Our Reference: 5657803

19 November 2019

Christopher Hagen
Breese Pitt Dixon Pty Ltd
U 1 19 Cato Street
Hawthorn East VIC 3123

Dear Chris,

PA 2017/5637 Aspire Estate Stage 22 – Amended Engineering Plans Approval Letter

The above mentioned amended plans, received by Council on 18 November 2019 are approved.

Please find attached the amended approved and stamped road & drainage plans.

Council believes the list below represents the latest amended engineering plan submission:

Project Reference: 8226 E/22

Sheet No.	**Revision**
01 of 43	Q
02 of 43	K
03 OF 43 to 04 of 43	E
05 of 43	C
06 of 43	I
07 OF 43	H
08 of 43	B
09 OF 43 to 11 of 43	C
12 OF 43 to 15 of 43	B
16 of 43	C
17 OF 43 to 23 of 43	B
24 of 43	C
25 OF 43 to 27 of 43	B
28 OF 43 to 29 of 43	C
30 of 43	B
31 of 43	C
22 of 43	B
33 OF 43 to 34 of 43	D
35 OF 43 to 36 of 43	C
37 of 43	J
38 of 43	B
39 OF 43 to 40 of 43	J
41 of 43	D
42 OF 43 to 43 of 43	A

The approval is subject to compliance of all statutory and legal obligations and granted with the understanding that the engineering consultant, developer and land owner take full responsibility for the design contained in the amended approved engineering plans.

This amended approval is subject to all the conditions, comments and notes in the original approval letter.

Should you have any queries, please contact me at Email: nihalj@melton.vic.gov.au or T:9747 7101

Regards,

Nihal Jayasekara
DEVELOPMENT ENGINEER

ATTENTION TO CONTRACTOR

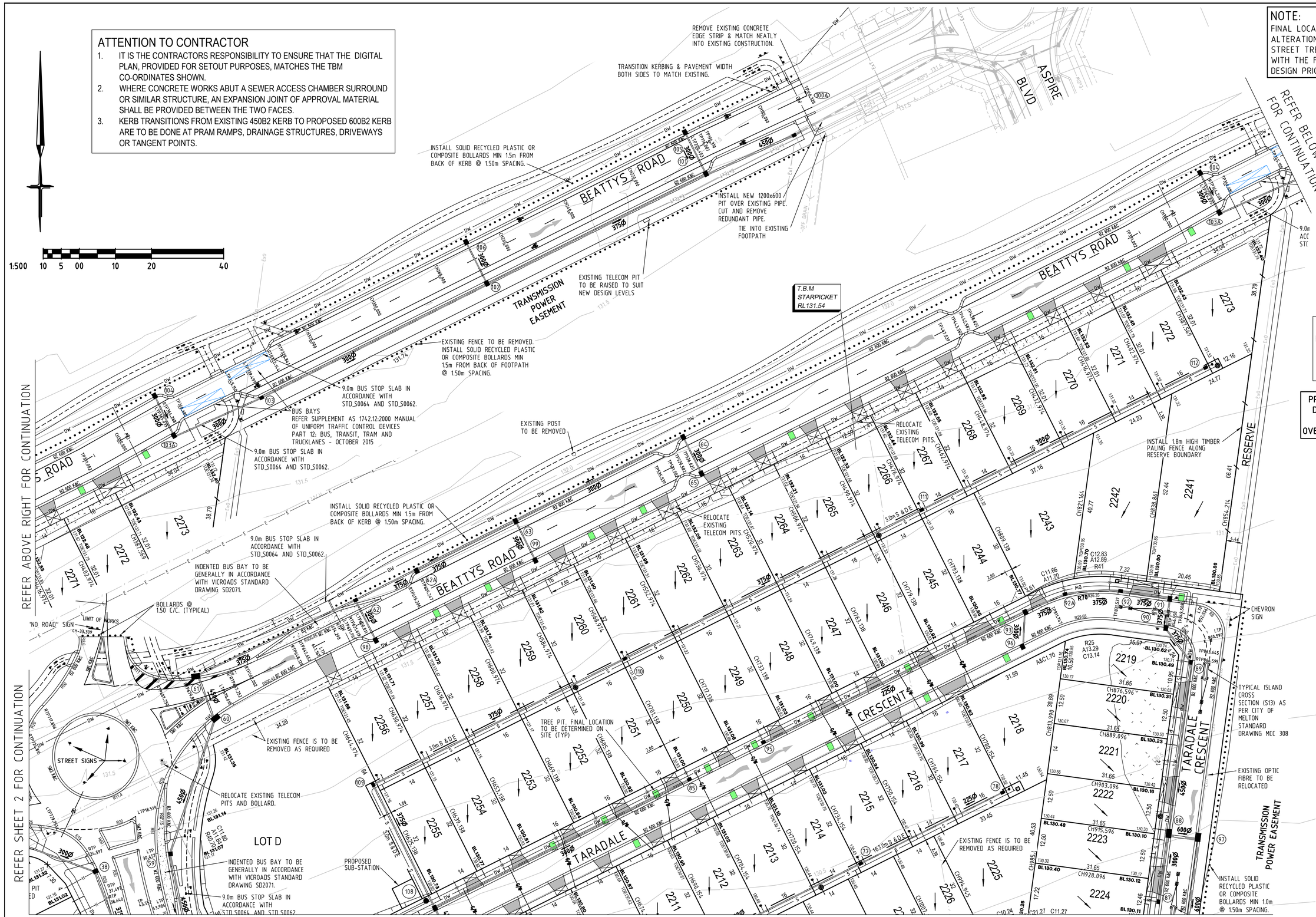
1. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM CO-ORDINATES SHOWN.
2. WHERE CONCRETE WORKS ABUT A SEWER ACCESS CHAMBER SURROUND OR SIMILAR STRUCTURE, AN EXPANSION JOINT OF APPROVAL MATERIAL SHALL BE PROVIDED BETWEEN THE TWO FACES.
3. KERB TRANSITIONS FROM EXISTING 450B2 KERB TO PROPOSED 600B2 KERB ARE TO BE DONE AT PRAM RAMPS, DRAINAGE STRUCTURES, DRIVEWAYS OR TANGENT POINTS.

NOTE:

FINAL LOCATIONS OF KERB AND CHANNEL ALTERATIONS FOR PASSIVE IRRIGATION AND STREET TREES WILL NEED TO BE CO-ORDINATED WITH THE FINAL LANDSCAPING AND SERVICES DESIGN PRIOR TO COMMENCEMENT OF CONSTRUCTION

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

PRELIMINARY LEVELS TO BE ADJUSTED DURING THE DETAILED DESIGN PHASE ONCE MW DRAINAGE SCHEME AND OVERLAND FLOWS HAVE BEEN APPROVED.

SHEET INDEX

SHT No.	VER	DESCRIPTION
1	Q	ROAD LAYOUT - SHEET 1
2	K	ROAD LAYOUT- SHEET 2
3	E	ROAD LAYOUT - SHEET 3
4	E	TYPICAL CROSS SECTIONS
5	C	ROAD PAVEMENT DETAILS
6	I	ROAD INTERSECTION DETAILS - SHEET 1
7	H	ROAD INTERSECTION DETAILS - SHEET 2
8	B	ROAD INTERSECTION DETAILS - SHEET 3
9	C	ROAD INTERSECTION DETAILS - SHEET 4
10	C	ROAD INTERSECTION DETAILS - SHEET 5
11	C	ROAD INTERSECTION DETAILS - SHEET 6
12	B	ROAD LONGSECTION - SHEET 1
13	B	ROAD LONGSECTION - SHEET 2
14	C	ROAD LONGSECTION - SHEET 3
15	B	ROAD CROSS SECTIONS - SHEET 1
16	B	ROAD CROSS SECTIONS - SHEET 2
17	B	ROAD CROSS SECTIONS - SHEET 3
18	B	ROAD CROSS SECTIONS - SHEET 4
19	B	ROAD CROSS SECTIONS - SHEET 5
20	B	ROAD CROSS SECTIONS - SHEET 6
21	B	ROAD CROSS SECTIONS - SHEET 7
22	B	ROAD CROSS SECTIONS - SHEET 8
23	B	ROAD CROSS SECTIONS - SHEET 9
24	C	ROAD CROSS SECTIONS - SHEET 10
25	B	ROAD CROSS SECTIONS - SHEET 11
26	B	ROAD CROSS SECTIONS - SHEET 12
27	B	ROAD CROSS SECTIONS - SHEET 13
28	F	ROAD CROSS SECTIONS - SHEET 14
29	C	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1
30	B	DRAINAGE LONGITUDINAL SECTIONS - SHEET 2
31	C	DRAINAGE LONGITUDINAL SECTIONS - SHEET 3
32	B	DRAINAGE LONGITUDINAL SECTIONS - SHEET 4
33	D	DRAINAGE LONGITUDINAL SECTIONS - SHEET 5
34	D	DRAINAGE LONGITUDINAL SECTIONS - SHEET 6
35	C	DRAINAGE LONGITUDINAL SECTIONS - SHEET 7
36	C	DRAINAGE LONGITUDINAL SECTIONS - SHEET 8
37	J	DRAINAGE PIT SCHEDULE
38	B	TYPICAL DETAILS & NOTES
39	J	SIGNAGE AND LINEMARKING - SHEET 1
40	J	SIGNAGE AND LINEMARKING - SHEET 2
41	D	MOBILITY PLAN
42	A	ROAD CROSS SECTIONS - SHEET 15
43	A	ROAD CROSS SECTIONS - SHEET 16

SERVICE OFFSETS AND LOCATION TABLE

ROAD NAME	RESERVE WIDTH	WATER	GAS	ELECTRICITY				TELECOMUNICATIONS		BOK	
		DW		POLE		U/G CABLE					
				SIDE	OFFSET	SIDE	OFFEST	SIDE	OFFSET	SIDE	SIDE
BEATTYS ROAD (Ch 166.32 - 536.00)	60.00	20.80 S / 3.60 S	3.10 S	N	1.00*	S	23.00	S	23.60	VARIES	VARIES
BEATTYS ROAD (Ch 536.00 - 767.00)	60.00	21.60 S / 3.60 S	3.10 S	N	1.00*	S	23.00	S	23.60	VARIES	VARIES
MAMIC BOULEVARD	31.50	3.10 W	2.25 W	E	1.00*	E	3.30	E	1.90	9.35 E	4.35 W
TARADALE CRESCENT (16.0m ROAD RESERVE)	16.00	2.60 N	2.10 N	S	1.00*	S	2.50	S	1.80	4.05 N	4.05 S
TARADALE CRESCENT (15.3m ROAD RESERVE)	15.30	2.95 W	2.55 W	E	1.00*	W	2.05	W	1.70	3.35 E	4.05 W
FAIRMONT CRESCENT	16.00	2.60 N	2.10 N	S	1.00*	S	2.50	S	1.80	4.05 N	4.05 S

NOTE: * OFFSET FROM BACK OF KERB

REFER SHEET 2 FOR CONTINUATION

PLAN
SCALE 1:500

SYMBOL LEGEND

Drains (Prop / Exist)
Sewer <300
Sewer >300
Water
House Drain
Property Inlet
Street Sign
PSM
Retaining Wall
Conduits 50mm
Conduits 100mm
Ex Gas/Elect/Tel
Proposed Tree Pits

Temporary Bench Mark (TBM)
Ex/Natural/FS Level 28.57
FS @ Building Line BL28.57
Top/Toe of Batter TOP28.57 / TOE28.57
Top Ret. Wall Level TW28.57
Fill Prop/Ex (0.2m–0.5m depth)
Fill Prop/Ex (> 0.5m depth)
Cut Prop/Ex (> 0.2m depth)
Threshold Treatment

VER.	DATE	REMARKS
N	07.06.19	SERVICE OFFSETS REVISED
M	23.05.19	SERVICE OFFSETS REVISED
L	29.04.19	LOT LAYOUT AMENDED
Q	14.11.19	SIGNAGE AND LINEMARKING AMENDED
P	16.10.19	SIGNAGE AND LINEMARKING UPDATED
O	22.07.19	SHEET NUMBERS AMENDED

AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE STAGE 22
ROAD LAYOUT - SHEET 1

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22
SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 01 OF 43 | Q

REFER SHEET 1 FOR CONTINUATION

PLAN
SCALE 1:500

SITE LOCALITY PLAN
NOT TO SCALE

1:500 10 5 00 10 20 40

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019

PRELIMINARY LEVELS TO BE ADJUSTED DURING THE DETAILED DESIGN PHASE ONCE MW DRAINAGE SCHEME AND OVERLAND FLOWS HAVE BEEN APPROVED.

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

NOTE:
FINAL LOCATIONS OF KERB AND CHANNEL ALTERATIONS FOR PASSIVE IRRIGATION AND STREET TREES WILL NEED TO BE CO-ORDINATED WITH THE FINAL LANDSCAPING AND SERVICES DESIGN PRIOR TO COMMENCEMENT OF CONSTRUCTION

SYMBOL LEGEND

	Prop	Exist
Drains		
Sewer <300	S	S
Sewer >300	S	S
Water	DW	DW
House Drain		
Property Inlet		
Street Sign		
PSM		
Retaining Wall		
Conduits 50mm	GW	GW
Conduits 100mm	W100	W100
Ex Gas/Elect/Tel	G E T	
Proposed Tree Pits		

Temporary Bench Mark (TBM)	
Ex/Natural/FS Level	28.57
FS @ Building Line	BL28.57
Top/Toe of Batter	TOP28.57 / TOE28.57
Top Ret. Wall Level	TW28.57
Fill Prop/Ex (0.2m–0.5m depth)	
Fill Prop/Ex (> 0.5m depth)	
Cut Prop/Ex (> 0.2m depth)	
Threshold Treatment	

AMENDMENTS

VER.	DATE	REMARKS
G	29.04.19	LOT LAYOUT AMENDED
F	22.03.19	TARRADALE REVISED
K	14.11.19	SIGNAGE AND LINEMARKING AMENDED
J	16.10.19	SIGANAGE AND LINEMARKING UPDATED
I	22.07.19	SHEET NUMBERS AMENDED
H	07.06.19	SIGNAGE AND LINEMARKING AMENDED

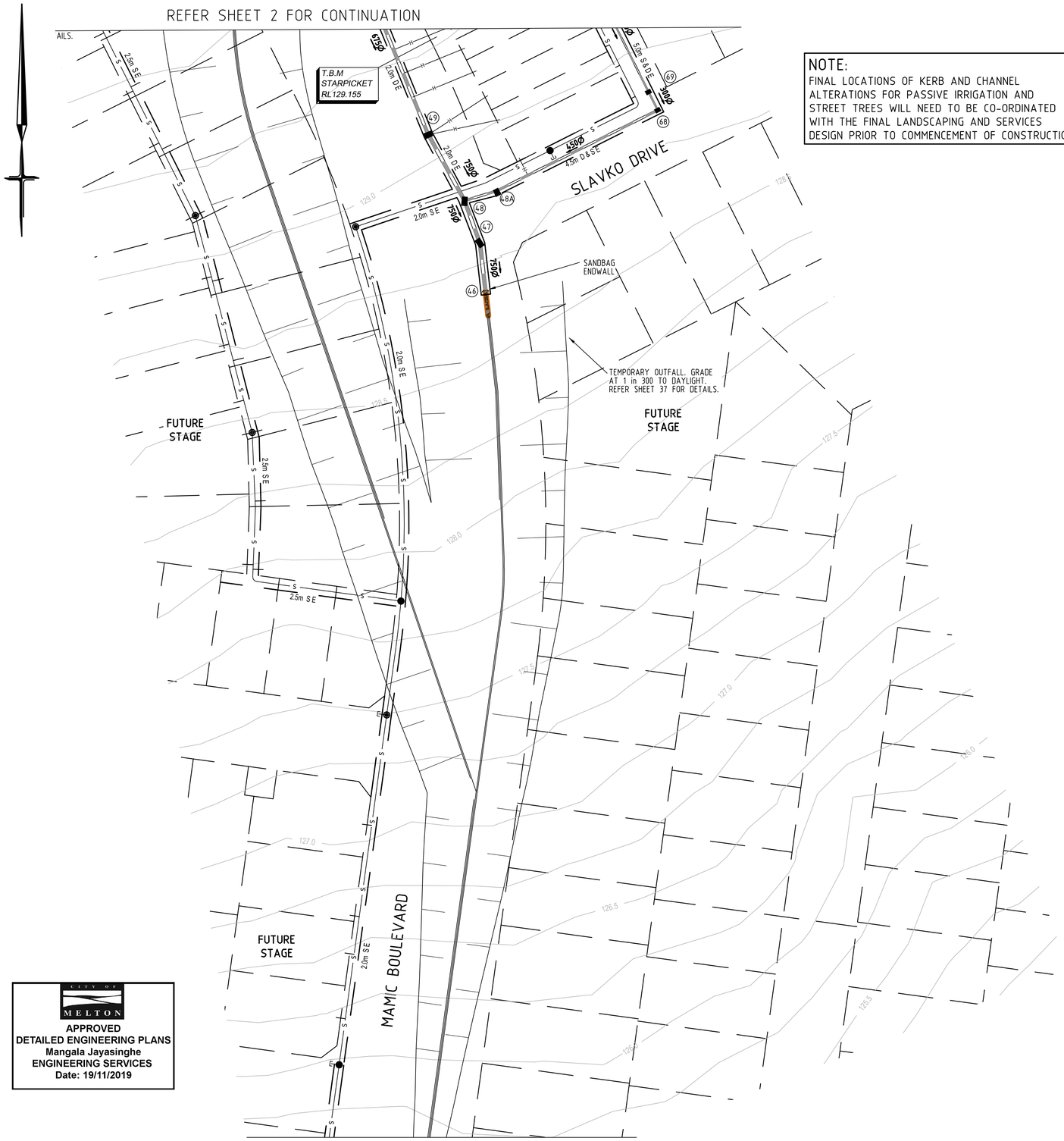
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE STAGE 22
ROAD LAYOUT - SHEET 2

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22
SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 02 OF 43 | K

REFER SHEET 2 FOR CONTINUATION

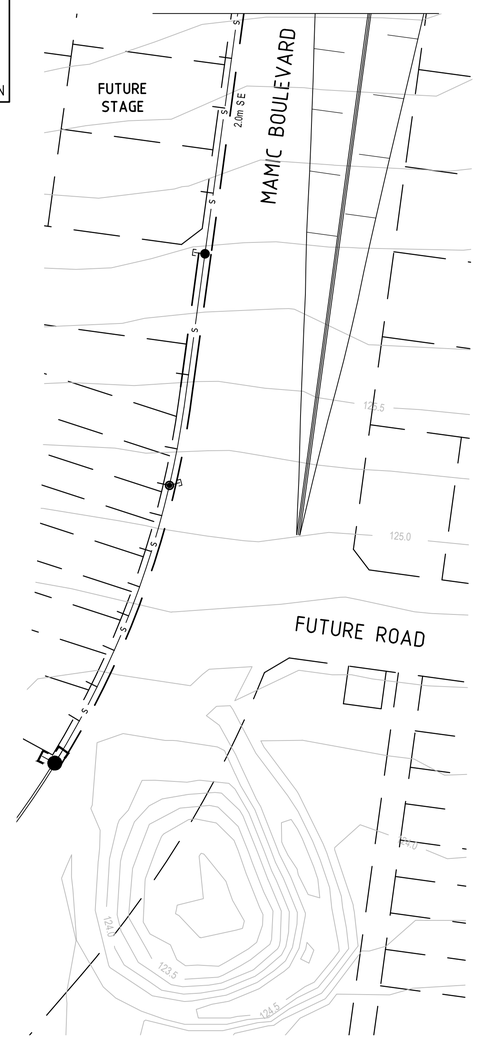


REFER TOP RIGHT FOR CONTINUATION

PLAN
SCALE 1:200

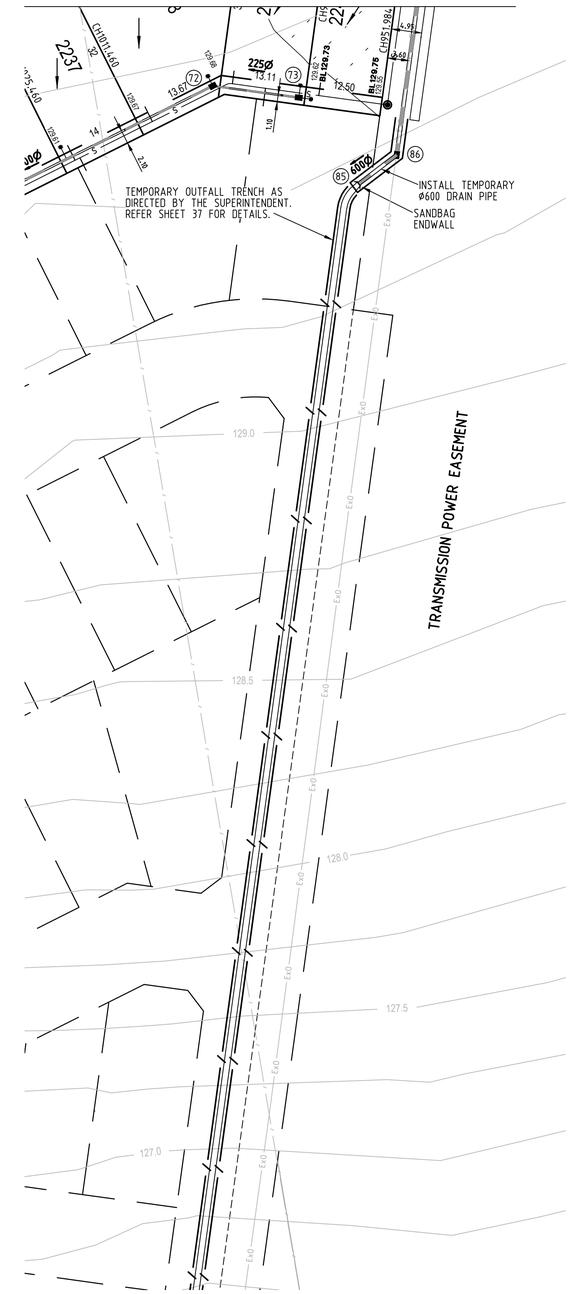
NOTE:
FINAL LOCATIONS OF KERB AND CHANNEL ALTERATIONS FOR PASSIVE IRRIGATION AND STREET TREES WILL NEED TO BE CO-ORDINATED WITH THE FINAL LANDSCAPING AND SERVICES DESIGN PRIOR TO COMMENCEMENT OF CONSTRUCTION

