SURROUND DRIVE
303977R10	CROSS SECTIONS - SURROUND DRIVE & SHOAL CIRCUIT
303977R11	CROSS SECTIONS - SHALLOW STREET
303977R12	CROSS SECTIONS - SEDGE STREET
303977R13	CROSS SECTIONS - BRANCH STREET
303977R14	INTERSECTION DETAILS - SHEET 1 OF 2
303977R15	INTERSECTION DETAILS - SHEET 2 OF 2
303977R16	DRAINAGE LONG SECTION - SHEET 1 OF 7
303977R17	DRAINAGE LONG SECTION - SHEET 2 OF 7
303977R18	DRAINAGE LONG SECTION - SHEET 3 OF 7
303977R19	DRAINAGE LONG SECTION - SHEET 4 OF 7
303977R20	DRAINAGE LONG SECTION - SHEET 5 OF 7
303977R21	DRAINAGE LONG SECTION - SHEET 6 OF 7
303977R22	DRAINAGE LONG SECTION - SHEET 7 OF 7 & PIT DETAILS
303977R23	PIT SCHEDULE
303977R24	TYPICAL DETAILS
303977R25	SIGNAGE AND LINEMARKING PLAN - SHEET 1 OF 2
303977R26	SIGNAGE AND LINEMARKING PLAN - SHEET 2 OF 2
303977R27	RAISED PAVEMENT DETAILS
303977R28	PAVEMENT PLAN DETAILS

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.

DIAL BEFORE YOU DIG
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LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	DW	DW
WATER RECYCLED	NDW	NDW
UNDERGROUND ELECTRICITY	E	E
OVERHEAD ELECTRICITY & POLE	OE	OE
TELSTRA & SERVICE PIT	T	T
OPTIC FIBRE	OF	OF
OVERHEAD TELSTRA	OT	OT
GAS MAIN	G	G
BRANCH SEWER & MANHOLE	S	S
SEWER & MANHOLE	S	S
SEWER RISING MAIN	SRM	SRM
CENTRAL INVERT	> >	> >
COUNCIL STORMWATER DRAIN & PIT		
STORMWATER DRAINAGE PROPERTY INLETS		
COUNCIL STORMWATER PITS		
HOUSE DRAIN	H	H
AG DRAIN AND FLUSHER	AG AG	AG AG
MWC STORMWATER DRAIN & PIT		
MWC STORMWATER PITS		
STORMWATER DRAINAGE PIT NUMBER	1	1
GAS & WATER CONDUITS	GW	GW
CONCRETE VEHICLE CROSSING		
PAVEMENT SAWCUT LINE		SAWCUT
RIDGE / CHANGE OF GRADE LINE		
SURFACE CONTOUR MINOR	168.90	168.90
SURFACE CONTOUR MAJOR	169.00	169.00
SURFACE LEVEL	123.45	F124.68
BATTER LEVEL (TOP / TOE)	T124.80	T124.80
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 CHAINAGE	CH20.06	CH20.06
SETOUT POINT		A2
LIMIT OF WORKS		
BATTER		
EXCAVATION GREATER THAN 0.20m		
FILLING GREATER THAN 0.30m		
FILL EXTENTS		
ROCK BEACHING		
PARKING BAY/PAVED AREA		
RETAINING WALL - TIMBER		
RETAINING WALL - CONCRETE		
RETAINING WALL - ROCK/STONE		
GRASSED MAINTENANCE ACCESS TRACK		
GRAVEL MAINTENANCE ACCESS TRACK		
FENCE - TREE PROTECTION		
FENCE - VEHICLE EXCLUSION		
FENCES		
GUARD RAIL		
TREE (& SURVEYED CANOPY) TO BE RETAINED		
TREE TO BE REMOVED		
VEGETATION LINE		

Rev	Amendments	Approved	Date
8	SHEETS R01 & R27 AMENDED	M.L	26/03/20
7	SHEETS R01 & R28 AS CONSTRUCTED	M.L	10/10/19
6	SHEETS R01/R24 AMENDED & SHEET R28 ADDED	M.L	02/07/19
5	SHEETS R02 / R03 / R22 / R23 AMENDED	M.L	14/05/19

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FRASERS PROPERTY

Designed: R. WEINBER
Checked: B. IBBS
Authorised: M. CAIRNEY
Date: 15/06/2018

MAMBOURIN ESTATE STAGE 2
FACE SHEET

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303977R01**
Rev **8**

FOR CONTINUATION REFER SHEET 3

Rev	Amendments	Approved	Date
4	AS CONSTRUCTED	M.L	10/10/19
3	PIT 83 UPDATED.	M.L	14/05/19
2	WETLAND FOOTPATH UPDATED. HEAVY DUTY CROSSING AND COLLAPSIBLE BOLLARDS RELOCATED. ELECTRICAL AND WATER CONDUIT CROSSING 3x150mm RELOCATED.	M.L	08/03/19

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Horizontal 0 5 10 15 20 25
Vertical 0 5 10 15 20 25

dlcs AS/NZS ISO 9001 certified AS/NZS 4801 certified AS/NZS ISO 14001 certified

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Checked B. IBBS
Authorised M. CAIRNEY
Date 15/06/2018

MAMBOURIN ESTATE STAGE 2
DETAIL PLAN
SHEET 1 OF 2
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303977R02**
Rev **4**

FOR CONTINUATION REFER SHEET 2

N

SURROUND DRIVE

SHOAL CIRCUIT

NETTLE STREET

BOULEVARD

BARRABOOL

EXISTING STAGE 1

WETLAND B

FUTURE SCHOOL

FUTURE ROAD

FUTURE DEVELOPMENT

CURVED PIPES REFER NOTE 37 303977R01

PROVIDE HEAVY DUTY VEHICLE CROSSING AS PER EDCM 503

ELECTRICAL AND WATER CONDUIT CROSSINGS 3 x 150mm CONDUITS

PROVIDE COLLAPSIBLE BOLLARDS AS PER WCC SD10-1

INSTALL TEMPORARY CONSTRUCTION FENCE AROUND WETLAND FOR THE DURATION OF WETLAND WORKS

2 No DISABLED PARKING BAYS 7800 LONG X 3200 WIDE

PORPHYRY STONE THRESHOLD TREATMENT (REFER 303977R27 FOR DETAILS)

REMOVE CONCRETE EDGE STRIP AND AG DRAIN AND NEATLY MATCH TO EXISTING ROADWORKS

TEMPORARY BOLLARDS AROUND TEMPORARY TURNAROUND

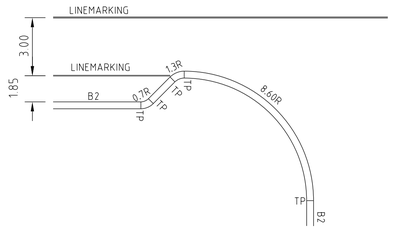
SUPPLY AND INSTALL CONCRETE EDGE STRIP AS SPECIFIED INCLUDING AG DRAIN

CURVED PIPES AS PER MANUFACTURES SPECIFICATIONS

E 288522.312 N 5803061.450

E 288538.105 N 5803070.771

LIMIT OF WORKS



TYPICAL KERB INDENT DETAIL
N.T.S

Rev	Amendments	Approved	Date
4	AS CONSTRUCTED	M.L	10/10/19
3	PIT 83 UPDATED.	M.L	14/05/19
2	WETLAND FOOTPATH UPDATED. HEAVY DUTY CROSSING AND COLLAPSIBLE BOLLARDS RELOCATED. ELECTRICAL AND WATER CONDUIT CROSSING 3x150mm RELOCATED.	M.L	08/03/19

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Vertical 0 5 10 15 20 25

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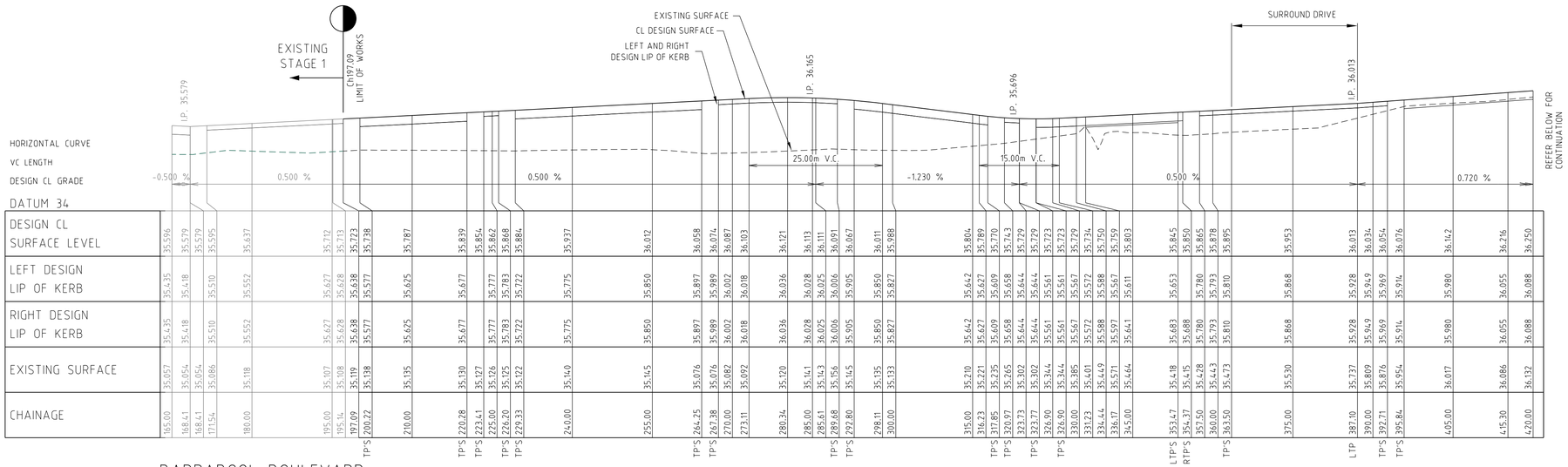
Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 15/06/2018

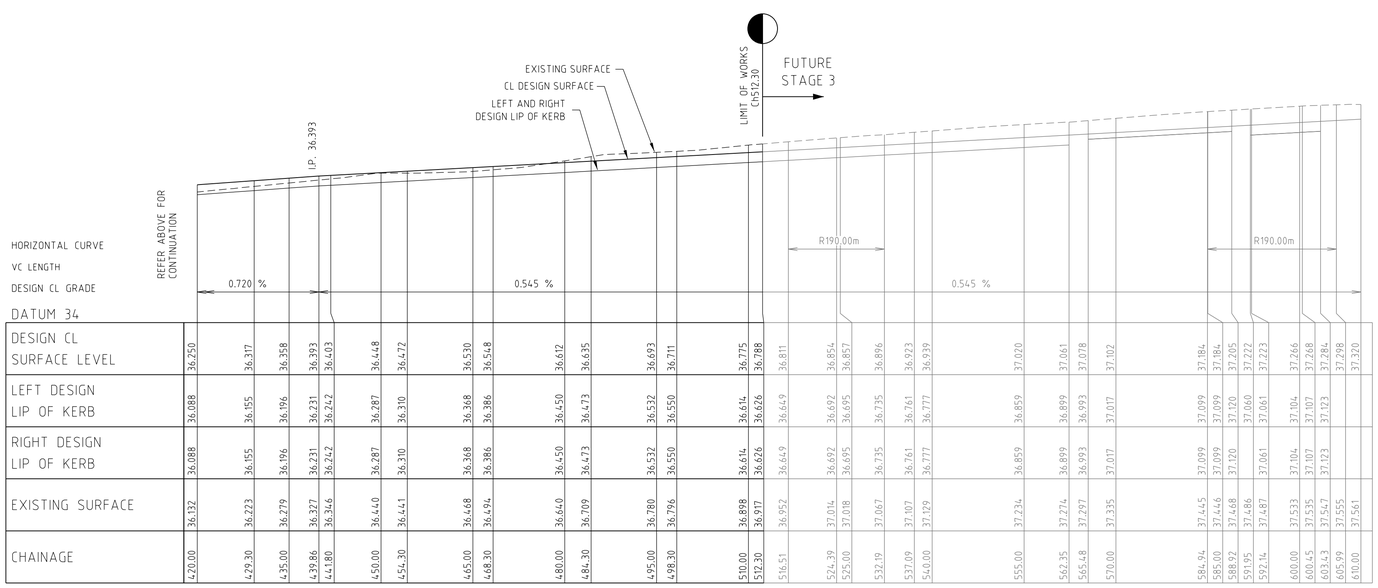
MAMBOURIN ESTATE STAGE 2
DETAIL PLAN
SHEET 2 OF 2
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303977R03**
Rev **4**



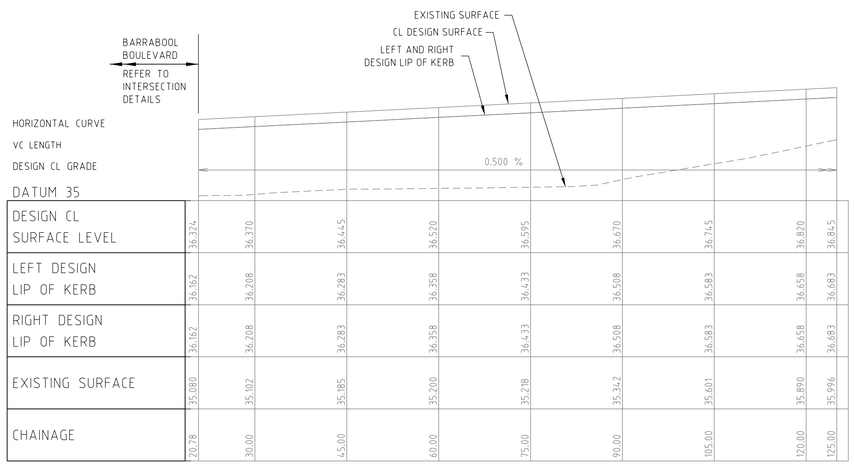
CHAINAGE	DESIGN CL SURFACE LEVEL	LEFT DESIGN LIP OF KERB	RIGHT DESIGN LIP OF KERB	EXISTING SURFACE
165.00	35.596	35.435	35.435	35.057
168.41	35.579	35.418	35.418	35.054
168.41	35.579	35.510	35.510	35.054
171.54	35.595	35.510	35.510	35.086
180.00	35.637	35.552	35.552	35.118
195.00	35.712	35.627	35.627	35.107
195.14	35.713	35.628	35.628	35.108
197.09	35.723	35.638	35.638	35.119
TP'S 200.22	35.738	35.577	35.577	35.138
210.00	35.787	35.625	35.625	35.135
TP'S 220.28	35.839	35.677	35.677	35.130
TP'S 223.41	35.854	35.777	35.777	35.127
225.00	35.862	35.777	35.777	35.126
TP'S 226.20	35.868	35.783	35.783	35.125
TP'S 229.33	35.884	35.722	35.722	35.122
240.00	35.937	35.775	35.775	35.140
255.00	36.012	35.850	35.850	35.145
TP'S 264.25	36.058	35.897	35.897	35.076
TP'S 267.38	36.074	35.989	35.989	35.076
270.00	36.087	36.002	36.002	35.082
273.11	36.103	36.018	36.018	35.092
280.34	36.121	36.036	36.036	35.120
285.00	36.113	36.028	36.028	35.141
285.61	36.111	36.025	36.025	35.143
TP'S 289.68	36.091	36.006	36.006	35.156
TP'S 292.80	36.067	35.905	35.905	35.145
298.11	36.011	35.850	35.850	35.135
300.00	35.988	35.827	35.827	35.133
315.00	35.804	35.642	35.642	35.210
316.23	35.789	35.627	35.627	35.221
TP'S 317.85	35.770	35.609	35.609	35.235
TP'S 320.97	35.743	35.658	35.658	35.265
323.73	35.729	35.644	35.644	35.302
TP'S 323.77	35.729	35.644	35.644	35.302
TP'S 326.90	35.723	35.561	35.561	35.344
330.00	35.729	35.567	35.567	35.385
331.23	35.734	35.572	35.572	35.401
334.44	35.750	35.588	35.588	35.449
336.17	35.759	35.597	35.597	35.571
345.00	35.803	35.641	35.641	35.464
LTP'S 353.47	35.845	35.653	35.653	35.418
RTP'S 354.37	35.850	35.688	35.688	35.415
357.50	35.865	35.780	35.780	35.428
360.00	35.878	35.793	35.793	35.443
TP'S 363.50	35.895	35.810	35.810	35.473
375.00	35.953	35.868	35.868	35.530
LTP 387.10	36.013	35.928	35.928	35.737
390.00	36.034	35.949	35.949	35.809
TP'S 392.71	36.054	35.969	35.969	35.876
TP'S 395.84	36.076	35.914	35.914	35.954
405.00	36.142	35.980	35.980	36.017
415.30	36.216	36.055	36.055	36.086
420.00	36.250	36.088	36.088	36.132

BARRABOOL BOULEVARD



CHAINAGE	DESIGN CL SURFACE LEVEL	LEFT DESIGN LIP OF KERB	RIGHT DESIGN LIP OF KERB	EXISTING SURFACE
420.00	36.250	36.088	36.088	36.132
429.30	36.317	36.155	36.155	36.223
435.00	36.358	36.196	36.196	36.279
439.86	36.393	36.231	36.231	36.327
441.80	36.403	36.242	36.242	36.346
450.00	36.448	36.287	36.287	36.440
454.30	36.472	36.310	36.310	36.441
465.00	36.530	36.368	36.368	36.468
468.30	36.548	36.386	36.386	36.494
480.00	36.612	36.450	36.450	36.640
484.30	36.635	36.473	36.473	36.709
495.00	36.693	36.532	36.532	36.780
498.30	36.711	36.550	36.550	36.796
510.00	36.775	36.614	36.614	36.898
512.30	36.788	36.626	36.626	36.917
516.51	36.811	36.649	36.649	36.952
524.39	36.854	36.692	36.692	37.014
525.00	36.857	36.695	36.695	37.018
532.19	36.896	36.735	36.735	37.067
537.09	36.923	36.761	36.761	37.107
540.00	36.939	36.777	36.777	37.129
555.00	37.020	36.859	36.859	37.234
562.35	37.061	36.899	36.899	37.274
565.48	37.078	36.993	36.993	37.297
570.00	37.102	37.017	37.017	37.335
584.94	37.184	37.099	37.099	37.445
585.00	37.184	37.099	37.099	37.446
588.92	37.205	37.120	37.120	37.468
591.95	37.222	37.060		37.486
592.14	37.223	37.061	37.061	37.487
600.00	37.266	37.104	37.104	37.533
600.45	37.268	37.107	37.107	37.535
603.43	37.284	37.123	37.123	37.547
605.99	37.298			37.555
610.00	37.320			37.561

BARRABOOL BOULEVARD



CHAINAGE	DESIGN CL SURFACE LEVEL	LEFT DESIGN LIP OF KERB	RIGHT DESIGN LIP OF KERB	EXISTING SURFACE
20.78	36.324	36.162	36.162	35.080
30.00	36.370	36.208	36.208	35.102
45.00	36.445	36.283	36.283	35.185
60.00	36.520	36.358	36.358	35.200
75.00	36.595	36.433	36.433	35.218
90.00	36.670	36.508	36.508	35.342
105.00	36.745	36.583	36.583	35.601
120.00	36.820	36.658	36.658	35.890
125.00	36.845	36.683	36.683	35.996

FUTURE ROAD

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	10/10/19
1	BARRABOOL BLVD TP CHAINAGES UPDATED. FUTURE ROAD LONGSECTION ADDED	M.L	22/02/19
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale H 1:500, V 1:50,A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

dlcs AS/NZS ISO 9001 certified AS/NZS 4801 certified AS/NZS ISO 14001 certified

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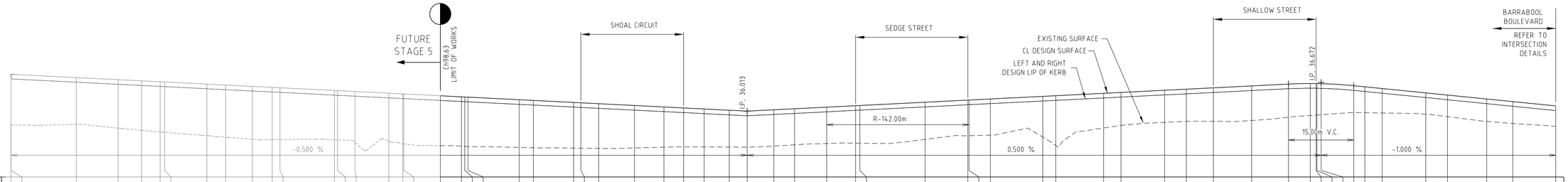
FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 15/06/2018

MAMBOURIN ESTATE
STAGE 2
LONGITUDINAL SECTION - BARRABOOL BOULEVARD & FUTURE ROAD
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

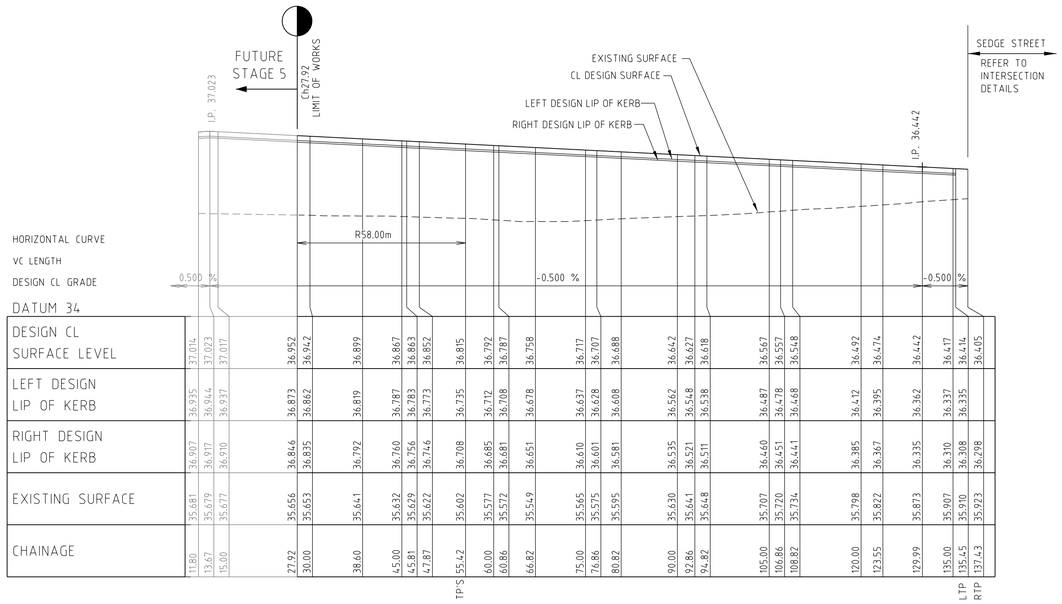
AS CONSTRUCTED Drg No **303977R04** Rev **2**



HORIZONTAL CURVE
VC LENGTH
DESIGN CL GRADE
DATUM 34.5

CHAINAGE	DESIGN CL SURFACE LEVEL	LEFT DESIGN LIP OF KERB	RIGHT DESIGN LIP OF KERB	EXISTING SURFACE
0.00	36.859	36.752	36.752	35.696
0.01				35.696
15.00	36.784	36.677	36.677	35.709
24.61	36.736	36.629	36.629	35.622
30.00	36.709	36.602	36.602	35.573
34.24	36.688	36.581	36.581	35.534
35.30	36.682	36.576	36.576	35.526
45.00	36.634	36.527	36.527	35.452
49.30	36.612	36.506	36.506	35.414
55.44	36.582	36.475	36.475	35.367
60.00	36.559	36.452	36.452	35.358
61.80	36.550	36.443	36.443	35.360
74.30	36.487	36.381	36.381	35.357
75.00	36.484	36.377	36.377	35.354
79.04	36.463	36.357	36.357	35.299
86.80	36.425	36.318	36.318	35.323
90.00	36.409	36.302	36.302	35.263
90.24	36.407	36.301	36.301	35.259
98.63	36.365	36.259	36.259	35.221
103.48	36.341	36.235	36.235	35.210
104.24	36.337	36.231	36.231	35.205
105.00	36.334	36.227	36.227	35.200
116.74	36.275	36.168	36.168	35.179
120.00	36.258	36.152	36.152	35.171
129.24	36.212	36.106	36.106	35.164
LTP 130.91	36.204	36.097	36.097	35.162
135.00	36.183	36.077	36.077	35.158
143.24	36.142	36.036	36.036	35.168
150.00	36.108	36.002	36.002	35.185
LTP 154.51	36.086	35.979	35.979	35.192
159.24	36.062	35.956	35.956	35.190
165.00	36.033	35.927	35.927	35.187
169.13	36.013	35.906	35.906	35.187
175.24	36.043	35.937	35.937	35.211
180.00	36.067	35.960	35.960	35.239
TP'S 187.38	36.104	35.997	35.997	35.268
RTP 194.02	36.137	36.031	36.031	35.277
195.00	36.142	36.035	36.035	35.276
210.00	36.217	36.110	36.110	35.364
LTP 219.82	36.266	36.159	36.159	35.448
RTP 220.10	36.267	36.161	36.161	35.449
225.00	36.292	36.185	36.185	35.462
237.01	36.352	36.245	36.245	35.417
240.00	36.367	36.260	36.260	35.227
251.01	36.422	36.315	36.315	35.626
255.00	36.442	36.335	36.335	35.685
265.01	36.492	36.385	36.385	35.755
270.00	36.517	36.410	36.410	35.777
LTP 276.21	36.548	36.441	36.441	35.778
285.00	36.592	36.485	36.485	35.798
293.47	36.634	36.528	36.528	35.873
LTP 298.47	36.647	36.540	36.540	35.913
299.81	36.646	36.539	36.539	35.922
300.00	36.645	36.539	36.539	35.923
300.97	36.643	36.535	36.535	35.930
308.47	36.597	36.490	36.490	35.980
311.01	36.571	36.465	36.465	35.976
315.00	36.531	36.425	36.425	35.970
325.01	36.431	36.325	36.325	35.943
330.00	36.381	36.275	36.275	35.887
339.01	36.291	36.184	36.184	35.777
345.00	36.231	36.125	36.125	35.729
TP'S 354.86	36.133	36.026	36.026	35.660