REFER BELOW LEFT FOR CONTINUATION



PLAN
SCALE 1:200

REFER SHEET 2 FOR CONTINUATION



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1:500 10 5 00 10 20 40

CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019

SYMBOL LEGEND

	Prop	Exist
Drains		
Sewer <300	S	S
Sewer >300	S	S
Water	DW	DW
House Drain	H	H
Property Inlet		
Street Sign		
PSM		
Retaining Wall		
Conduits 50mm	GW	GW
Conduits 100mm	W100	W100
Ex Gas/Elect/Tel	G E T	
Proposed Tree Pits		

Temporary Bench Mark (TBM)
Ex/Natural/FS Level 28.57
FS @ Building Line BL28.57
Top/Toe of Batter TOP28.57 / TOE28.57
Top Ret. Wall Level TW28.57
Fill Prop/Ex (0.2m–0.5m depth)
Fill Prop/Ex (> 0.5m depth)
Cut Prop/Ex (> 0.2m depth)
Threshold Treatment

AMENDMENTS

VER.	DATE	REMARKS
E	22.07.19	SHEET NUMBERS AMENDED
D	23.05.19	DRAINAGE OUTLET REVISED
C	22.03.19	DRAINAGE OUTLET REVISED
B	05.02.19	DRAINAGE AMENDED
A	15.10.18	CONSTRUCTION ISSUE

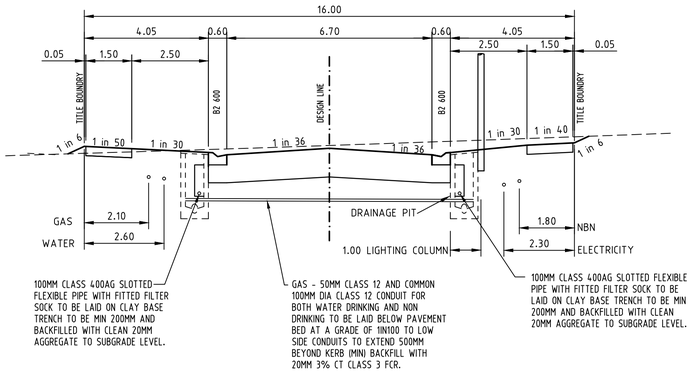
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

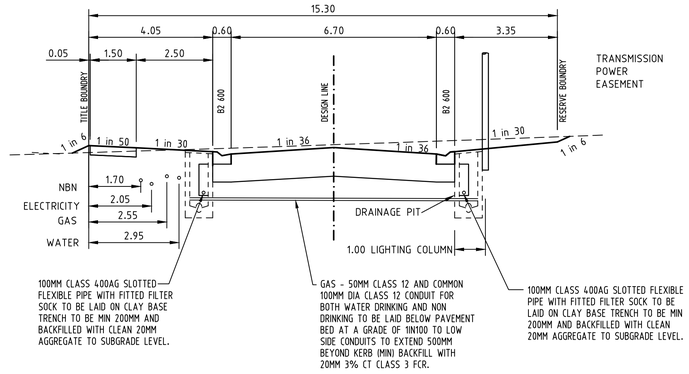
ASPIRE ESTATE STAGE 22
ROAD LAYOUT - SHEET 3

SCALE AS SHOWN | DATUM AHD | DATE APRIL '18

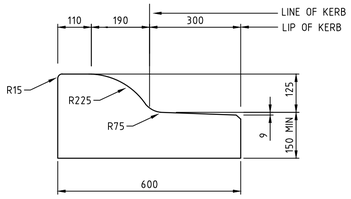
MUNICIPALITY MELTON
REFERENCE 8226 E/22
SHEET 03 OF 43 | E



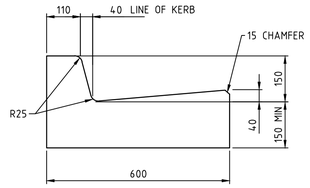
TYPICAL SECTION A-A
TARADALE CRESCENT & FAIRMONT CRESCENT
16.0m ROAD RESERVE



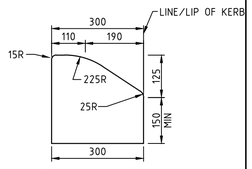
TYPICAL SECTION B-B
TARADALE CRESCENT 15.3m ROAD RESERVE



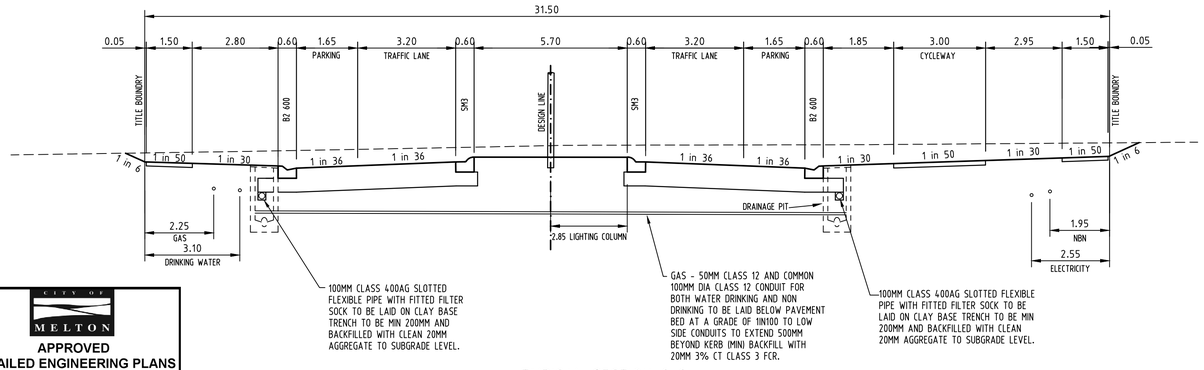
SM3 600 KERB DETAIL
NOT TO SCALE



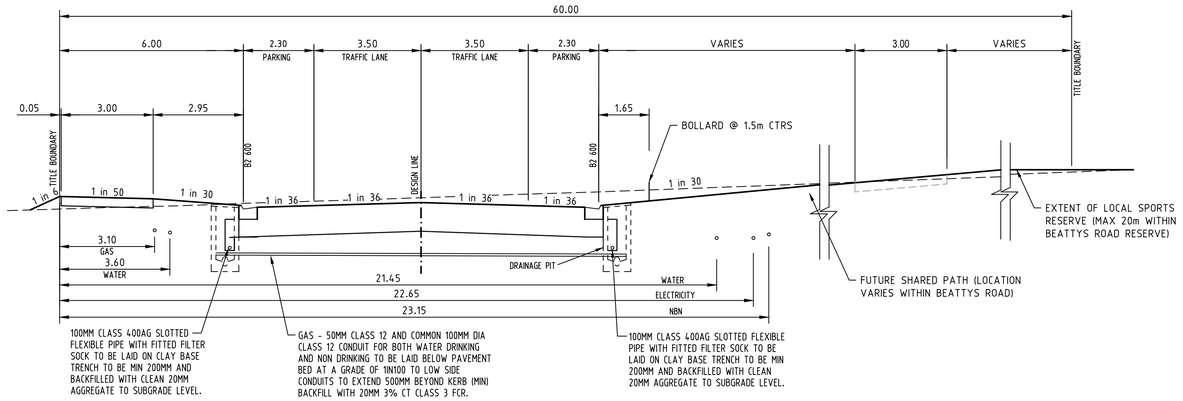
B2 600 KERB DETAIL
NOT TO SCALE



SM1 KERB DETAIL
NOT TO SCALE



TYPICAL SECTION C-C
MAMIC BOULEVARD ROAD RESERVE

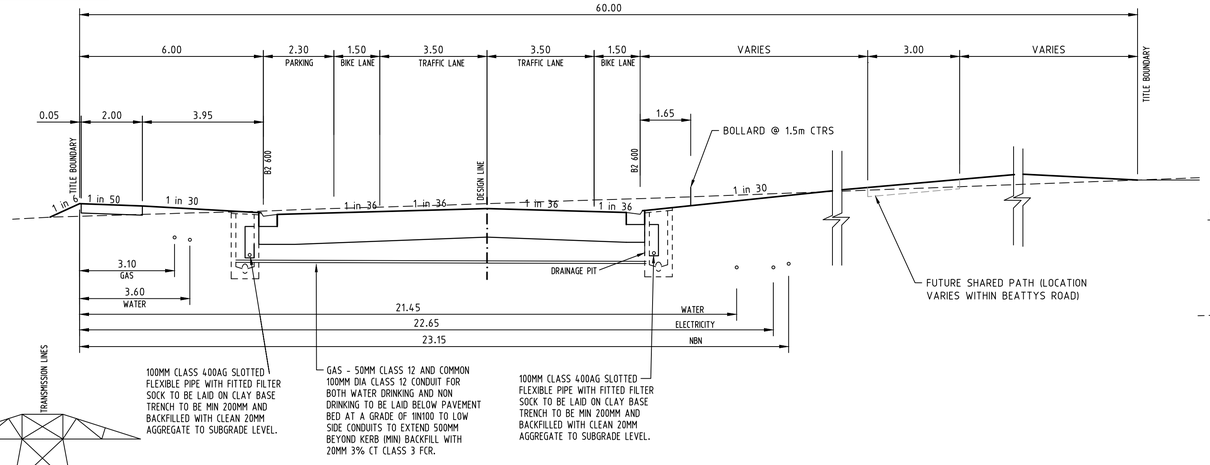


TYPICAL SECTION D-D
BEATTYS ROAD 60m ROAD RESERVE

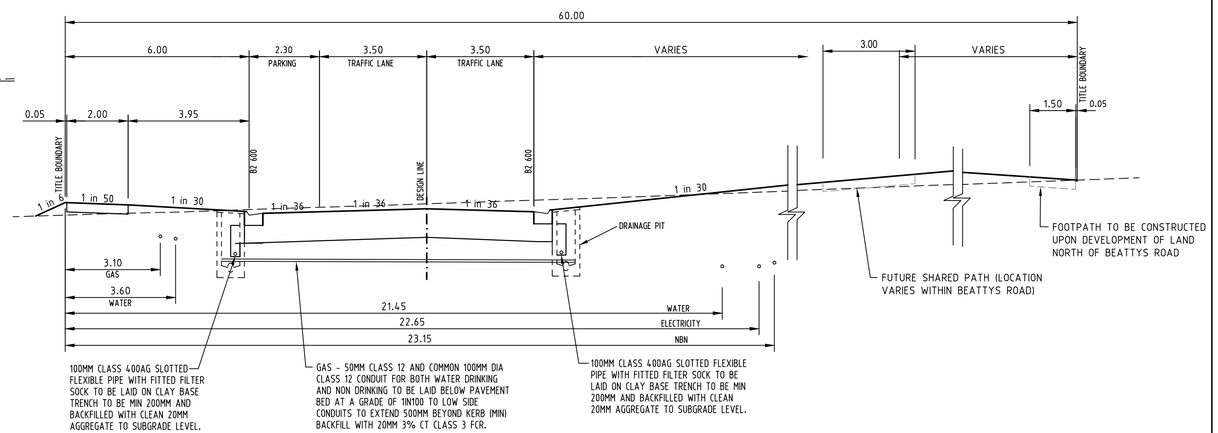
CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019

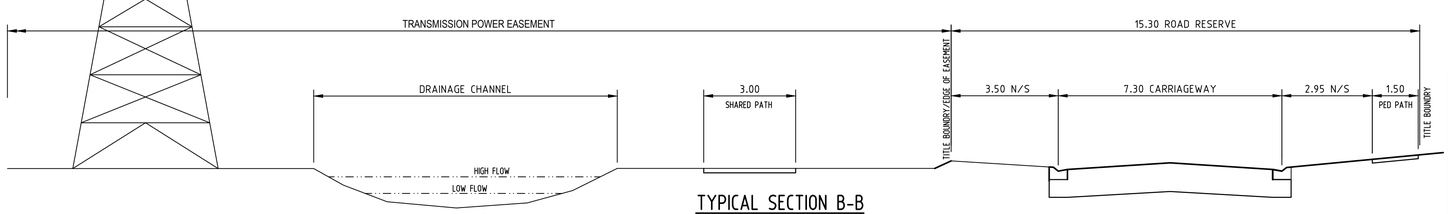
BEATTYS ROAD 60m ROAD RESERVE
(EAST OF MAMIC BOULEVARD)



TYPICAL SECTION E-E
BEATTYS ROAD 60m ROAD RESERVE



TYPICAL SECTION F-F
BEATTYS ROAD 60m ROAD RESERVE



TYPICAL SECTION B-B
SECTION THROUGH POWER TRANSMISSION EASEMENT
NOT TO SCALE

VER.	DATE	REMARKS
E	22.07.19	SHEET NUMBERS AMENDED
D	23.05.19	TYPICAL SECTIONS AMENDED
C	05.02.19	TYPICAL SECTION B-B AMENDED
B	24.10.18	WATER ON BEATTYS ROAD REVISED
A	15.10.18	CONSTRUCTION ISSUE

AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	354 C12
SURVEY	BPD
DESIGN	JGB
DRAWN	IMW
CHECKED	TBA

ASPIRE ESTATE
STAGE 22
TYPICAL CROSS SECTIONS

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22

SCALE NTS | DATUM AHD | DATE APRIL '18 | SHEET 04 OF 43 | E

a) 20mm SIZE 7mm TYPE 'L' ASPHALT WITH A C170 BINDER

b) 30mm SIZE 10mm TYPE 'N' ASPHALT WITH A C170 BINDER
SAMI SEAL WITH CLASS S18RF BINDER

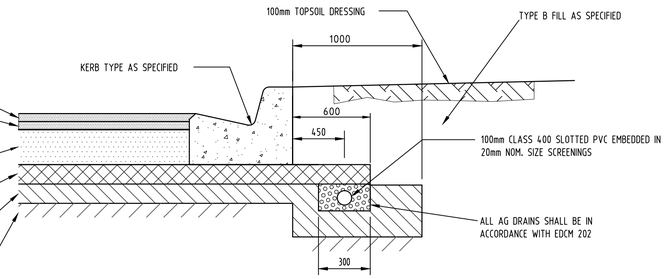
c) 140mm SIZE 20mm CLASS 2 FCR, COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT

d) 120mm SIZE 20mm CLASS 3 CEMENT MODIFIED CRUSHED ROCK, COMPACTED TO A LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 2% OF THE MODIFIED OPTIMUM MOISTURE CONTENT WITH A MINIMUM YOUNG'S MODULUS OF 500MPa AND A MAXIMUM YOUNG'S MODULUS OF 1500MPa

e) 150mm SELECT GRANULAR MATERIAL WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO 98% STANDARD DRY DENSITY RATIO WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT AND A PERCENTAGE SWELL OF LESS THEN 1.5%, MINIMUM PERMEABILITY SHALL NOT BE GREATER THAN 1x10-9 m/s.

TOTAL PAVEMENT DEPTH 460mm

f) NATURAL SILTY CLAY TESTED TO CONFIRM AN INSITU CBR OF AT LEAST 2.0% OR APPROVED FILL COMPACTED TO AT LEAST 100% STANDARD DRY DENSITY RATIO (SOAKED CBR ≥(2.0%) WITHIN 2% OF THE STANDARD OPTIMUM MOISTURE CONTENT. MINIMUM PERMEABILITY SHALL NOT BE GREATER THAN 1x10-9 m/s.



PAVEMENT DETAILS
TARADALE CRESCENT - 460mm DEPTH

a) 30mm SIZE 10mm TYPE 'N' ASPHALT WITH A C170 BINDER

b) 30mm SIZE 10mm TYPE 'N' ASPHALT WITH A C170 BINDER
SAMI SEAL WITH CLASS S18RF BINDER

c) 130mm SIZE 20mm CLASS 2 FCR, COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT

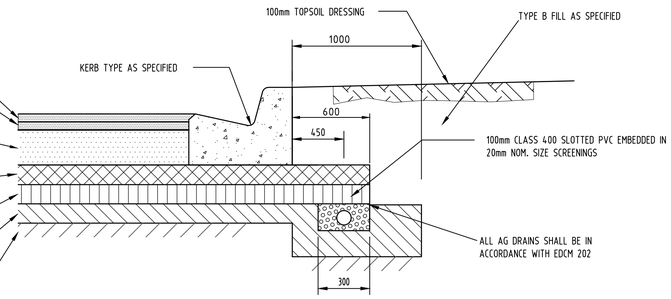
d) 100mm SIZE 20mm CLASS 3 CEMENT MODIFIED CRUSHED ROCK, COMPACTED TO A LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 2% OF THE MODIFIED OPTIMUM MOISTURE CONTENT WITH A MINIMUM YOUNG'S MODULUS OF 500MPa AND A MAXIMUM YOUNG'S MODULUS OF 1500MPa

e) 100mm SIZE 20mm CLASS 4 FCR, COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT

f) 150mm SELECT GRANULAR MATERIAL WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO 98% STANDARD DRY DENSITY RATIO WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT AND A PERCENTAGE SWELL OF LESS THEN 1.5%. MINIMUM PERMEABILITY SHALL NOT BE GREATER THAN 1x10-9 m/s.

TOTAL PAVEMENT DEPTH 540mm

g) NATURAL SILTY CLAY TESTED TO CONFIRM AN INSITU CBR OF AT LEAST 2.0% OR APPROVED FILL COMPACTED TO AT LEAST 100% STANDARD DRY DENSITY RATIO (SOAKED CBR ≥(2.0%) WITHIN 2% OF THE STANDARD OPTIMUM MOISTURE CONTENT. MINIMUM PERMEABILITY SHALL NOT BE GREATER THAN 1x10-9 m/s.



PAVEMENT DETAILS
FAIRMONT CRESCENT - 540mm DEPTH

a) 40mm SIZE 14mm TYPE 'H' ASPHALT WITH A C320 BINDER

b) 75mm SIZE 20mm TYPE 'SI' ASPHALT WITH A C320 BINDER

c) 75mm SIZE 20mm TYPE 'SF' ASPHALT WITH A C320 BINDER

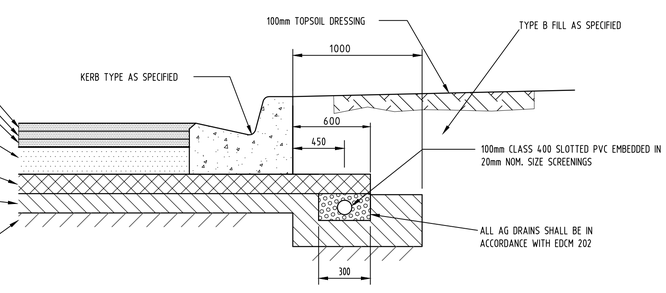
d) 100mm SIZE 20mm CLASS 2 CR, COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT

e) 100mm SIZE 20mm CLASS 4 CR, COMPACTED TO AT LEAST 95% MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT

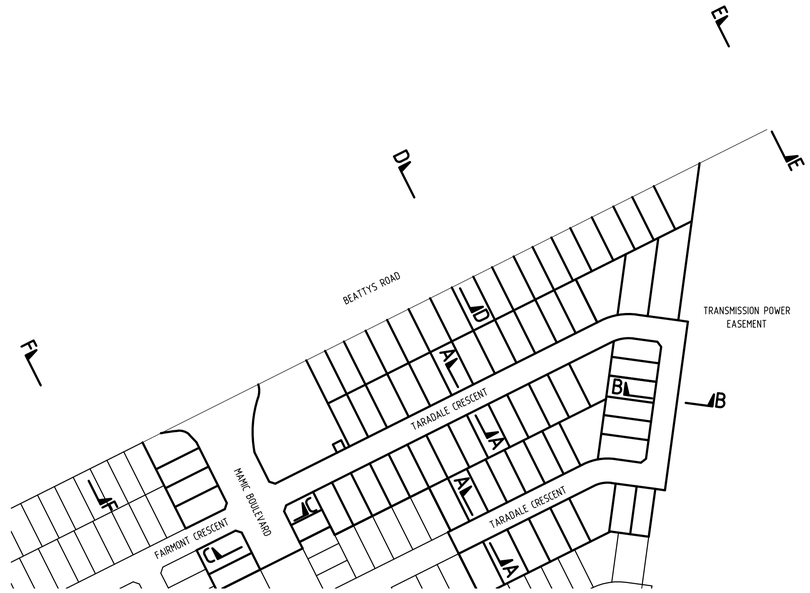
f) 170mm SELECT GRANULAR MATERIAL WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO 98% STANDARD DRY DENSITY RATIO WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT AND A PERCENTAGE SWELL OF LESS THEN 1.5%. MINIMUM PERMEABILITY SHALL NOT BE GREATER THAN 1x10-9 m/s.

TOTAL PAVEMENT DEPTH 560mm

g) NATURAL SILTY CLAY TESTED TO CONFIRM AN INSITU CBR OF AT LEAST 2.0% OR APPROVED FILL COMPACTED TO AT LEAST 100% STANDARD DRY DENSITY RATIO (SOAKED CBR ≥(2.0%) WITHIN 2% OF THE STANDARD OPTIMUM MOISTURE CONTENT. MINIMUM PERMEABILITY SHALL NOT BE GREATER THAN 1x10-9 m/s.



PAVEMENT DETAILS
MAMIC BOULEVARD - 560m DEPTH



PLAN
NOT TO SCALE

a) 40mm SIZE 14mm TYPE 'H' ASPHALT WITH A C320 BINDER

b) 75mm SIZE 20mm TYPE 'SI' ASPHALT WITH A C320 BINDER

c) 75mm SIZE 20mm TYPE 'SF' ASPHALT WITH A C320 BINDER

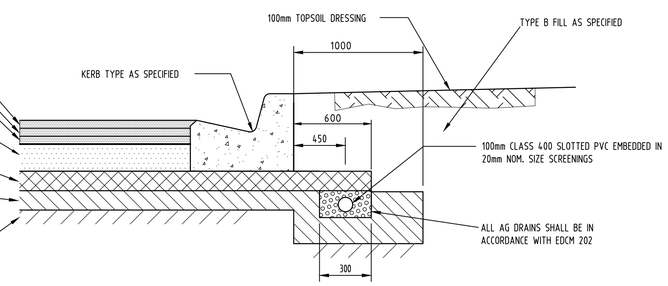
d) 120mm SIZE 20mm CLASS 2 CR, COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT

e) 120mm SIZE 20mm CLASS 4 CR, COMPACTED TO AT LEAST 95% MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT

f) 170mm SELECT GRANULAR MATERIAL WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO 98% STANDARD DRY DENSITY RATIO WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT AND A PERCENTAGE SWELL OF LESS THEN 1.5%. MINIMUM PERMEABILITY SHALL NOT BE GREATER THAN 1x10-9 m/s.

TOTAL PAVEMENT DEPTH 600mm

g) NATURAL SILTY CLAY TESTED TO CONFIRM AN INSITU CBR OF AT LEAST 2.0% OR APPROVED FILL COMPACTED TO AT LEAST 100% STANDARD DRY DENSITY RATIO (SOAKED CBR ≥(2.0%) WITHIN 2% OF THE STANDARD OPTIMUM MOISTURE CONTENT. MINIMUM PERMEABILITY SHALL NOT BE GREATER THAN 1x10-9 m/s.



PAVEMENT DETAILS
BEATTYS ROAD - 600mm DEPTH

a) 40mm SIZE 14mm TYPE 'V' ASPHALT WITH A C320 BINDER

b) 75mm SIZE 20mm TYPE 'SI' ASPHALT WITH A C320 BINDER

c) 75mm SIZE 20mm TYPE 'SF' ASPHALT WITH A C320 BINDER

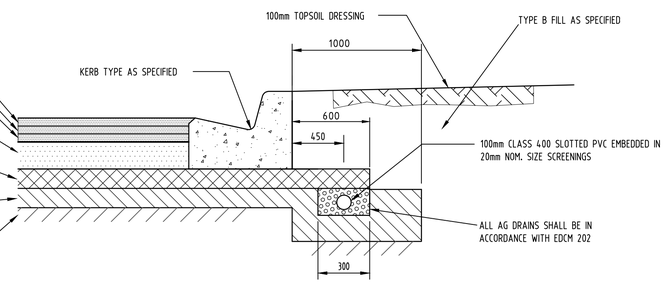
d) 100mm SIZE 20mm CLASS 3 CEMENT MODIFIED CRUSHED ROCK, COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 2% OF THE MODIFIED OPTIMUM MOISTURE CONTENT WITH A MINIMUM YOUNG'S MODULUS OF 500MPa AND A MAXIMUM YOUNG'S MODULUS OF 1500MPa

e) 100mm SIZE 20mm CLASS 4 CR, COMPACTED TO AT LEAST 95% MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT

f) 210mm SELECT GRANULAR MATERIAL WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO 98% STANDARD DRY DENSITY RATIO WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT AND A PERCENTAGE SWELL OF LESS THEN 1.5%. MINIMUM PERMEABILITY SHALL NOT BE GREATER THAN 1x10-9 m/s.

TOTAL PAVEMENT DEPTH 600mm

g) NATURAL SILTY CLAY TESTED TO CONFIRM AN INSITU CBR OF AT LEAST 2.0% OR APPROVED FILL COMPACTED TO AT LEAST 100% STANDARD DRY DENSITY RATIO (SOAKED CBR ≥(2.0%) WITHIN 2% OF THE STANDARD OPTIMUM MOISTURE CONTENT. MINIMUM PERMEABILITY SHALL NOT BE GREATER THAN 1x10-9 m/s.



PAVEMENT DETAILS
INTERSECTIONS OF BEATTYS ROAD AND MAMIC BLVD &
INTERSECTION OF MAMIC BLVD AND TARADALE CRESCENT - 600m DEPTH

CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019

AMENDMENTS

VER.	DATE	REMARKS
C	22.07.19	SHEET NUMBERS AMENDED
B	29.04.19	LOT LAYOUT AMENDED
A	15.10.18	CONSTRUCTION ISSUE

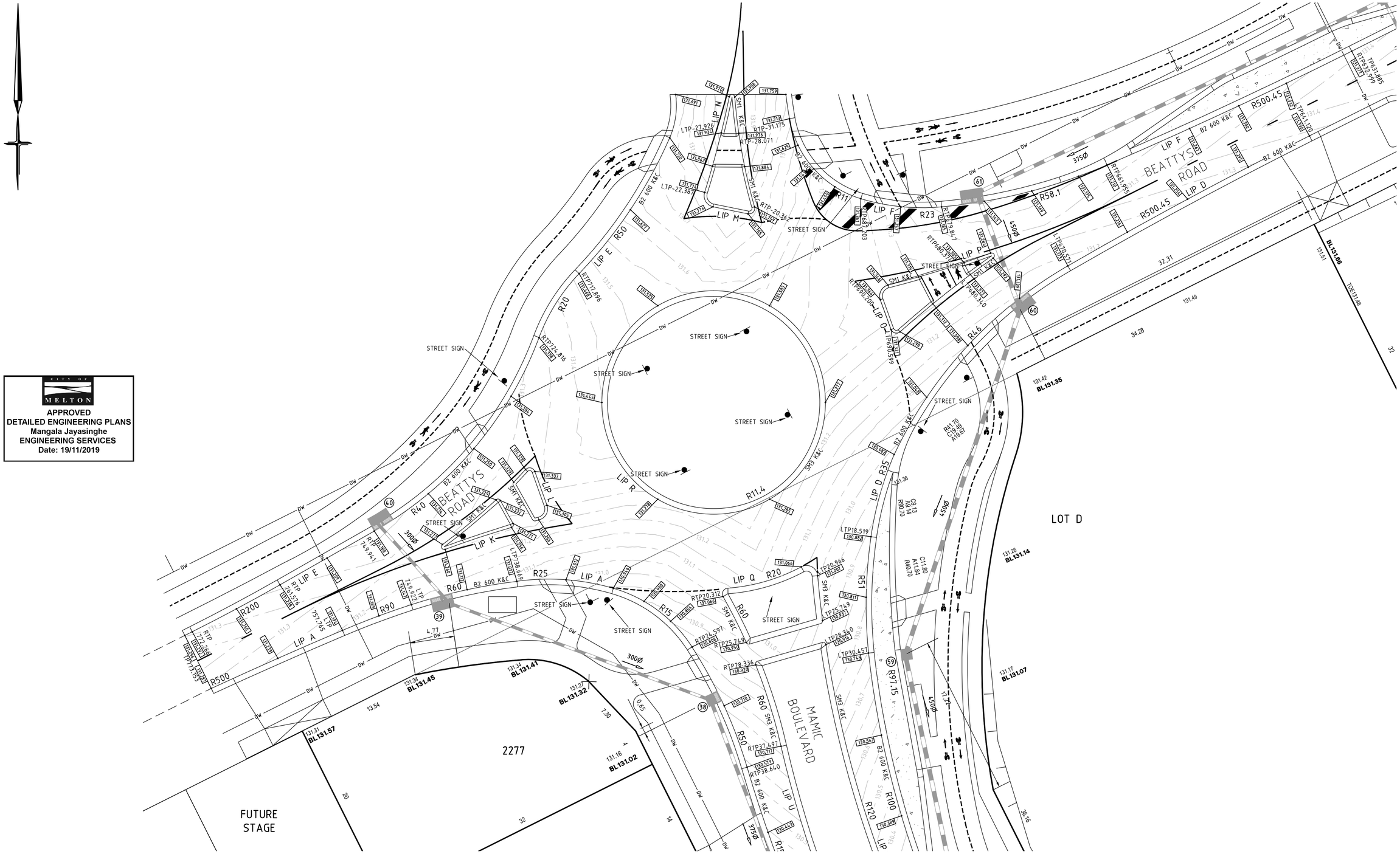
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE
STAGE 22
ROAD PAVEMENT DETAILS

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22

SCALE NTS | DATUM AHD | DATE APRIL '18 | SHEET 05 OF 43 | C



CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019

INTERSECTION DETAILS

SCALE 1:200

ALL SETOUT DETAILS ARE PROVIDED AT LIP OF KERB

1:20 VER 0.4 0.2 00 0.4 0.8 0.16

1:200 HOR 4 2 00 4 8 16

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

AMENDMENTS			
G	07.06.19	SIGNAGE & LINEMARKING AMENDED	
F	29.04.19	LOT LAYOUT AMENDED	
E	15.03.19	ROUNDABOUT DESIGN AMENDED	
D	23.01.19	TITLE BOUNDARY AMENDED	
I	14.11.19	SIGNAGE AND LINEMARKING AMENDED	
H	22.07.19	SHEET NUMBERS AMENDED	
VER.	DATE	REMARKS	

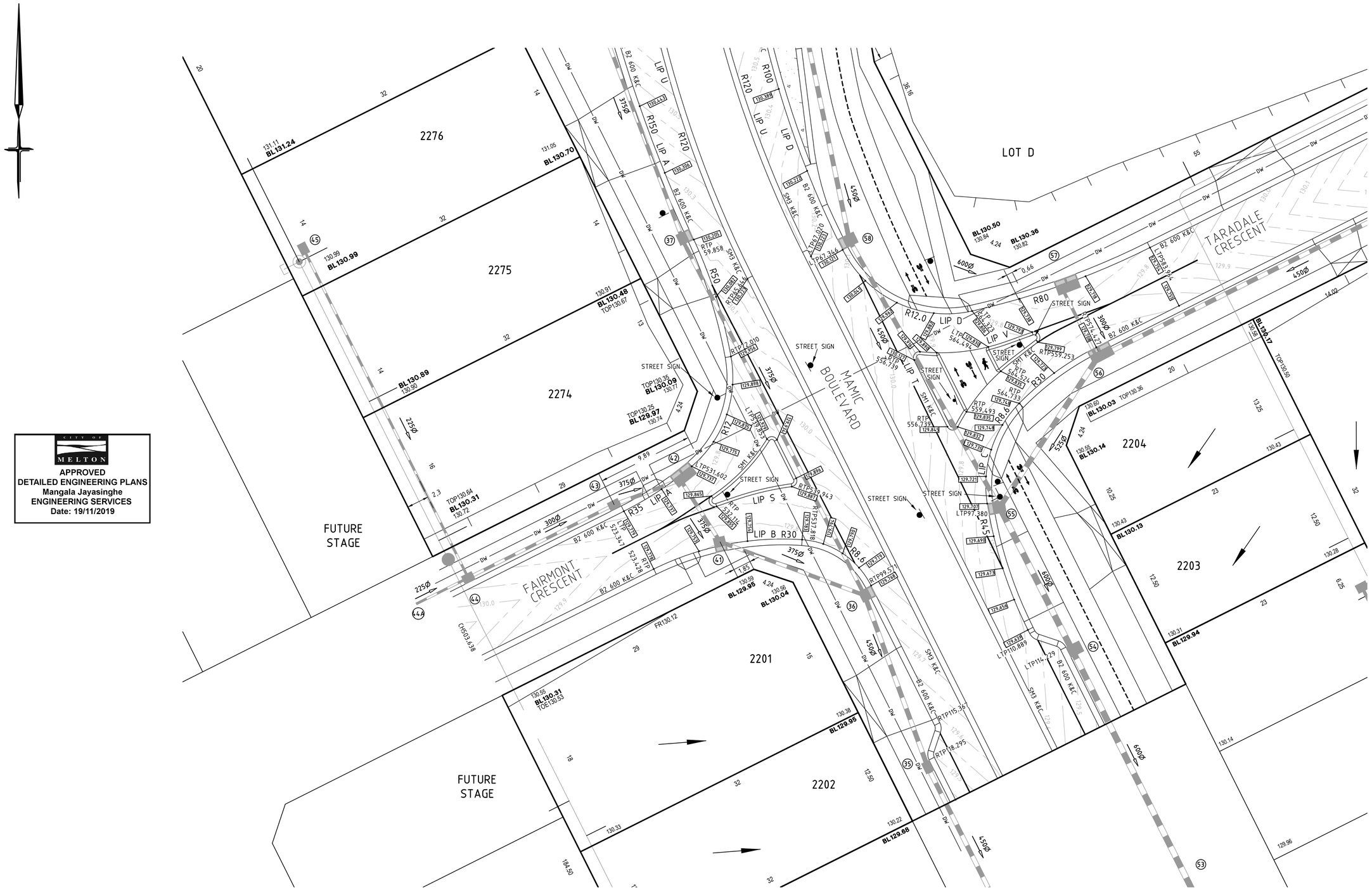
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE STAGE 22

INTERSECTION DETAILS - SHEET 1

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22
SCALE AS SHOWN | DATUM AHD | DATE APRIL '18
SHEET 06 OF 43 | I



APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019

INTERSECTION DETAILS

SCALE 1:200

ALL SETOUT DETAILS ARE PROVIDED AT LIP OF KERB

1:20 VER 0.4 0.2 00 0.4 0.8 0.16
1:200 HOR 4 2 00 4 8 16

WARNING
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AMENDMENTS

VER.	DATE	REMARKS
G	16.10.19	SIGNAGE AND LINEMARKING UPDATED
F	22.07.19	SHEET NUMBERS AMENDED
E	06.06.19	SIGNAGE & LINEMARKING AMENDED
D	29.04.19	LOT LAYOUT AMENDED
C	23.01.19	TITLE BOUNDARY AMENDED
H	14.11.19	SIGNAGE AND LINEMARKING AMENDED

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

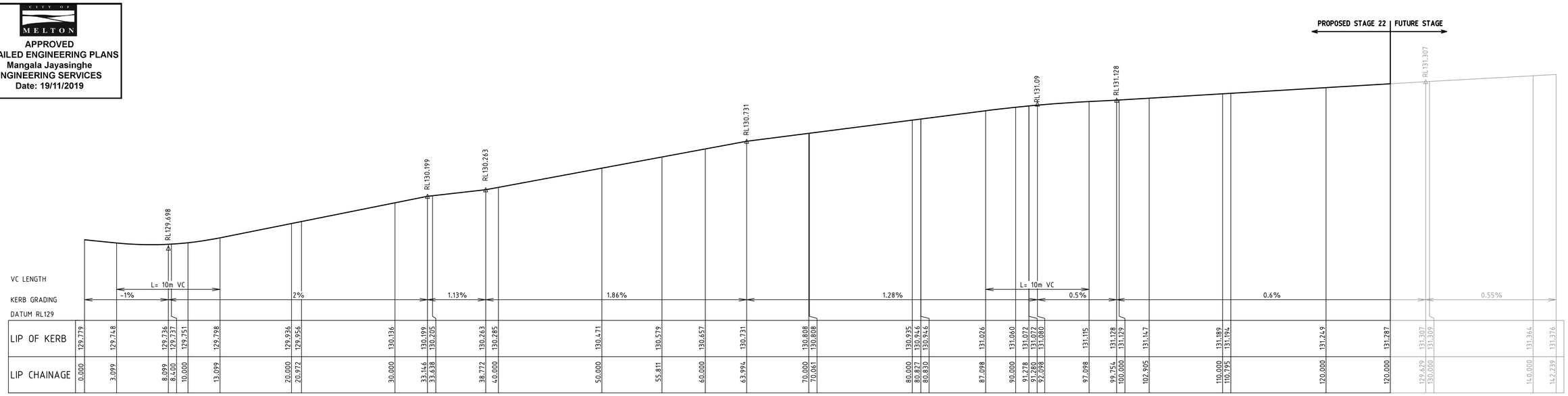
ASPIRE ESTATE STAGE 22

INTERSECTION DETAILS - SHEET 2

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22
SCALE AS SHOWN | DATUM AHD | DATE APRIL '18
SHEET 07 OF 43 | H

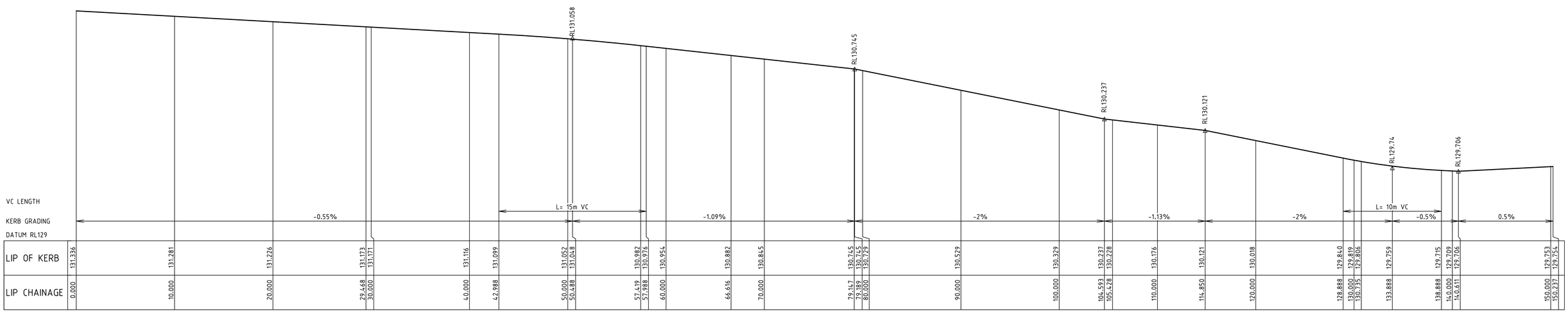
CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



LIP OF KERB	LIP CHAINAGE
129.779	0.000
129.748	3.099
129.736	8.099
129.737	8.400
129.751	10.000
129.798	13.099
129.936	20.000
129.956	20.972
130.136	30.000
130.199	33.146
130.205	33.638
130.263	38.772
130.285	40.000
130.471	50.000
130.579	55.811
130.657	60.000
130.731	63.994
130.808	70.000
130.808	70.061
130.935	80.000
130.946	80.827
130.946	80.830
131.026	87.098
131.060	90.000
131.072	91.278
131.072	91.280
131.080	92.098
131.115	97.098
131.128	99.754
131.129	100.000
131.147	102.905
131.189	110.000
131.194	110.795
131.249	120.000
131.287	120.000
131.307	129.629
131.309	130.000
131.364	140.000
131.376	142.239

LIP LINE A



LIP OF KERB	LIP CHAINAGE
131.336	0.000
131.281	10.000
131.226	20.000
131.173	29.468
131.171	30.000
131.116	40.000
131.099	42.988
131.052	50.000
131.048	50.488
130.982	57.419
130.976	57.988
130.954	60.000
130.882	66.616
130.845	70.000
130.745	79.147
130.745	79.189
130.729	80.000
130.529	90.000
130.329	100.000
130.237	104.593
130.228	105.428
130.176	110.000
130.121	114.850
130.018	120.000
129.840	128.888
129.819	130.000
129.806	130.735
129.759	133.888
129.715	138.888
129.709	140.000
129.706	140.611
129.753	150.000
129.754	150.237