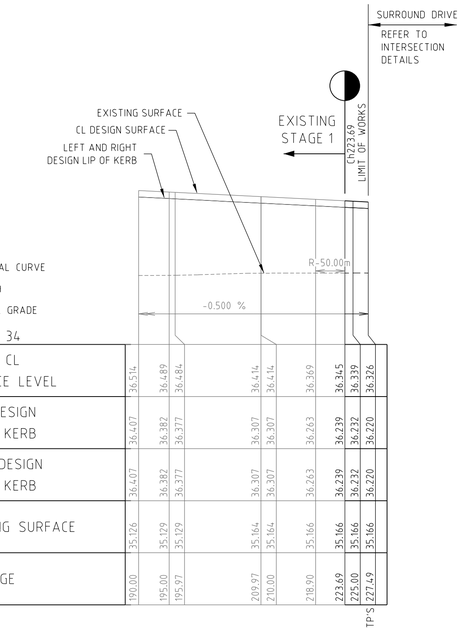
SURROUND DRIVE



HORIZONTAL CURVE
VC LENGTH
DESIGN CL GRADE
DATUM 34

CHAINAGE	DESIGN CL SURFACE LEVEL	LEFT DESIGN LIP OF KERB	RIGHT DESIGN LIP OF KERB	EXISTING SURFACE
11.80	37.014	36.935	36.907	35.681
13.67	37.023	36.944	36.917	35.679
15.00	37.017	36.937	36.910	35.677
27.92	36.952	36.873	36.846	35.656
30.00	36.942	36.862	36.835	35.653
38.60	36.899	36.819	36.792	35.641
45.00	36.867	36.787	36.760	35.632
45.81	36.863	36.783	36.756	35.629
47.87	36.852	36.773	36.746	35.622
TP'S 55.42	36.815	36.735	36.708	35.602
60.00	36.792	36.712	36.685	35.577
60.86	36.787	36.708	36.681	35.572
66.82	36.758	36.678	36.651	35.549
75.00	36.717	36.637	36.610	35.565
76.86	36.707	36.628	36.601	35.575
80.82	36.688	36.608	36.581	35.595
90.00	36.642	36.562	36.535	35.630
92.86	36.627	36.548	36.521	35.641
94.82	36.618	36.538	36.511	35.648
105.00	36.567	36.487	36.460	35.707
106.86	36.557	36.478	36.451	35.720
108.82	36.548	36.468	36.441	35.734
120.00	36.492	36.412	36.385	35.798
123.55	36.474	36.395	36.367	35.822
129.99	36.442	36.362	36.335	35.873
135.00	36.417	36.337	36.310	35.907
LTP 155.45	36.414	36.335	36.308	35.910
RTP 137.43	36.405	36.298	36.298	35.923

BRANCH STREET



HORIZONTAL CURVE
VC LENGTH
DESIGN CL GRADE
DATUM 34

CHAINAGE	DESIGN CL SURFACE LEVEL	LEFT DESIGN LIP OF KERB	RIGHT DESIGN LIP OF KERB	EXISTING SURFACE
190.00	36.514	36.407	36.407	35.126
195.00	36.489	36.382	36.382	35.129
195.97	36.484	36.377	36.377	35.129
209.97	36.414	36.307	36.307	35.164
210.00	36.414	36.307	36.307	35.164
218.90	36.369	36.263	36.263	35.166
223.69	36.345	36.239	36.239	35.166
225.00	36.339	36.232	36.232	35.166
TP'S 227.49	36.326	36.220	36.220	35.166

SHOAL CIRCUIT

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	10/10/19
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale H 1500, V 150,A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

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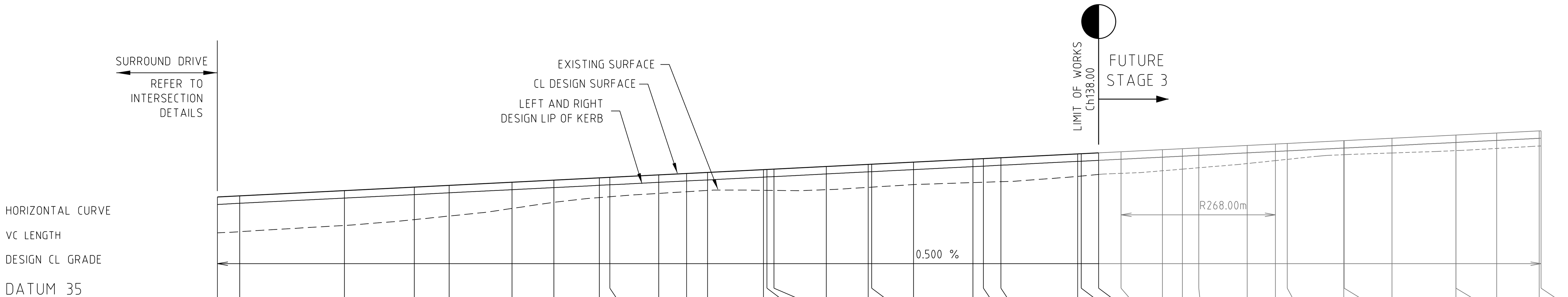
FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 15/06/2018

MAMBOURIN ESTATE
STAGE 2
LONGITUDINAL SECTION - SURROUND DRIVE, BRANCH STREET & SHOAL CIRCUIT

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No **303977R05** Rev **1**



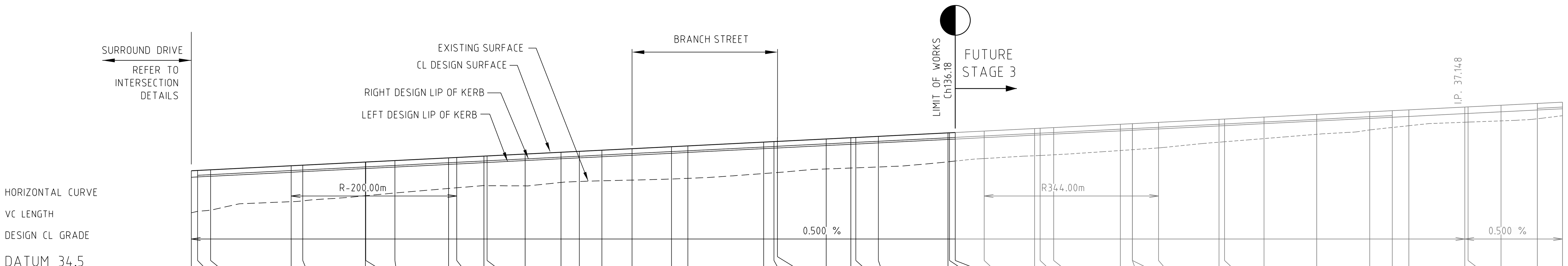
DESIGN CL SURFACE LEVEL	36.455	36.471	36.546	36.596	36.621	36.666	36.696	36.729	36.736	36.771
LEFT DESIGN LIP OF KERB	36.348	36.364	36.439	36.489	36.514	36.559	36.590	36.622	36.630	36.665
RIGHT DESIGN LIP OF KERB	36.348	36.364	36.439	36.489	36.514	36.559	36.590	36.622	36.630	36.665
EXISTING SURFACE	35.942	35.958	36.048	36.131	36.182	36.291	36.380	36.447	36.458	36.507
CHAINAGE	11.80	15.00	30.00	40.00	45.00	54.00	60.00	66.50	68.00	75.00
	TP'S									

DESIGN CL SURFACE LEVEL	36.791	36.806	36.846	36.849	36.854	36.891	36.921	36.924	36.954	36.996
LEFT DESIGN LIP OF KERB	36.685	36.700	36.740	36.742	36.747	36.785	36.815	36.817	36.847	36.890
RIGHT DESIGN LIP OF KERB	36.685	36.700	36.740	36.742	36.747	36.785	36.815	36.817	36.847	36.890
EXISTING SURFACE	36.531	36.549	36.551	36.550	36.549	36.560	36.593	36.596	36.632	36.661
CHAINAGE	79.00	82.00	90.00	90.50	91.50	99.00	105.00	105.50	111.50	120.00

DESIGN CL SURFACE LEVEL	37.004	37.016	37.071	37.074	37.086	37.102	37.132	37.146	37.158	37.193
LEFT DESIGN LIP OF KERB	36.897	36.910	36.965	36.967	36.980	36.996	37.025	37.040	37.051	37.086
RIGHT DESIGN LIP OF KERB	36.897	36.910	36.965	36.967	36.980	36.996	37.025	37.040	37.051	37.086
EXISTING SURFACE	36.666	36.674	36.750	36.755	36.777	36.794	36.831	36.854	36.874	36.934
CHAINAGE	121.50	124.00	135.00	135.50	138.00	141.21	147.13	150.00	152.34	159.28

DESIGN CL SURFACE LEVEL	37.213	37.221	37.262	37.262	37.296	37.342	37.342	37.371	37.402	37.403
LEFT DESIGN LIP OF KERB	37.106	37.115	37.155	37.156	37.190	37.236	37.236	37.265	37.295	37.297
RIGHT DESIGN LIP OF KERB	37.106	37.115	37.155	37.156	37.190	37.236	37.236	37.265	37.295	
EXISTING SURFACE	36.976	36.994	37.061	37.061	37.085	37.119	37.119	37.150	37.185	37.186
CHAINAGE	163.32	165.00	173.11	173.16	180.00	189.16	189.17	195.00	201.10	201.36

SHALLOW STREET



DESIGN CL SURFACE LEVEL	36.112	36.117	36.128	36.193	36.203	36.254	36.254	36.278	36.322	36.328
LEFT DESIGN LIP OF KERB	36.006	36.011	36.021	36.087	36.096	36.147	36.148	36.171	36.215	36.222
RIGHT DESIGN LIP OF KERB		36.038	36.048	36.114	36.123	36.174	36.175	36.198	36.242	36.249
EXISTING SURFACE	35.428	35.451	35.471	35.608	35.621	35.705	35.706	35.749	35.823	35.834
CHAINAGE	11.85	12.88	15.00	28.12	30.00	40.20	40.25	45.00	53.73	55.05
	LTP	TP'S		RTP						TP'S

DESIGN CL SURFACE LEVEL	36.350	36.353	36.384	36.413	36.428	36.446	36.471	36.503	36.516	36.578
LEFT DESIGN LIP OF KERB	36.244	36.246	36.277	36.306	36.321	36.340	36.364	36.396	36.410	36.471
RIGHT DESIGN LIP OF KERB	36.271	36.273	36.304	36.334	36.348	36.367	36.391	36.423	36.437	36.498
EXISTING SURFACE	35.869	35.868	35.865	35.921	35.936	35.948	35.960	35.977	35.988	36.066
CHAINAGE	59.48	60.00	66.18	72.02	75.00	78.68	83.57	90.00	92.68	105.00
							LTP			

DESIGN CL SURFACE LEVEL	36.586	36.591	36.629	36.649	36.653	36.671	36.728	36.729	36.734	36.757
LEFT DESIGN LIP OF KERB	36.480	36.484	36.522	36.542	36.546	36.565	36.621	36.623	36.627	36.651
RIGHT DESIGN LIP OF KERB	36.507	36.511	36.549	36.569	36.573	36.592	36.648	36.650	36.654	36.678
EXISTING SURFACE	36.079	36.085	36.141	36.156	36.159	36.173	36.257	36.259	36.269	36.310
CHAINAGE	106.68	107.56	115.18	119.18	120.00	123.68	135.00	135.24	136.18	140.89
		LTP								

DESIGN CL SURFACE LEVEL	36.798	36.803	36.814	36.868	36.878	36.878	36.899	36.948	36.953	36.985
LEFT DESIGN LIP OF KERB	36.692	36.696	36.707	36.762	36.771	36.771	36.793	36.842	36.846	36.878
RIGHT DESIGN LIP OF KERB	36.719	36.723	36.734	36.788	36.798	36.798	36.820	36.869	36.873	36.905
EXISTING SURFACE	36.356	36.360	36.371	36.441	36.454	36.454	36.483	36.576	36.583	36.635
CHAINAGE	149.09	150.00	152.20	163.04	165.00	165.01	169.27	179.11	180.00	186.43

DESIGN CL SURFACE LEVEL	37.028	37.071	37.089	37.103	37.148	37.151	37.178	37.207	37.228
LEFT DESIGN LIP OF KERB	36.921	36.964	36.983	36.996	37.042	37.044	37.071	37.101	37.121
RIGHT DESIGN LIP OF KERB	36.948	36.991						37.128	37.148
EXISTING SURFACE	36.705	36.776	36.816	36.845	36.902	36.904	36.924	36.958	37.008
CHAINAGE	195.00	203.63	207.31	210.00	219.11	219.63	225.00	230.91	235.00

SEDGE STREET

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	10/10/19
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale H 1:500, V 1:50,A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

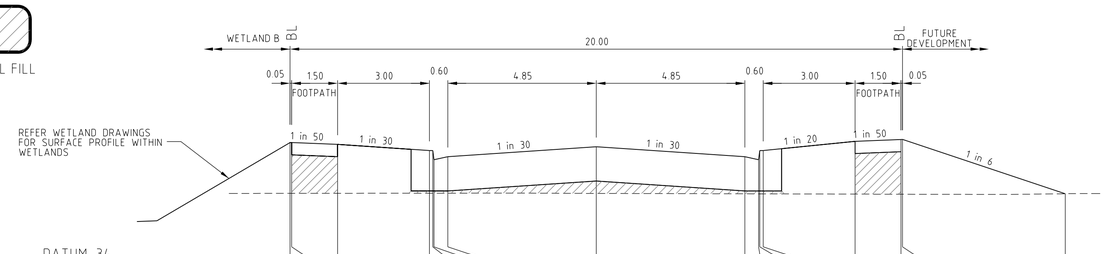
Designed: R. WEINBER
Checked: B. IBBS
Authorised: M. CAIRNEY
Date: 15/06/2018

MAMBOURIN ESTATE
STAGE 2
LONGITUDINAL SECTION - SHALLOW STREET & SEDGE STREET

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No 303977R06 Rev 1

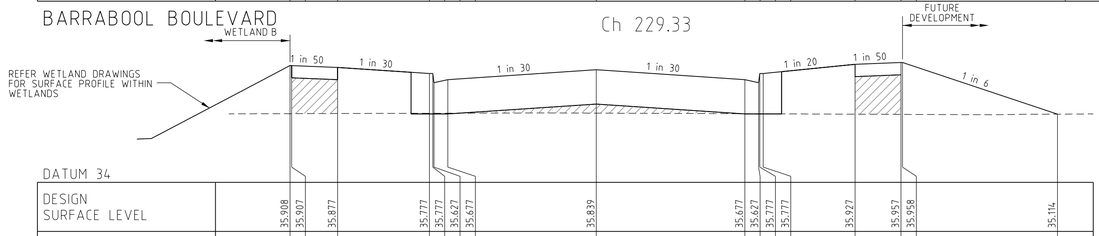
STRUCTURAL FILL



DATUM 34

DESIGN SURFACE LEVEL	35.953	35.952	35.922	35.822	35.822	35.672	35.722	35.884	35.722	35.672	35.822	35.822	35.972	36.002	36.003	35.117
EXISTING SURFACE LEVEL	35.123	35.123	35.124	35.126	35.126	35.126	35.126	35.122	35.116	35.115	35.115	35.115	35.111	35.109	35.109	35.117
OFFSET	-10.000	-9.950	-8.450	-5.450	-5.340	-5.300	-4.850	0.000	4.850	5.300	5.340	5.450	8.450	9.950	10.000	15.316

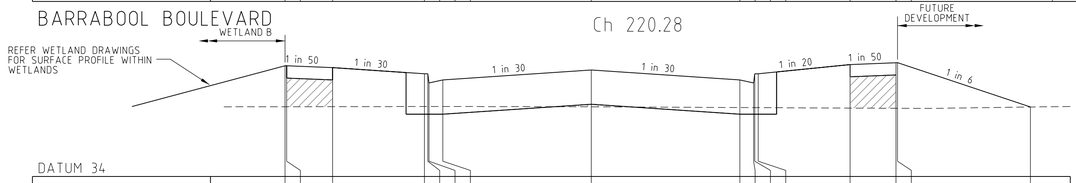
BARRABOOL BOULEVARD Ch 229.33



DATUM 34

DESIGN SURFACE LEVEL	35.908	35.907	35.877	35.777	35.777	35.627	35.677	35.839	35.677	35.627	35.777	35.777	35.927	35.957	35.958	35.114
EXISTING SURFACE LEVEL	35.122	35.122	35.124	35.128	35.128	35.128	35.129	35.130	35.121	35.120	35.120	35.120	35.113	35.110	35.110	35.114
OFFSET	-10.000	-9.950	-8.450	-5.450	-5.340	-5.300	-4.850	0.000	4.850	5.300	5.340	5.450	8.450	9.950	10.000	15.061

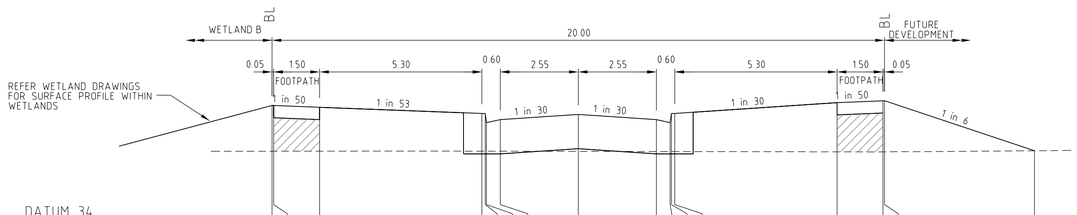
BARRABOOL BOULEVARD Ch 220.28



DATUM 34

DESIGN SURFACE LEVEL	35.808	35.807	35.777	35.677	35.677	35.527	35.577	35.738	35.577	35.527	35.677	35.677	35.827	35.857	35.858	35.134
EXISTING SURFACE LEVEL	35.139	35.139	35.140	35.142	35.142	35.142	35.142	35.138	35.125	35.124	35.124	35.124	35.116	35.113	35.113	35.134
OFFSET	-10.000	-9.950	-8.450	-5.450	-5.340	-5.300	-4.850	0.000	4.850	5.300	5.340	5.450	8.450	9.950	10.000	14.340

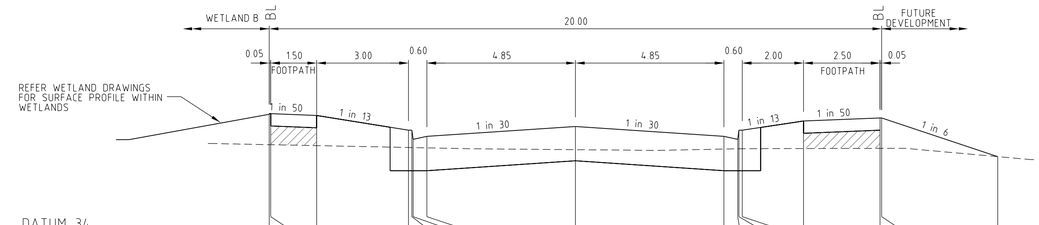
BARRABOOL BOULEVARD Ch 200.22



DATUM 34

DESIGN SURFACE LEVEL	35.869	35.868	35.838	35.738	35.738	35.588	35.638	35.723	35.638	35.588	35.738	35.738	35.914	35.944	35.945	35.129
EXISTING SURFACE LEVEL	35.121	35.121	35.122	35.122	35.122	35.122	35.121	35.119	35.117	35.116	35.116	35.116	35.111	35.111	35.111	35.129
OFFSET	-10.000	-9.950	-8.450	-3.150	-3.040	-3.000	-2.550	0.000	2.550	3.000	3.040	3.150	8.450	9.950	10.000	14.898

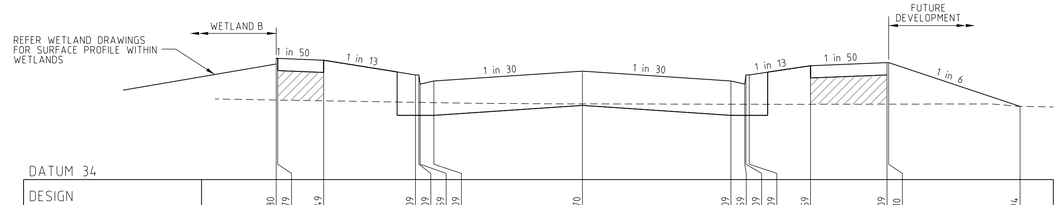
BARRABOOL BOULEVARD Ch 197.09



DATUM 34

DESIGN SURFACE LEVEL	35.932	35.931	35.901	35.661	35.661	35.511	35.561	35.723	35.561	35.511	35.661	35.661	35.811	35.861	35.862	35.231
EXISTING SURFACE LEVEL	35.426	35.425	35.410	35.380	35.379	35.378	35.374	35.344	35.354	35.358	35.358	35.359	35.363	35.365	35.365	35.231
OFFSET	-10.000	-9.950	-8.450	-5.450	-5.340	-5.300	-4.850	0.000	4.850	5.300	5.340	5.450	7.450	9.950	10.000	13.790

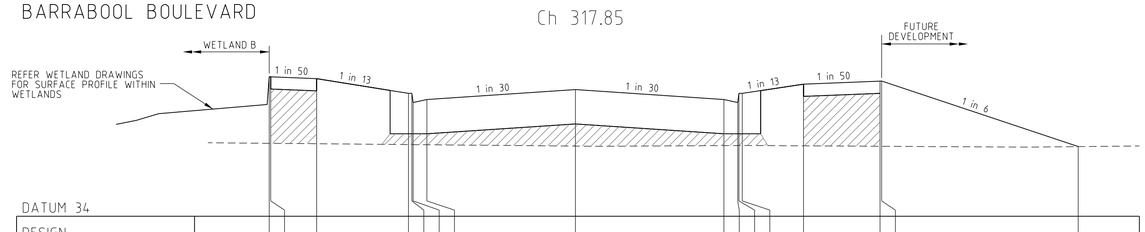
BARRABOOL BOULEVARD Ch 326.90



DATUM 34

DESIGN SURFACE LEVEL	35.980	35.979	35.949	35.709	35.709	35.559	35.609	35.770	35.609	35.559	35.709	35.709	35.859	35.909	35.910	35.194
EXISTING SURFACE LEVEL	35.299	35.298	35.286	35.261	35.260	35.260	35.256	35.235	35.230	35.229	35.229	35.229	35.229	35.231	35.231	35.194
OFFSET	-10.000	-9.950	-8.450	-5.450	-5.340	-5.300	-4.850	0.000	4.850	5.300	5.340	5.450	7.450	9.950	10.000	14.292

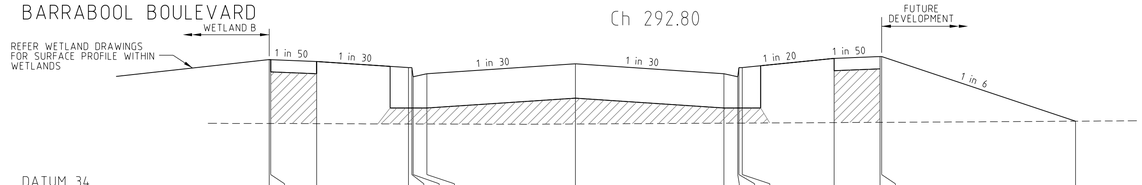
BARRABOOL BOULEVARD Ch 317.85



DATUM 34

DESIGN SURFACE LEVEL	36.276	36.275	36.245	36.005	36.005	35.855	35.905	36.067	35.905	35.855	36.005	36.005	36.155	36.205	36.206	35.137
EXISTING SURFACE LEVEL	35.190	35.190	35.183	35.170	35.169	35.169	35.167	35.145	35.153	35.154	35.154	35.155	35.149	35.142	35.142	35.137
OFFSET	-10.000	-9.950	-8.450	-5.450	-5.340	-5.300	-4.850	0.000	4.850	5.300	5.340	5.450	7.450	9.950	10.000	16.419

BARRABOOL BOULEVARD Ch 292.80



DATUM 34

DESIGN SURFACE LEVEL	36.128	36.127	36.097	35.997	35.997	35.847	35.897	36.058	35.897	35.847	35.997	35.997	36.147	36.177	36.178	35.122
EXISTING SURFACE LEVEL	35.086	35.086	35.082	35.077	35.077	35.076	35.076	35.076	35.089	35.090	35.090	35.091	35.099	35.103	35.103	35.122
OFFSET	-10.000	-9.950	-8.450	-5.450	-5.340	-5.300	-4.850	0.000	4.850	5.300	5.340	5.450	8.450	9.950	10.000	16.334

BARRABOOL BOULEVARD Ch 264.25

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	10/10/19
1	BARRABOOL BOULEVARD CROSS SECTIONS UPDATED	M.L	22/02/19
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale V 1:100, V 150,A1
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

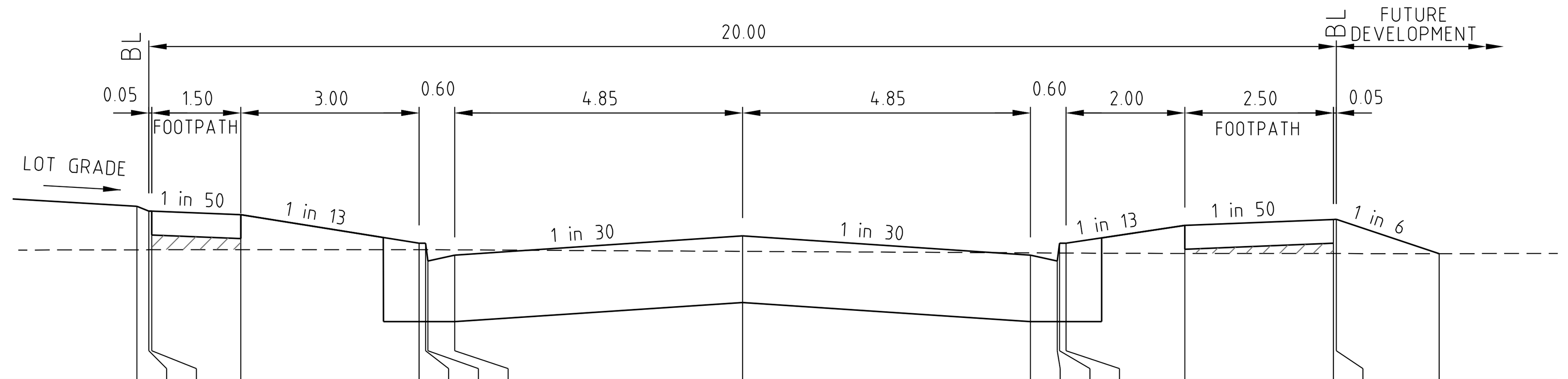
Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 15/06/2018