LIP LINE D

ALL SETOUT DETAILS
ARE PROVIDED
AT LIP OF KERB

1:20 VER 0.4 0.2 00 0.4 0.8 0.16
1:200 HOR 4 2 00 4 8 16

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

AMENDMENTS

VER.	DATE	REMARKS
B	22.07.19	SHEET NUMBERS AMENDED
A	15.10.18	CONSTRUCTION ISSUE

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

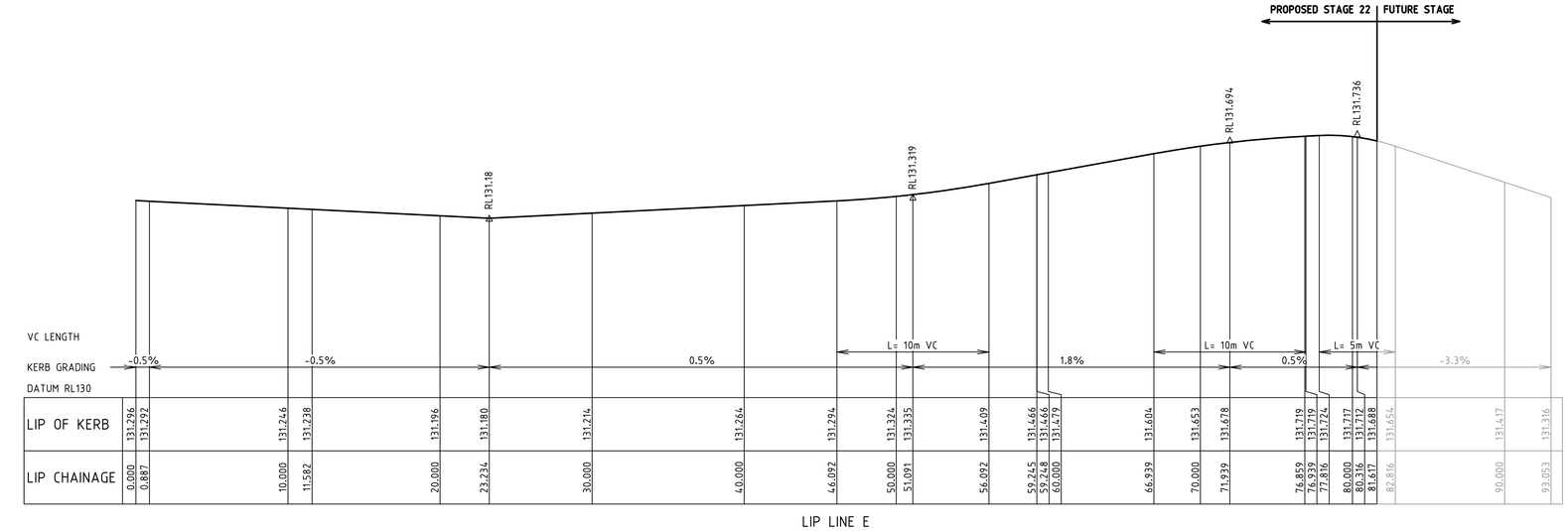
ASPIRE ESTATE STAGE 22
INTERSECTION DETAILS - SHEET 3

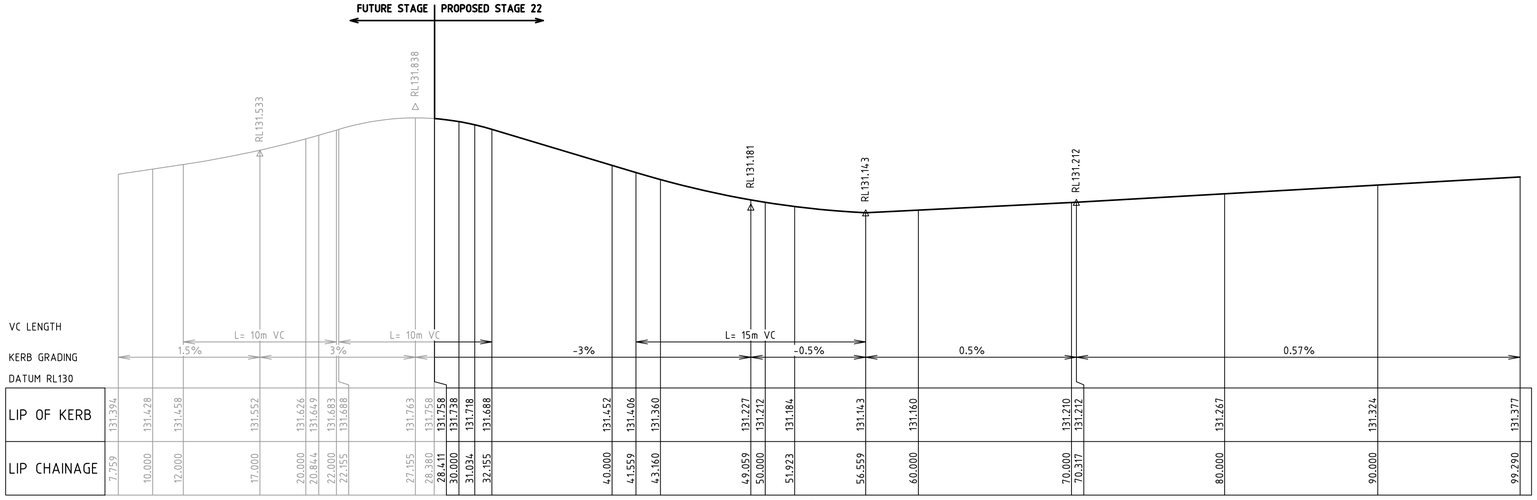
MUNICIPALITY: MELTON
REFERENCE: 8226 E/22

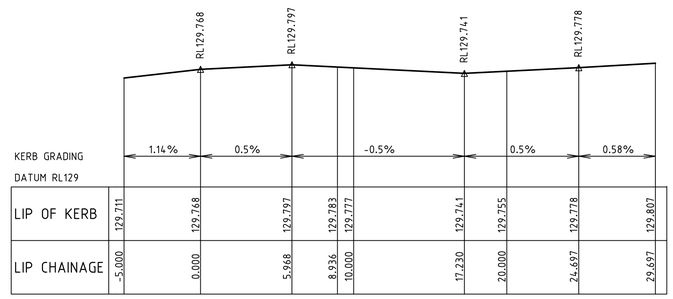
SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 08 OF 43 | B

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019







ALL SETOUT DETAILS
ARE PROVIDED
AT LIP OF KERB

1:20 VER 0.4 0.2 00 0.4 0.8 0.16
1:200 HOR 4 2 00 4 8 16

WARNING
BEWARE OF UNDERGROUND SERVICES
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AMENDMENTS

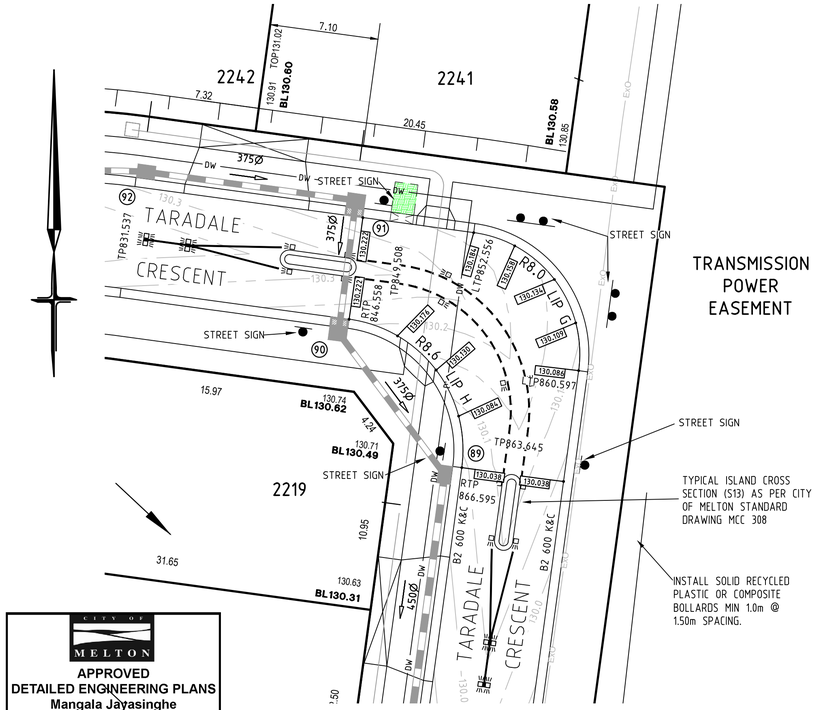
VER.	DATE	REMARKS
C	22.07.19	SHEET NUMBERS AMENDED
B	15.03.19	LIP LINE E & F AMENDED
A	15.10.18	CONSTRUCTION ISSUE

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

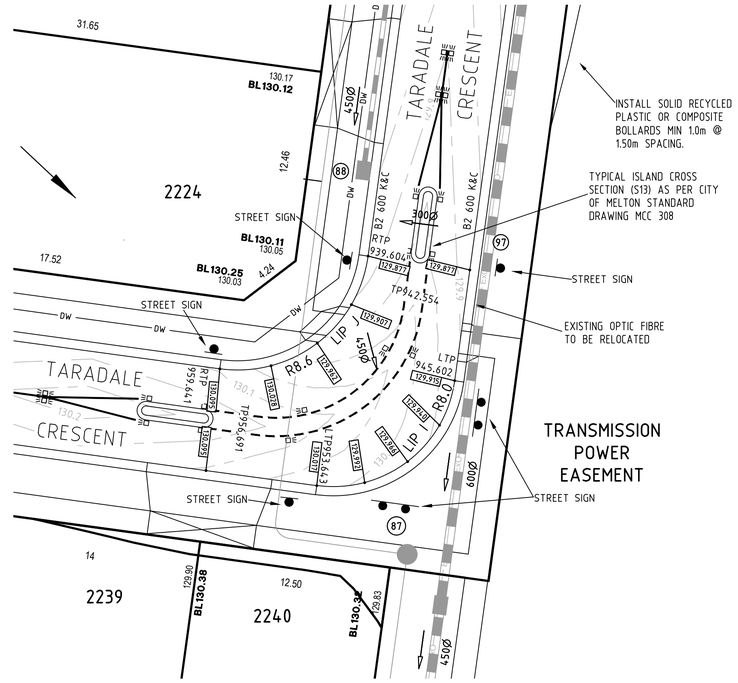
ASPIRE ESTATE
STAGE 22
INTERSECTION DETAILS - SHEET 4

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22
SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 09 OF 43 | C



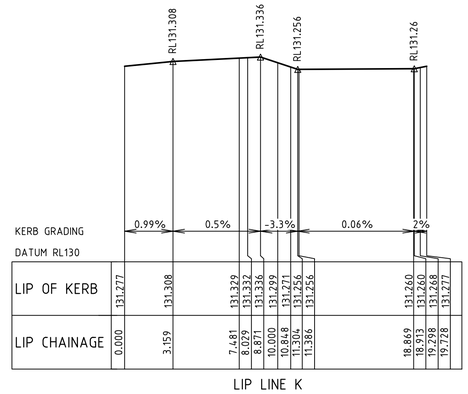
INTERSECTION DETAILS

SCALE 1:200



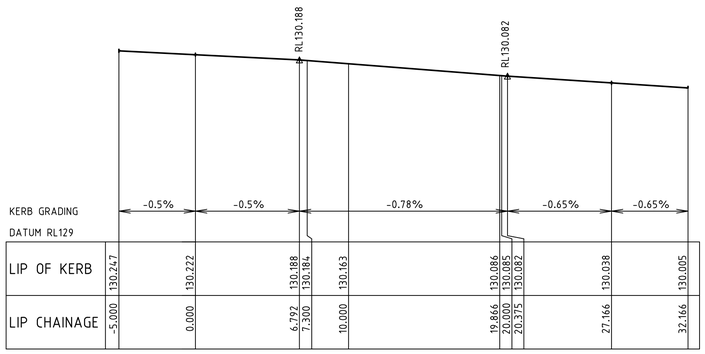
INTERSECTION DETAILS

SCALE 1:200



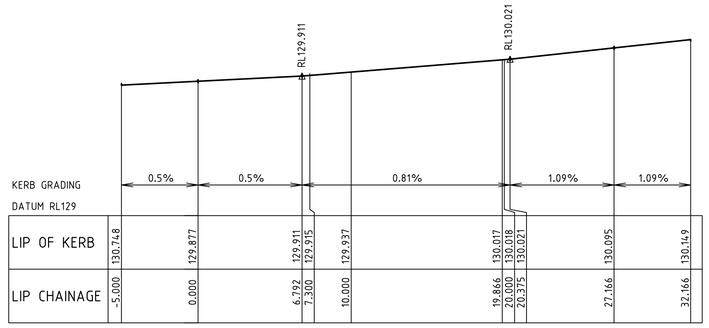
LIP OF KERB	131.277	131.308	131.329	131.332	131.336	131.299	131.256	131.256	131.260	131.260	131.268	131.277
LIP CHAINAGE	0.000	3.159	7.481	8.029	8.871	10.000	10.848	11.306	11.386	18.869	18.919	19.198	19.728

LIP LINE K



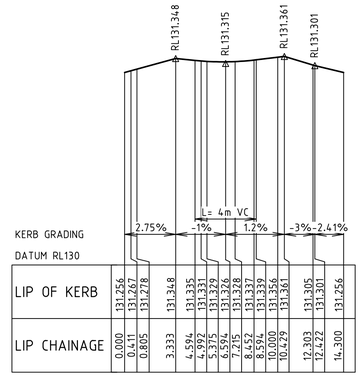
LIP OF KERB	130.247	130.222	130.188	130.184	130.163	130.086	130.085	130.082	130.038	130.005
LIP CHAINAGE	-5.000	0.000	6.792	7.300	10.000	19.866	20.000	20.375	27.166	32.166

LIP LINE G



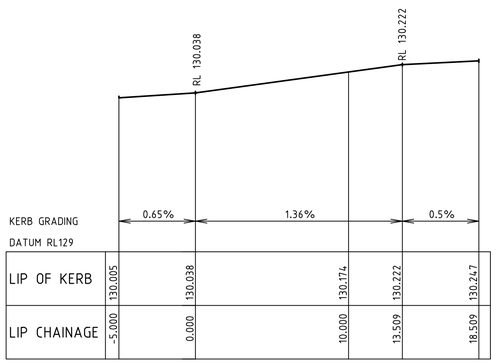
LIP OF KERB	130.148	129.877	129.911	129.915	129.937	130.017	130.018	130.021	130.095	130.149
LIP CHAINAGE	-5.000	0.000	6.792	7.300	10.000	19.866	20.000	20.375	27.166	32.166

LIP LINE I



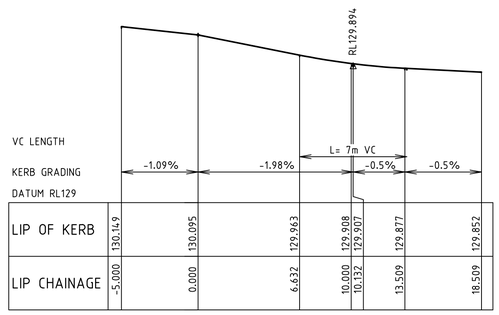
LIP OF KERB	131.256	131.267	131.278	131.348	131.335	131.331	131.329	131.328	131.337	131.339	131.356	131.361	131.305	131.301	131.256
LIP CHAINAGE	0.000	0.411	0.805	3.333	4.594	4.992	5.375	5.594	6.375	7.375	8.452	8.594	10.000	10.429	12.303	12.422	14.300

LIP LINE L



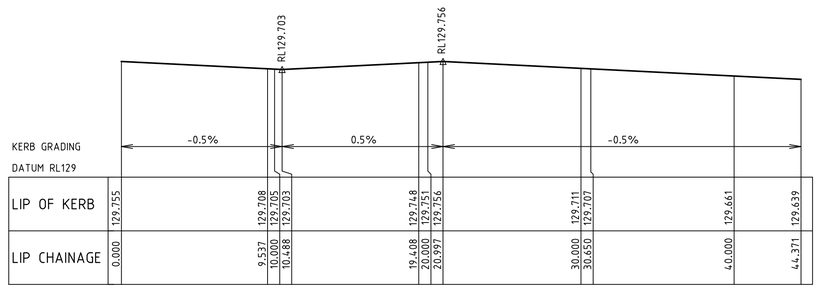
LIP OF KERB	130.005	130.038	130.174	130.222	130.247
LIP CHAINAGE	-5.000	0.000	10.000	13.509	18.509

LIP LINE H



LIP OF KERB	130.149	130.095	129.963	129.908	129.907	129.877	129.852
LIP CHAINAGE	-5.000	0.000	6.632	10.000	10.132	13.509	18.509

LIP LINE J



LIP OF KERB	129.755	129.708	129.705	129.703	129.748	129.751	129.756	129.711	129.707	129.661	129.639
LIP CHAINAGE	0.000	9.537	10.000	10.488	19.408	20.000	20.997	30.000	30.650	40.000	44.371

LIP LINE C

ALL SETOUT DETAILS ARE PROVIDED AT LIP OF KERB

1:20 VER 0.4 0.2 00 0.4 0.8 0.16

1:200 HOR 4 2 00 4 8 16

WARNING
BEWARE OF UNDERGROUND SERVICES
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APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019

AMENDMENTS			
C	22.07.19	SHEET NUMBERS AMENDED	
B	05.02.19	DRAINAGE AMENDED	
A	15.10.18	CONSTRUCTION ISSUE	
VER.	DATE	REMARKS	

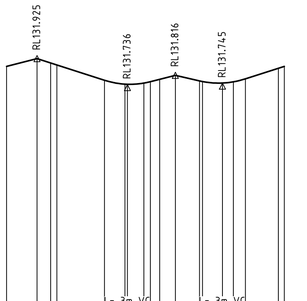
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE STAGE 22
INTERSECTION DETAILS - SHEET 5

SCALE AS SHOWN | DATUM AHD | DATE APRIL '18

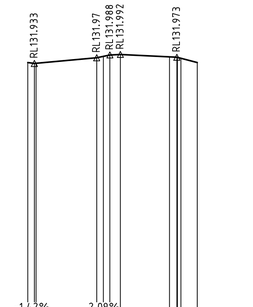
MUNICIPALITY: MELTON
REFERENCE: 8226 E/22
SHEET 10 OF 43 | C



VC LENGTH
KERB GRADING
DATUM RL130

LIP OF KERB	131.875	131.925	131.897	131.884	131.784	131.759	131.758	131.768	131.775	131.790	131.780	131.776	131.766	131.774	131.793	131.862	131.874
LIP CHAINAGE	0.000	1.988	2.873	3.282	6.392	7.733	7.893	8.962	9.392	10.000	11.019	12.596	12.795	14.096	15.596	17.743	18.133

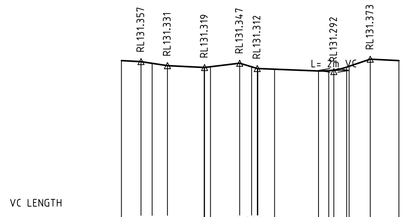
LIP LINE M



VC LENGTH
KERB GRADING
DATUM RL130

LIP OF KERB	131.939	131.933	131.934	131.970	131.979	131.989	131.992	131.976	131.973	131.972	131.987	131.939
LIP CHAINAGE	0.000	0.435	0.541	4.505	4.935	5.425	6.850	9.258	9.738	9.774	10.000	11.070

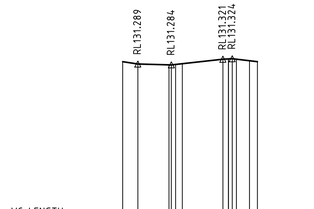
LIP LINE N



VC LENGTH
KERB GRADING
DATUM RL130

LIP OF KERB	131.364	131.357	131.346	131.331	131.319	131.319	131.319	131.324	131.347	131.324	131.312	131.312	131.308	131.296	131.298	131.292	131.321	131.326	131.373	131.364
LIP CHAINAGE	0.000	1.284	2.008	3.010	5.408	5.433	5.432	5.822	7.729	8.500	8.875	8.911	10.000	12.875	13.541	13.812	14.172	14.875	16.252	18.120

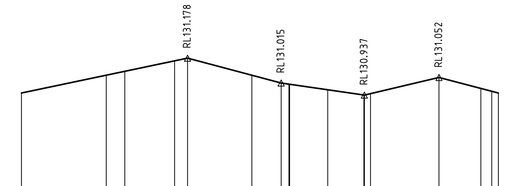
LIP LINE O



VC LENGTH
KERB GRADING
DATUM RL130

LIP OF KERB	131.305	131.289	131.284	131.284	131.287	131.292	131.321	131.323	131.323	131.324	131.321	131.311	131.305
LIP CHAINAGE	10.517	11.503	13.542	13.696	13.975	14.408	17.058	17.416	17.642	17.668	17.721	18.798	19.314

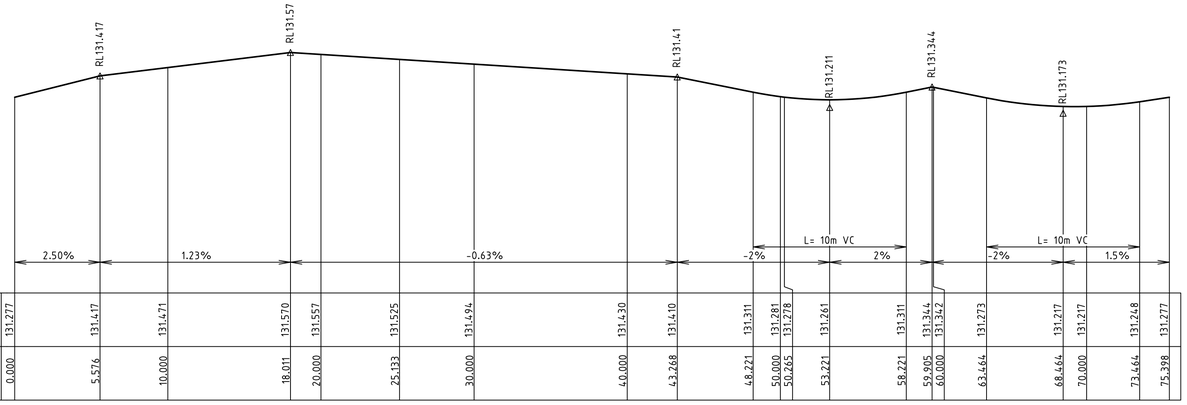
LIP LINE P



VC LENGTH
KERB GRADING
DATUM RL130

LIP OF KERB	130.950	131.066	131.091	131.160	131.178	131.066	131.015	131.008	131.007	130.971	130.937	130.937	130.946	131.052	130.980	130.961	130.950
LIP CHAINAGE	0.000	5.536	6.742	10.000	10.843	15.044	16.957	17.441	17.511	20.000	22.362	22.391	22.788	27.263	30.000	30.711	31.140

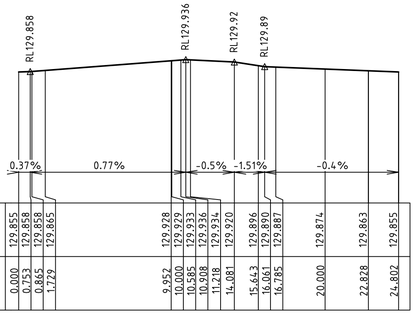
LIP LINE Q



VC LENGTH
KERB GRADING
DATUM RL130

LIP OF KERB	131.277	131.417	131.471	131.570	131.557	131.525	131.494	131.430	131.410	131.311	131.281	131.278	131.261	131.311	131.344	131.342	131.273	131.217	131.217	131.248	131.277
LIP CHAINAGE	0.000	5.576	10.000	18.011	20.000	25.133	30.000	40.000	43.268	48.221	50.000	50.265	53.221	58.221	59.905	60.000	63.664	68.464	70.000	73.664	75.398

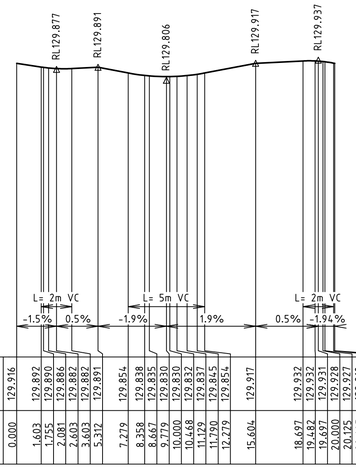
LIP LINE R



VC LENGTH
KERB GRADING
DATUM RL129

LIP OF KERB	129.855	129.858	129.868	129.865	129.928	129.929	129.933	129.936	129.934	129.920	129.896	129.890	129.887	129.874	129.863	129.855
LIP CHAINAGE	0.000	0.553	1.455	1.729	9.952	10.000	10.585	10.908	11.218	14.081	15.643	16.061	16.785	20.000	22.828	24.802

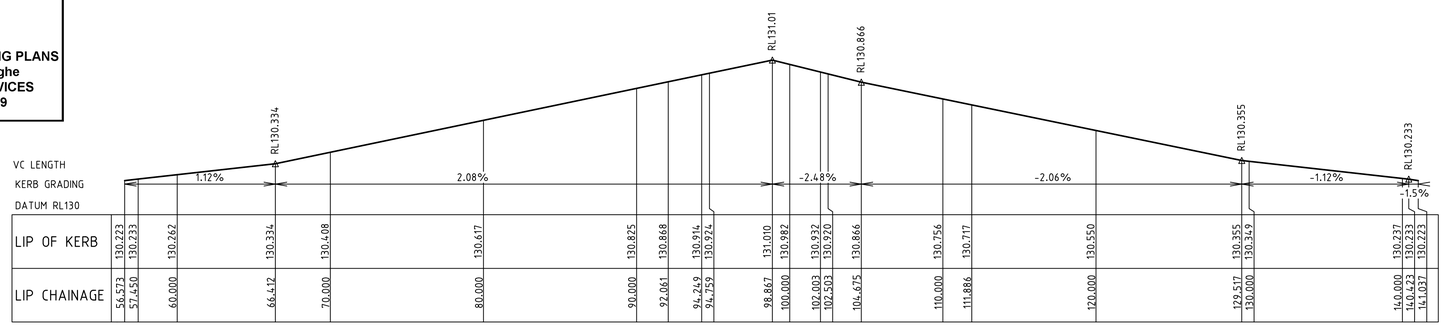
LIP LINE S



VC LENGTH
KERB GRADING
DATUM RL128

LIP OF KERB	129.916	129.892	129.890	129.886	129.882	129.882	129.891	129.854	129.838	129.835	129.830	129.830	129.832	129.837	129.845	129.854	129.917	129.932	129.932	129.931	129.928	129.927	129.918	129.916
LIP CHAINAGE	0.000	1.603	1.755	2.081	2.603	2.703	5.312	7.279	8.358	8.667	9.719	10.000	10.468	11.142	11.290	12.279	15.604	18.697	19.462	19.697	20.000	20.125	20.697	20.768

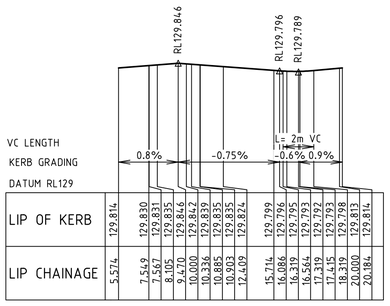
LIP LINE T



VC LENGTH
KERB GRADING
DATUM RL130

LIP OF KERB	130.223	130.233	130.262	130.334	130.408	130.617	130.825	130.868	130.914	130.924	131.010	130.982	130.932	130.920	130.866	130.756	130.717	130.550	130.355	130.349	130.237	130.233	130.223
LIP CHAINAGE	56.573	57.450	60.000	66.412	70.000	80.000	90.000	92.061	94.249	94.759	98.867	100.000	102.003	102.503	104.675	110.000	111.886	120.000	129.517	130.000	140.000	140.423	141.037

LIP LINE U



VC LENGTH
KERB GRADING
DATUM RL129

LIP OF KERB	129.814	129.830	129.831	129.835	129.842	129.844	129.839	129.835	129.835	129.824	129.799	129.796	129.795	129.793	129.792	129.793	129.798	129.813	129.814
LIP CHAINAGE	5.574	7.549	7.567	8.105	9.400	10.000	10.336	10.885	10.903	12.609	15.714	16.086	16.319	16.546	16.739	17.415	18.319	20.000	20.184

LIP LINE V

CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019

ALL SETOUT DETAILS ARE PROVIDED AT LIP OF KERB

1:20 VER 0.4 0.2 00 0.4 0.8 0.16
1:200 HOR 4 2 00 4 8 16

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

AMENDMENTS

VER.	DATE	REMARKS
C	22.07.19	SHEET NUMBERS AMENDED
B	15.03.19	LIP LINE M & N AMENDED
A	15.10.18	CONSTRUCTION ISSUE

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

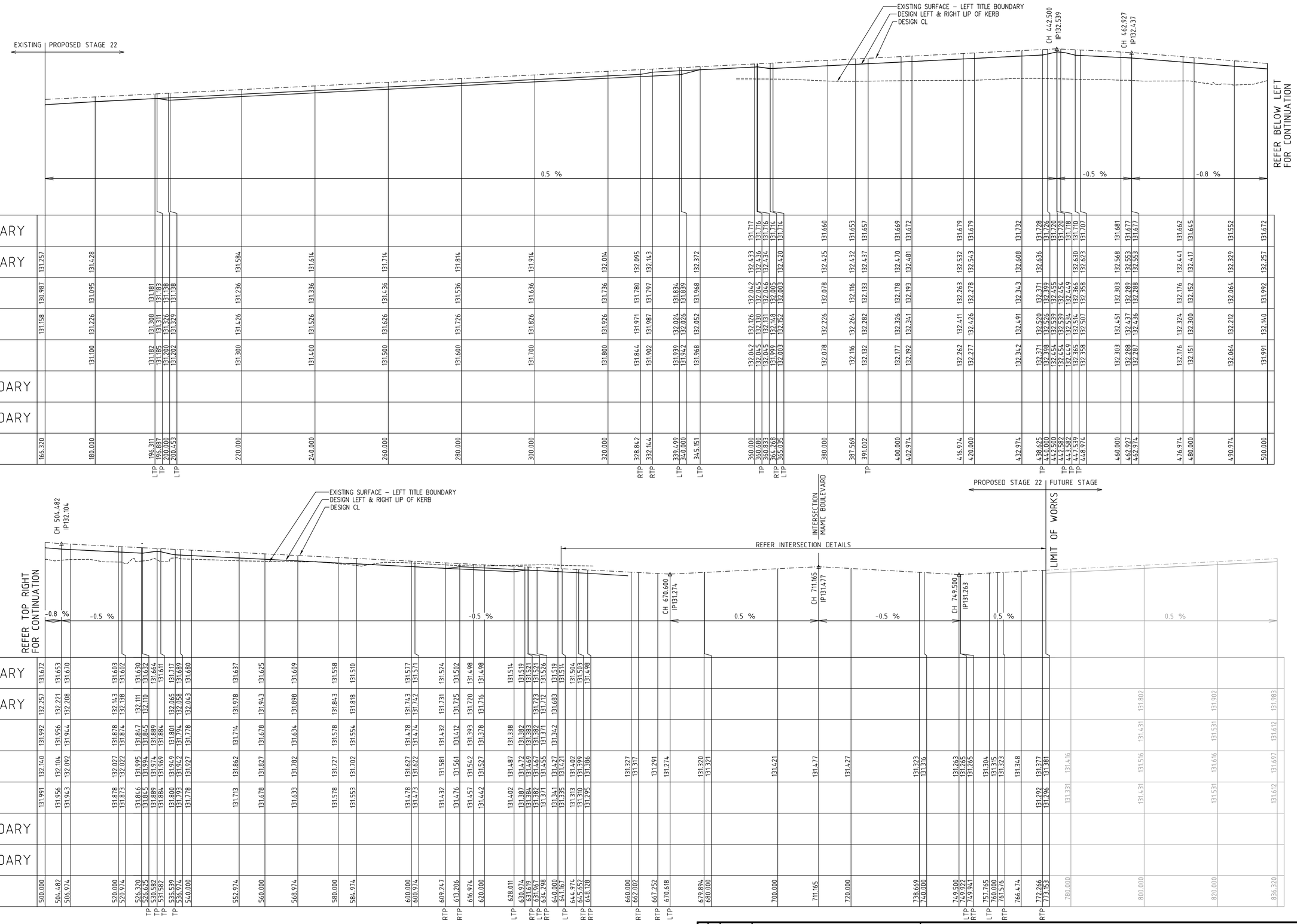
MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE STAGE 22
INTERSECTION DETAILS - SHEET 6

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22
SCALE AS SHOWN | DATUM AHD | DATE APRIL '18
SHEET 11 OF 43 | C

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



1:50 VER 1 0.5 00 1 2 4

1:500 HOR 10 5 00 10 20 40

AMENDMENTS			
B	22.07.19	SHEET NUMBERS AMENDED	
A	15.10.18	CONSTRUCTION ISSUE	
VER.	DATE	REMARKS	

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

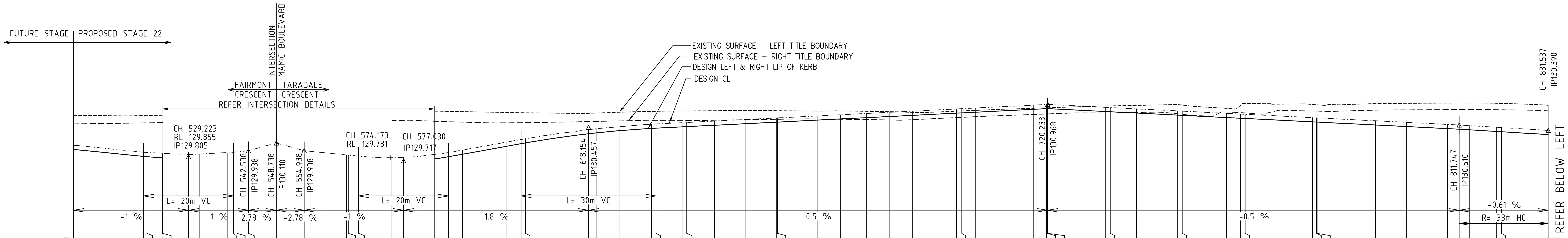
MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE STAGE 22
ROAD LONGSECTIONS - SHEET 1

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22
SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 12 OF 43 | B

CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019

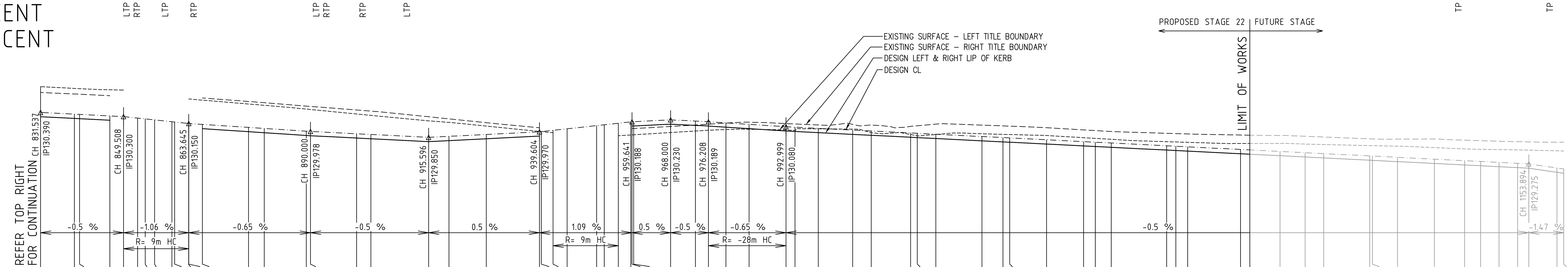
TARADALE CRESCENT & FAIRMONT CRESCENT



DESIGN CL VC LENGTH
DESIGN CL GRADING
HORIZONTAL GEOMETRY
DATUM RL129

CHAINAGE	ES LEFT TITLE BOUNDARY	FS LEFT TITLE BOUNDARY	LEFT LIP OF KERB	DESIGN CL	RIGHT LIP OF KERB	FS RIGHT TITLE BOUNDARY	ES RIGHT TITLE BOUNDARY	
503.638	130.725	130.309	129.968	130.061	129.968	130.309	130.551	
519.223	130.719	130.153	129.812	129.905	129.812	130.153	130.557	
520.000	130.721	130.145	129.804	129.897	129.804	130.145	130.558	
523.347				129.872	129.779	130.120	130.565	LTP
523.428				129.872	129.778	130.119	130.565	RTP
529.223				129.855				
531.602				129.858				LTP
537.818				129.892				RTP
539.223				129.905				
540.000				129.913				
542.538				129.938				
548.738				130.110				
554.938				129.938				
560.000				129.887				
564.323				129.844				LTP
564.733				129.840				RTP
567.030				129.817				
574.427				129.781			130.608	RTP
577.030				129.787			130.613	
580.000				129.805			130.609	
583.964	130.818	130.096	129.755	129.848	129.755	130.077	130.593	LTP
587.030	130.812	130.145	129.804	129.897	129.804	130.119	130.583	
590.138	130.807	130.201	129.860	129.953	129.860	130.169	130.574	
600.000	130.788	130.378	130.037	130.130	130.037	130.327	130.559	
603.154	130.783	130.435	130.094	130.187	130.094	130.377	130.561	
604.154	130.782	130.453	130.112	130.205	130.112	130.393	130.562	
618.154	130.770	130.656	130.315	130.408	130.315	130.568	130.586	
620.000	130.776	130.677	130.336	130.429	130.336	130.585	130.590	
625.138	130.793	130.726	130.385	130.478	130.385	130.624	130.601	
632.154	130.812	130.757	130.434	130.527	130.434	130.658	130.614	
633.154	130.814	130.760	130.439	130.532	130.439	130.663	130.614	
639.138	130.822	130.775	130.469	130.562	130.469	130.693	130.612	
640.000	130.823	130.777	130.473	130.566	130.473	130.698	130.612	
646.154	130.827	130.792	130.504	130.597	130.504	130.728	130.616	
653.138	130.835	130.810	130.539	130.632	130.539	130.763	130.627	
660.000	130.828	130.814	130.573	130.666	130.573	130.798	130.637	
660.154	130.828	130.814	130.574	130.667	130.574	130.798	130.637	
669.138	130.819	130.843	130.619	130.712	130.619	130.843	130.644	
674.154	130.822	130.868	130.644	130.737	130.644	130.868	130.637	
680.000	130.814	130.898	130.673	130.766	130.673	130.898	130.630	
685.138	130.806	130.923	130.699	130.792	130.699	130.923	130.621	
690.154	130.791	130.948	130.724	130.817	130.724	130.948	130.628	
700.000	130.818	130.998	130.773	130.866	130.773	130.998	130.674	
701.138	130.822	131.003	130.779	130.872	130.779	131.003	130.680	
704.154	130.835	131.018	130.794	130.887	130.794	131.018	130.694	
717.138	130.882	131.083	130.859	130.952	130.859	131.083	130.745	
720.000	130.892	131.098	130.873	130.966	130.873	131.098	130.755	
720.154	130.893	131.098	130.874	130.967	130.874	131.098	130.756	
720.233	130.893	131.099	130.875	130.968	130.875	131.099	130.756	
733.138	130.933	131.034	130.810	130.903	130.810	131.034	130.777	
734.154	130.935	131.029	130.805	130.898	130.805	131.029	130.777	
740.000	130.946	131.000	130.776	130.869	130.776	131.000	130.788	
749.138	130.964	131.000	130.730	130.823	130.730	130.954	130.759	
750.154	130.954	131.000	130.725	130.818	130.725	130.942	130.748	
760.000	130.880	131.001	130.676	130.769	130.676	130.975	130.798	
763.138	130.947	131.001	130.660	130.753	130.660	130.985	130.786	
764.154	130.989	130.996	130.655	130.748	130.655	130.989	130.779	
779.138	130.966	130.921	130.580	130.673	130.580	130.921	130.821	
780.000	130.960	130.917	130.576	130.669	130.576	130.917	130.818	
780.154	130.959	130.916	130.575	130.668	130.575	130.916	130.818	
793.138	130.987	130.851	130.510	130.603	130.510	130.851	130.840	
800.000	130.992	130.817	130.476	130.569	130.476	130.817	130.847	
809.138	130.997	130.771	130.430	130.523	130.430	130.771	130.852	
811.747	130.998	130.758	130.417	130.510	130.417	130.758	130.853	TP
813.990	130.999	130.744	130.403	130.496	130.403	130.744	130.854	
820.000	130.993	130.708	130.367	130.460	130.367	130.708	130.850	
821.164	130.990	130.701	130.360	130.453	130.360	130.701	130.848	
831.537	130.949	130.638	130.297	130.390	130.297	130.638	130.825	TP