MAMBOURIN ESTATE
STAGE 2
CROSS SECTIONS - BARRABOOL BOULEVARD

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No **303977R07** Rev **2**

STRUCTURAL FILL

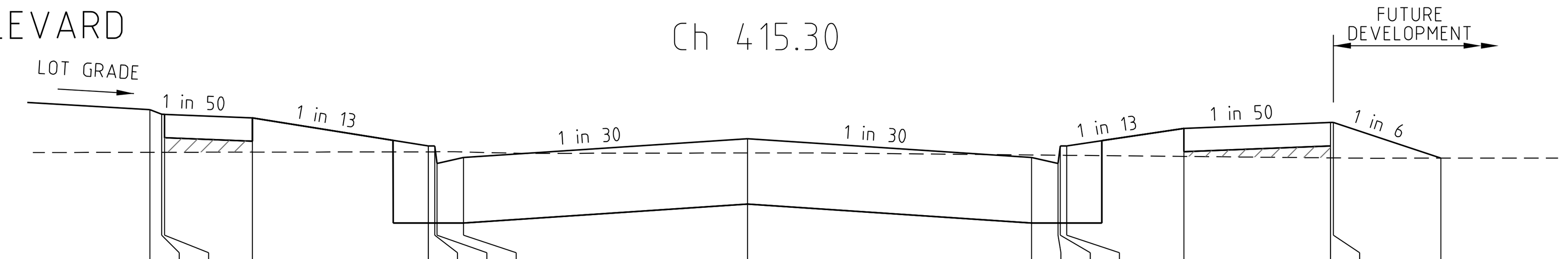


DATUM 35

DESIGN SURFACE LEVEL	36.466	36.426	36.425	36.395	36.155	36.155	36.005	36.055	36.216	36.055	36.005	36.155	36.155	36.305	36.355	36.356	36.067
EXISTING SURFACE LEVEL	36.099	36.099	36.099	36.101	36.100	36.100	36.100	36.099	36.086	36.074	36.072	36.072	36.072	36.069	36.068	36.068	36.067
OFFSET	-10.200	-10.000	-9.950	-8.450	-5.450	-5.340	-5.300	-4.850	0.000	4.850	5.300	5.340	5.450	7.450	9.950	10.000	11.732

BARRABOOL BOULEVARD

Ch 415.30

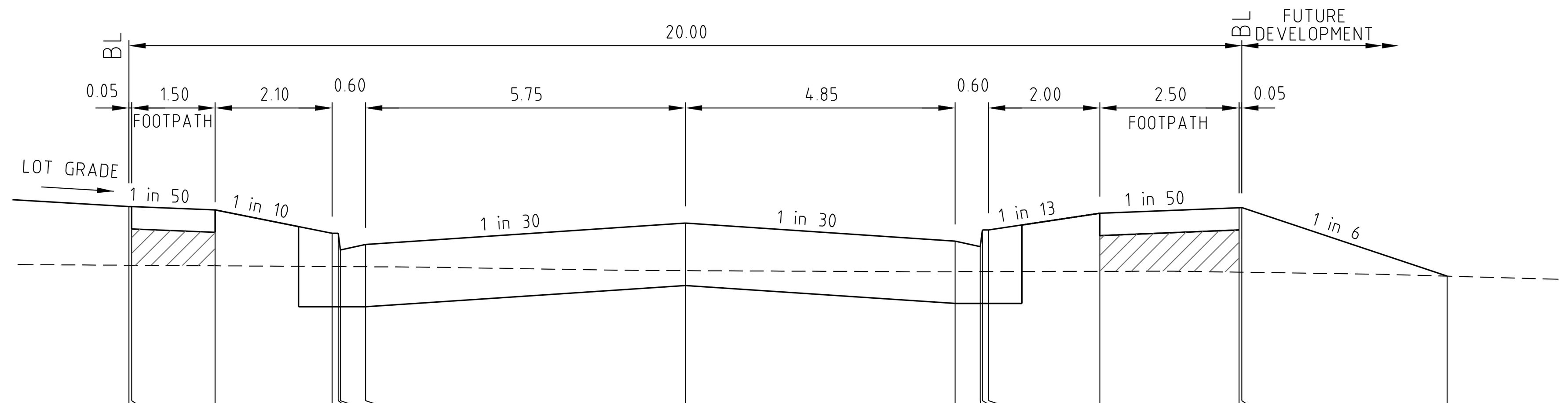


DATUM 35

DESIGN SURFACE LEVEL	36.325	36.285	36.284	36.254	36.014	36.014	35.864	35.914	36.076	35.914	35.864	36.014	36.014	36.164	36.214	36.215	35.910
EXISTING SURFACE LEVEL	35.959	35.960	35.960	35.961	35.964	35.964	35.964	35.962	35.954	35.937	35.934	35.934	35.934	35.924	35.912	35.912	35.910
OFFSET	-10.200	-10.000	-9.950	-8.450	-5.450	-5.340	-5.300	-4.850	0.000	4.850	5.300	5.340	5.450	7.450	9.950	10.000	11.836

BARRABOOL BOULEVARD

Ch 395.84

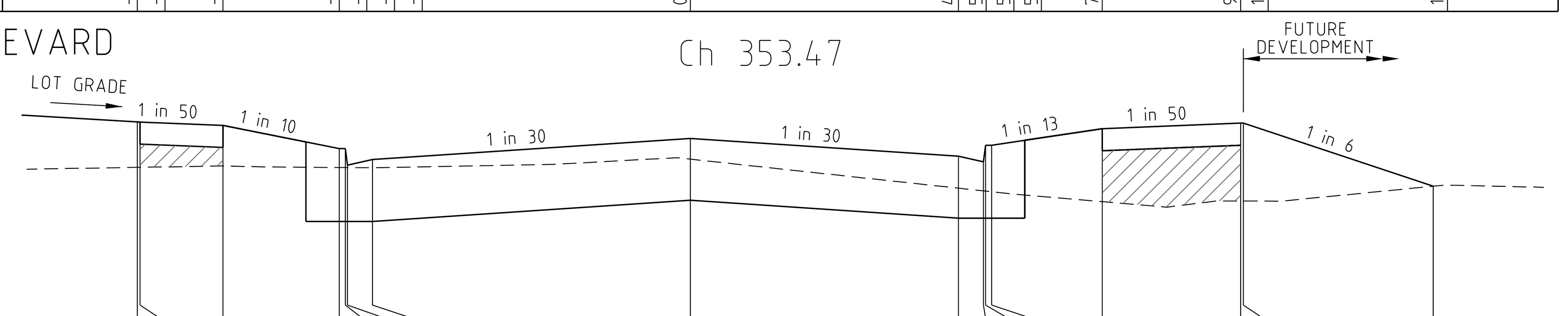


DATUM 34

DESIGN SURFACE LEVEL	35.994	35.993	35.963	35.753	35.753	35.603	35.653	35.845	35.683	35.633	35.783	35.783	35.933	35.983	35.984	35.369
EXISTING SURFACE LEVEL	35.467	35.467	35.462	35.455	35.455	35.455	35.454	35.418	35.409	35.410	35.410	35.410	35.412	35.405	35.404	35.369
OFFSET	-10.000	-9.950	-8.450	-6.350	-6.240	-6.200	-5.750	0.000	4.850	5.300	5.340	5.450	7.450	9.950	10.000	13.692

BARRABOOL BOULEVARD

Ch 353.47

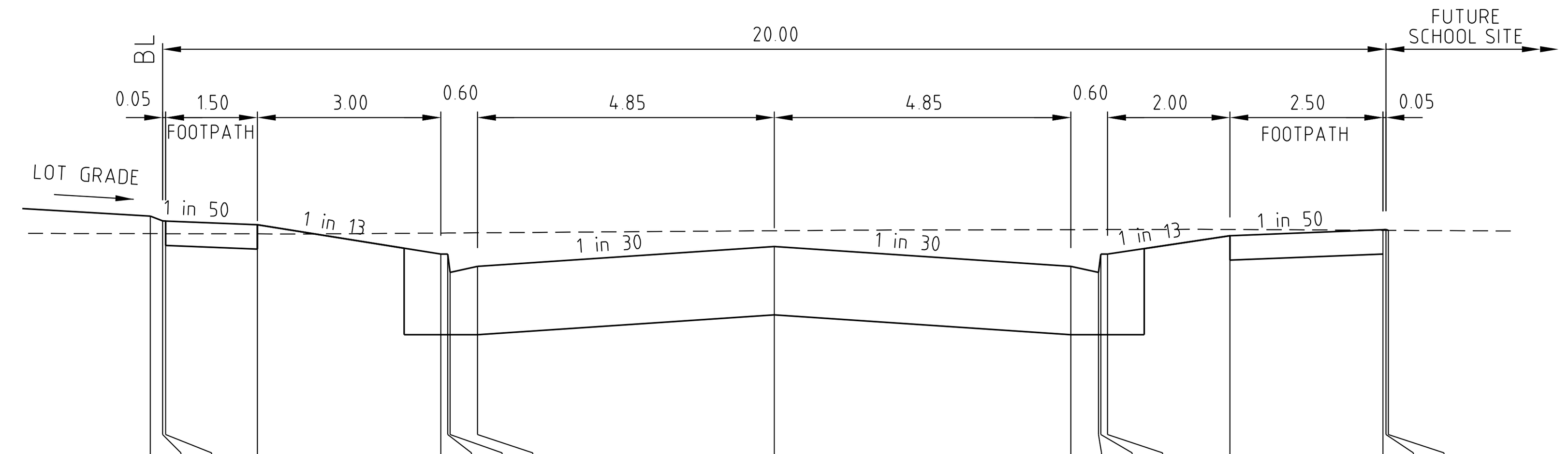


DATUM 34

DESIGN SURFACE LEVEL	35.908	35.907	35.877	35.667	35.667	35.517	35.567	35.759	35.597	35.547	35.697	35.697	35.847	35.897	35.898	35.326
EXISTING SURFACE LEVEL	35.496	35.497	35.509	35.495	35.495	35.495	35.493	35.571	35.308	35.283	35.281	35.275	35.186	35.192	35.192	35.326
OFFSET	-10.000	-9.950	-8.450	-6.350	-6.240	-6.200	-5.750	0.000	4.850	5.300	5.340	5.450	7.450	9.950	10.000	13.434

BARRABOOL BOULEVARD

Ch 336.17

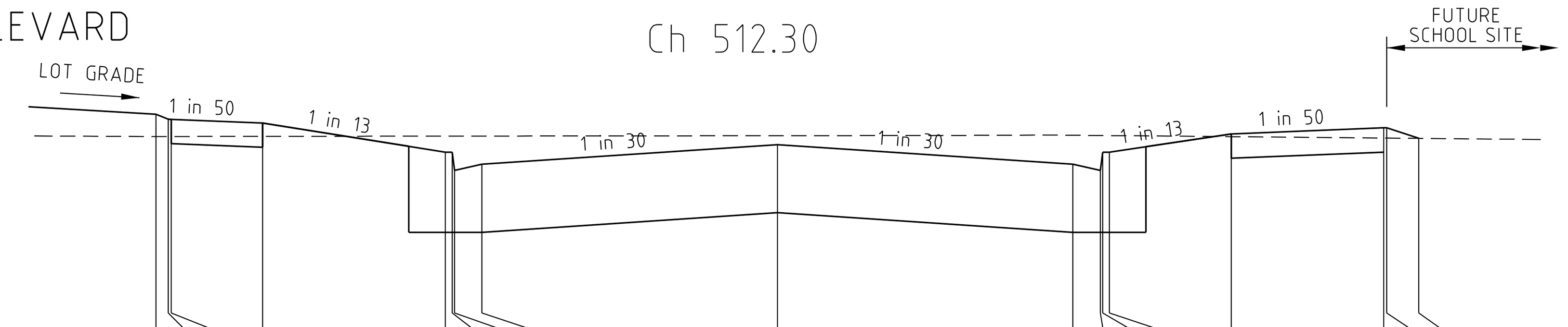


DATUM 35

DESIGN SURFACE LEVEL	37.037	36.997	36.996	36.966	36.726	36.726	36.576	36.626	36.788	36.626	36.576	36.726	36.726	36.876	36.926	36.927	36.920
EXISTING SURFACE LEVEL	36.893	36.893	36.893	36.891	36.898	36.898	36.899	36.900	36.917	36.926	36.927	36.927	36.927	36.927	36.921	36.920	36.920
OFFSET	-10.200	-10.000	-9.950	-8.450	-5.450	-5.340	-5.300	-4.850	0.000	4.850	5.300	5.340	5.450	7.450	9.950	10.000	10.040

BARRABOOL BOULEVARD

Ch 512.30

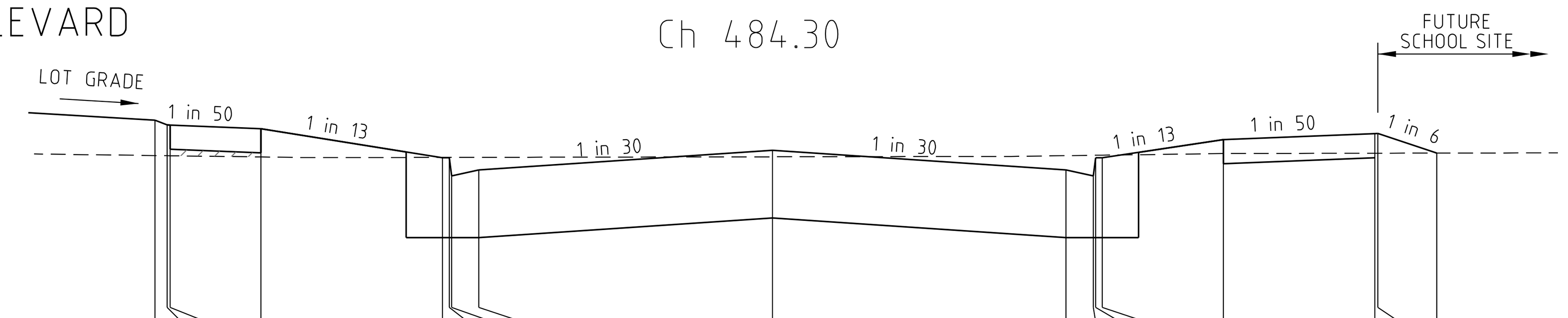


DATUM 35

DESIGN SURFACE LEVEL	36.884	36.844	36.843	36.813	36.573	36.573	36.423	36.473	36.635	36.473	36.423	36.573	36.573	36.723	36.773	36.774	36.687
EXISTING SURFACE LEVEL	36.702	36.702	36.702	36.703	36.705	36.705	36.705	36.705	36.709	36.712	36.710	36.710	36.710	36.701	36.689	36.689	36.687
OFFSET	-10.200	-10.000	-9.950	-8.450	-5.450	-5.340	-5.300	-4.850	0.000	4.850	5.300	5.340	5.450	7.450	9.950	10.000	10.527

BARRABOOL BOULEVARD

Ch 484.30

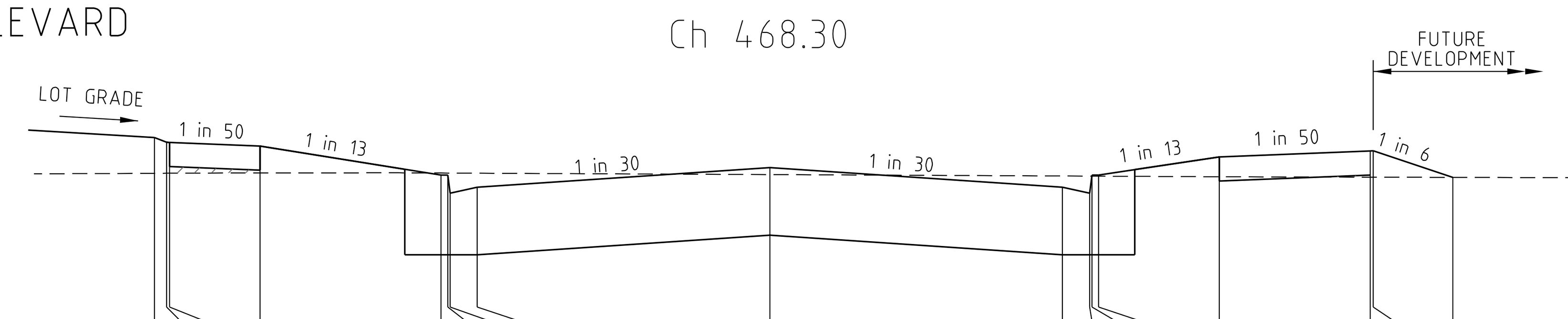


DATUM 35

DESIGN SURFACE LEVEL	36.797	36.757	36.756	36.726	36.486	36.486	36.336	36.386	36.548	36.386	36.336	36.486	36.486	36.636	36.686	36.687	36.525
EXISTING SURFACE LEVEL	36.505	36.503	36.503	36.493	36.490	36.490	36.490	36.490	36.494	36.504	36.507	36.507	36.508	36.521	36.524	36.524	36.525
OFFSET	-10.200	-10.000	-9.950	-8.450	-5.450	-5.340	-5.300	-4.850	0.000	4.850	5.300	5.340	5.450	7.450	9.950	10.000	10.974

BARRABOOL BOULEVARD

Ch 468.30



DATUM 35

DESIGN SURFACE LEVEL	36.653	36.613	36.612	36.582	36.342	36.342	36.192	36.242	36.403	36.242	36.192	36.342	36.342	36.492	36.542	36.543	36.323
EXISTING SURFACE LEVEL	36.356	36.357	36.357	36.360	36.359	36.359	36.358	36.357	36.346	36.334	36.333	36.333	36.333	36.328	36.325	36.325	36.323
OFFSET	-10.200	-10.000	-9.950	-8.450	-5.450	-5.340	-5.300	-4.850	0.000	4.850	5.300	5.340	5.450	7.450	9.950	10.000	11.321

BARRABOOL BOULEVARD

Ch 441.80

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	10/10/19
1	BARRABOOL BOULEVARD CROSS SECTIONS UPDATED	M.L	22/02/19
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale V 1:100, V 1:50,A1
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

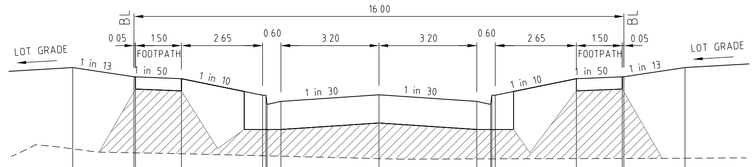
Designed: R. WEINBER
Checked: B. IBBS
Authorised: M. CAIRNEY
Date: 15/06/2018

MAMBOURIN ESTATE
STAGE 2
CROSS SECTIONS - BARRABOOL BOULEVARD

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No **303977R08** Rev **2**

STRUCTURAL FILL

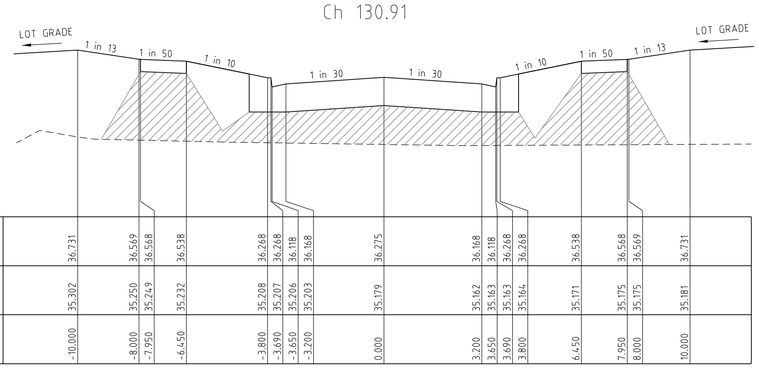


DATUM 34

DESIGN SURFACE LEVEL	36.660	36.498	36.497	36.447	36.197	36.197	36.047	36.097	36.204	36.097	36.047	36.197	36.197	36.447	36.497	36.498	36.660
EXISTING SURFACE LEVEL	35.322	35.258	35.257	35.242	35.209	35.208	35.207	35.202	35.162	35.158	35.159	35.159	35.159	35.163	35.165	35.165	35.169
OFFSET	-10.000	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000	10.000

SURROUND DRIVE

Ch 130.91

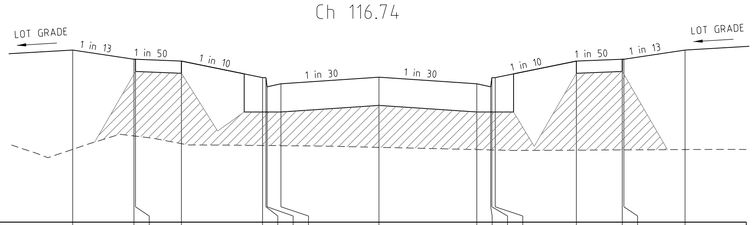


DATUM 34

DESIGN SURFACE LEVEL	36.731	36.569	36.568	36.538	36.268	36.268	36.118	36.168	36.275	36.168	36.118	36.268	36.268	36.538	36.568	36.569	36.731
EXISTING SURFACE LEVEL	35.302	35.250	35.249	35.232	35.208	35.207	35.206	35.203	35.179	35.162	35.163	35.163	35.164	35.171	35.175	35.175	35.181
OFFSET	-10.000	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000	10.000

SURROUND DRIVE

Ch 116.74

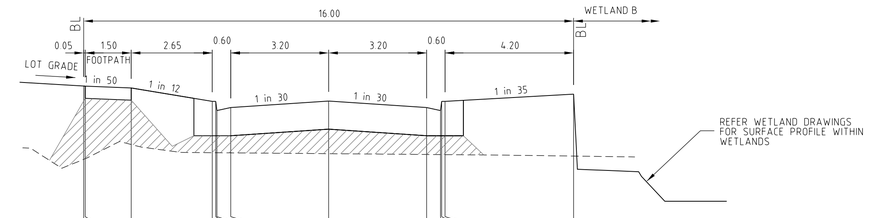


DATUM 34

DESIGN SURFACE LEVEL	36.822	36.660	36.659	36.629	36.359	36.359	36.209	36.259	36.365	36.259	36.209	36.359	36.359	36.629	36.659	36.660	36.822
EXISTING SURFACE LEVEL	35.188	35.407	35.404	35.282	35.251	35.251	35.250	35.248	35.221	35.184	35.179	35.179	35.177	35.175	35.179	35.179	35.184
OFFSET	-10.000	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000	10.000

SURROUND DRIVE

Ch 98.63

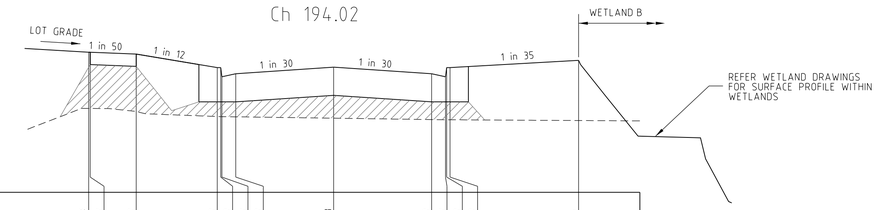


DATUM 34

DESIGN SURFACE LEVEL	36.382	36.381	36.351	36.131	36.131	35.981	36.031	36.137	36.031	35.981	36.131	36.131	36.250
EXISTING SURFACE LEVEL	35.185	35.195	35.427	35.293	35.293	35.293	35.291	35.277	35.264	35.262	35.262	35.262	35.238
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	8.000

SURROUND DRIVE

Ch 194.02

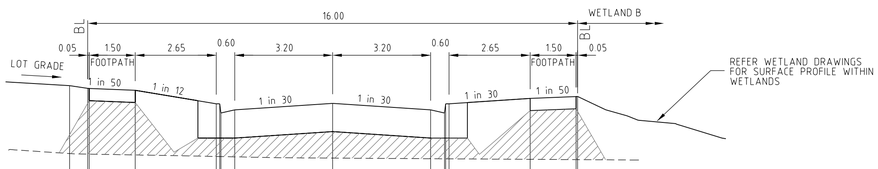


DATUM 34

DESIGN SURFACE LEVEL	36.288	36.287	36.257	36.037	36.037	35.887	35.937	36.043	35.937	35.887	36.037	36.037	36.156
EXISTING SURFACE LEVEL	35.369	35.369	35.318	35.238	35.236	35.236	35.233	35.211	35.188	35.185	35.185	35.185	35.172
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	8.000

SURROUND DRIVE

Ch 175.24



DATUM 34

DESIGN SURFACE LEVEL	36.375	36.330	36.329	36.299	36.079	36.079	35.929	35.979	36.086	35.979	35.929	36.079	36.079	36.167	36.197	36.198
EXISTING SURFACE LEVEL	35.266	35.258	35.257	35.244	35.219	35.218	35.217	35.213	35.192	35.182	35.181	35.181	35.180	35.172	35.167	35.167
OFFSET	-8.591	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

SURROUND DRIVE

Ch 154.51

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	10/10/19
1	SURROUND DRIVE EASTERN FOOTPATH REMOVED	M.L	22/02/19
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale V 1:100, V 1:50,A1
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

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Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 15/06/2018

MAMBOURIN ESTATE
STAGE 2
CROSS SECTIONS - SURROUND DRIVE

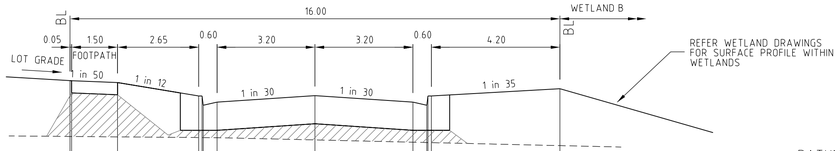
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED

Drg No **303977R09**

Rev **2**

STRUCTURAL FILL

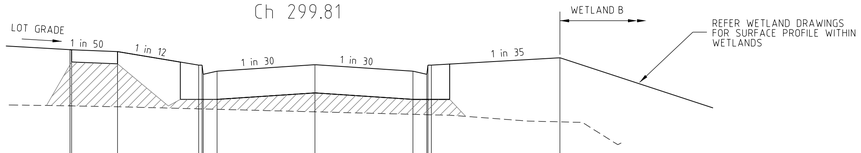


DATUM 35

DESIGN SURFACE LEVEL	36.890	36.889	36.859	36.639	36.639	36.489	36.539	36.646	36.539	36.489	36.639	36.639	36.758
EXISTING SURFACE LEVEL	35.979	35.979	35.972	35.961	35.960	35.960	35.958	35.922	35.885	35.880	35.879	35.878	35.829
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	8.000

SURROUND DRIVE

Ch 299.81

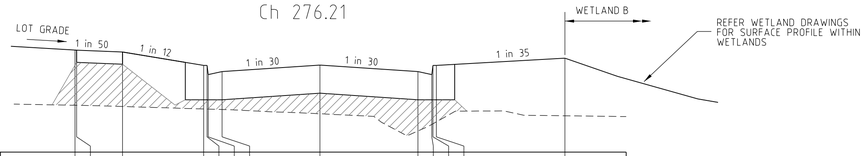


DATUM 34

DESIGN SURFACE LEVEL	36.792	36.791	36.761	36.541	36.541	36.391	36.441	36.548	36.441	36.391	36.541	36.541	36.660
EXISTING SURFACE LEVEL	35.875	35.875	35.861	35.827	35.826	35.825	35.819	35.778	35.737	35.732	35.731	35.730	35.615
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	8.000

SURROUND DRIVE

Ch 276.21

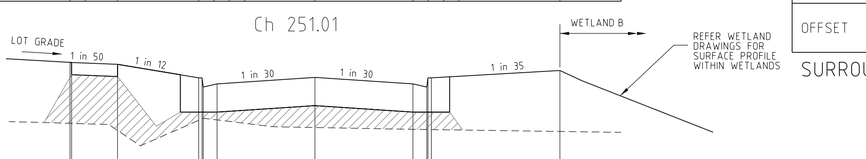


DATUM 35

DESIGN SURFACE LEVEL	36.666	36.665	36.635	36.415	36.415	36.265	36.315	36.422	36.315	36.265	36.415	36.415	36.534
EXISTING SURFACE LEVEL	35.765	35.765	35.745	35.705	35.703	35.702	35.696	35.626	35.346	35.452	35.464	35.495	35.594
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	8.000

SURROUND DRIVE

Ch 251.01

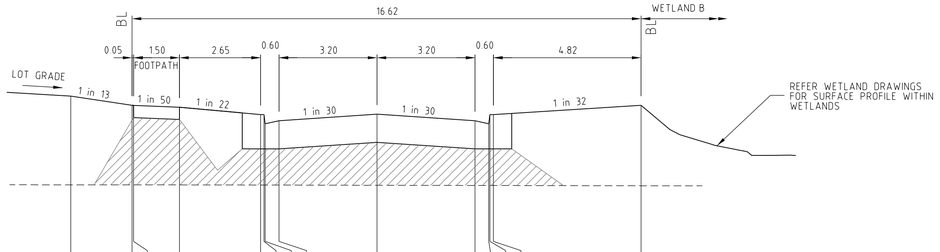


DATUM 34

DESIGN SURFACE LEVEL	36.510	36.509	36.479	36.259	36.259	36.109	36.159	36.266	36.159	36.109	36.259	36.259	36.378
EXISTING SURFACE LEVEL	35.516	35.515	35.401	35.565	35.569	35.598	35.572	35.448	35.418	35.415	35.415	35.414	35.384
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	8.000

SURROUND DRIVE

Ch 219.82

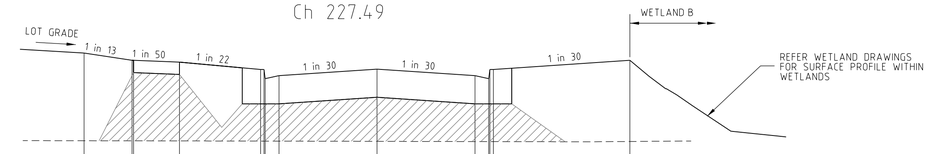


DATUM 34

DESIGN SURFACE LEVEL	36.621	36.471	36.470	36.440	36.320	36.320	36.170	36.220	36.326	36.220	36.170	36.320	36.320	36.471
EXISTING SURFACE LEVEL	35.173	35.173	35.173	35.172	35.169	35.169	35.169	35.169	35.166	35.163	35.162	35.162	35.162	35.158
OFFSET	-10.000	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	8.624

SHOAL CIRCUIT

Ch 227.49

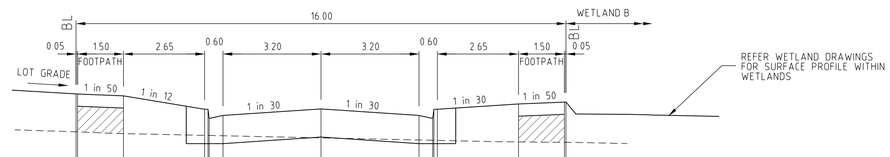


DATUM 34

DESIGN SURFACE LEVEL	36.607	36.490	36.489	36.459	36.339	36.339	36.189	36.239	36.345	36.239	36.189	36.339	36.339	36.490
EXISTING SURFACE LEVEL	35.176	35.174	35.174	35.173	35.170	35.170	35.170	35.170	35.166	35.163	35.162	35.162	35.162	35.164
OFFSET	-9.566	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	8.260

SHOAL CIRCUIT

Ch 223.69

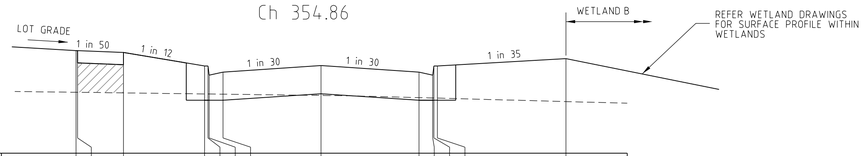


DATUM 35

DESIGN SURFACE LEVEL	36.377	36.376	36.346	36.126	36.126	35.976	36.026	36.133	36.026	35.976	36.126	36.126	36.214	36.244	36.245
EXISTING SURFACE LEVEL	35.759	35.758	35.729	35.701	35.700	35.699	35.694	35.660	35.625	35.620	35.620	35.619	35.594	35.587	35.586
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.450	7.950	8.000

SURROUND DRIVE

Ch 354.86



DATUM 35

DESIGN SURFACE LEVEL	36.676	36.675	36.645	36.425	36.425	36.275	36.325	36.431	36.325	36.275	36.425	36.425	36.544
EXISTING SURFACE LEVEL	35.995	35.995	35.985	35.968	35.967	35.967	35.964	35.943	35.908	35.902	35.901	35.900	35.843
OFFSET	-8.000	-7.950	-6.450	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	8.000

SURROUND DRIVE

Ch 325.01

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	10/10/19
1	SURROUND DRIVE & SHOAL CIRCUIT EASTERN FOOTPATH REMOVED	M.L	22/02/19
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale V 1:100, V 1:50, A1
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 15/06/2018

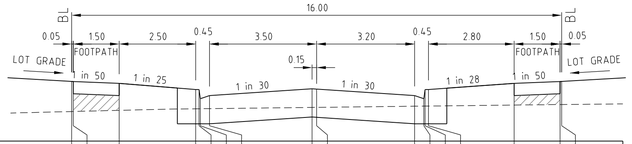
MAMBOURIN ESTATE
STAGE 2
CROSS SECTIONS - SURROUND DRIVE & SHOAL CIRCUIT

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED

Drg No **303977R10**
Rev **2**

STRUCTURAL FILL

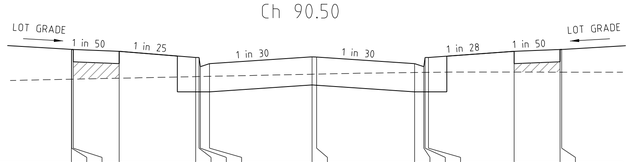


DATUM 36

DESIGN SURFACE LEVEL	36.973	36.972	36.942	36.842	36.842	36.692	36.742	36.856	36.849	36.742	36.692	36.842	36.842	36.942	36.972	36.973
EXISTING SURFACE LEVEL	36.482	36.483	36.501	36.527	36.528	36.528	36.530	36.549	36.550	36.569	36.571	36.571	36.572	36.588	36.596	36.596
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.840	-3.800	-3.500	-0.150	0.000	3.200	3.500	3.540	3.650	6.450	7.950	8.000

SHALLOW STREET

Ch 90.50

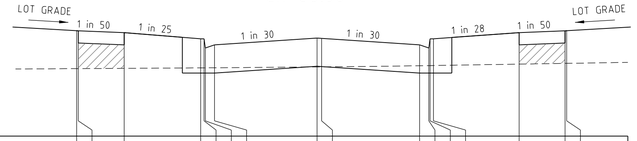


DATUM 35

DESIGN SURFACE LEVEL	36.862	36.861	36.860	36.830	36.730	36.730	36.580	36.630	36.741	36.736	36.630	36.580	36.730	36.730	36.830	36.860	36.861
EXISTING SURFACE LEVEL	36.375	36.375	36.376	36.391	36.417	36.418	36.419	36.422	36.457	36.458	36.484	36.486	36.486	36.487	36.491	36.490	36.490
OFFSET	-8.009	-8.000	-7.950	-6.450	-3.950	-3.840	-3.800	-3.500	-0.150	0.000	3.200	3.500	3.540	3.650	6.450	7.950	8.000

SHALLOW STREET

Ch 68.00

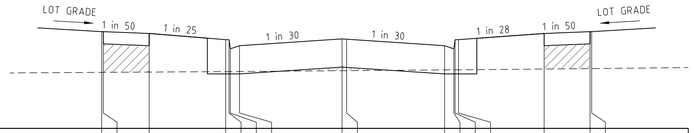


DATUM 35

DESIGN SURFACE LEVEL	36.720	36.719	36.689	36.589	36.589	36.439	36.489	36.601	36.596	36.489	36.439	36.589	36.589	36.689	36.719	36.720
EXISTING SURFACE LEVEL	36.102	36.102	36.107	36.114	36.115	36.115	36.116	36.130	36.131	36.149	36.152	36.152	36.153	36.176	36.188	36.188
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.840	-3.800	-3.500	-0.150	0.000	3.200	3.500	3.540	3.650	6.450	7.950	8.000

SHALLOW STREET

Ch 40.00

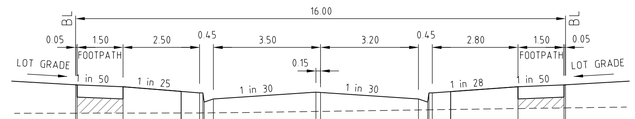


DATUM 35

DESIGN SURFACE LEVEL	36.579	36.578	36.548	36.448	36.448	36.298	36.348	36.460	36.455	36.348	36.298	36.448	36.448	36.548	36.578	36.579
EXISTING SURFACE LEVEL	35.914	35.914	35.919	35.926	35.926	35.927	35.928	35.941	35.942	35.954	35.956	35.956	35.956	35.968	35.976	35.976
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.840	-3.800	-3.500	-0.150	0.000	3.200	3.500	3.540	3.650	6.450	7.950	8.000

SHALLOW STREET

Ch 11.80

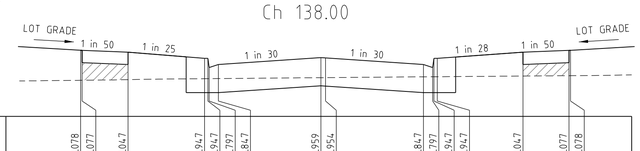


DATUM 36

DESIGN SURFACE LEVEL	37.211	37.210	37.180	37.080	37.080	36.930	36.980	37.091	37.086	36.980	36.930	37.080	37.080	37.180	37.210	37.211
EXISTING SURFACE LEVEL	36.748	36.748	36.749	36.752	36.752	36.752	36.754	36.776	36.777	36.801	36.803	36.803	36.804	36.824	36.834	36.834
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.840	-3.800	-3.500	-0.150	0.000	3.200	3.500	3.540	3.650	6.450	7.950	8.000

SHALLOW STREET

Ch 138.00



DATUM 36

DESIGN SURFACE LEVEL	37.078	37.077	37.047	36.947	36.947	36.797	36.847	36.959	36.954	36.847	36.797	36.947	36.947	37.047	37.077	37.078
EXISTING SURFACE LEVEL	36.589	36.589	36.599	36.615	36.615	36.615	36.617	36.631	36.632	36.645	36.647	36.647	36.647	36.658	36.664	36.664
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.840	-3.800	-3.500	-0.150	0.000	3.200	3.500	3.540	3.650	6.450	7.950	8.000

SHALLOW STREET

Ch 111.50

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	10/10/19
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale V 1:100, V 150,A1
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 15/06/2018

MAMBOURIN ESTATE
STAGE 2
CROSS SECTIONS - SHALLOW STREET

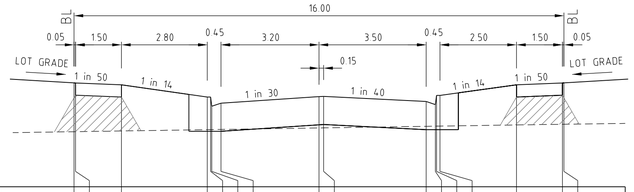
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED

Drg No **303977R11**

Rev **1**

STRUCTURAL FILL

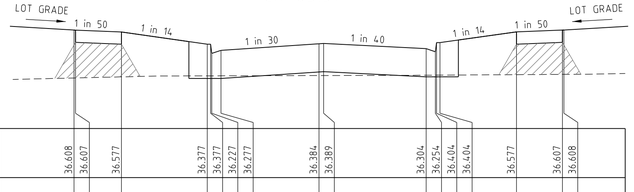


DATUM 35

DESIGN SURFACE LEVEL	36.695	36.694	36.664	36.464	36.464	36.314	36.364	36.471	36.476	36.391	36.341	36.491	36.491	36.664	36.694	36.695
EXISTING SURFACE LEVEL	35.898	35.899	35.910	35.932	35.932	35.933	35.935	35.960	35.961	35.986	35.989	35.989	35.990	36.009	36.019	36.020
OFFSET	-8.000	-7.950	-6.450	-3.650	-3.540	-3.500	-3.200	0.000	0.150	3.500	3.800	3.840	3.950	6.450	7.950	8.000

SEDGE STREET

Ch 83.57

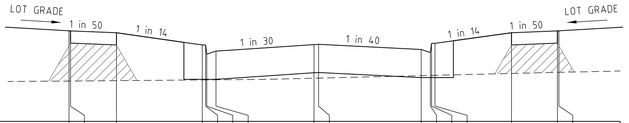


DATUM 35

DESIGN SURFACE LEVEL	36.608	36.607	36.577	36.377	36.377	36.227	36.277	36.384	36.389	36.304	36.254	36.404	36.404	36.577	36.607	36.608
EXISTING SURFACE LEVEL	35.825	35.826	35.843	35.860	35.860	35.860	35.861	35.865	35.865	35.871	35.872	35.872	35.872	35.880	35.884	35.884
OFFSET	-8.000	-7.950	-6.450	-3.650	-3.540	-3.500	-3.200	0.000	0.150	3.500	3.800	3.840	3.950	6.450	7.950	8.000

SEDGE STREET

Ch 66.18

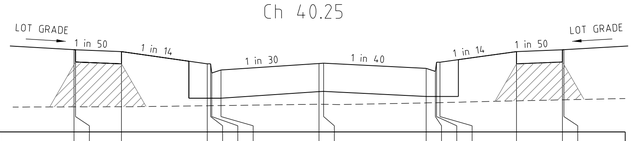


DATUM 35

DESIGN SURFACE LEVEL	36.479	36.478	36.448	36.248	36.248	36.098	36.148	36.254	36.259	36.175	36.125	36.275	36.275	36.448	36.478	36.479
EXISTING SURFACE LEVEL	35.659	35.659	35.665	35.678	35.678	35.678	35.680	35.706	35.707	35.747	35.751	35.752	35.753	35.783	35.801	35.801
OFFSET	-8.000	-7.950	-6.450	-3.650	-3.540	-3.500	-3.200	0.000	0.150	3.500	3.800	3.840	3.950	6.450	7.950	8.000

SEDGE STREET

Ch 40.25

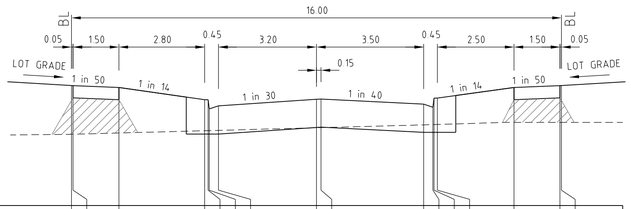


DATUM 35

DESIGN SURFACE LEVEL	36.342	36.341	36.311	36.111	36.111	35.961	36.011	36.117	36.172	36.038	35.988	36.138	36.138	36.311	36.341	36.342
EXISTING SURFACE LEVEL	35.409	35.409	35.411	35.427	35.428	35.428	35.430	35.451	35.450	35.474	35.476	35.477	35.478	35.507	35.523	35.524
OFFSET	-8.000	-7.950	-6.450	-3.650	-3.540	-3.500	-3.200	0.000	0.150	3.500	3.800	3.840	3.950	6.450	7.950	8.000

SEDGE STREET

Ch 12.88

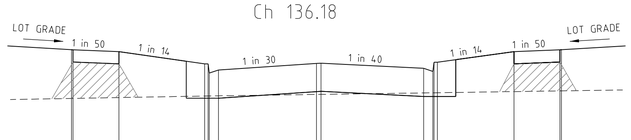


DATUM 35

DESIGN SURFACE LEVEL	36.958	36.957	36.927	36.727	36.722	36.577	36.627	36.734	36.739	36.654	36.604	36.754	36.754	36.927	36.957	36.958
EXISTING SURFACE LEVEL	36.163	36.164	36.184	36.221	36.222	36.223	36.227	36.269	36.271	36.317	36.321	36.322	36.323	36.356	36.356	36.356
OFFSET	-8.000	-7.950	-6.450	-3.650	-3.540	-3.500	-3.200	0.000	0.150	3.500	3.800	3.840	3.950	6.450	7.950	8.000

SEDGE STREET

Ch 136.18



DATUM 35

DESIGN SURFACE LEVEL	36.815	36.814	36.784	36.584	36.584	36.434	36.484	36.591	36.596	36.511	36.461	36.611	36.611	36.784	36.814	36.815
EXISTING SURFACE LEVEL	36.020	36.020	36.034	36.059	36.060	36.060	36.063	36.085	36.086	36.110	36.112	36.112	36.113	36.131	36.143	36.143
OFFSET	-8.000	-7.950	-6.450	-3.650	-3.540	-3.500	-3.200	0.000	0.150	3.500	3.800	3.840	3.950	6.450	7.950	8.000

SEDGE STREET

Ch 107.56

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	10/10/19
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale V 1:100, V 1:50,A1
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

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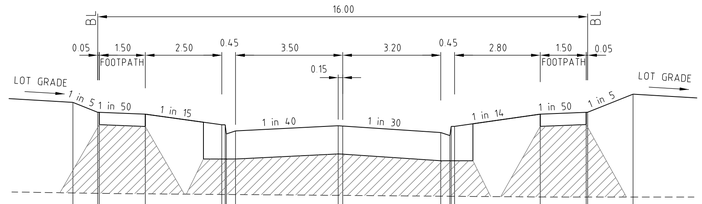
Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 15/06/2018

MAMBOURIN ESTATE
STAGE 2
CROSS SECTIONS - SEDGE STREET

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No **303977R12** Rev **1**

STRUCTURAL FILL

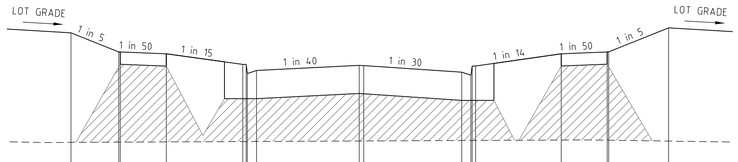


DATUM 35

DESIGN SURFACE LEVEL	37.094	36.931	36.930	36.900	36.728	36.728	36.578	36.628	36.712	36.707	36.601	36.551	36.701	36.701	36.901	36.931	36.932	37.228
EXISTING SURFACE LEVEL	35.615	35.608	35.608	35.600	35.590	35.590	35.590	35.589	35.575	35.575	35.562	35.561	35.561	35.560	35.549	35.548	35.548	35.548
OFFSET	-8.814	-8.000	-7.950	-6.450	-3.950	-3.840	-3.800	-3.500	-0.150	0.000	3.200	3.500	3.540	3.650	6.450	7.950	8.000	9.479

BRANCH STREET

Ch 76.86

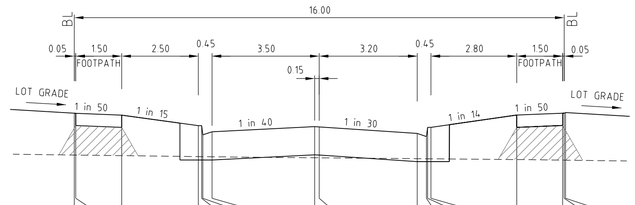


DATUM 35

DESIGN SURFACE LEVEL	37.388	37.076	37.075	37.045	36.873	36.873	36.723	36.773	36.857	36.852	36.746	36.696	36.846	36.846	37.046	37.076	37.077	37.408
EXISTING SURFACE LEVEL	35.600	35.603	35.603	35.607	35.613	35.613	35.613	35.614	35.622	35.622	35.630	35.631	35.631	35.631	35.638	35.635	35.635	35.621
OFFSET	-9.560	-8.000	-7.950	-6.450	-3.950	-3.840	-3.800	-3.500	-0.150	0.000	3.200	3.500	3.540	3.650	6.450	7.950	8.000	9.957

BRANCH STREET

Ch 47.87

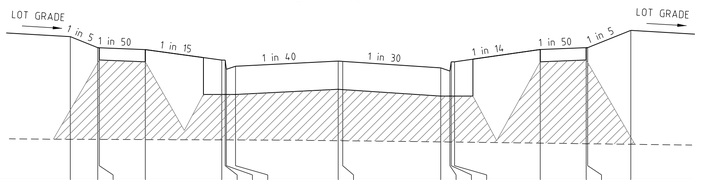


DATUM 35

DESIGN SURFACE LEVEL	36.638	36.637	36.607	36.435	36.435	36.285	36.335	36.419	36.414	36.308	36.258	36.408	36.408	36.608	36.638	36.639	36.648
EXISTING SURFACE LEVEL	35.955	35.955	35.945	35.930	35.929	35.929	35.927	35.911	35.910	35.896	35.895	35.894	35.894	35.881	35.872	35.872	35.871
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.840	-3.800	-3.500	-0.150	0.000	3.200	3.500	3.540	3.650	6.450	7.950	8.000	8.046

BRANCH STREET

Ch 135.45

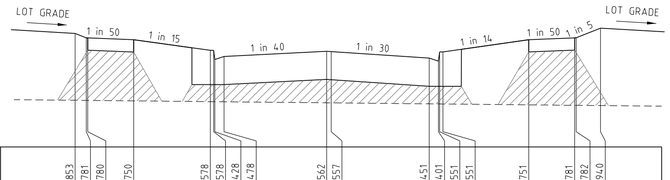


DATUM 35

DESIGN SURFACE LEVEL	37.355	37.176	37.175	37.145	36.973	36.973	36.823	36.873	36.957	36.952	36.846	36.796	36.946	36.946	37.146	37.176	37.177	37.458
EXISTING SURFACE LEVEL	35.680	35.678	35.678	35.675	35.670	35.670	35.670	35.670	35.657	35.656	35.638	35.636	35.636	35.635	35.618	35.608	35.608	35.599
OFFSET	-8.898	-8.000	-7.950	-6.450	-3.950	-3.840	-3.800	-3.500	-0.150	0.000	3.200	3.500	3.540	3.650	6.450	7.950	8.000	9.406

BRANCH STREET

Ch 27.92



DATUM 35

DESIGN SURFACE LEVEL	36.853	36.781	36.780	36.750	36.578	36.578	36.428	36.478	36.562	36.557	36.451	36.401	36.551	36.551	36.751	36.781	36.782	36.940
EXISTING SURFACE LEVEL	35.762	35.760	35.760	35.752	35.740	35.739	35.739	35.738	35.721	35.720	35.704	35.702	35.702	35.702	35.688	35.680	35.680	35.676
OFFSET	-8.362	-8.000	-7.950	-6.450	-3.950	-3.840	-3.800	-3.500	-0.150	0.000	3.200	3.500	3.540	3.650	6.450	7.950	8.000	8.792

BRANCH STREET

Ch 106.86

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	10/10/19
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale V 1:100, V 1:50,A1
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

dlcs AS/NZS ISO 9001 certified

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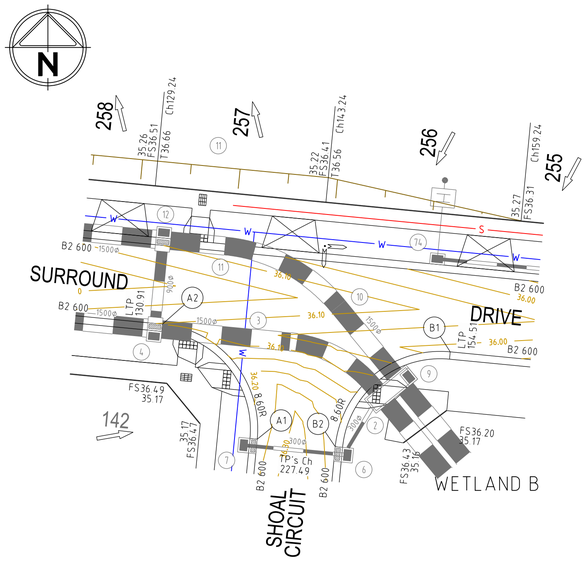
FRASERS PROPERTY

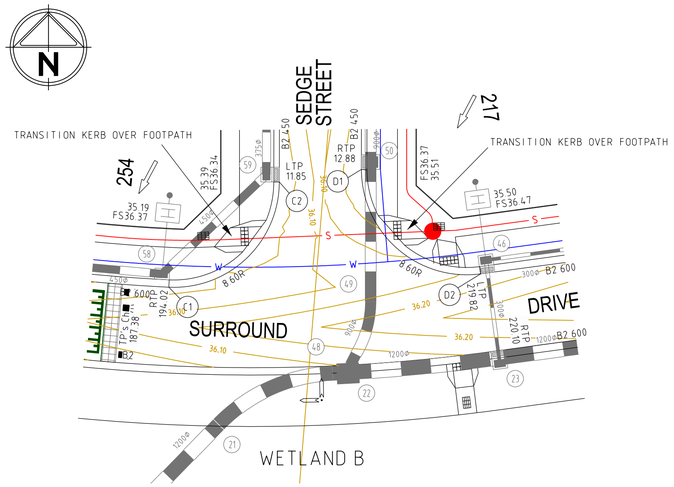
Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 15/06/2018

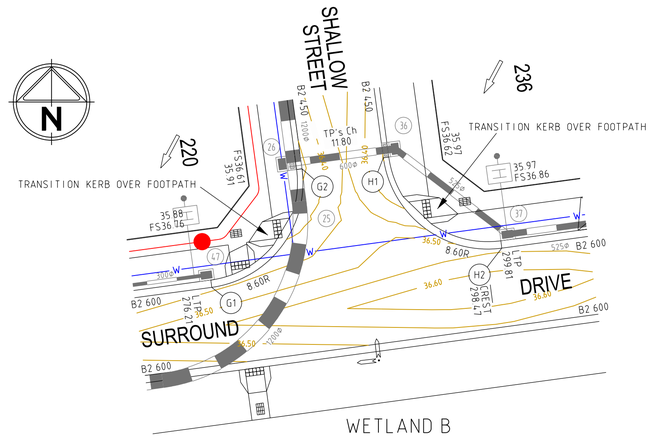
MAMBOURIN ESTATE
STAGE 2
CROSS SECTIONS - BRANCH STREET

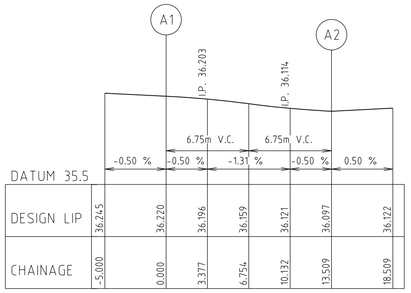
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No **303977R13** Rev **1**