TARADALE CRESCENT



DESIGN CL VC LENGTH
DESIGN CL GRADING
HORIZONTAL GEOMETRY
DATUM RL127

CHAINAGE	ES LEFT TITLE BOUNDARY	FS LEFT TITLE BOUNDARY	LEFT LIP OF KERB	DESIGN CL	RIGHT LIP OF KERB	FS RIGHT TITLE BOUNDARY	ES RIGHT TITLE BOUNDARY	
831.537	130.949	130.638	130.297	130.390	130.297	130.638	130.825	TP
838.861	130.911	130.601	130.260	130.353	130.260	130.601	130.791	
840.000	130.905	130.596	130.255	130.348	130.255	130.596	130.786	
846.558	130.881			130.315				RTP
849.508	130.875			130.300				TP
852.556				130.268				LTP
854.214				130.250				
856.247				130.228				
860.000				130.189				
860.597				130.182				LTP
863.638				130.150				
863.645				130.150				TP
866.595	130.657	130.398	130.038	130.131	130.038	130.379	130.704	RTP
876.596	130.573	130.274	129.972	130.065	129.972	130.313	130.628	
880.000	130.544	130.231	129.950	130.043	129.950	130.291	130.601	
889.096	130.463	130.118	129.891	129.984	129.891	130.232	130.527	
890.000	130.454	130.107	129.885	129.978	129.885	130.226	130.520	
900.000	130.357	130.057	129.835	129.928	129.835	130.176	130.443	
903.096	130.326	130.041	129.819	129.913	129.819	130.160	130.419	
915.596	130.208	129.979	129.757	129.850	129.757	130.098	130.297	
920.000	130.173	130.001	129.779	129.872	129.779	130.106	130.251	
928.096	130.094	130.041	129.819	129.912	129.819	130.121	130.168	
939.604	129.978			129.970				RTP
940.000	129.974			129.974				
942.554	129.949			130.002				TP
945.602				130.035				LTP
951.984				130.105				
953.643				130.123				LTP
956.691	129.885			130.156				TP
959.391	129.902			130.185				
959.641	129.903	130.319	130.095	130.188	130.095	130.319	130.042	RTP
960.000	129.905	130.321	130.096	130.189	130.096	130.321	130.043	
968.000	129.954	130.361	130.136	130.229	130.136	130.361	130.086	
973.391	129.987	130.334	130.110	130.203	130.110	130.334	130.118	
976.208	130.004	130.320	130.095	130.189	130.095	130.320	130.134	TP
980.000	130.019	130.295	130.071	130.164	130.071	130.295	130.160	
985.008	130.026	130.263	130.039	130.132	130.039	130.263	130.178	
992.999	130.009	130.211	129.987	130.080	129.987	130.211	130.148	TP
994.945	130.001	130.202	129.977	130.070	129.977	130.202	130.140	
1000.000	130.034	130.176	129.952	130.045	129.952	130.176	130.119	
1007.445	130.028	130.139	129.915	130.008	129.915	130.139	130.131	
1011.460	129.952	130.119	129.895	129.988	129.895	130.119	130.116	
1020.000	129.912	130.076	129.852	129.945	129.852	130.076	130.088	
1021.445	129.884	130.069	129.845	129.938	129.845	130.077	130.101	
1025.460	129.912	130.049	129.824	129.918	129.824	130.081	130.136	
1035.445	129.927	129.999	129.774	129.868	129.774	130.089	130.115	
1040.000	129.915	129.976	129.752	129.845	129.752	130.093	130.098	
1041.460	129.911	129.969	129.744	129.837	129.744	130.085	130.093	
1049.445	129.890	129.929	129.704	129.797	129.704	130.045	130.059	
1057.460	129.843	129.889	129.664	129.757	129.664	130.005	130.012	
1060.000	129.828	129.876	129.652	129.745	129.652	129.993	129.997	
1063.445	129.807	129.859	129.634	129.727	129.634	129.975	129.977	
1075.460	129.756	129.799	129.574	129.667	129.574	129.915	129.938	
1077.445	129.750	129.789	129.564	129.657	129.564	129.905	129.932	
1080.000	129.742	129.776	129.551	129.645	129.551	129.892	129.924	
1091.445	129.716	129.719	129.494	129.587	129.494	129.835	129.900	
1093.460	129.717	129.708	129.484	129.577	129.484	129.825	129.897	
1100.000	129.718	129.700	129.451	129.544	129.451	129.792	129.890	
1105.445	129.704	129.693	129.424	129.517	129.424	129.765	129.873	
1109.460	129.694	129.688	129.404	129.497	129.404	129.745	129.857	
1119.445	129.672	129.675	129.354	129.447	129.354	129.695	129.818	
1120.000	129.670	129.674	129.351	129.444	129.351	129.692	129.815	
1125.460	129.659	129.665	129.324	129.417	129.324	129.665	129.811	
1133.445	129.628	129.625	129.284	129.377	129.284	129.625	129.814	
1140.000	129.600	129.592	129.251	129.344	129.251	129.592	129.788	
1143.460	129.591	129.575	129.234	129.327	129.234	129.575	129.778	
1147.445	129.584	129.555	129.214	129.307	129.214	129.555	129.765	
1151.460	129.578	129.535	129.194	129.287	129.194	129.535	129.756	
1153.894	129.572	129.523	129.182	129.275	129.182	129.523	129.752	
1160.000	129.558	129.433	129.092	129.185	129.092	129.433	129.744	
1161.460	129.555	129.412	129.071	129.164	129.071	129.412	129.745	

1:50 VER 1 0.5 00 1 2 4
1:500 HOR 10 5 00 10 20 40

VER.	DATE	REMARKS
B	22.07.19	SHEET NUMBERS AMENDED
A	15.10.18	CONSTRUCTION ISSUE

AMENDMENTS

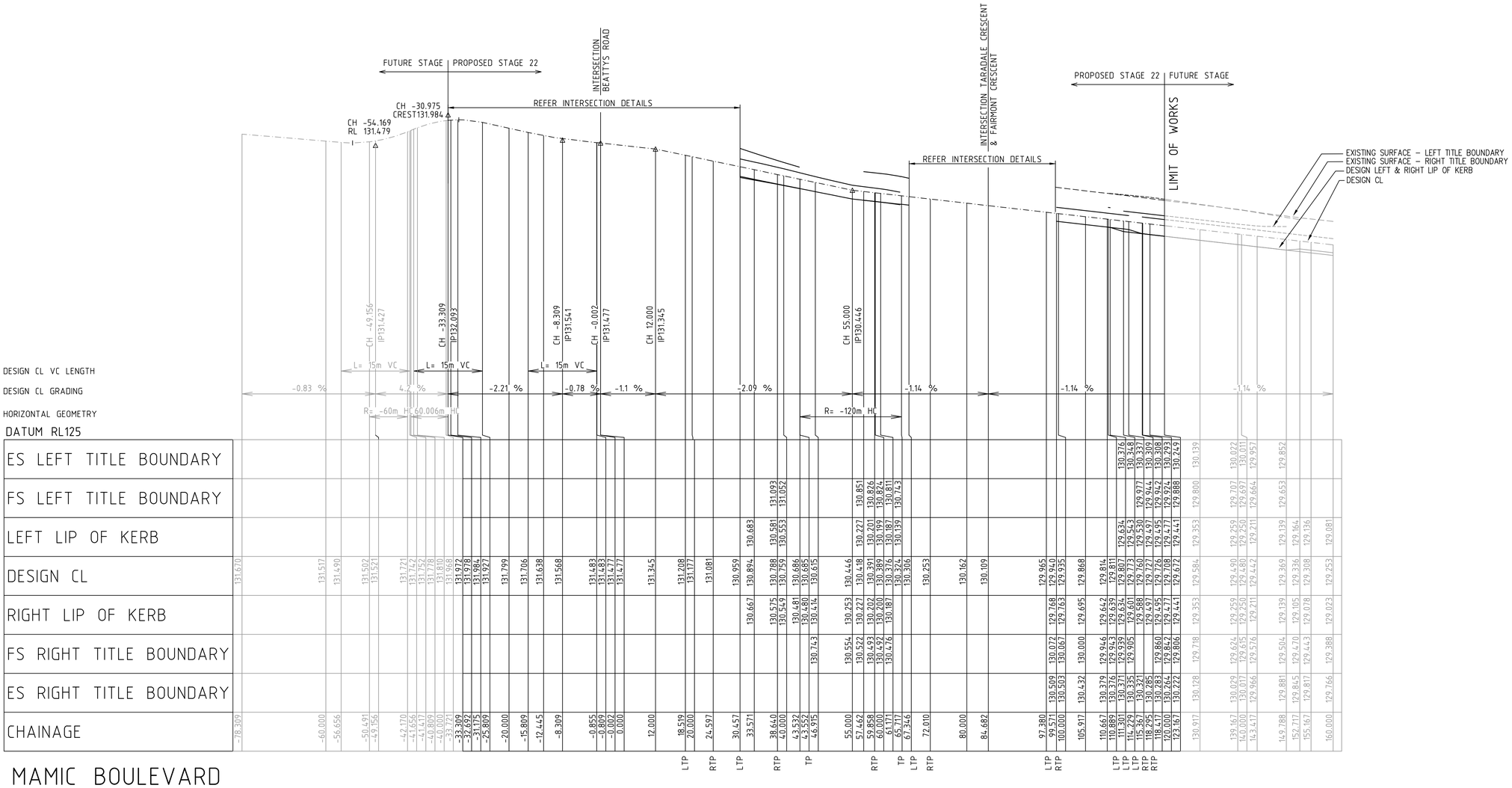
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	354 C12	ASPIRE ESTATE STAGE 22	MUNICIPALITY MELTON
SURVEY	BPD	ROAD LONGSECTIONS - SHEET 2	REFERENCE 8226 E/22
DESIGN	JGB		
DRAWN	IMW		
CHECKED	TBA		

SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 13 OF 43 | B

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



CHAINAGE	DESIGN CL	RIGHT LIP OF KERB	FS RIGHT TITLE BOUNDARY	ES RIGHT TITLE BOUNDARY	LEFT LIP OF KERB	FS LEFT TITLE BOUNDARY	ES LEFT TITLE BOUNDARY
-78.309	131.670						
-60.000	131.517						
-56.656	131.490						
-50.491	131.502						
-49.156	131.521						
-42.170	131.721						
-41.656	131.742						
-41.447	131.752						
-40.809	131.778						
-39.700	131.810						
-33.721	131.966						
-33.309	131.972						
-32.692	131.978						
-31.175	131.984						
-25.809	131.927						
-20.000	131.799						
-15.809	131.706						
-12.445	131.638						
-8.309	131.568						
-0.855	131.483						
-0.809	131.483						
-0.002	131.477						
0.000	131.477						
12.000	131.345						
18.519 LTP	131.208	130.667			130.683		
20.000 RTP	131.177						
24.597	131.081						
30.457 LTP	130.959						
33.571	130.894						
38.640 RTP	130.788	130.575			130.788	131.093	
40.000	130.759	130.549			130.759	131.052	
43.532	130.686	130.481			130.686		
44.552 TP	130.665	130.444	130.743		130.665		
46.915	130.615				130.615		
55.000	130.446	130.253	130.554		130.446	130.851	
57.462 RTP	130.418	130.227	130.522		130.418	130.826	
59.858	130.391	130.202	130.493		130.391	130.801	
60.000	130.389	130.200	130.492		130.389	130.799	
64.171	130.376	130.187	130.476		130.376	130.787	
65.777 TP	130.324				130.324	130.743	
67.346 LTP	130.306				130.306		
72.010 RTP	130.253				130.253		
80.000	130.162				130.162		
84.682	130.109				130.109		
97.380 LTP	129.965	129.768	130.072	130.509			
99.571 RTP	129.940	129.763	130.067	130.503			
100.000	129.935						
105.917	129.868	129.695	130.000	130.432			
110.667 LTP	129.814	129.642	129.946	130.379		130.376	
110.889 LTP	129.811	129.639	129.943	130.376		130.371	
111.301 LTP	129.807	129.634	129.939	130.371		130.335	
114.229 LTP	129.773	129.601	129.905	130.335		130.325	
116.552 RTP	129.748	129.580		130.325		130.285	
118.295 RTP	129.727	129.497	129.860	130.285		130.283	
118.417 RTP	129.726	129.495	129.842	130.283		130.264	
120.000 RTP	129.708	129.477	129.841	130.264		130.222	
123.167 RTP	129.672	129.441	129.806	130.222		130.128	
130.917	129.584	129.353	129.718	130.128	129.800	129.707	130.139
139.167	129.490	129.259	129.624	130.029	129.353	129.697	130.022
140.000	129.480	129.250	129.615	130.017	129.259	129.664	130.011
143.417	129.442	129.211	129.576	129.966	129.211	129.653	129.957
149.788	129.369	129.139	129.504	129.881	129.139	129.164	129.852
152.717	129.336	129.105	129.470	129.845	129.105	129.136	
155.167	129.308	129.078	129.443	129.817	129.078	129.081	
160.000	129.253	129.023	129.388	129.766	129.023		

1:50 VER 1 0.5 00 1 2 4

1:500 HOR 10 5 00 10 20 40

AMENDMENTS			
C	22.07.19	SHEET NUMBERS AMENDED	
B	15.03.19	MAMIC BOULEVARD AMENDED	
A	15.10.18	CONSTRUCTION ISSUE	
VER.	DATE	REMARKS	

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

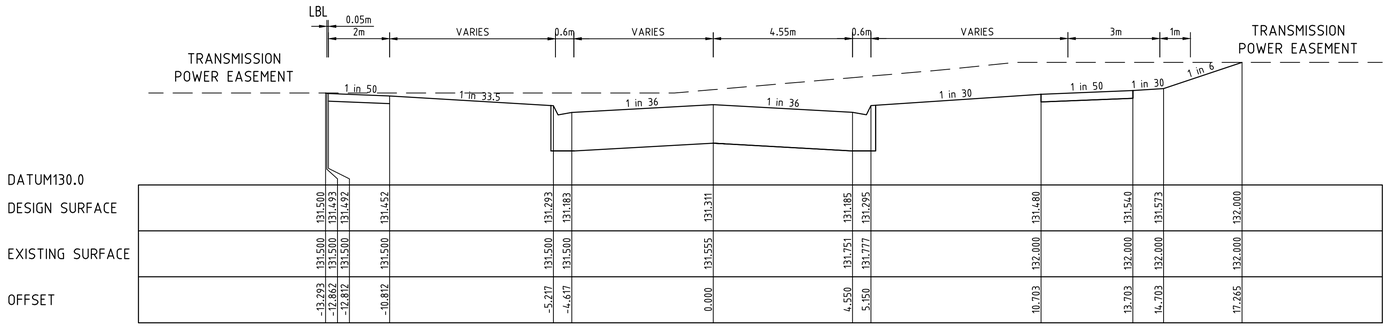
ASPIRE ESTATE STAGE 22

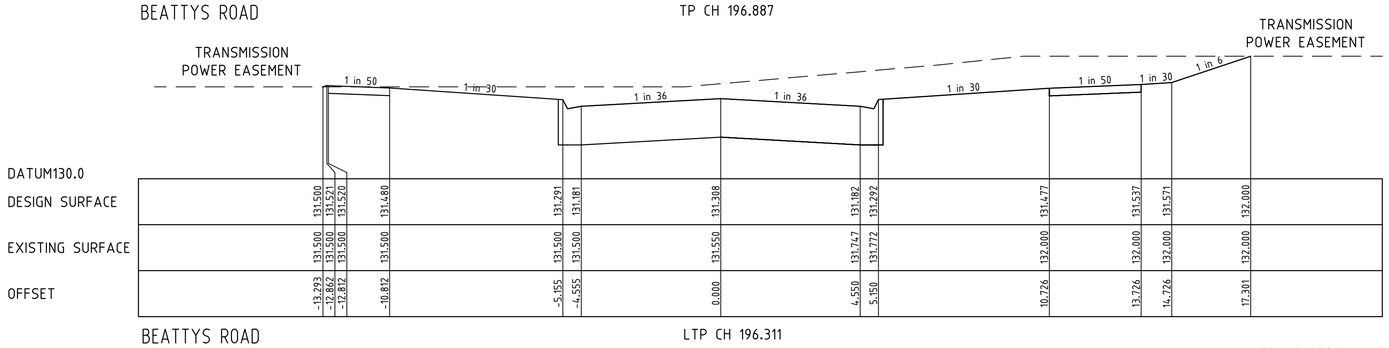
ROAD LONGSECTIONS - SHEET 3

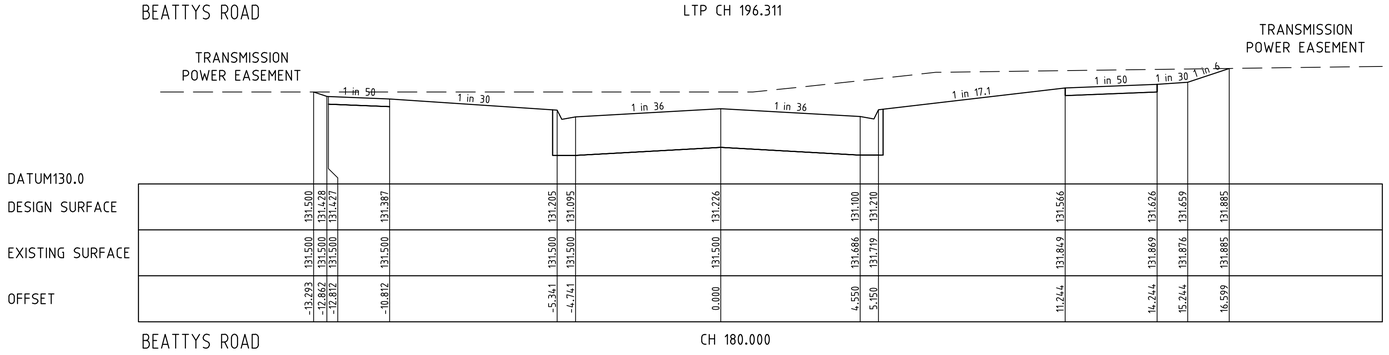
MUNICIPALITY: MELTON
REFERENCE: 8226 E/22
SCALE: AS SHOWN | DATUM: AHD | DATE: APRIL '18
SHEET 14 OF 43 | C

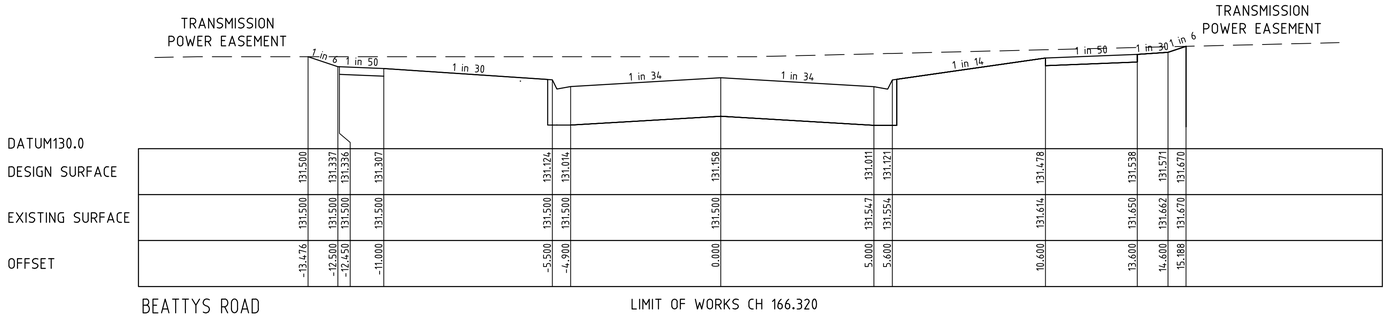
CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019









FCR BACKFILL PLACED UNDER FOOTPATH WHERE ABOVE EXISTING SURFACE TO BE CLASS 3 OR CRUSHED CONCRETE CLASS 3

1:50 VER 1 0.5 00 1 2 4

1:100 HOR 2 1 00 2 4 8

AMENDMENTS			
B	22.07.19	SHEET NUMBERS AMENDED	
A	15.10.18	CONSTRUCTION ISSUE	
VER.	DATE	REMARKS	

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

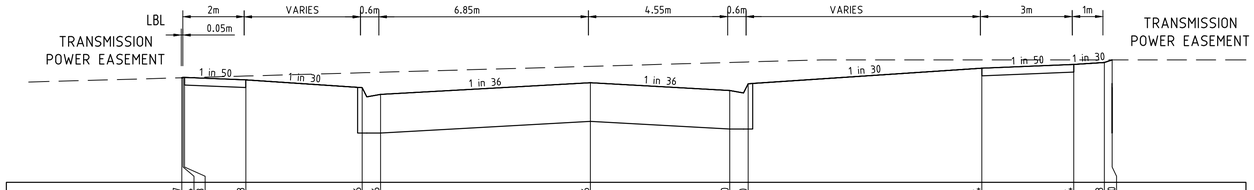
ASPIRE ESTATE STAGE 22

ROAD CROSS SECTIONS - SHEET 1

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22
SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 15 OF 41 | B

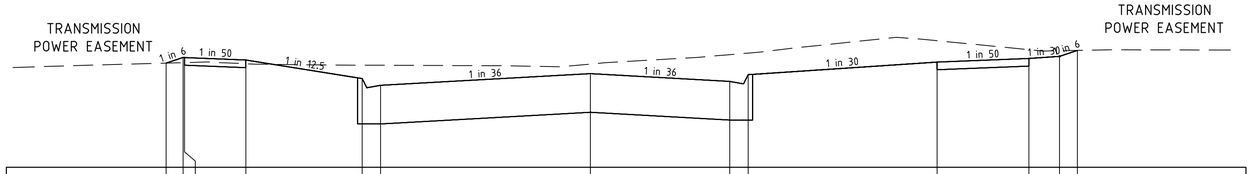
CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



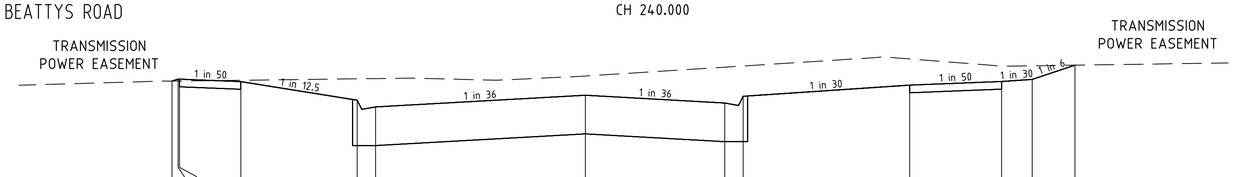
DATUM130.0														
DESIGN SURFACE	131.707	131.714	131.713	131.673	131.546	131.436	131.626	131.500	131.610	131.864	131.924	131.958	132.000	
EXISTING SURFACE	131.707	131.708	131.708	131.736	131.789	131.798	131.894	131.958	131.966	132.000	132.000	132.000	132.000	
OFFSET	-13.341	-13.300	-13.250	-11.250	-7.450	-6.850	0.000	4.550	5.150	12.780	15.780	16.780	17.033	