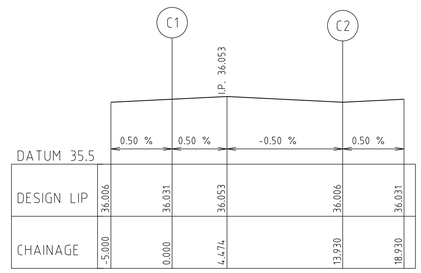


ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	288287.834	5803140.724	36.220
1/4	288287.498	5803144.063	36.196
1/2	288285.910	5803147.019	36.159
3/4	288283.311	5803149.142	36.121
A2	288280.098	5803150.109	36.097

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1-A2	8.600	13.509	12.162	2.519	-0.655

LIP LINE A
Hor250
Ver25

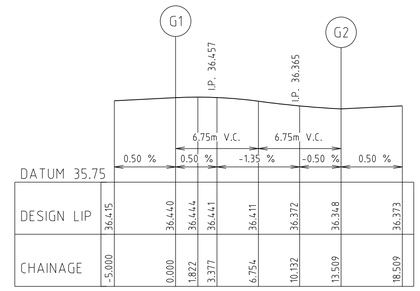


ALIGNMENT C

POINT NO	EASTING	NORTHING	RL
C1	288343.397	5803150.593	36.031
1/4	288346.816	5803151.121	36.048
1/2	288349.749	5803152.953	36.040
3/4	288351.724	5803155.792	36.023
C2	288352.421	5803159.180	36.006

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
C1-C2	8.600	13.930	12.456	2.670	-0.696

LIP LINE C
Hor250
Ver25

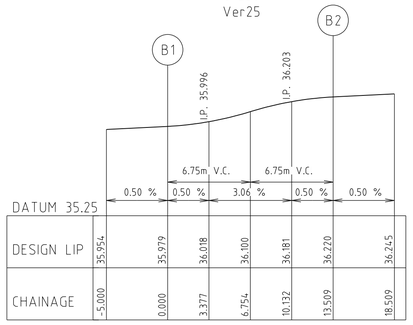


ALIGNMENT G

POINT NO	EASTING	NORTHING	RL
G1	288424.137	5803159.153	36.440
1/4	288427.311	5803160.243	36.441
1/2	288429.826	5803162.464	36.411
3/4	288431.300	5803165.479	36.372
G2	288431.508	5803168.828	36.348

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
G1-G2	8.600	13.509	12.162	2.519	-0.655

LIP LINE G
Hor250
Ver25

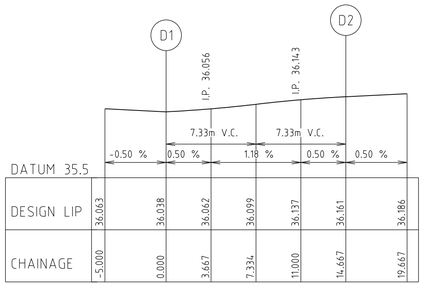


ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	288303.590	5803147.846	35.979
1/4	288300.251	5803147.510	36.018
1/2	288297.295	5803145.922	36.100
3/4	288295.172	5803143.323	36.181
B2	288294.205	5803140.110	36.220

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B1-B2	8.600	13.509	12.162	2.519	-0.655

LIP LINE B
Hor250
Ver25

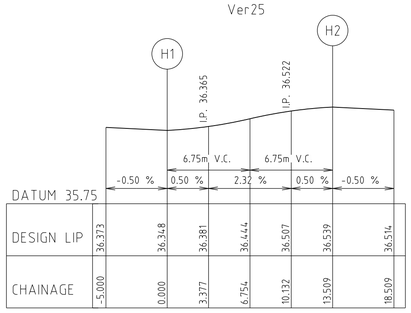


ALIGNMENT D

POINT NO	EASTING	NORTHING	RL
D1	288359.121	5803160.207	36.038
1/4	288359.890	5803156.650	36.062
1/2	288362.061	5803153.729	36.099
3/4	288365.246	5803151.968	36.137
D2	288368.873	5803151.682	36.161

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D1-D2	8.600	14.667	12.953	2.942	-0.770

LIP LINE D
Hor250
Ver25

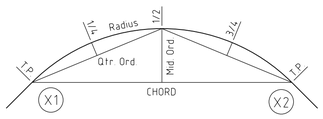


ALIGNMENT H

POINT NO	EASTING	NORTHING	RL
H1	288438.147	5803169.725	36.348
1/4	288439.237	5803166.552	36.382
1/2	288441.458	5803164.036	36.449
3/4	288444.473	5803162.563	36.517
H2	288447.822	5803162.355	36.539

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
H1-H2	8.600	13.509	12.162	2.519	-0.655

LIP LINE H
Hor250
Ver25



KERB RETURN SETOUT DETAIL

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	10/10/19
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale H 1:250, V 1:25, A1
Horizontal 0 2.5 5 7.5 10 12.5
Vertical 0 0.25 0.5 0.75 1.0 1.25

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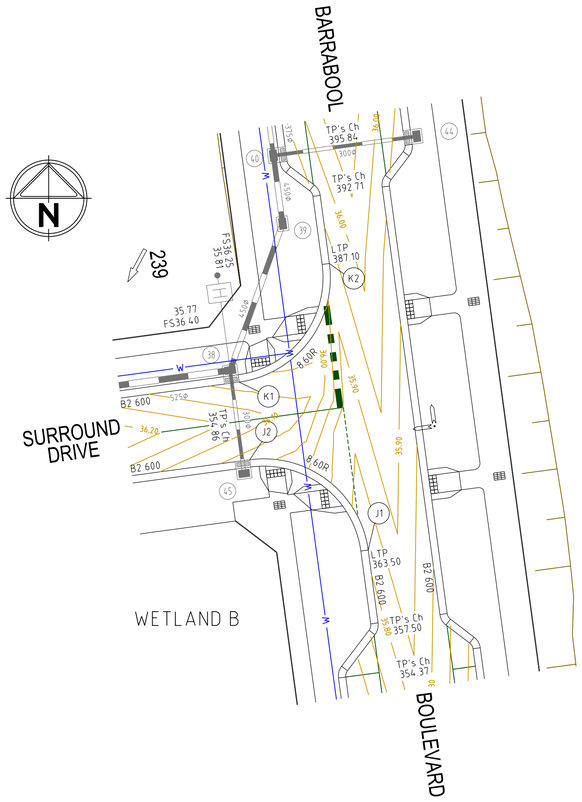
FRASERS PROPERTY

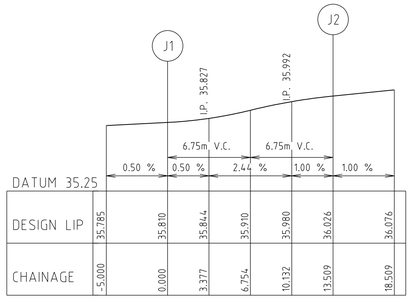
Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 15/06/2018

MAMBOURIN ESTATE
STAGE 2
INTERSECTION DETAILS
SHEET 1 OF 2

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303977R14**
Rev **1**



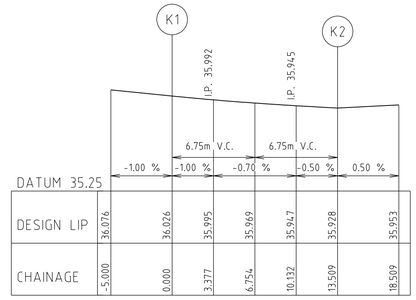


LIP LINE J
Hor250
Ver25

ALIGNMENT J

POINT NO	EASTING	NORTHING	RL
J1	288512.908	5803156.018	35.810
1/4	288511.818	5803159.191	35.840
1/2	288509.597	5803161.706	35.897
3/4	288506.582	5803163.180	35.957
J2	288503.233	5803163.388	36.026

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

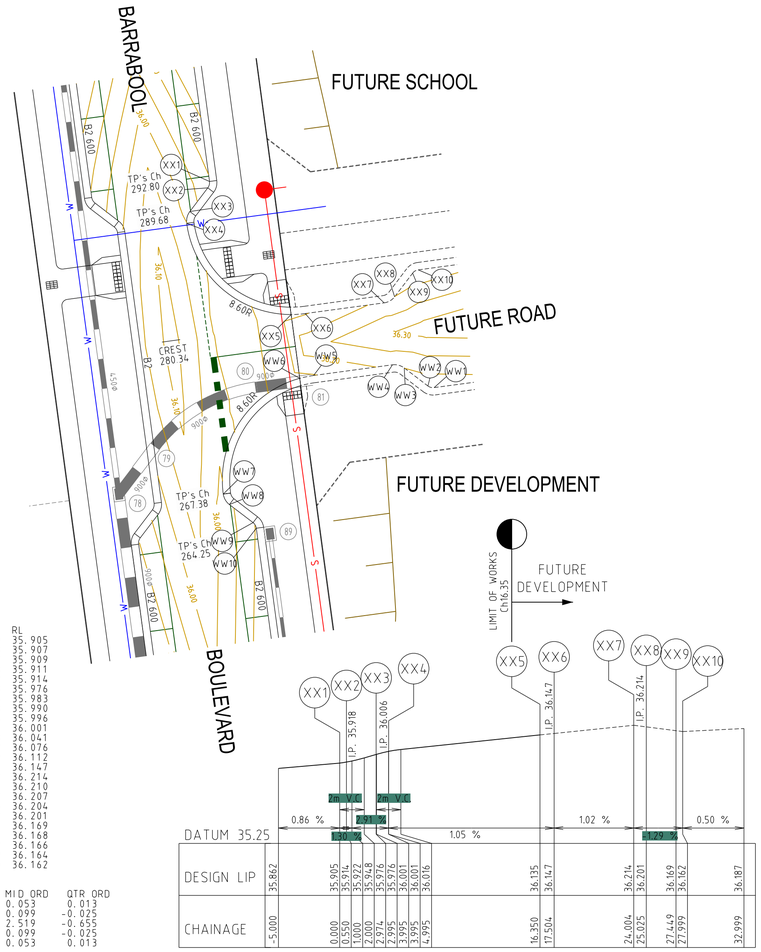


LIP LINE K
Hor250
Ver25

ALIGNMENT K

POINT NO	EASTING	NORTHING	RL
K1	288502.376	5803169.730	36.026
1/4	288505.549	5803170.820	35.983
1/2	288508.064	5803173.041	35.964
3/4	288509.538	5803176.056	35.946
K2	288509.746	5803179.405	35.928

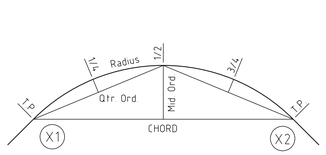
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
K1-K2	8.600	13.509	12.162	2.519	-0.655



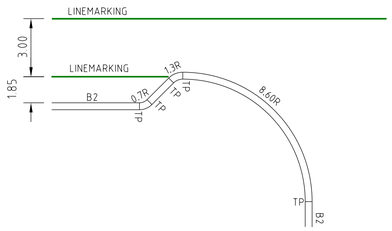
ALIGNMENT XX

POINT NO	EASTING	NORTHING	RL
XX1	288529.712	5803086.950	35.905
1/4	288529.717	5803086.813	35.907
1/2	288529.695	5803086.677	35.909
3/4	288529.648	5803086.548	35.911
XX2	288529.575	5803086.432	35.914
XX3	288528.106	5803084.503	35.976
1/4	288527.973	5803084.286	35.983
1/2	288527.884	5803084.048	35.990
3/4	288527.843	5803083.796	35.996
XX4	288527.852	5803083.541	36.001
1/4	288528.942	5803080.368	36.041
1/2	288531.163	5803077.852	36.076
3/4	288534.178	5803076.379	36.112
XX6	288537.527	5803076.171	36.147
XX7	288543.968	5803077.042	36.214
1/4	288544.216	5803077.101	36.210
1/2	288544.448	5803077.207	36.207
3/4	288544.655	5803077.356	36.204
XX8	288544.828	5803077.542	36.201
XX9	288546.297	5803079.471	36.169
1/4	288546.391	5803079.571	36.168
1/2	288546.502	5803079.652	36.166
3/4	288546.627	5803079.709	36.164
XX10	288546.760	5803079.740	36.162

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
XX1-XX2	0.700	0.550	0.536	0.053	0.013
XX3-XX4	1.300	1.021	0.995	0.099	-0.025
XX4-XX6	8.600	13.509	12.162	2.519	-0.655
XX7-XX8	1.300	1.021	0.995	0.099	-0.025
XX9-XX10	0.700	0.550	0.536	0.053	0.013

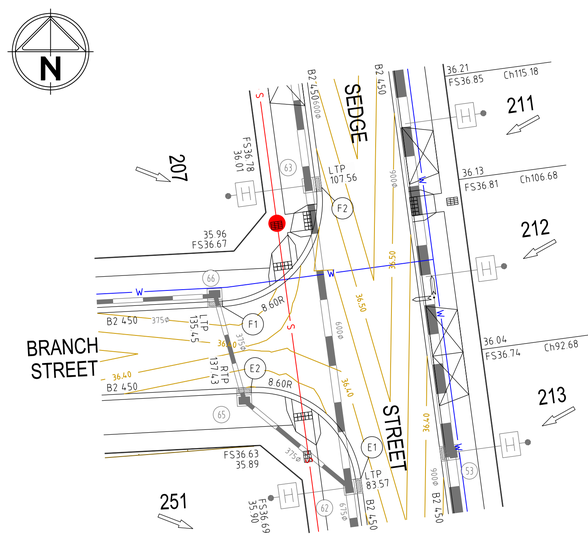


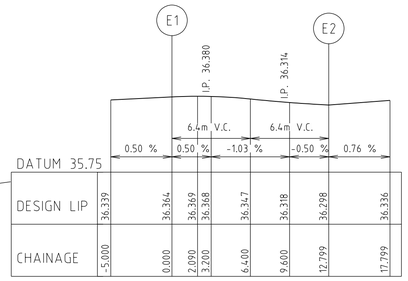
KERB RETURN SETOUT DETAIL



TYPICAL KERB INDENT DETAIL
N.T.S

LIP LINE XX
Hor250
Ver25



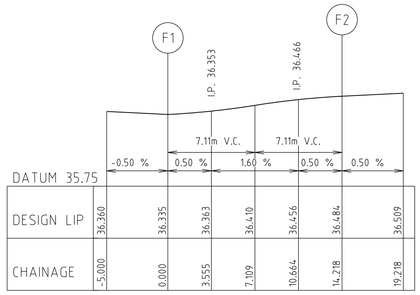


LIP LINE E
Hor250
Ver25

ALIGNMENT E

POINT NO	EASTING	NORTHING	RL
E1	288346.831	5803230.134	36.364
1/4	288345.829	5803233.153	36.368
1/2	288343.798	5803235.602	36.347
3/4	288341.015	5803237.145	36.318
E2	288337.862	5803237.570	36.298

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
E1-E2	8.600	12.799	11.650	2.273	-0.588

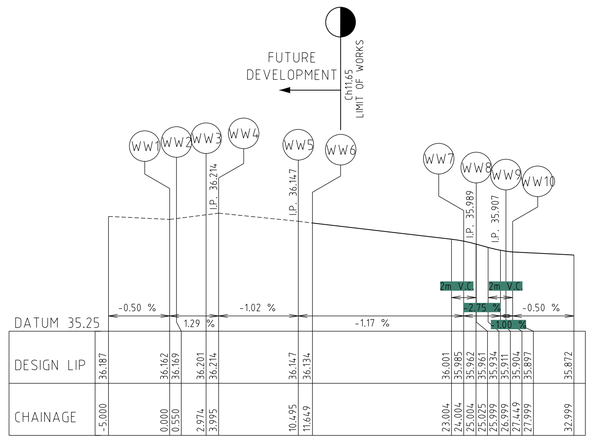


LIP LINE F
Hor250
Ver25

ALIGNMENT F

POINT NO	EASTING	NORTHING	RL
F1	288335.541	5803244.159	36.335
1/4	288338.953	5803245.061	36.363
1/2	288341.716	5803247.258	36.410
3/4	288343.363	5803250.379	36.456
F2	288343.618	5803253.899	36.484

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
F1-F2	8.600	14.218	12.653	2.775	-0.724



LIP LINE WW
Hor250
Ver25

ALIGNMENT WW

POINT NO	EASTING	NORTHING	RL
WW1	288548.060	5803070.128	36.162
1/4	288547.923	5803070.123	36.164
1/2	288547.787	5803070.165	36.166
3/4	288547.659	5803070.192	36.168
WW2	288547.542	5803070.265	36.169
WW3	288545.613	5803071.734	36.201
1/4	288545.397	5803071.867	36.204
1/2	288545.158	5803071.956	36.207
3/4	288544.906	5803071.997	36.210
WW4	288544.651	5803071.988	36.214
WW6	288538.210	5803071.117	36.147
1/4	288535.036	5803070.027	36.108
1/2	288532.521	5803067.806	36.068
3/4	288531.048	5803064.791	36.029
WW7	288530.840	5803061.442	35.985
1/4	288530.899	5803061.194	35.980
1/2	288531.004	5803060.963	35.974
3/4	288531.154	5803060.756	35.968
WW8	288531.340	5803060.582	35.961
WW9	288533.269	5803059.113	35.904
1/4	288533.369	5803059.020	35.902
1/2	288533.449	5803058.909	35.900
3/4	288533.507	5803058.784	35.898
WW10	288533.538	5803058.650	35.897

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
WW1-WW2	0.700	0.550	0.536	0.053	0.013
WW3-WW4	1.300	1.021	0.995	0.099	-0.025
WW6-WW7	8.600	13.509	12.162	2.519	-0.655
WW7-WW8	1.300	1.021	0.995	0.099	-0.025
WW9-WW10	0.700	0.550	0.536	0.053	0.013

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	10/10/19
1	INTERSECTION TO SCHOOL ADDED, FINISHED SURFACE CONTOURS UPDATED,	M.L	22/02/19
	LIP PROFILES WW & XX ADDED		
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale H 1:250, V 1:25, A1
Horizontal 0 2.5 5 7.5 10 12.5
Vertical 0 0.25 0.5 0.75 1.0 1.25

dlcs AS/NZS ISO 9001 certified AS/NZS 3500 certified AS/NZS ISO 14001 certified

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FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 15/06/2018

MAMBOURIN ESTATE
STAGE 2
INTERSECTION DETAILS
SHEET 2 OF 2

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

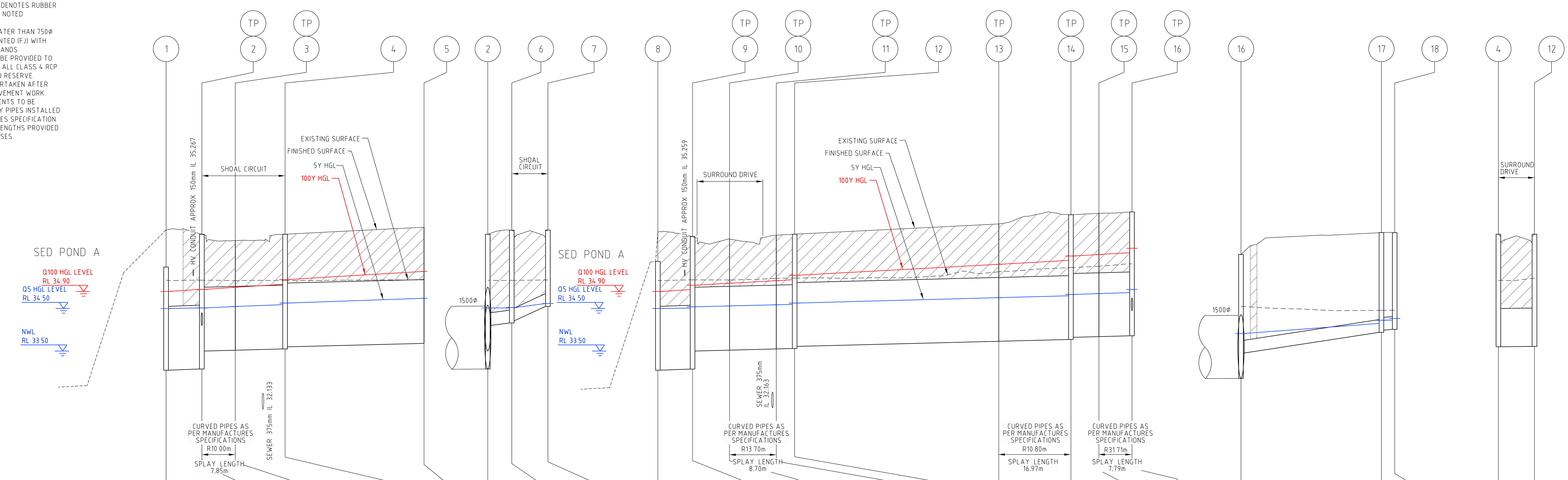
AS CONSTRUCTED
Drg No **303977R15**
Rev **2**

CRUSHED ROCK BACKFILL LEGEND

CLASS 2 CRUSHED ROCK

CLASS 3 CRUSHED ROCK

NOTE:
1. ALL PIPES TO BE RRJ DENOTES RUBBER RING JOINTED UNLESS NOTED OTHERWISE.
2. DRAINAGE PIPES GREATER THAN 750Ø ARE TO BE FLUSH JOINTED (FJ) WITH EXTERNAL SEALING BANDS.
3. CCTV FOOTAGE IS TO BE PROVIDED TO WCC FOR REVIEW FOR ALL CLASS 4 RCP PIPES WITH THE ROAD RESERVE. CCTV SHALL BE UNDERTAKEN AFTER BACKFILLING AND PAVEMENT WORK.
4. CURVED PIPE ALIGNMENTS TO BE ACHIVED USING SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION. RADIUS AND SPLAY LENGTHS PROVIDED FOR ORDERING PURPOSES.



Long section: Pits 1 – 2 – 3 – 4 – 5 (DATUM R.L. 28.00)

	Pit 1	1–2	2–3	3–4	4–5
Pipe Diameter		CLASS 2 1500ØFJ	CLASS 4 1500ØFJ	CLASS 4 1500ØFJ	CLASS 3 1500ØFJ
Pipe Grade		1 in 300	1 in 401	1 in 400	1 in 400
Vf (m/s)		Vf=2.469	Vf=2.134	Vf=2.136	Vf=2.136
5YR Qactual (m3/s)		Qa=3.289	Qa=3.285	Qa=3.290	Qa=3.303
Qfull (m3/s)		Qf=4.364	Qf=3.771	Qf=3.775	Qf=3.775
100YR Qactual (m3/s)		Qa=5.781	Qa=5.777	Qa=5.782	Qa=5.795
DEPTH TO INVERT	2.425	2.425 / 3.165	2.743 / 2.575	2.575 / 2.697	2.647 / 2.729
DESIGN INVERT LEVEL	33.050	33.050 / 33.078	33.500 / 33.520	33.520 / 33.549	33.599 / 33.681
Q5 HYDRAULIC GRADE LEVEL	34.500	34.512	34.546	34.590	34.627 / 34.740
Q100 HYDRAULIC GRADE LEVEL	34.900	34.949	34.999	35.069	35.180 / 35.372
FINISHED SURFACE LEVEL	35.475	36.243	36.095	36.246	36.410
EXISTING SURFACE LEVEL	35.161	35.165	35.158	35.159	35.173
CHAINAGE	0.000	L=8.420m 8.420	L=7.854m 16.274	L=11.719m 27.992	L=32.674m 60.667

Long section: Pits 2 – 6 – 7 (DATUM 28.00)

	Pit 2	2–6	6–7	(Pit 7)
Pipe Diameter		CLASS 2 300Ø	CLASS 2 300Ø	
Pipe Grade		1 in 94	1 in 25	
Vf (m/s)		Vf=1.620	Vf=3.155	
Qactual (m3/s)		Qa=0.017	Qa=0.008	
Qfull (m3/s)		Qf=0.114	Qf=0.223	
DEPTH TO INVERT	3.165	2.143 / 2.181	2.131 / 1.793	
DESIGN INVERT LEVEL	33.078	34.100 / 34.160	34.210 / 34.550	
Q5 HYDRAULIC GRADE LEVEL	34.512	34.514	34.522 / 34.617	34.617
Q100 HYDRAULIC GRADE LEVEL				
FINISHED SURFACE LEVEL	36.243	36.341	36.343	
EXISTING SURFACE LEVEL	35.165	35.162	35.171	
CHAINAGE	0.000	L=5.643m 5.643	L=8.500m 14.143	

Long section: Pits 8 – 9 – 10 – 11 – 12 – 13 – 14 – 15 – 16 (DATUM 28.00)

	Pit 8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	(Pit 16)
Pipe Diameter		CLASS 2 1500ØFJ	CLASS 4 1500ØFJ	CLASS 4 1500ØFJ	CLASS 4 1500ØFJ	CLASS 3 1500ØFJ	CLASS 3 1500ØFJ	CLASS 2 1500ØFJ	CLASS 2 1500ØFJ	
Pipe Grade		1 in 300	1 in 400	1 in 400	1 in 400	1 in 400	1 in 400	1 in 400	1 in 400	
Vf (m/s)		Vf=2.469	Vf=2.136	Vf=2.136	Vf=2.136	Vf=2.136	Vf=2.136	Vf=2.137	Vf=2.136	
5YR Qactual (m3/s)		Qa=3.028	Qa=3.028	Qa=3.033	Qa=3.034	Qa=3.052	Qa=3.059	Qa=3.059	Qa=3.062	
Qfull (m3/s)		Qf=4.364	Qf=3.775	Qf=3.775	Qf=3.775	Qf=3.775	Qf=3.775	Qf=3.776	Qf=3.775	
100YR Qactual (m3/s)		Qa=5.534	Qa=5.534	Qa=5.539	Qa=5.540	Qa=5.558	Qa=5.565	Qa=5.565	Qa=5.568	
DEPTH TO INVERT	2.558	2.558 / 3.110	2.687 / 2.609	2.609 / 2.674	2.674 / 2.686	2.636 / 2.756	2.756 / 2.930	2.880 / 2.896	2.896 / 2.911	
DESIGN INVERT LEVEL	33.050	33.050 / 33.077	33.500 / 33.522	33.522 / 33.549	33.549 / 33.560	33.610 / 33.730	33.730 / 33.772	33.822 / 33.839	33.839 / 33.858	
Q5 HYDRAULIC GRADE LEVEL	34.500	34.510	34.542 / 34.562	34.587	34.597	34.629 / 34.755	34.799	34.831 / 34.851	34.873	34.950
Q100 HYDRAULIC GRADE LEVEL	34.900	34.944	35.048 / 35.094	35.153	35.176	35.280 / 35.539	35.631	35.735 / 35.770	35.812	35.916
FINISHED SURFACE LEVEL	35.608	36.187	36.131	36.223	36.246	36.486	36.702	36.735	36.770	
EXISTING SURFACE LEVEL	35.156	35.172	35.171	35.208	35.216	35.364	35.461	35.494	35.549	
CHAINAGE	0.000	L=8.165m 8.165	L=8.698m 16.863	L=10.996m 27.859	L=4.319m 32.177	L=48.021m 80.198	L=16.965m 97.163	L=6.575m 103.738	L=7.786m 111.524	

Long section: Pits 16 – 17 – 18 (DATUM 29.00)

	Pit 16	16–17	17–18	(Pit 18)
Pipe Diameter		CLASS 2 300Ø	CLASS 2 300Ø	
Pipe Grade		1 in 67	1 in 156	
Vf (m/s)		Vf=1.916	Vf=1.255	
Qactual (m3/s)		Qa=0.072	Qa=0.053	
Qfull (m3/s)		Qf=0.135	Qf=0.089	
DEPTH TO INVERT	2.911	2.320 / 2.342	2.292 / 2.270	
DESIGN INVERT LEVEL	33.858	34.450 / 34.940	34.990 / 35.010	
Q5 HYDRAULIC GRADE LEVEL	34.873	34.911 / 35.149	35.225 / 35.226	35.267
Q100 HYDRAULIC GRADE LEVEL				
FINISHED SURFACE LEVEL	36.770	37.282	37.280	
EXISTING SURFACE LEVEL	35.549	35.458	35.461	
CHAINAGE	0.000	L=33.033m 33.033	L=3.119m 36.153	

Long section: Pits 4 – 12 (DATUM 28.00)

	Pit 4	4–12
Pipe Diameter		CLASS 2 900ØFJ
Pipe Grade		1 in 850
DEPTH TO INVERT	2.646	2.646 / 2.636
DESIGN INVERT LEVEL	33.600	33.600 / 33.610
Q5 HYDRAULIC GRADE LEVEL	0.000	0.000
Q100 HYDRAULIC GRADE LEVEL		
FINISHED SURFACE LEVEL	36.246	36.246
EXISTING SURFACE LEVEL	35.159	35.216
CHAINAGE	0.000	L=8.500m 8.500

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	10/10/19
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale H 1:500, V 1:50, A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

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Designed R. WEINBER | Checked B. IBBS
Authorised M. CAIRNEY | Date 15/06/2018

MAMBOURIN ESTATE
STAGE 2
DRAINAGE LONG SECTION
SHEET 1 OF 7
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

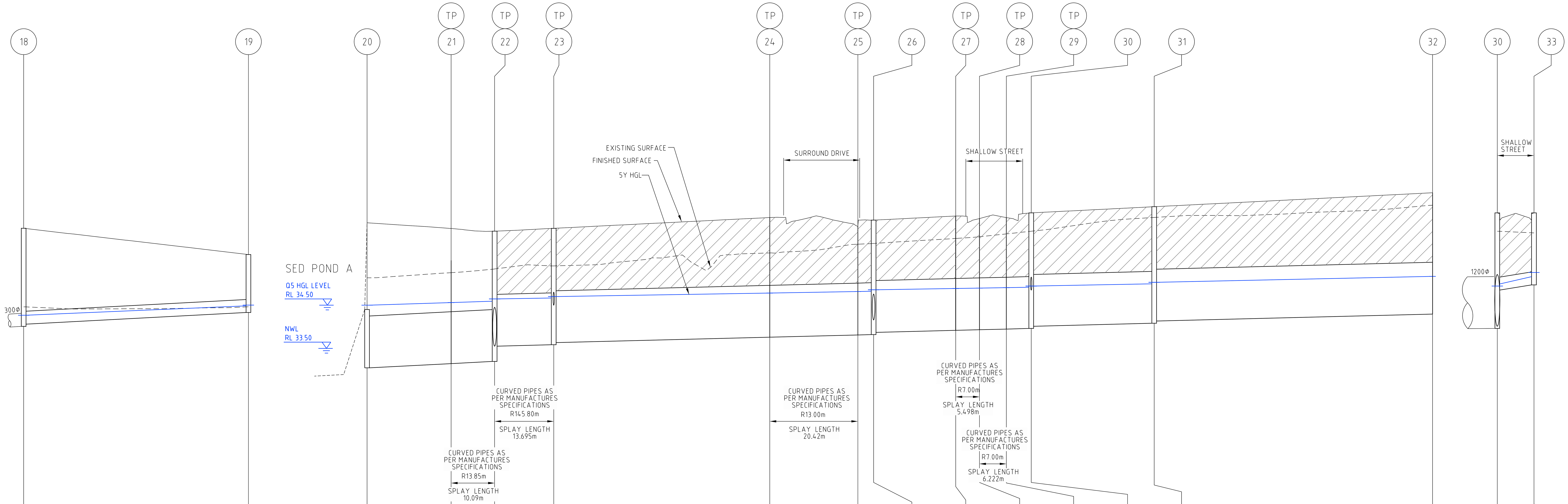
AS CONSTRUCTED Drg No **303977R16** Rev **1**

CRUSHED ROCK BACKFILL LEGEND

CLASS 2 CRUSHED ROCK

CLASS 3 CRUSHED ROCK

NOTE:
1. ALL PIPES TO BE RRJ DENOTES RUBBER RING JOINTED UNLESS NOTED OTHERWISE.
2. DRAINAGE PIPES GREATER THAN 750Φ ARE TO BE FLUSH JOINTED (FJ) WITH EXTERNAL SEALING BANDS.
3. CCTV FOOTAGE IS TO BE PROVIDED TO WCC FOR REVIEW FOR ALL CLASS 4 RCP PIPES WITH THE ROAD RESERVE. CCTV SHALL BE UNDERTAKEN AFTER BACKFILLING AND PAVEMENT WORK.
4. CURVED PIPE ALIGNMENTS TO BE ACHIVED USING SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION. RADIUS AND SPLAY LENGTHS PROVIDED FOR ORDERING PURPOSES.



Pipe	Pipe Diameter	Pipe Grade	Vf (m/s)	Qactual (m3/s)	Qfull (m3/s)	L	DATUM R.L.
18–19	CLASS 2 300Φ	1 in 193	Vf=1.127	Qa=0.040	Qf=0.080	L=52.076m	29.00
20–21	CLASS 2 1200ΦFJ	1 in 200	Vf=2.640	Qa=2.342	Qf=2.986	L=19.466m	28.00
21–22	CLASS 2 1200ΦFJ	1 in 200	Vf=2.640	Qa=2.346	Qf=2.986	L=10.090m	
22–23	CLASS 2 1200ΦFJ	1 in 400	Vf=1.862	Qa=1.882	Qf=2.106	L=13.695m	
23–24	CLASS 2 1200ΦFJ	1 in 400	Vf=1.862	Qa=1.879	Qf=2.106	L=50.059m	
24–25	CLASS 2 1200ΦFJ	1 in 400	Vf=1.862	Qa=1.889	Qf=2.106	L=20.420m	
25–26	CLASS 2 1200ΦFJ	1 in 400	Vf=1.862	Qa=1.891	Qf=2.106	L=3.650m	
26–27	CLASS 2 1200ΦFJ	1 in 400	Vf=1.862	Qa=1.798	Qf=2.106	L=19.026m	
27–28	CLASS 2 1200ΦFJ	1 in 400	Vf=1.862	Qa=1.800	Qf=2.106	L=5.498m	
28–29	CLASS 2 1200ΦFJ	1 in 400	Vf=1.862	Qa=1.803	Qf=2.106	L=6.222m	
29–30	CLASS 2 1200ΦFJ	1 in 400	Vf=1.862	Qa=1.806	Qf=2.106	L=5.775m	
30–31	CLASS 2 1200ΦFJ	1 in 400	Vf=1.862	Qa=1.781	Qf=2.106	L=28.500m	
31–32	CLASS 2 1200ΦFJ	1 in 400	Vf=1.862	Qa=1.796	Qf=2.106	L=64.500m	
30–33	CLASS 2 300Φ	1 in 71	Vf=1.869	Qa=0.060	Qf=0.132	L=8.500m	28.00

Pit	DEPTH TO INVERT	DESIGN INVERT LEVEL	HYDRAULIC GRADE LEVEL	FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CHAINAGE
18	2.270 / 2.220	35.010 / 35.060	35.226 / 35.267	37.280	35.461	36.153
19	1.341	35.330	35.485 / 35.501	36.671	35.464	88.229
20	1.350 / 1.350	33.050 / 33.050	34.500	34.400	35.133	0.000
21	2.388 / 2.388	33.147 / 33.147	34.560	35.535	35.252	19.466
22	3.015 / 2.662	33.198 / 33.550	34.591 / 34.644	36.212	35.339	29.555
23	2.695 / 2.645	33.584 / 33.634	34.666 / 34.698	36.279	35.409	43.250
24	2.770 / 2.770	33.759 / 33.759	34.781	36.529	35.708	93.310
25	2.517 / 2.517	33.810 / 33.810	34.816	36.327	35.911	113.730
26	2.649 / 2.599	33.820 / 33.870	34.822 / 34.856	36.468	35.929	117.380
27	2.646 / 2.646	33.917 / 33.917	34.886	36.564	36.044	136.406
28	2.574 / 2.574	33.931 / 33.931	34.895	36.505	36.084	141.904
29	2.580 / 2.580	33.946 / 33.946	34.905	36.527	36.149	148.126
30	2.676 / 2.626	33.961 / 34.011	34.915 / 34.943	36.636	36.212	153.901
31	2.697 / 2.647	34.082 / 34.132	34.994 / 35.029	36.779	36.530	182.401
32	2.808	34.293	35.168	37.102	36.813	246.901
30	2.676 / 1.786	33.961 / 34.850	34.915 / 34.943	36.636	36.212	0.000
33	1.666	34.970	35.160	36.636	36.173	8.500

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	10/10/19
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale H 1:500, V 1:50, A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

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Designed R. WEINBER | Checked B. IBBS
Authorised M. CAIRNEY | Date 15/06/2018

MAMBOURIN ESTATE
STAGE 2
DRAINAGE LONG SECTION
SHEET 2 OF 7
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No **303977R17** Rev **1**

CRUSHED ROCK BACKFILL LEGEND

CLASS 2 CRUSHED ROCK

CLASS 3 CRUSHED ROCK

NOTE:
1. ALL PIPES TO BE RRJ DENOTES RUBBER RING JOINTED UNLESS NOTED OTHERWISE.
2. DRAINAGE PIPES GREATER THAN 750ø ARE TO BE FLUSH JOINTED (FJ) WITH EXTERNAL SEALING BANDS.
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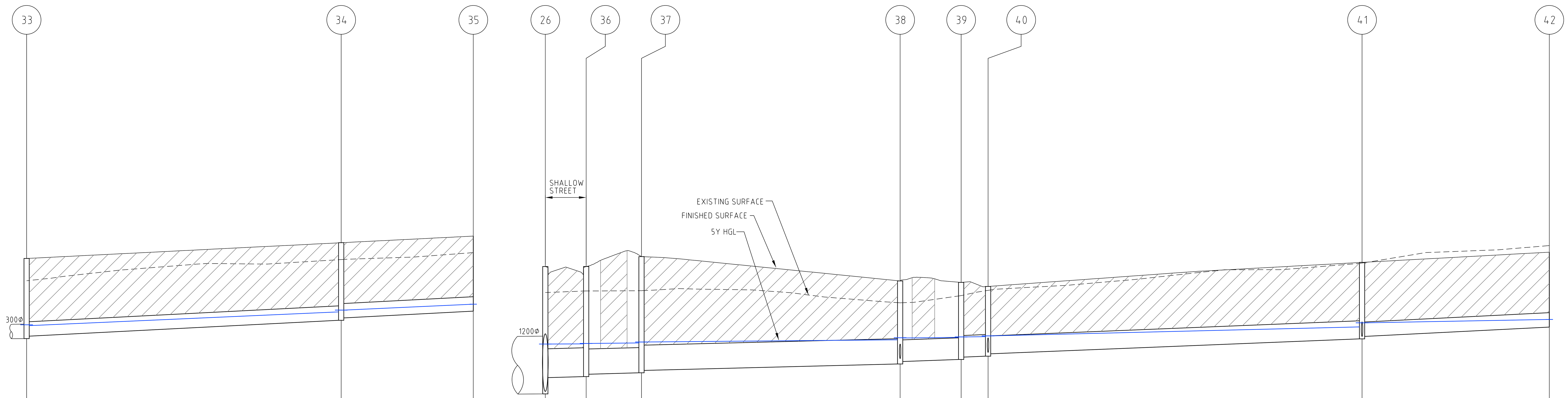

Pipe	33–34	34–35	26–36	36–37	37–38	38–39	39–40	40–41	41–42
Class	CLASS 2	CLASS 2	CLASS 2	CLASS 2	CLASS 2	CLASS 3	CLASS 4	CLASS 4	CLASS 3
Pipe Diameter	300ø	300ø	600ø	525ø	525ø	450ø	450ø	375ø	300ø
Pipe Grade	1 in 198	1 in 196	1 in 400	1 in 400	1 in 400	1 in 300	1 in 300	1 in 250	1 in 200
Vf (m/s)	Vf=1.111	Vf=1.116	Vf=1.210	Vf=1.112	Vf=1.112	Vf=1.167	Vf=1.167	Vf=1.140	Vf=1.106
Qactual (m3/s)	Qa=0.050	Qa=0.036	Qa=0.147	Qa=0.141	Qa=0.141	Qa=0.108	Qa=0.109	Qa=0.097	Qa=0.042
Qfull (m3/s)	Qf=0.078	Qf=0.079	Qf=0.342	Qf=0.241	Qf=0.241	Qf=0.186	Qf=0.186	Qf=0.126	Qf=0.078
Length	L=65.500m	L=27.500m	L=8.500m	L=11.526m	L=53.850m	L=12.705m	L=5.607m	L=77.865m	L=39.000m

DATUM R.L. 29.00

Pit	33	34	35	26	36	37	38	39	40	41	42
DEPTH TO INVERT	1.666 / 1.616	1.614 / 1.564	1.562	2.649 / 2.311	2.290 / 2.240	2.417 / 2.367	1.727 / 1.677	1.605 / 1.555	1.452 / 1.402	1.590 / 1.540	1.558
DESIGN INVERT LEVEL	34.970 / 35.020	35.350 / 35.400	35.540	33.820 / 34.158	34.179 / 34.229	34.258 / 34.308	34.442 / 34.492	34.535 / 34.585	34.603 / 34.653	34.965 / 35.015	35.210
HYDRAULIC GRADE LEVEL	35.160 / 35.256	35.524 / 35.562	35.685	34.822 / 34.856	34.860 / 34.868	34.878 / 34.899	34.944 / 34.987	34.997 / 35.005	35.010 / 35.025	35.213 / 35.297	35.367
FINISHED SURFACE LEVEL	36.636	36.964	37.102	36.468	36.468	36.675	36.169	36.140	36.055	36.555	36.768
EXISTING SURFACE LEVEL	36.173	36.613	36.760	35.929	35.961	35.966	35.714	35.864	35.973	36.542	36.905
CHAINAGE	8.500	74.000	101.500	0.000	8.500	20.026	73.876	86.581	92.188	170.053	209.053

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	10/10/19
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale H 1:500, V 1:50, A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

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Designed: R. WEINBER
Checked: B. IBBS
Authorised: M. CAIRNEY
Date: 15/06/2018

MAMBOURIN ESTATE
STAGE 2
DRAINAGE LONG SECTION
SHEET 3 OF 7
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

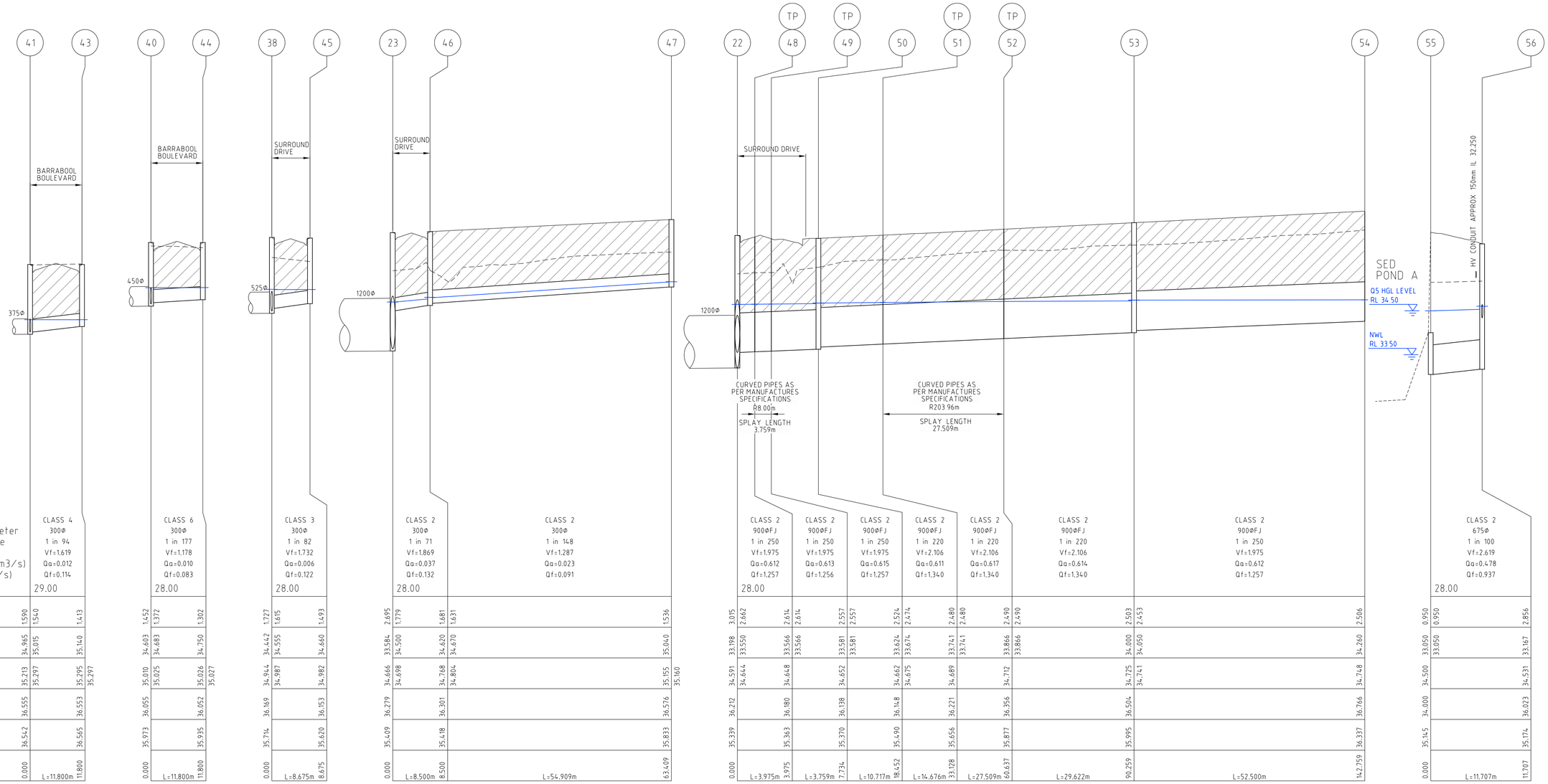
AS CONSTRUCTED
Drg No **303977R18**
Rev **1**

CRUSHED ROCK BACKFILL LEGEND

CLASS 2 CRUSHED ROCK

CLASS 3 CRUSHED ROCK

NOTE:
1. ALL PIPES TO BE RRJ DENOTES RUBBER RING JOINTED UNLESS NOTED OTHERWISE.
2. DRAINAGE PIPES GREATER THAN 750Φ ARE TO BE FLUSH JOINTED (FJ) WITH EXTERNAL SEALING BANDS.
3. CCTV FOOTAGE IS TO BE PROVIDED TO WCC FOR REVIEW FOR ALL CLASS 4 RCP PIPES WITH THE ROAD RESERVE. CCTV SHALL BE UNDERTAKEN AFTER BACKFILLING AND PAVEMENT WORK.
4. CURVED PIPE ALIGNMENTS TO BE ACHIVED USING SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION. RADIUS AND SPLAY LENGTHS PROVIDED FOR ORDERING PURPOSES.



Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	10/10/19
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale H 1:500, V 1:50, A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 15/06/2018

MAMBOURIN ESTATE STAGE 2
DRAINAGE LONG SECTION SHEET 4 OF 7
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303977R19**
Rev **1**

CRUSHED ROCK BACKFILL LEGEND

CLASS 2 CRUSHED ROCK

CLASS 3 CRUSHED ROCK

NOTE:
1. ALL PIPES TO BE RRJ DENOTES RUBBER RING JOINTED UNLESS NOTED OTHERWISE.
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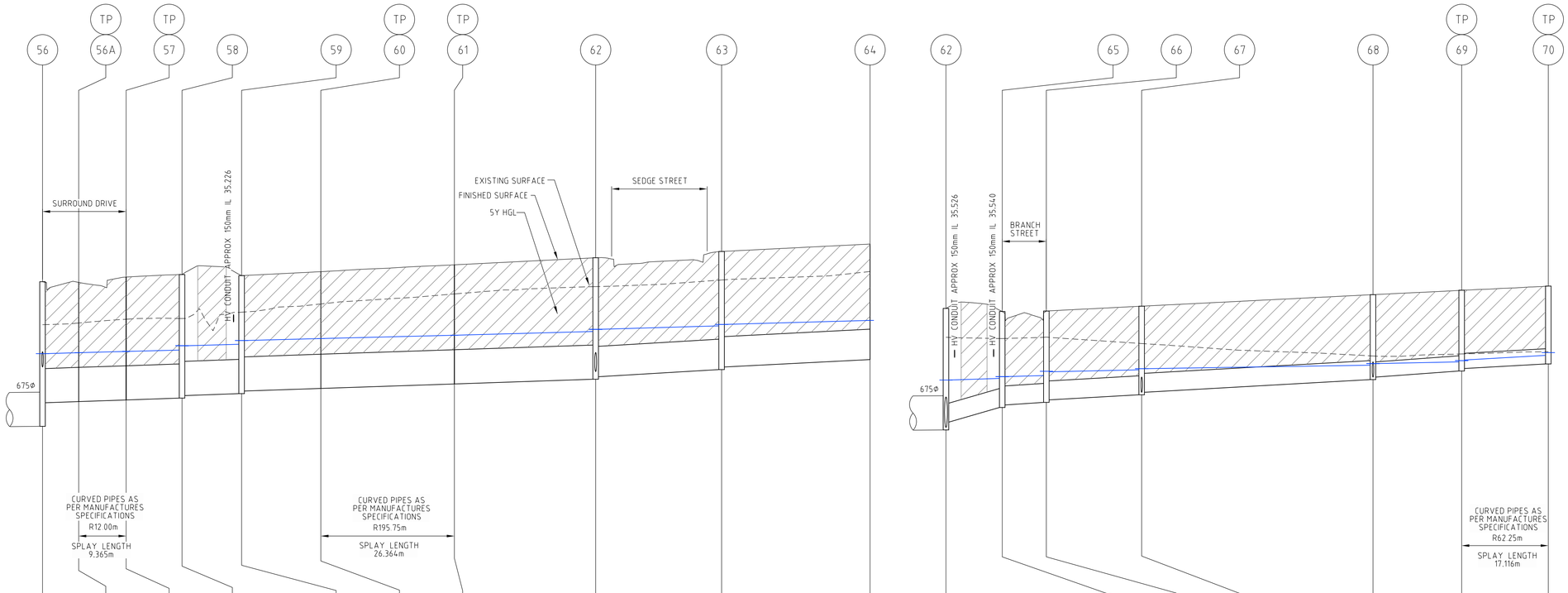
4. CURVED PIPE ALIGNMENTS TO BE ACHIVED USING SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION. RADIUS AND SPLAY LENGTHS PROVIDED FOR ORDERING PURPOSES.