BEATTYS ROAD CH 260.000



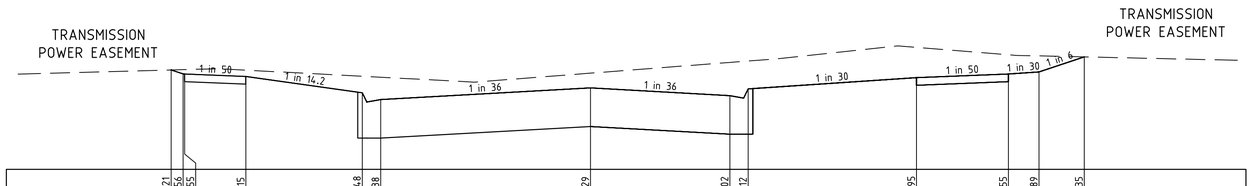
DATUM130.0														
DESIGN SURFACE	131.699	131.791	131.790	131.750	131.446	131.336	131.526	131.400	131.510	131.716	131.776	131.869	131.906	
EXISTING SURFACE	131.699	131.707	131.707	131.688	131.665	131.664	131.683	131.837	131.863	132.064	131.918	131.901	131.906	
OFFSET	-13.851	-13.300	-13.250	-11.250	-7.450	-6.850	0.000	4.550	5.150	11.318	14.318	15.318	15.901	

BEATTYS ROAD CH 240.000



DATUM130.0														
DESIGN SURFACE	131.659	131.691	131.690	131.650	131.366	131.236	131.476	131.300	131.410	131.591	131.651	131.685	131.917	
EXISTING SURFACE	131.659	131.659	131.660	131.671	131.695	131.699	131.741	131.885	131.904	132.019	131.903	131.907	131.917	
OFFSET	-13.486	-13.300	-13.250	-11.250	-7.450	-6.850	0.000	4.550	5.150	10.589	13.589	14.589	15.985	

BEATTYS ROAD CH 220.000



DATUM130.0														
DESIGN SURFACE	131.621	131.556	131.555	131.515	131.248	131.138	131.329	131.202	131.312	131.495	131.555	131.589	131.835	
EXISTING SURFACE	131.621	131.627	131.627	131.617	131.519	131.503	131.569	131.744	131.767	131.990	131.869	131.851	131.835	
OFFSET	-13.691	-13.300	-13.250	-11.250	-7.450	-6.850	0.000	4.550	5.150	10.645	13.645	14.645	16.120	

BEATTYS ROAD LTP CH 200.453

FCR BACKFILL PLACED UNDER FOOTPATH WHERE ABOVE EXISTING SURFACE TO BE CLASS 3 OR CRUSHED CONCRETE CLASS 3

1:50 VER 1 0.5 00 1 2 4
1:100 HOR 2 1 00 2 4 8

AMENDMENTS			
C	22.07.19	SHEET NUMBERS AMENDED	
B	16.05.19	CROSS SECTIONS UPDATED	
A	15.10.18	CONSTRUCTION ISSUE	
VER.	DATE	REMARKS	

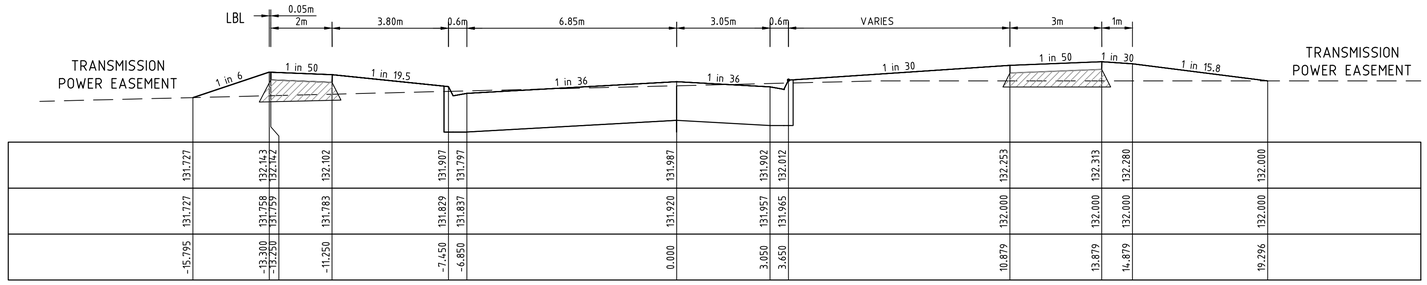
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE STAGE 22

ROAD CROSS SECTIONS - SHEET 2

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22
SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 16 OF 43 | C

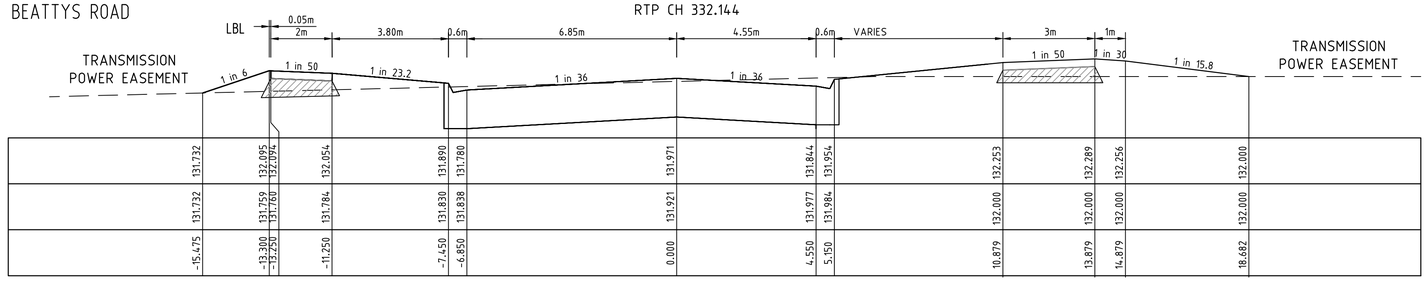


DATUM131.0

DESIGN SURFACE	131.727	132.143	132.142	132.102	131.907	131.797	131.987	131.902	132.012	132.253	132.313	132.280	132.000
EXISTING SURFACE	131.727	131.758	131.759	131.783	131.829	131.837	131.920	131.957	131.965	132.000	132.000	132.000	132.000
OFFSET	-15.795	-13.300	-13.250	-11.250	-7.450	-6.850	0.000	3.850	3.650	10.879	13.879	14.879	19.296

BEATTYS ROAD

RTP CH 332.144

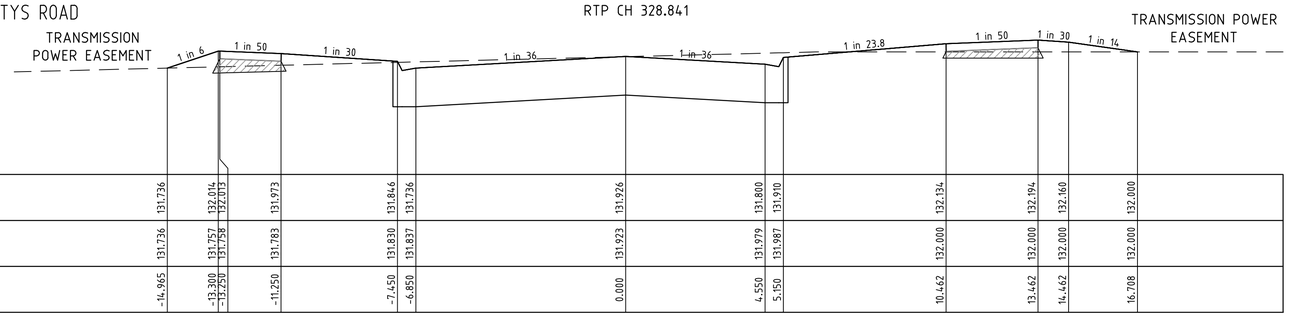


DATUM131.0

DESIGN SURFACE	131.732	132.095	132.094	132.054	131.890	131.780	131.971	131.844	131.954	132.253	132.289	132.256	132.000
EXISTING SURFACE	131.732	131.759	131.760	131.784	131.830	131.838	131.921	131.977	131.984	132.000	132.000	132.000	132.000
OFFSET	-15.475	-13.300	-13.250	-11.250	-7.450	-6.850	0.000	4.550	5.150	10.879	13.879	14.879	18.682

BEATTYS ROAD

RTP CH 328.841

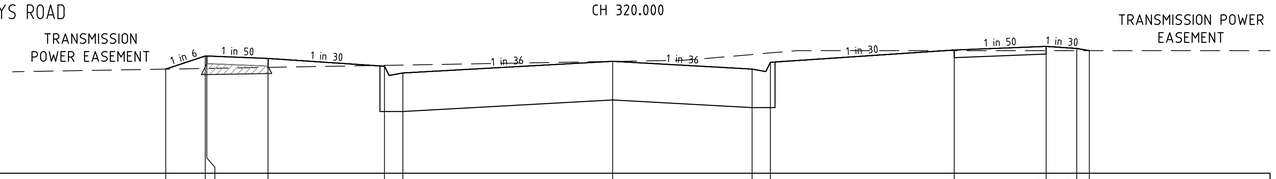


DATUM130.0

DESIGN SURFACE	131.736	132.014	132.013	131.973	131.846	131.736	131.926	131.800	131.910	132.134	132.194	132.160	132.000
EXISTING SURFACE	131.736	131.757	131.758	131.783	131.830	131.837	131.923	131.979	131.987	132.000	132.000	132.000	132.000
OFFSET	-14.965	-13.300	-13.250	-11.250	-7.450	-6.850	0.000	4.550	5.150	10.462	13.462	14.462	16.708

BEATTYS ROAD

CH 320.000

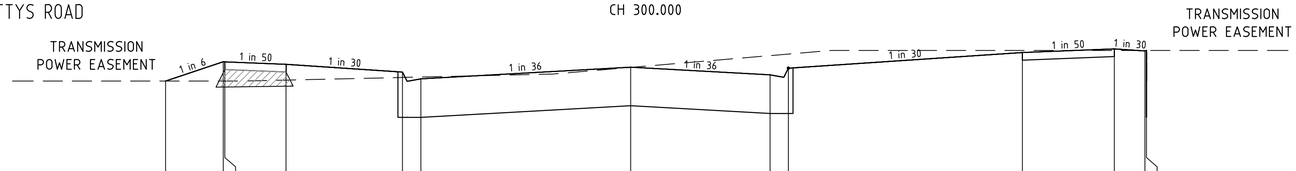


DATUM130.0

DESIGN SURFACE	131.699	131.914	131.913	131.873	131.746	131.636	131.826	131.700	131.810	132.010	132.070	132.037	132.000
EXISTING SURFACE	131.699	131.710	131.710	131.727	131.760	131.765	131.824	131.937	131.963	132.000	132.000	132.000	132.000
OFFSET	-14.591	-13.300	-13.250	-11.250	-7.450	-6.850	0.000	4.550	5.150	11.152	14.152	15.152	15.561

BEATTYS ROAD

CH 300.000



DATUM130.0

DESIGN SURFACE	131.500	131.814	131.813	131.773	131.646	131.536	131.726	131.600	131.710	131.965	132.025	131.991	132.000
EXISTING SURFACE	131.500	131.500	131.500	131.515	131.558	131.565	131.722	131.914	131.940	132.000	132.000	132.000	132.000
OFFSET	-15.183	-13.300	-13.250	-11.250	-7.450	-6.850	0.000	4.550	5.150	12.789	15.789	16.789	16.841

BEATTYS ROAD

CH 280.000

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019

FCR BACKFILL PLACED UNDER FOOTPATH WHERE ABOVE EXISTING SURFACE TO BE CLASS 3 OR CRUSHED CONCRETE CLASS 3

1:50 VER 1 0.5 00 1 2 4

1:100 HOR 2 1 00 2 4 8

AMENDMENTS

VER.	DATE	REMARKS
B	22.07.19	SHEET NUMBERS AMENDED
A	15.10.18	CONSTRUCTION ISSUE

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE STAGE 22

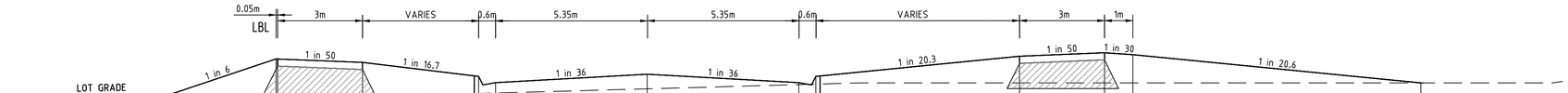
ROAD CROSS SECTIONS - SHEET 3

SCALE AS SHOWN | DATUM AHD | DATE APRIL '18

MUNICIPALITY: MELTON

REFERENCE: 8226 E/22

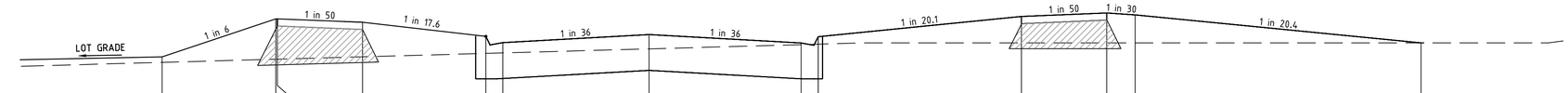
SHEET 17 OF 43 | B



DATUM131.0

DESIGN SURFACE	131.755	132.419	132.418	132.359	132.113	132.003	132.152	132.003	132.113	132.468	132.528	132.495	132.000
EXISTING SURFACE	131.658	131.714	131.714	131.756	131.813	131.821	131.895	131.969	131.977	132.000	132.000	132.000	132.000
OFFSET	-17.099	-13.099	-13.045	-10.045	-5.950	-5.350	0.000	5.350	5.950	13.141	16.141	17.141	27.305

BEATTYS ROAD LTP CH 365.035



DATUM131.0

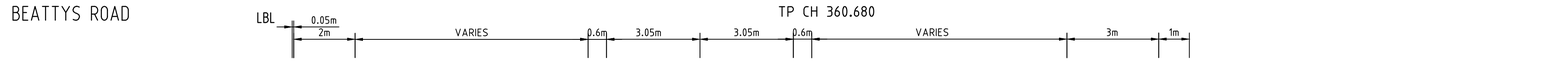
DESIGN SURFACE	131.753	132.420	132.419	132.359	132.115	132.005	132.148	131.999	132.109	132.466	132.526	132.492	132.000
EXISTING SURFACE	131.658	131.714	131.714	131.756	131.816	131.825	131.896	131.970	131.978	132.000	132.000	132.000	132.000
OFFSET	-17.137	-13.099	-13.045	-10.045	-5.747	-5.147	0.000	5.350	5.950	13.102	16.102	17.102	27.164

BEATTYS ROAD RTP CH 364.268

DATUM131.0

DESIGN SURFACE	131.770	132.436	132.435	132.375	132.155	132.045	132.130	132.045	132.155	132.462	132.522	132.489	132.000
EXISTING SURFACE	131.661	131.717	131.717	131.759	131.850	131.859	131.901	131.943	131.951	132.000	132.000	132.000	132.000
OFFSET	-17.317	-13.317	-13.263	-10.263	-3.654	-3.054	0.000	3.059	3.659	12.884	15.884	16.884	26.626

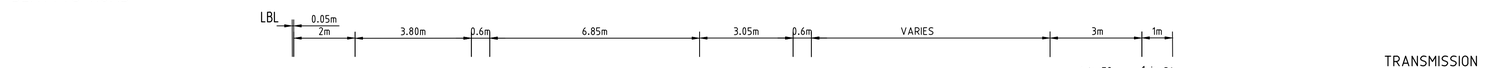
BEATTYS ROAD TP CH 360.680



DATUM131.0

DESIGN SURFACE	131.689	132.372	132.371	132.331	132.078	131.968	132.052	131.968	132.078	132.355	132.415	132.382	132.000
EXISTING SURFACE	131.689	131.727	131.728	131.752	131.855	131.863	131.906	131.948	131.956	132.000	132.000	132.000	132.000
OFFSET	-16.830	-13.300	-13.250	-11.250	-3.650	-3.050	0.000	3.050	3.650	11.990	14.990	15.990	22.739

BEATTYS ROAD LTP CH 345.151



DATUM131.0

DESIGN SURFACE	131.705	132.251	132.250	132.210	131.944	131.834	132.024	131.939	132.049	132.389	132.369	132.336	132.000
EXISTING SURFACE	131.705	131.745	131.746	131.770	131.816	131.823	131.907	131.949	131.958	132.000	132.000	132.000	132.000
OFFSET	-16.572	-13.300	-13.250	-11.250	-7.450	-6.850	0.000	3.050	3.650	11.440	14.440	15.440	21.090

BEATTYS ROAD LTP CH 339.499

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019

FCR BACKFILL PLACED UNDER FOOTPATH WHERE ABOVE EXISTING SURFACE TO BE CLASS 3 OR CRUSHED CONCRETE CLASS 3

1:50 VER 1 0.5 00 1 2 4
1:100 HOR 2 1 00 2 4 8

AMENDMENTS

VER.	DATE	REMARKS
B	22.07.19	SHEET NUMBERS AMENDED
A	15.10.18	CONSTRUCTION ISSUE

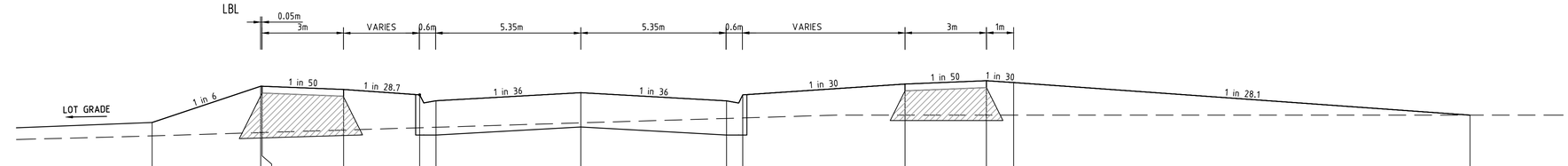
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE STAGE 22
ROAD CROSS SECTIONS - SHEET 4

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22
SCALE AS SHOWN | DATUM AHD | DATE APRIL '18
SHEET 18 OF 43 | B

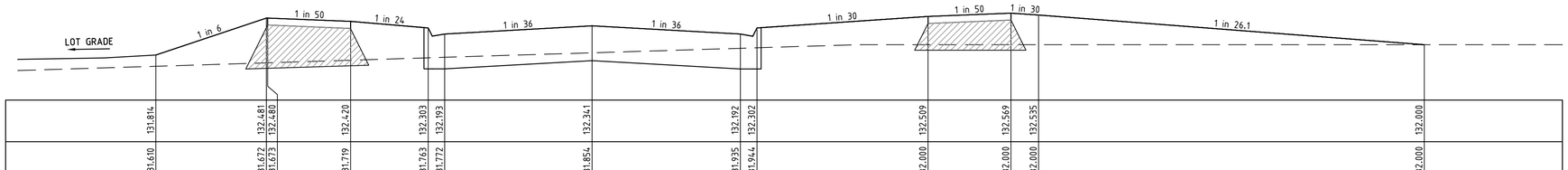
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



DATUM131.0

DESIGN SURFACE	131.865	132.532	132.531	132.471	132.373	132.263	132.411	132.262	132.372	132.572	132.632	132.598	132.000
EXISTING SURFACE	131.618	131.679	131.680	131.725	131.768	131.777	131.857	131.939	131.948	132.000	132.000	132.000	132.000
OFFSET	-15.791	-11.791	-11.741	-8.741	-5.950	-5.350	0.000	5.350	5.950	11.940	14.940	15.940	32.752

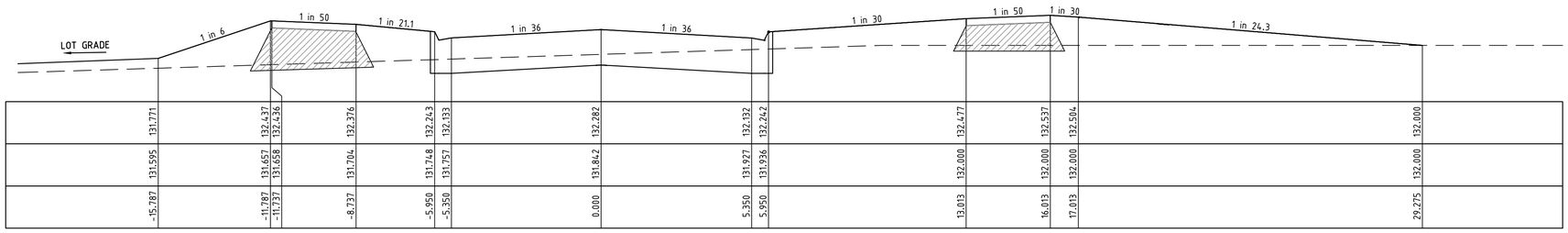
BEATTYS ROAD CH 416.974



DATUM131.0

DESIGN SURFACE	131.814	132.481	132.480	132.420	132.303	132.193	132.341	132.192	132.302	132.509	132.569	132.535	132.000
EXISTING SURFACE	131.610	131.672	131.673	131.719	131.763	131.772	131.854	131.935	131.944	132.000	132.000	132.000	132.000
OFFSET	-15.789	-11.789	-11.739	-8.739	-5.950	-5.350	0.000	5.350	5.950	12.158	15.158	16.158	30.115