Pipe Diameter		CLASS 2 675Φ		CLASS 2 675Φ		CLASS 2 675Φ		CLASS 2 675Φ		CLASS 2 675Φ		CLASS 2 675Φ		CLASS 2 675Φ		CLASS 2 600Φ		CLASS 2 600Φ				CLASS 2 375Φ		CLASS 2 375Φ		CLASS 2 375Φ		CLASS 2 375Φ		CLASS 2 300Φ		CLASS 2 300Φ	
Pipe Grade		1 in 300		1 in 300		1 in 300		1 in 300		1 in 300		1 in 300		1 in 300		1 in 176		1 in 200				1 in 38		1 in 174		1 in 188		1 in 183		1 in 146		1 in 190	
Vf (m/s)		Vf=1.506		Vf=1.506		Vf=1.506		Vf=1.506		Vf=1.506		Vf=1.506		Vf=1.506		Vf=1.831		Vf=1.716				Vf=2.933		Vf=1.367		Vf=1.315		Vf=1.335		Vf=1.297		Vf=1.135	
Qactual (m3/s)		Qa=0.473		Qa=0.476		Qa=0.469		Qa=0.463		Qa=0.459		Qa=0.466		Qa=0.474		Qa=0.358		Qa=0.358				Qa=0.104		Qa=0.098		Qa=0.092		Qa=0.087		Qa=0.054		Qa=0.048	
Qfull (m3/s)		Qf=0.539		Qf=0.539		Qf=0.539		Qf=0.539		Qf=0.539		Qf=0.539		Qf=0.539		Qf=0.518		Qf=0.485				Qf=0.324		Qf=0.151		Qf=0.145		Qf=0.147		Qf=0.092		Qf=0.080	
DATUM R.L.		28.00																				29.00													
DEPTH TO INVERT	2.856	2.390	2.352	2.352	2.426	2.426	2.440	2.390	2.328	2.278	2.305	2.305	2.351	2.351	2.398	2.348	2.331	2.281	2.281	2.398	2.245		1.895	1.845	1.805	1.755	1.749	1.699	1.677	1.627	1.594	1.544	1.536	
DESIGN INVERT LEVEL	33.167	33.633	33.657	33.657	33.688	33.688	33.725	33.775	33.814	33.864	33.916	33.916	34.004	34.004	34.097	34.147	34.289	34.339	34.485	34.097	34.250		34.540	34.590	34.640	34.690	34.790	34.840	35.090	35.140	35.260	35.310	35.400	
HYDRAULIC GRADE LEVEL	34.531	34.603	34.621		34.646		34.674	34.759	34.787	34.862	34.900		34.966		35.039	35.083	35.152	35.179	35.259	35.039	35.083		35.113	35.149	35.170	35.256	35.284	35.305	35.375	35.407	35.440	35.464	35.569	35.624
FINISHED SURFACE LEVEL	36.023		36.009		36.114		36.165		36.143		36.221		36.356		36.495		36.619		36.766	36.495			36.435		36.445		36.539		36.767		36.854		36.936	
EXISTING SURFACE LEVEL	35.174		35.207		35.282		35.296		35.420		35.584		35.781		35.926		36.056		36.223	35.926			35.900		35.928		35.802		35.557		35.596		35.639	
CHAINAGE	11.707	L=7.146m	18.853	L=9.365m	28.218	L=11.049m	39.267	L=11.763m	51.030	L=15.664m	66.695	L=26.364m	93.058	L=27.921m	120.979	L=24.881m	145.860	L=29.321m	175.181	0.000	L=11.111m		11.111	L=8.721m	19.832	L=18.827m	38.659	L=45.694m	84.353	L=17.521m	101.874	L=17.116m	118.989	

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	10/10/19
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale H 1:500, V 1:50, A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 15/06/2018

MAMBOURIN ESTATE STAGE 2
DRAINAGE LONG SECTION SHEET 5 OF 7
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No **303977R20** Rev **1**

CRUSHED ROCK BACKFILL LEGEND

CLASS 2 CRUSHED ROCK

CLASS 3 CRUSHED ROCK

NOTE:
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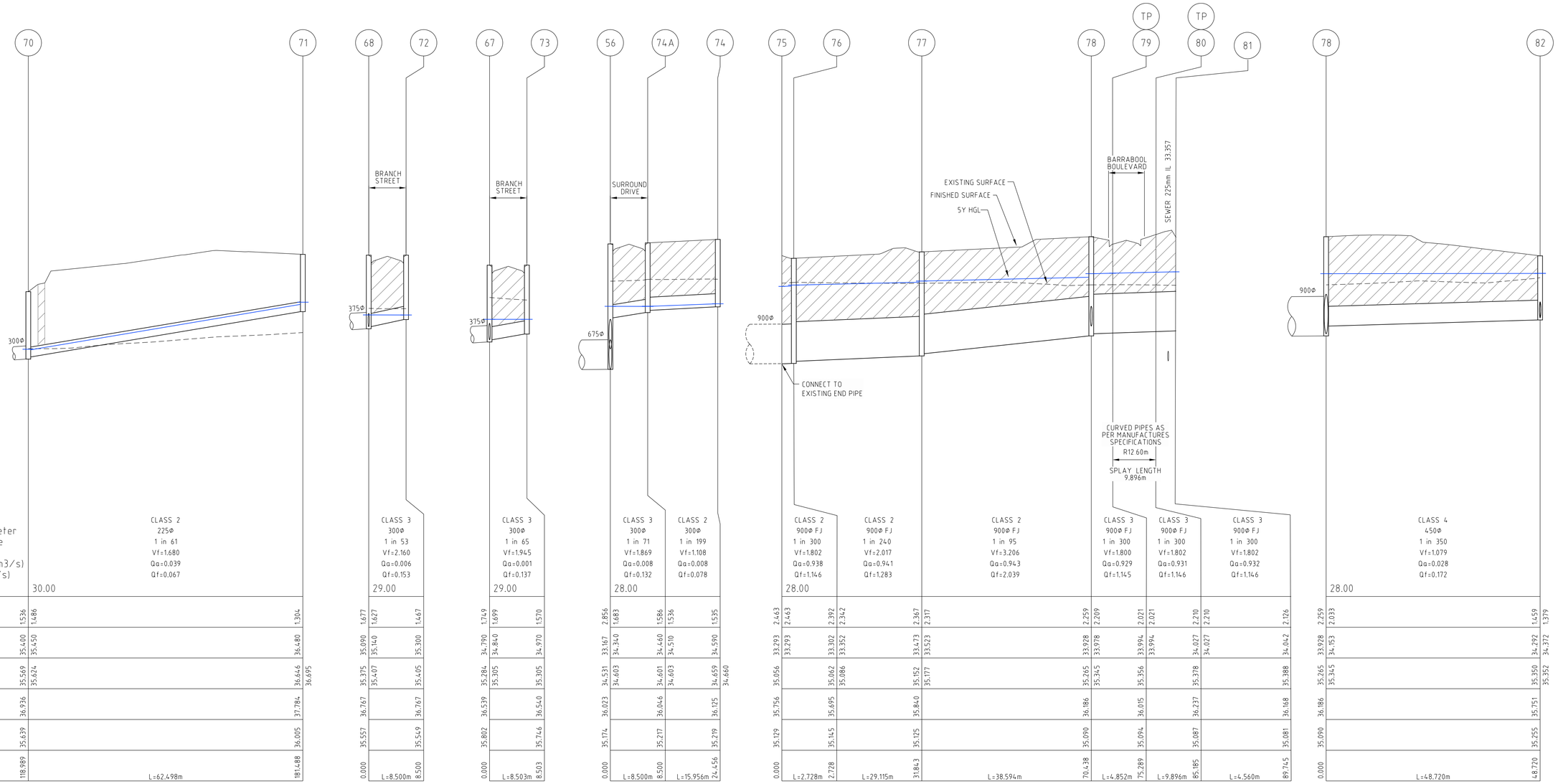

Rev	Amendments	Approved	Date
3	AS CONSTRUCTED	M.L	10/10/19
2	DRAINAGE 80-81 CHANGED TO CLASS 3	M.L	19/03/19
1	DRAINAGE 76-81 UPDATED.	M.L	15/10/18
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale H 1:500, V 1:50, A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

Designed: R. WEINBER
Checked: B. IBBS
Authorised: M. CAIRNEY
Date: 15/06/2018

MAMBOURIN ESTATE STAGE 2
DRAINAGE LONG SECTION SHEET 6 OF 7
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303977R21**
Rev **3**

CRUSHED ROCK BACKFILL LEGEND

CLASS 2 CRUSHED ROCK

CLASS 3 CRUSHED ROCK

NOTE:
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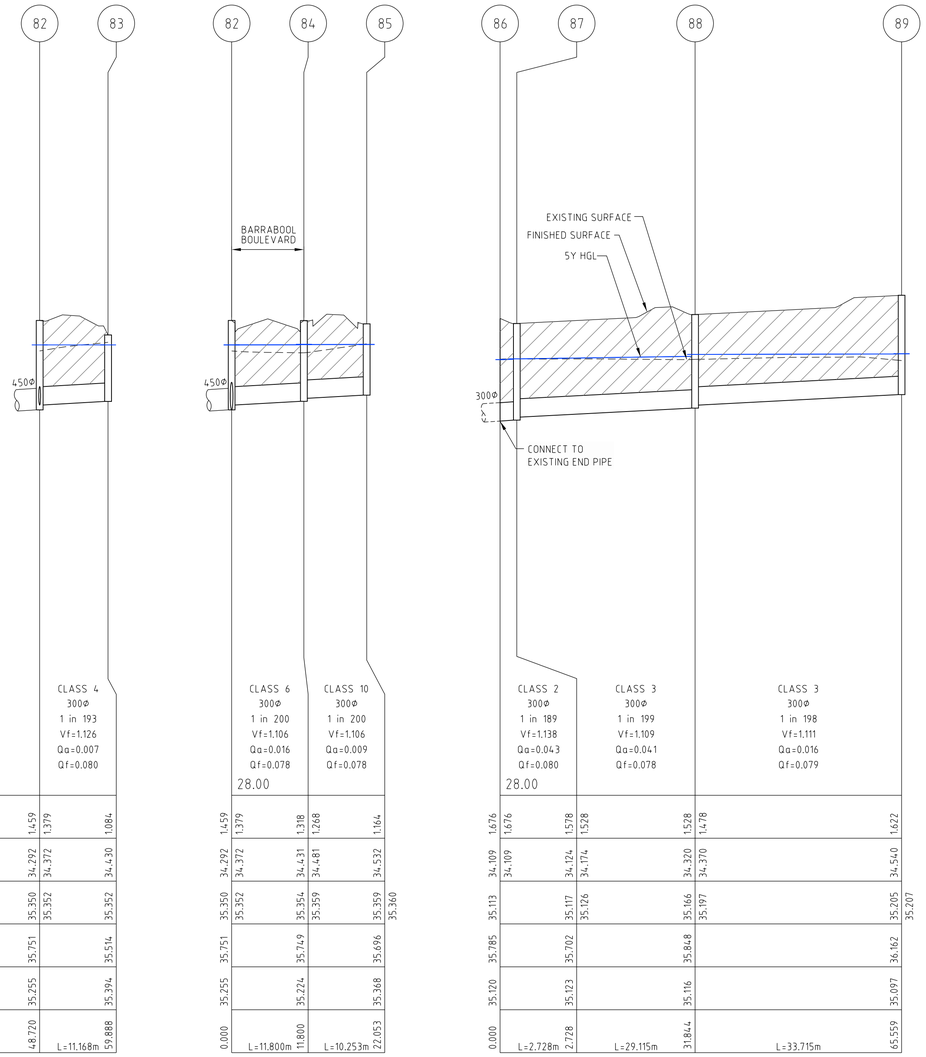
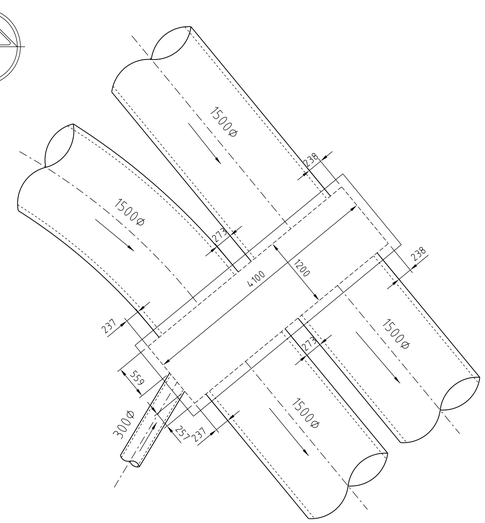
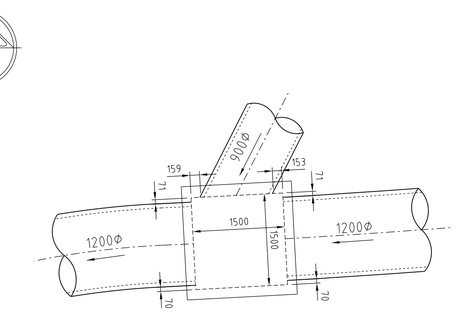
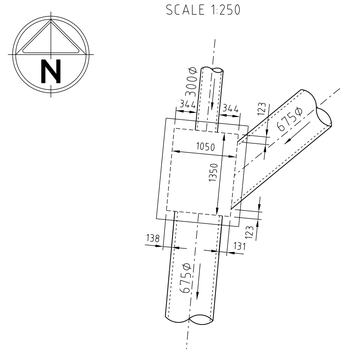




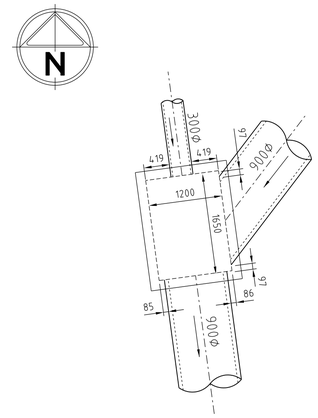
CONCRETE DETAILS
PLAN - JUNCTION PIT 2 & 9
SCALE 1:250



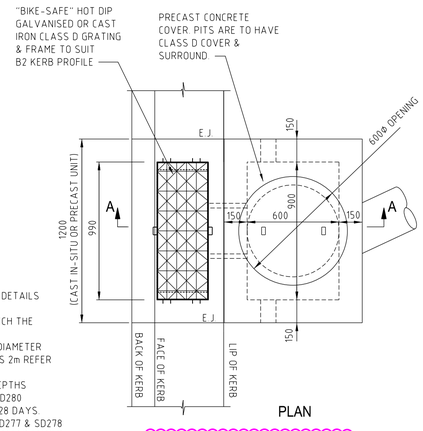
CONCRETE DETAILS
PLAN - JUNCTION PIT 22
SCALE 1:250



CONCRETE DETAILS
PLAN - JUNCTION PIT 56
SCALE 1:250



CONCRETE DETAILS
PLAN - JUNCTION PIT 78
SCALE 1:250

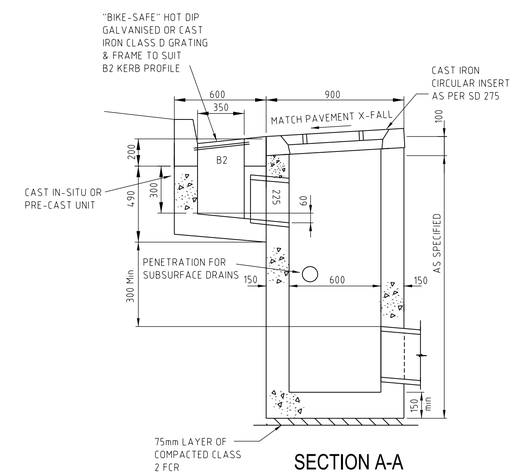


PLAN

PLAN - GRATED PIT 83
SCALE 1:250

NOTES:

1. ALL WALLS TO BE 150mm THICK.
2. FOR PRECAST CONCRETE COVER DETAILS REFER TO STD SD275
3. THE TOP OF THE PIT SHALL MATCH THE PAVEMENT CROSSFALL.
4. PIT TO BE HAUNCHED FOR PIPE DIAMETER OVER 450mm OR DEPTH EXCEEDS 2m REFER TO STD. SD245
5. PROVIDE IRON STEPS FOR PIT DEPTHS EXCEEDING 1m. REFER ST STD. SD280
6. CONCRETE STRENGTH25mpa AT 28 DAYS.
7. FOR GRATE DETAILS SEE STD. SD277 & SD278
8. EXSPANSION JOINTS TO BE INSTALLED EITHER SIDE OF GREATED PITS WITH 3 No. 450mm LONG R16 BARS GREASED OR SLEEVED ONE END.



SECTION A-A

Rev	Amendments	Approved	Date
4	AS CONSTRUCTED	M.L	10/10/19
3	DRAINAGE 83 UPDATED. PIT 83 DETAIL UPDATED.	M.L	14/05/19
2	DRAINAGE 83-83A CHANGED TO CLASS 10	M.L	19/03/19
1	DRAIN 83 TO 83A ADDED. PIT 83A DETAIL ADDED.	M.L	22/02/19
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale H 1:500, V 1:50, A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

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FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 15/06/2018

MAMBOURIN ESTATE STAGE 2
DRAINAGE LONG SECTION SHEET 7 OF 7 & PIT DETAILS
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303977R22**
Rev **4**

DRAINAGE PIT SCHEDULE - STAGE 2

PIT		INTERNAL		INLET		OUTLET		PIT		
PIT No	TYPE	LENGTH	WIDTH	DIA	INV LEV	DIA	INV LEV	FINISHED COVER RL	DEPTH	REMARKS
1	ROCKED OUTFALL			1500	33.05			35.475	2.425	REFER TO WETLAND DETAIL DRAWING
2	JUNCTION CHAMBER	4100	1200	1500	33.50	1500	33.08	36.243	3.165	REFER TO SHEET 22 FOR PIT DETAILS AND STRUCTURAL REINFORCEMENT DETAIL
				300	34.10					
3	TANGENT POINT			1500	33.52	1500	33.52	36.095	2.575	PIPE TANGENT POINT
4	SIDE ENTRY PIT GRATED	1050	1650	1500	33.60	1500	33.55	36.246	2.697	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
				900	33.60					INCOMING BALANCE PIPE
5	END PIPE					1500	33.68	36.410	2.729	BLANK END WITH TIMBER
6	SIDE ENTRY PIT GRATED	900	600	300	34.21	300	34.16	36.341	2.181	REFER DRAWING - EDCM 601
7	SIDE ENTRY PIT GRATED	900	600			300	34.55	36.343	1.793	REFER DRAWING - EDCM 601
8	ROCKED OUTFALL			1500	33.05			35.608	2.558	REFER TO WETLAND DETAIL DRAWING
9	JUNCTION CHAMBER	4100	1200	1500	33.50	1500	33.08	36.187	3.110	REFER TO SHEET 22 FOR PIT DETAILS AND STRUCTURAL REINFORCEMENT DETAIL
10	TANGENT POINT			1500	33.52	1500	33.52	36.131	2.609	PIPE TANGENT POINT
11	TANGENT POINT			1500	33.55	1500	33.55	36.223	2.674	PIPE TANGENT POINT
12	SIDE ENTRY PIT GRATED	1050	1650	1500	33.61	1500	33.56	36.246	2.686	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
				900	33.61					INCOMING BALANCE PIPE
13	TANGENT POINT			1500	33.73	1500	33.73	36.486	2.756	PIPE TANGENT POINT
14	SIDE ENTRY PIT GRATED	1050	1650	1500	33.82	1500	33.77	36.702	2.930	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
15	TANGENT POINT			1500	33.84	1500	33.84	36.735	2.896	PIPE TANGENT POINT
16	JUNCTION PIT	900	1650	300	34.45	1500	33.86	36.770	2.911	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
17	JUNCTION PIT	900	600	300	34.99	300	34.94	37.282	2.342	REFER DRAWING - EDCM 605
18	JUNCTION PIT	900	600	300	35.06	300	35.01	37.280	2.270	REFER DRAWING - EDCM 605
19	JUNCTION PIT	900	600			300	35.33	36.671	1.341	REFER DRAWING - EDCM 605
20	ROCKED OUTFALL			1200	33.05			34.400	1.350	REFER TO WETLAND DETAIL DRAWING
21	TANGENT POINT			1200	33.15	1200	33.15	35.535	2.388	PIPE TANGENT POINT
22	JUNCTION PIT	1500	1500	1200	33.55	1200	33.20	36.212	3.015	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
				900	33.55					
23	SIDE ENTRY PIT GRATED	900	1500	1200	33.63	1200	33.58	36.279	2.695	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
				300	34.50					
24	TANGENT POINT			1200	33.76	1200	33.76	36.529	2.770	PIPE TANGENT POINT
25	TANGENT POINT			1200	33.81	1200	33.81	36.327	2.517	PIPE TANGENT POINT
26	SIDE ENTRY PIT GRATED	900	1500	1200	33.87	1200	33.82	36.468	2.649	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
				600	34.16					
27	TANGENT POINT			1200	33.92	1200	33.92	36.564	2.646	PIPE TANGENT POINT
28	TANGENT POINT			1200	33.93	1200	33.93	36.505	2.574	PIPE TANGENT POINT
29	TANGENT POINT			1200	33.95	1200	33.95	36.527	2.580	PIPE TANGENT POINT
30	JUNCTION PIT	900	1500	1200	34.01	1200	33.96	36.636	2.676	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
				300	34.85					
31	SIDE ENTRY PIT GRATED	900	1500	1200	34.13	1200	34.08	36.779	2.697	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
32	END PIPE					1200	34.29	37.102	2.808	BLANK END WITH TIMBER
33	SIDE ENTRY PIT GRATED	900	600	300	35.02	300	34.97	36.636	1.666	REFER DRAWING - EDCM 601
34	SIDE ENTRY PIT GRATED	900	600	300	35.40	300	35.35	36.964	1.614	REFER DRAWING - EDCM 601
35	END PIPE					300	35.54	37.102	1.562	BLANK END WITH TIMBER
36	SIDE ENTRY PIT GRATED	900	900	525	34.23	600	34.18	36.468	2.290	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING UNDER KERB)
37	JUNCTION PIT	900	900	525	34.31	525	34.26	36.675	2.417	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING UNDER KERB)
38	SIDE ENTRY PIT GRATED	900	900	450	34.49	525	34.44	36.169	1.727	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING UNDER KERB)
				300	34.56					
39	JUNCTION PIT	900	600	450	34.59	450	34.54	36.140	1.605	REFER DRAWING - EDCM 605
40	SIDE ENTRY PIT GRATED	900	600	375	34.65	450	34.60	36.055	1.452	REFER DRAWING - EDCM 601
				300	34.68					
41	SIDE ENTRY PIT GRATED	900	600	300	35.02	375	34.97	36.555	1.590	REFER DRAWING - EDCM 601
				300	35.02					
42	END PIPE					300	35.21	36.768	1.558	BLANK END WITH TIMBER

DRAINAGE PIT SCHEDULE - STAGE 2

PIT		INTERNAL		INLET		OUTLET		PIT		
PIT No	TYPE	LENGTH	WIDTH	DIA	INV LEV	DIA	INV LEV	FINISHED COVER RL	DEPTH	REMARKS
43	SIDE ENTRY PIT GRATED	900	600			300	35.14	36.553	1.413	REFER DRAWING - EDCM 601
44	SIDE ENTRY PIT GRATED	900	600			300	34.75	36.052	1.302	REFER DRAWING - EDCM 601
45	SIDE ENTRY PIT GRATED	900	600			300	34.66	36.153	1.493	REFER DRAWING - EDCM 601
46	SIDE ENTRY PIT GRATED	900	600	300	34.67	300	34.62	36.301	1.681	REFER DRAWING - EDCM 601
47	JUNCTION PIT	900	600			300	35.04	36.576	1.536	REFER DRAWING - EDCM 605
48	TANGENT POINT			900	33.57	900	33.57	36.180	2.614	PIPE TANGENT POINT
49	TANGENT POINT			900	33.58	900	33.58	36.138	2.557	PIPE TANGENT POINT
50	SIDE ENTRY PIT GRATED	900	1050	900	33.67	900	33.62	36.148	2.524	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
51	TANGENT POINT			900	33.74	900	33.74	36.221	2.480	PIPE TANGENT POINT
52	TANGENT POINT			900	33.87	900	33.87	36.356	2.490	PIPE TANGENT POINT
53	SIDE ENTRY PIT GRATED	900	1050	900	34.05	900	34.00	36.504	2.503	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
54	END PIPE					900	34.26	36.766	2.506	BLANK END WITH TIMBER
55	ROCKED OUTFALL			675	33.05			34.000	0.950	REFER TO WETLAND DETAIL DRAWING
56	DOUBLE SIDE ENTRY PIT GRATED	1050	1350	675	33.63	675	33.17	36.023	2.856	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
				300	34.34					
56A	TANGENT POINT			675	33.66	675	33.66	36.009	2.352	PIPE TANGENT POINT
57	TANGENT POINT			675	33.69	675	33.69	36.114	2.426	PIPE TANGENT POINT
58	JUNCTION PIT	900	900	675	33.78	675	33.73	36.165	2.440	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING UNDER KERB)
59	SIDE ENTRY PIT GRATED	900	900	675	33.86	675	33.81	36.143	2.328	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING UNDER KERB)
60	TANGENT POINT			675	33.92	675	33.92	36.221	2.305	PIPE TANGENT POINT
61	TANGENT POINT			675	34.00	675	34.00	36.356	2.351	PIPE TANGENT POINT
62	SIDE ENTRY PIT GRATED	900	900	600	34.15	675	34.10	36.495	2.398	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING UNDER KERB)
				375	34.25					
63	SIDE ENTRY PIT GRATED	900	900	600	34.34	600	34.29	36.619	2.331	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING UNDER KERB)
64	END PIPE					600	34.49	36.766	2.281	BLANK END WITH TIMBER
65	SIDE ENTRY PIT GRATED	900	600	375	34.59	375	34.54	36.435	1.895	REFER DRAWING - EDCM 601
66	SIDE ENTRY PIT GRATED	900	600	375	34.69	375	34.64	36.445	1.805	REFER DRAWING - EDCM 601
67	JUNCTION PIT	900	600	375	34.84	375	34.79	36.539	1.749	REFER DRAWING - EDCM 605
				300	34.84					
68	SIDE ENTRY PIT GRATED	900	600	300	35.14	375	35.09	36.767	1.677	REFER DRAWING - EDCM 601
				300	35.14					
69	JUNCTION PIT	900	600	300	35.31	300	35.26	36.854	1.594	REFER DRAWING - EDCM 605
70	JUNCTION PIT	900	600	225	35.45	300	35.40	36.936	1.536	REFER DRAWING - EDCM 605
71	JUNCTION PIT	900	600			225	36.48	37.784	1.304	REFER DRAWING - EDCM 605
72	SIDE ENTRY PIT GRATED	900	600			300	35.30	36.767	1.467	REFER DRAWING - EDCM 601
73	JUNCTION PIT	900	600			300	34.97	36.540	1.570	REFER DRAWING - EDCM 605
74	JUNCTION PIT	900	600			300	34.59	36.125	1.535	REFER DRAWING - EDCM 605
74A	DOUBLE SIDE ENTRY PIT GRATED	900	600	300	34.51	300	34.46	36.046	1.586	REFER DRAWING - EDCM 602
75	EXISTING END PIPE			900	33.54			35.756	2.213	CONNECT TO EXISTING END PIPE CONSTRUCTED WITH STAGE 1
76	SIDE ENTRY PIT GRATED	900	1050	900	33.35	900	33.30	35.695	2.392	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
77	SIDE ENTRY PIT GRATED	900	1050	900	33.52	900	33.47	35.840	2.367	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
78	JUNCTION PIT	1200	1650	900	33.98	900	33.93	36.186	2.259	REFER MELBOURNE WATER STD DWG 7251/08/408 & 409 (PROVIDE HAUNCHING UNDER KERB)
				450	34.15					
79	TANGENT POINT			900	33.99	900	33.99	36.015	2.021	PIPE TANGENT POINT
80	TANGENT POINT			900	34.03	900	34.03	36.237	2.210	PIPE TANGENT POINT
81	END PIPE					900	34.04	36.168	2.126	BLANK END WITH TIMBER
82	SIDE ENTRY PIT GRATED	900	600	300	34.37	450	34.29	35.751	1.459	REFER DRAWING - EDCM 601
				300	34.37			35.751	1.459	
83	SIDE ENTRY PIT GRATED	900	600			300	34.43	35.514	1.084	REFER DRAWING - EDCM 601
										REFER TO SHEET 22 FOR PIT DETAILS
84	SIDE ENTRY PIT GRATED	900	600	300	34.48	300	34.43	35.749	1.318	REFER DRAWING - EDCM 601
85	SIDE ENTRY PIT GRATED	900	600			300	34.53	35.696	1.164	REFER DRAWING - EDCM 601
86	EXISTING END PIPE			300	34.11			35.785	1.676	CONNECT TO EXISTING END PIPE CONSTRUCTED WITH STAGE 1
87	SIDE ENTRY PIT GRATED	900	600	300	34.17	300	34.12	35.702	1.578	REFER DRAWING - EDCM 601
88	SIDE ENTRY PIT GRATED	900	600	300	34.37	300	34.32	35.848	1.528	REFER DRAWING - EDCM 601
89	JUNCTION PIT	900	600			300	34.54	36.162	1.622	REFER DRAWING - EDCM 605

Rev	Amendments	Approved	Date
4	AS CONSTRUCTED	M.L	10/10/19
3	PIT 83A REMOVED. DRAINAGE 83 UPDATED.	M.L	14/05/19
2	DRAINAGE 83 & 83A UPDATED.	M.L	22/02/19
1	DRAINAGE 76-81 UPDATED.	M.L	15/10/18
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale H 1500, V 150, A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

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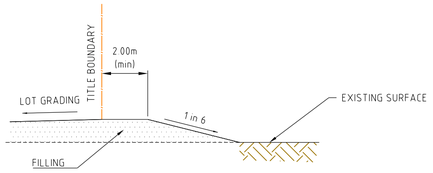
FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 15/06/2018

MAMBOURIN ESTATE
STAGE 2
PIT SCHEDULE

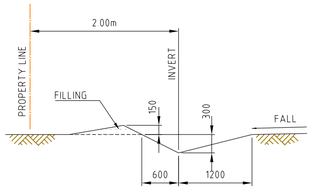
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303977R23**
Rev **4**



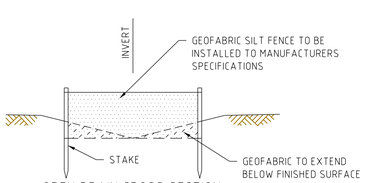
LOT FILLING AT STAGE BOUNDARY

N.T.S



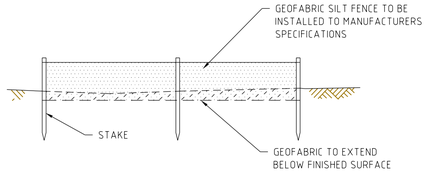
TYPICAL CATCH DRAIN SECTION

N.T.S



OPEN DRAIN CROSS SECTION

GEOFABRIC SILT FENCE

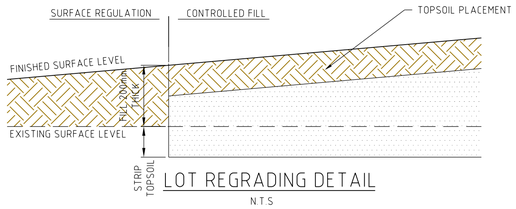


SILT CONTROL FOR LOTS

GEOFABRIC SILT FENCE

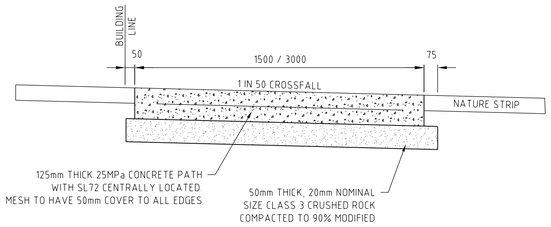
SILT CONTROL OPTIONS

NOT TO SCALE



LOT REGRADING DETAIL

N.T.S



TYPICAL RESIDENTIAL FOOTPATH CROSS SECTION

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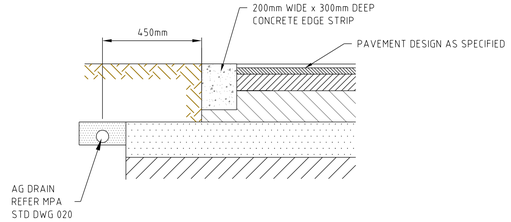
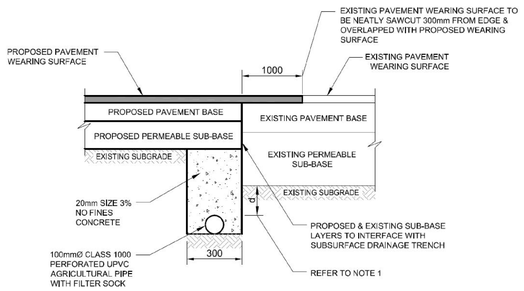
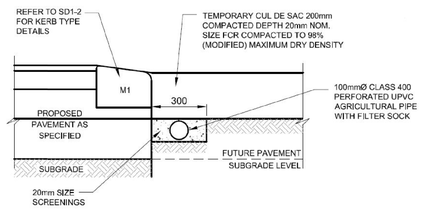


LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE - DETAIL

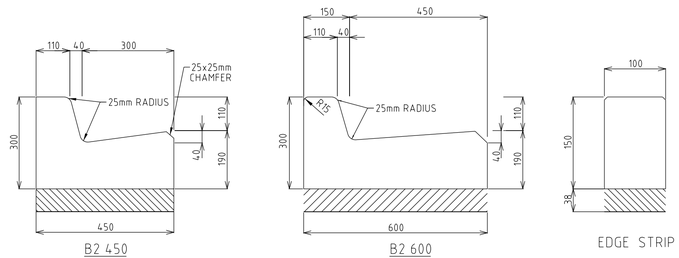
N.T.S



SUBSURFACE DRAIN AT INTERSECTING PAVEMENTS



TEMPORARY EDGE STRIP



B2 450

B2 600

EDGE STRIP

STANDARD KERB PROFILES

NOT TO SCALE

NOTES:

1. ALL KERBS AND KERB & CHANNEL TO BE REINFORCED IN ACCORDANCE WITH MUNICIPALITY STD DRAWINGS.
2. ALL KERBS AND KERB & CHANNEL TO HAVE 190mm DEPTH OF CONCRETE BELOW TOP OF PAVEMENT LEVEL.

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	10/10/19
1	PAVEMENT DETAILS MOVED REFER PAGE 28	M.L	02/07/19
0	CONSTRUCTION ISSUE	M.L	10/09/18

NOT TO SCALE

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FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 15/06/2018

MAMBOURIN ESTATE STAGE 2
PAVEMENT & TYPICAL DETAILS

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No **303977R24** Rev **2**

LEGEND

S1		STREET NAME PLATES TO BE IN ACCORDANCE WITH WCC SD812, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE
S2	GIVE WAY	R1-2A
S3		W6-9
		W8-23
S4		ROAD HUMP SIGN (BLACK &YELLOW)
	20 km/h	ADVISORY SPEED SIGN (BLACK & YELLOW)
S5	ROAD CLOSED	G9-20
S6		D4-5
S7		W3-4A ROAD HUMP SIGN (BLACK &YELLOW)
S8		D4-2-1
		TGSI KERB RAMP
		TGSI DIRECTIONAL
		1-WAY RRPM (5m SPACING)

NOTE:

1 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.

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	10/10/19
1	SURROUND DRIVE / BARRABOOL BOULEVARD STREET SIGN MOVED SOUTH	M.L	22/02/19
	& DISABLED PARKING ADDED		
0	CONSTRUCTION ISSUE	M.L	10/09/18

1:500,A1
Horizontal 0 5 10 15 20 25
Vertical 0 5 10 15 20 25

dlcs AS/NZS ISO 9001 certified AS/NZS 1801 certified AS/NZS ISO 14001 certified

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Date 15/06/2018

MAMBOURIN ESTATE
STAGE 2
SIGNAGE & LINEMARKING
PLAN SHEET 1 OF 2

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED Drg No **303977R25** Rev **2**

LEGEND

S1		STREET NAME PLATES TO BE IN ACCORDANCE WITH WCC SD812, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE
S2	GIVE WAY	R1-2A
S3		W6-9
		W8-23
S4		ROAD HUMP SIGN (BLACK & YELLOW)
	20 km/h	ADVISORY SPEED SIGN (BLACK & YELLOW)
S5	ROAD CLOSED	G9-20
S6		D4-5
S7		W3-4A ROAD HUMP SIGN (BLACK & YELLOW)
S8		D4-2-1

TGSI KERB RAMP

TGSI DIRECTIONAL

1-WAY RRPM (5m SPACING)

NOTE

1 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

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED	M.L	10/10/19
1	SURROUND DRIVE / BARRABOOL BOULEVARD STREET SIGN MOVED SOUTH.	M.L	22/02/19
	DISABLED PARKING ADDED. FUTURE ROAD ADDED WITH SIGNS.		
0	CONSTRUCTION ISSUE	M.L	10/09/18

1:500,A1

Horizontal 0 5 10 15 20 25

Vertical 0 5 10 15 20 25

dlcs AS/NZS ISO 9001 certified AS/NZS 4801 certified AS/NZS ISO 14001 certified

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Designed R. WEINBER

Checked B. IBBS

Authorised M. CAIRNEY

Date 15/06/2018

MAMBOURIN ESTATE STAGE 2

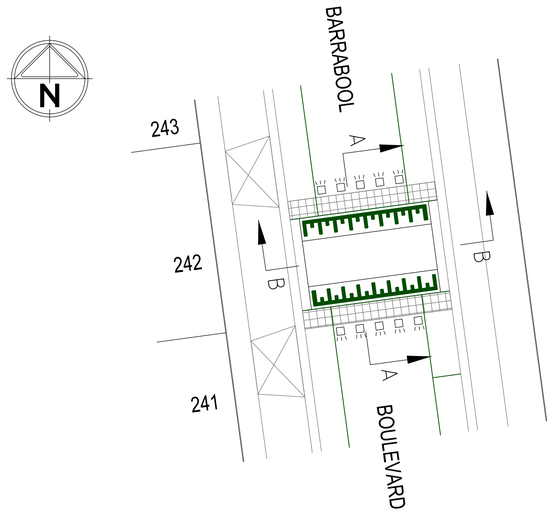
SIGNAGE & LINEMARKING PLAN SHEET 2 OF 2

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

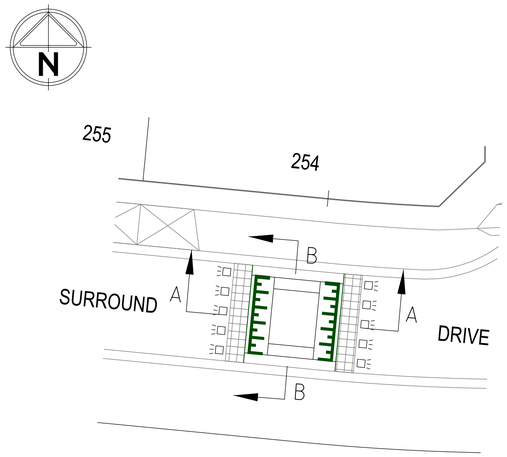
AS CONSTRUCTED

Drg No 303977R26

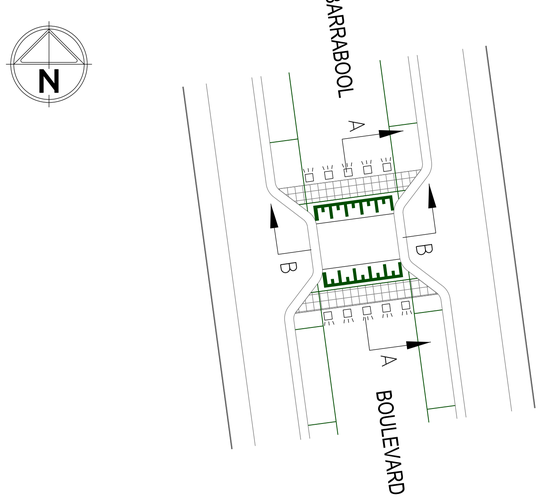
Rev 2



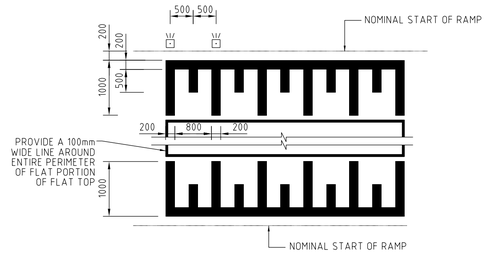
PLAN
FLAT TOP ROAD HUMP
(BARRABOOL BOULEVARD NORTH)

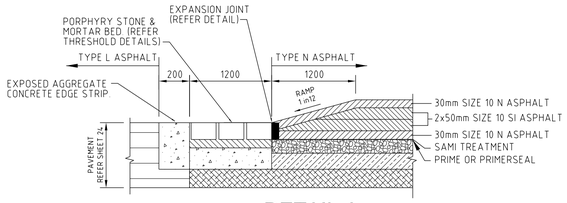


PLAN
FLAT TOP ROAD HUMP
(SURROUND DRIVE)



PLAN
FLAT TOP ROAD HUMP
(BARRABOOL BOULEVARD SOUTH)

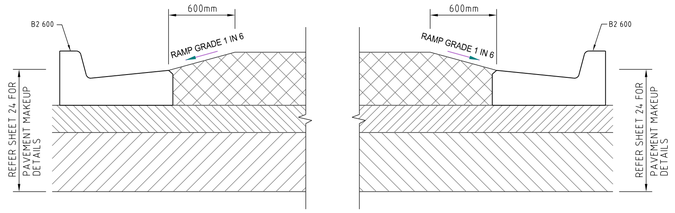




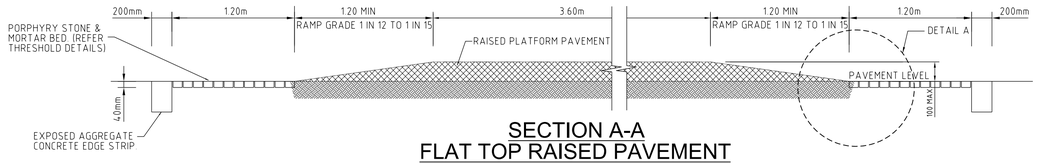
DETAIL A
RAISED PLATFORM PROFILE
NOT TO SCALE

BASALT PORPHYRY STONE
(90X90mm WITH 10-15mm MORTAR GAP)

NOTE:
CONTRACTOR TO PROVIDE 1m SQUARE SAMPLE OF BOTH SURFACES TO SUPER INTENDENT FOR APPROVAL BEFORE CONSTRUCTION WORK CAN COMMENCE



SECTION B-B
NOT TO SCALE



SECTION A-A
FLAT TOP RAISED PAVEMENT
NOT TO SCALE

THRESHOLD DETAILS

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm) PORPHYRY STONE
BASALT PORPHYRY STONE	90mm X 90mm BASALT PORPHYRY STONE (AS PER PHOTO) 10mm - 15mm MORTAR JOINTS	60
MORTAR BED	GREY COLOURED MORTAR	35
EXPOSED AGGREGATE	KEABLA MIDWAY MINI MIX CONCRETE (AS PER PHOTO) OR 14mm-20mm BLUE METAL (60%), 10mm-14mm QUARTZ (30%), 7mm-10mm YELLOW CHIP / PEBBLE (10%) ; FINISH = WATER WASHED MEDIUM EXPOSED (2mm) CHARACTERISTIC FLEXURAL STRENGTH = 45MPa, SL92 TOP REINFORCEMENT, 40mm COVER	-
CONCRETE BASE COURSE	CHARACTERISTIC FLEXURAL STRENGTH = 45MPa, SL92 TOP REINFORCEMENT, 40mm COVER	195
DE-BONDING TREATMENT	BITUMEN SPRAYED SEAL WITH 5mm-7mm AGGREGATE	Y
	UPPER PAVEMENT TOTAL	290
LOWER SUBBASE	Class 3 Crushed Rock (size 20mm) Compacted in 2 layers	150
CAPPING LAYER	Type A - Working platform achieving CBR > 5%; Properties: CBR >15.0%, Swell <1.5 %, Permeability < 1E-9 m/s (thickness to be confirmed during construction)	160
	TOTAL PAVEMENT DEPTH	600

Rev	Amendments	Approved	Date
3	PAVEMENT FLEXURAL STRENGTH CORRECTED TO SHOW 45MPa	M.L	26/03/20
2	AS CONSTRUCTED	M.L	10/10/19
1	BASALT PORPHYRY STONE THRESHOLD TREATMENT ADDED	M.L	22/02/19
0	CONSTRUCTION ISSUE	M.L	10/09/18

Scale 1:200, A1
Horizontal 0 2 4 6 8 10
Vertical 0 2 4 6 8 10

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FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 15/06/2018

MAMBOURIN ESTATE STAGE 2
RAISE PAVEMENT DETAILS

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303977R27**
Rev **3**

DESIGN PAVEMENT PROFILE FOR ACCESS STREET LEVEL 2

	PAVEMENT LAYER	DESCRIPTION	DEPTH (mm) ACCESS STREET LVL 2
A	ASPHALT WEARING COURSE	Size 14mm Type N Asphalt	40
B	ASPHALT STRUCTURAL COURSE	Size 14mm Type HP or Type N Asphalt	40
C		Prime Coat and SAMI treatment (size 10 S18RF)	0
		approximately 10mm thick	
D	BASE	Class 2 Crushed Rock (size 20mm)	110
		UPPER PAVEMENT TOTAL	190
E	UPPER SUBBASE	Class 2 Crushed Rock (size 20mm)	140
F	LOWER SUBBASE	Class 3 Crushed Rock (size 20mm). Compacted in 2 layers	150
G	CAPPING LAYER	Type A - Working platform achieving CBR > 5%; Properties: CBR >15.0%, Swell <1.5 %, Permeability < 1E-9 m/s (thickness to be confirmed during construction)	160
		TOTAL PAVEMENT DEPTH	640

NOTE:
REFER TO SITE GEOTECHNICAL PTY LTD REPORT TITLED "GEOTECHNICAL INVESTIGATION INCLUDING PAVEMENT DESIGN, FILL SPECIFICATION AND RECOMMENDATIONS FOR SEWERS, RETAINING WALLS AND WETLANDS" FOR COMPACTION DETAILS.
BASED UPON A CONTROLLED FILL CBR OF 2%

DESIGN PAVEMENT PROFILE FOR ACCESS STREET LEVEL 1

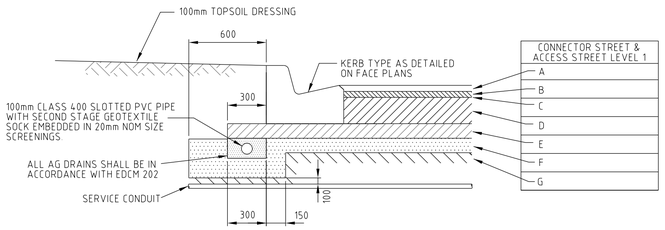
	PAVEMENT LAYER	DESCRIPTION	DEPTH (mm) ACCESS STREET LVL 1
A	ASPHALT WEARING COURSE	Size 10mm Type N Asphalt	30
B	ASPHALT STRUCTURAL COURSE	Size 10mm Type N Asphalt	30
C		Prime Coat and SAMI treatment (size 10 S18RF)	0
		approximately 10mm thick	
D	BASE	Class 2 Crushed Rock (size 20mm)	130
		UPPER PAVEMENT TOTAL	190
E	UPPER SUBBASE	Class 2 Crushed Rock (size 20mm)	100
F	LOWER SUBBASE	Class 3 Crushed Rock (size 20mm). Compacted in 2 layers	150
G	CAPPING LAYER	Type A - Working platform achieving CBR > 5%; Properties: CBR >15.0%, Swell <1.5 %, Permeability < 1E-9 m/s (thickness to be confirmed during construction)	160
		TOTAL PAVEMENT DEPTH	600

NOTE:
REFER TO SITE GEOTECHNICAL PTY LTD REPORT TITLED "GEOTECHNICAL INVESTIGATION INCLUDING PAVEMENT DESIGN, FILL SPECIFICATION AND RECOMMENDATIONS FOR SEWERS, RETAINING WALLS AND WETLANDS" FOR COMPACTION DETAILS.
BASED UPON A CONTROLLED FILL CBR OF 2%

DESIGN PAVEMENT PROFILE FOR ACCESS STREET LEVEL 2

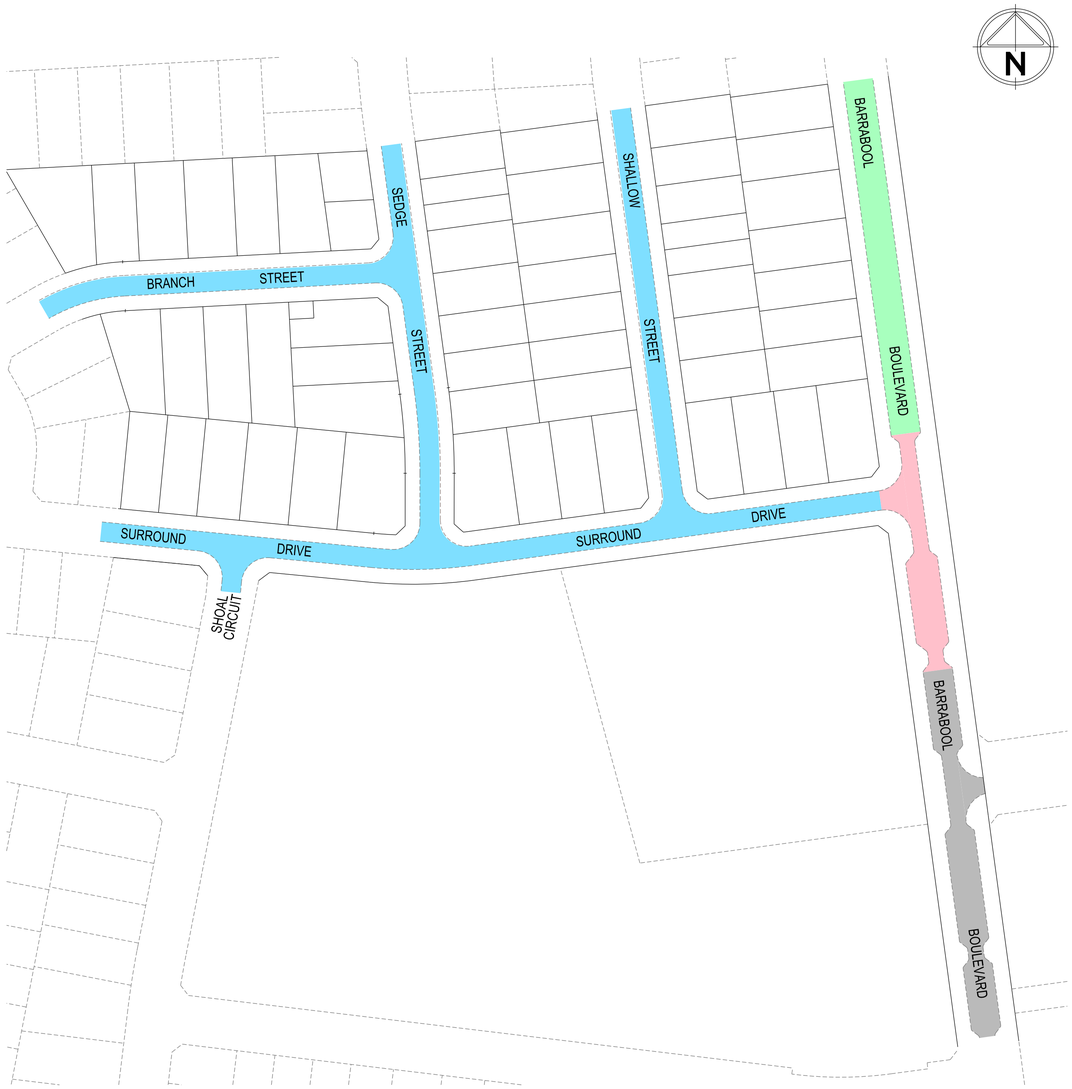
	PAVEMENT LAYER	DESCRIPTION	DEPTH (mm) ACCESS STREET LVL 2
A	ASPHALT WEARING COURSE	Size 14mm Type N, Class 170 or 320 binder	40
B	INTERMEDIATE COURSE	Size 20mm Type SI Asphalt, Class 320 binder	110
C	BASECOURSE	Size 20mm Type SI Asphalt, Class 320 binder	75
		Bituminous Prime	nominal
D	UPPER SUBBASE	20mm Class 2 Crushed Rock	105
		UPPER PAVEMENT TOTAL	330
E	LOWER SUBBASE	20mm Class 3 Crushed Rock	150
F	CAPPING LAYER	Type A - Working platform achieving CBR > 15%; Properties: CBR >8.0%, Swell <1.5 %, Permeability < 1E-9 m/s To be compacted in 2 layers	160
		TOTAL PAVEMENT DEPTH	640

NOTE:
REFER TO COFFEY SERVICES AUSTRALIA PTY LTD REPORT TITLED "GEOTECHNICAL INVESTIGATION AND PAVEMENT DESIGN" FOR COMPACTION DETAILS.
BASED UPON A CONTROLLED FILL CBR OF 1%



NEW CONSTRUCTION

N.T.S



PAVEMENT PLAN

1:1000;A1
0 10 20 30 40 50

DESIGN PAVEMENT PROFILE FOR ACCESS STREET LEVEL 2

	PAVEMENT LAYER	DESCRIPTION	DEPTH (mm) ACCESS STREET LVL 2
A	ASPHALT WEARING COURSE	Size 10mm Type N, Class 170 binder	40
B	ASPHALT STRUCTURAL COURSE	Size 10mm Type N, Class 170 binder	40
C		SAMI (size 10 Class S18RF)	nominal
		Bituminous Prime	nominal
D	GRANULAR BASE	20mm Class 2 Fine Crushed Rock	110
		UPPER PAVEMENT TOTAL	190
E	GRANULAR SUBBASE	Class 3 Fine Crushed Rock	290
F	CAPPING LAYER	Type A - Working platform achieving CBR > 5%; Properties: CBR >8.0%, Swell <1.5 %, Permeability < 1E-9 m/s To be compacted in 2 layers	150
G	ADDITIONAL SUBGRADE IMPROVEMENT	Type A - Working platform achieving CBR > 10%; Properties: CBR >8.0%, Swell <1.5 %, Permeability < 1E-9 m/s To be compacted in 2 layers	150
		TOTAL PAVEMENT DEPTH	780

NOTE:
REFER TO COFFEY SERVICES AUSTRALIA PTY LTD REPORT TITLED "GEOTECHNICAL INVESTIGATION AND PAVEMENT DESIGN" FOR COMPACTION DETAILS.
BASED UPON A CONTROLLED FILL CBR OF 2%.

ROAD TYPE DESIGNATIONS

ROAD NAME	ROAD PAVEMENT TYPE
BARRABOOL BOULEVARD	ACCESS STREET LEVEL 2
BARRABOOL BOULEVARD	ACCESS STREET LEVEL 2
BARRABOOL BOULEVARD	ACCESS STREET LEVEL 2
SURROUND DRIVE	ACCESS STREET LEVEL 1
BRANCH STREET	ACCESS STREET LEVEL 1
SHOAL CIRCUIT	ACCESS STREET LEVEL 1
SEDGE STREET	ACCESS STREET LEVEL 1
SHALLOW STREET	ACCESS STREET LEVEL 1

NOTE FOR SAMI TREATMENT

DESIGN AND APPLICATION OF SAMI, INCLUDING MATERIAL REQUIREMENTS, SHOULD COMPLY WITH STANDARD SPECIFICATION FOR ROADWORKS AND BRIDGEWORKS SECTION 408 AND THE CURRENT AUSTROADS SPRAYED SEAL DESIGN METHOD.

PAVEMENT DETAILS

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

THE DESIGN HAS BEEN EXTRACTED FROM THE COFFEY SERVICES AUSTRALIA PTY LTD REPORT TITLED "GEOTECHNICAL INVESTIGATION INCLUDING PAVEMENT DESIGN, FILL SPECIFICATION AND RECOMMENDATIONS FOR SEWERS, RETAINING WALLS AND WETLANDS" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED. A COPY OF THE DOCUMENT WILL BE PROVIDED TO YOU ON REQUEST.

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ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO COFFEY SERVICES AUSTRALIA PTY LTD AND SENT TO SPIIRE.

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED	M.L	10/10/19
0	CONSTRUCTION ISSUE	M.L	02/07/19

NOT TO SCALE

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FRASERS PROPERTY

Designed R. WEINBER
Checked B. IBBS
Authorised M. CAIRNEY
Date 15/06/2018

MAMBOURIN ESTATE STAGE 2
PAVEMENT PLAN

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED
Drg No **303977R28**
Rev **1**