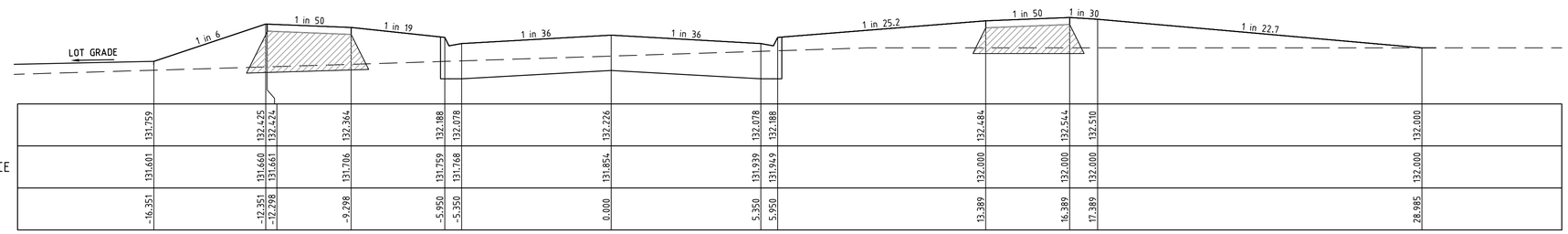
BEATTYS ROAD CH 402.974



DATUM131.0

DESIGN SURFACE	131.771	132.437	132.436	132.376	132.243	132.133	132.282	132.132	132.242	132.477	132.537	132.504	132.000
EXISTING SURFACE	131.595	131.657	131.658	131.704	131.748	131.757	131.842	131.927	131.936	132.000	132.000	132.000	132.000
OFFSET	-15.787	-11.787	-11.737	-8.737	-5.950	-5.350	0.000	5.350	5.950	13.013	16.013	17.013	29.275

BEATTYS ROAD TP CH 391.002



DATUM131.0

DESIGN SURFACE	131.759	132.425	132.424	132.364	132.188	132.078	132.226	132.078	132.188	132.484	132.544	132.510	132.000
EXISTING SURFACE	131.601	131.660	131.661	131.706	131.759	131.768	131.854	131.939	131.949	132.000	132.000	132.000	132.000
OFFSET	-16.351	-12.351	-12.298	-9.298	-5.950	-5.350	0.000	5.350	5.950	13.389	16.389	17.389	28.985

BEATTYS ROAD CH 380.000

FCR BACKFILL PLACED UNDER FOOTPATH WHERE ABOVE EXISTING SURFACE TO BE CLASS 3 OR CRUSHED CONCRETE CLASS 3

1:50 VER 1 0.5 00 1 2 4
1:100 HOR 2 1 00 2 4 8

AMENDMENTS

VER.	DATE	REMARKS
B	22.07.19	SHEET NUMBERS AMENDED
A	15.10.18	CONSTRUCTION ISSUE

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

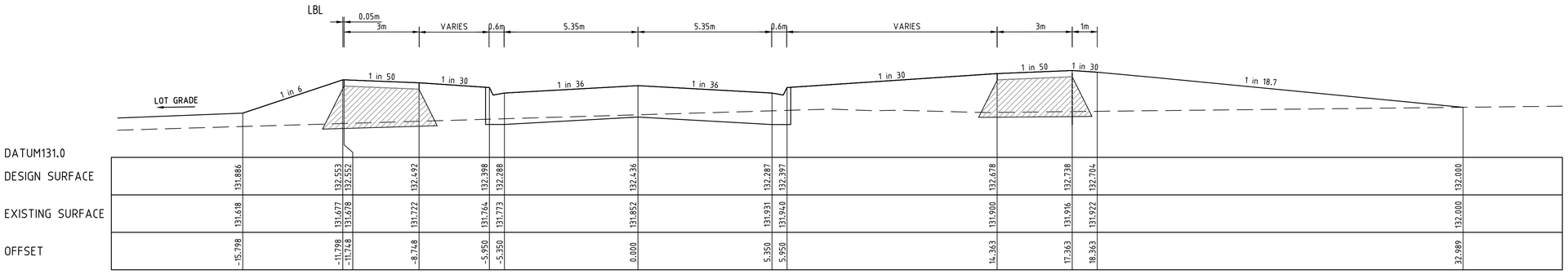
MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

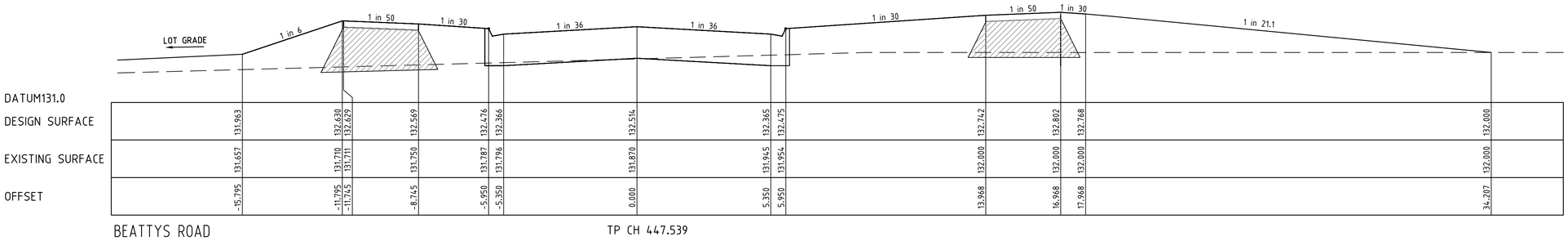
ASPIRE ESTATE STAGE 22

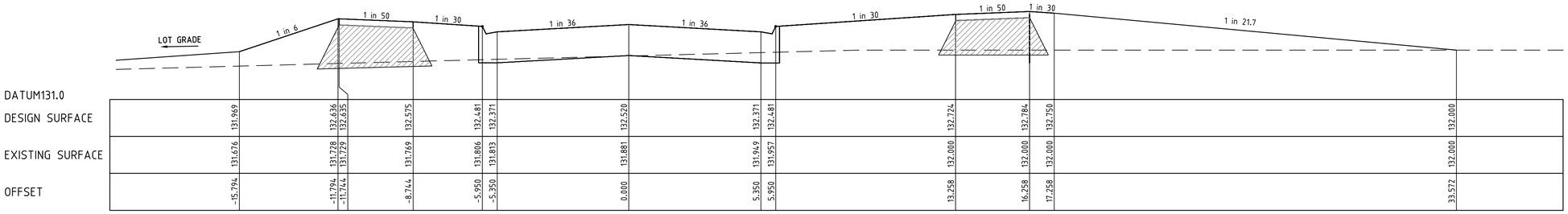
ROAD CROSS SECTIONS - SHEET 5

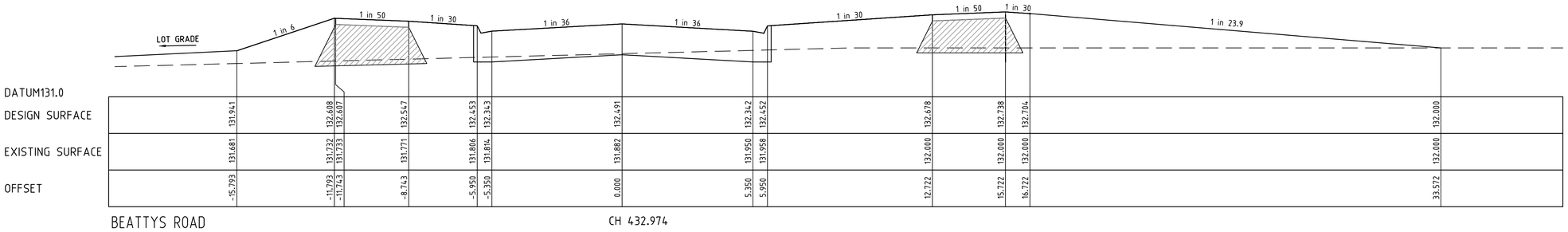
MUNICIPALITY MELTON
REFERENCE 8226 E/22
SCALE AS SHOWN DATUM AHD DATE APRIL '18
SHEET 19 OF 43 B

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019









1:50 VER 1 0.5 00 1 2 4
1:100 HOR 2 1 00 2 4 8

FCR BACKFILL PLACED UNDER FOOTPATH WHERE ABOVE EXISTING SURFACE TO BE CLASS 3 OR CRUSHED CONCRETE CLASS 3

AMENDMENTS		
B	22.07.19	SHEET NUMBERS AMENDED
A	15.10.18	CONSTRUCTION ISSUE
VER.	DATE	REMARKS

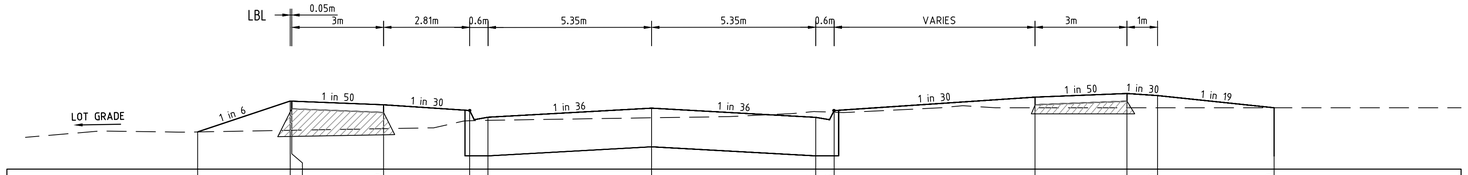
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE STAGE 22
ROAD CROSS SECTIONS - SHEET 6

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22
SCALE AS SHOWN | DATUM AHD | DATE APRIL '18
SHEET 20 OF 43 | B

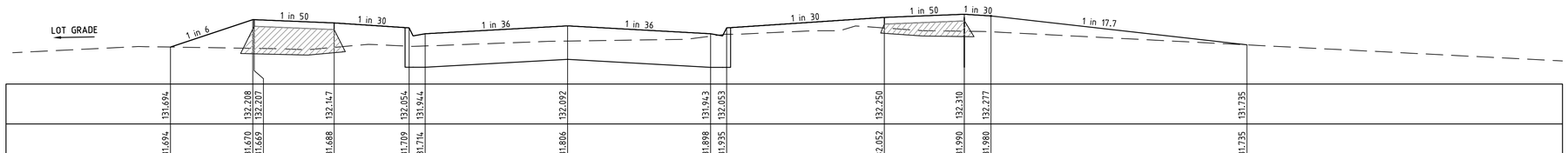
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



DATUM131.0

DESIGN SURFACE	131.686	132.110	132.109	132.049	131.955	131.845	131.994	131.845	131.955	132.174	132.234	132.200	132.000
EXISTING SURFACE	131.686	131.632	131.633	131.659	131.788	131.795	131.837	131.937	131.927	132.000	132.000	132.000	132.000
OFFSET	-14.822	-11.800	-11.750	-8.750	-5.950	-5.350	0.000	5.350	5.950	12.519	15.519	16.519	20.324

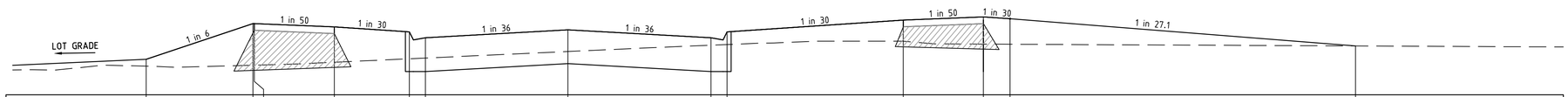
BEATTYS ROAD TP CH 526.625



DATUM131.0

DESIGN SURFACE	131.694	132.208	132.207	132.147	132.054	131.944	132.092	131.943	132.053	132.250	132.310	132.277	131.735
EXISTING SURFACE	131.694	131.670	131.669	131.688	131.709	131.714	131.806	131.898	131.935	132.052	131.990	131.980	131.735
OFFSET	-14.887	-11.800	-11.750	-8.750	-5.950	-5.350	0.000	5.350	5.950	11.868	14.868	15.868	25.457

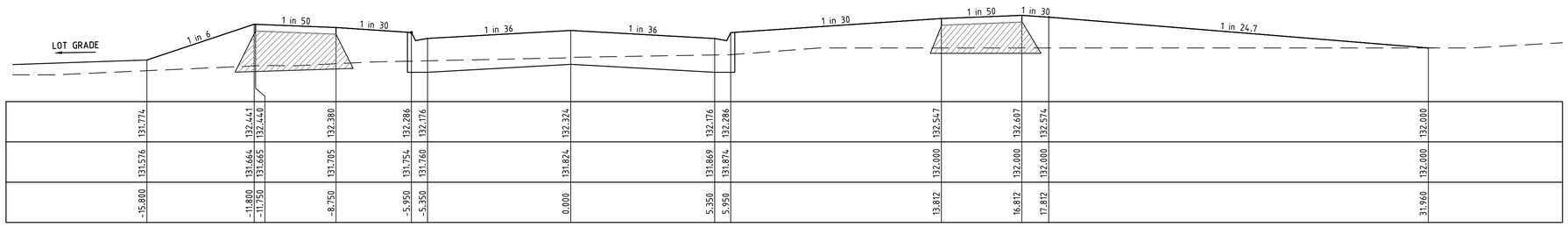
BEATTYS ROAD CH 506.974



DATUM131.0

DESIGN SURFACE	131.662	132.329	132.328	132.268	132.174	132.064	132.212	132.064	132.174	132.394	132.454	132.420	131.911
EXISTING SURFACE	131.534	131.552	131.553	131.607	131.671	131.685	131.808	131.925	131.938	132.000	131.946	131.943	131.911
OFFSET	-15.800	-11.800	-11.750	-8.750	-5.950	-5.350	0.000	5.350	5.950	12.561	15.561	16.561	29.501

BEATTYS ROAD CH 490.974



DATUM131.0

DESIGN SURFACE	131.774	132.441	132.440	132.380	132.286	132.176	132.324	132.176	132.286	132.547	132.607	132.574	132.000
EXISTING SURFACE	131.576	131.664	131.665	131.705	131.754	131.760	131.824	131.869	131.874	132.000	132.000	132.000	132.000
OFFSET	-15.800	-11.800	-11.750	-8.750	-5.950	-5.350	0.000	5.350	5.950	13.812	16.812	17.812	31.960

BEATTYS ROAD CH 476.974

FCR BACKFILL PLACED UNDER FOOTPATH WHERE ABOVE EXISTING SURFACE TO BE CLASS 3 OR CRUSHED CONCRETE CLASS 3

1:50 VER 1 0.5 00 1 2 4
1:100 HOR 2 1 00 2 4 8

VER.	DATE	REMARKS
B	22.07.19	SHEET NUMBERS AMENDED
A	15.10.18	CONSTRUCTION ISSUE

AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

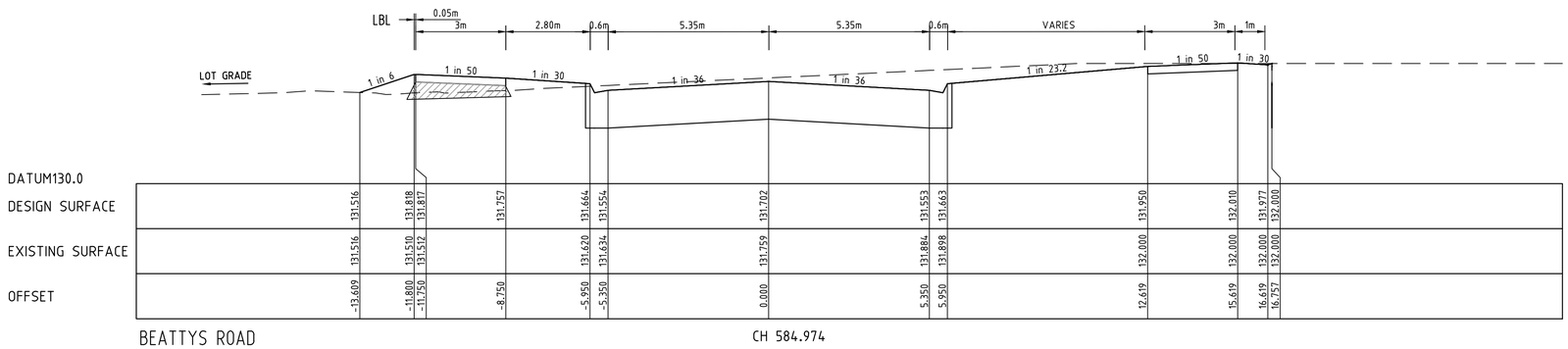
MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

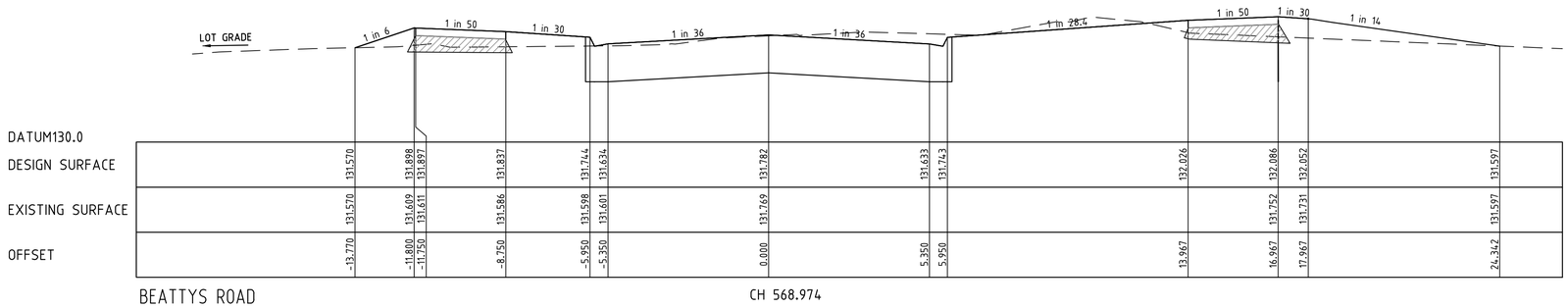
ASPIRE ESTATE STAGE 22

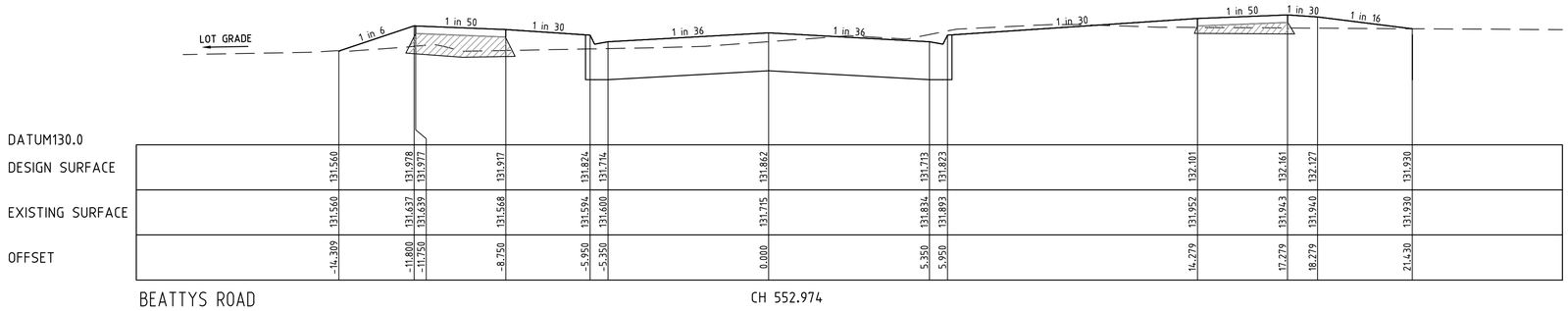
ROAD CROSS SECTIONS - SHEET 7

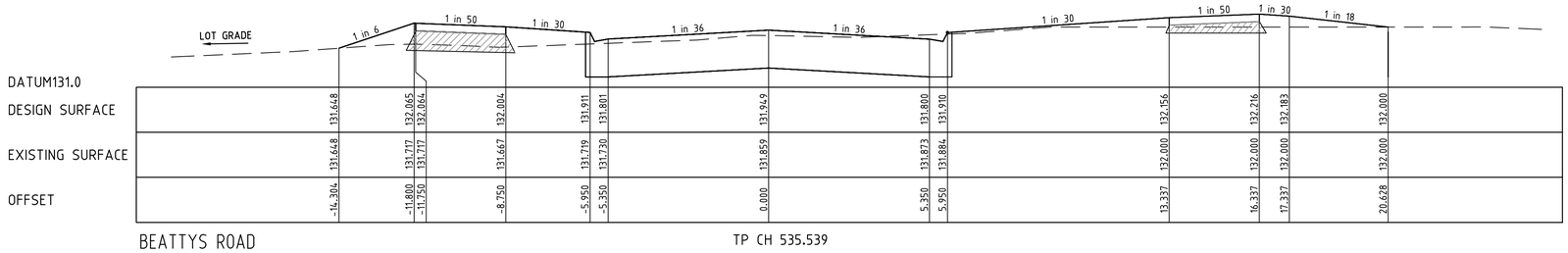
MUNICIPALITY MELTON
REFERENCE 8226 E/22
SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 21 OF 43 | B

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019









FCR BACKFILL PLACED UNDER FOOTPATH WHERE ABOVE EXISTING SURFACE TO BE CLASS 3 OR CRUSHED CONCRETE CLASS 3

1:50 VER 1 0.5 00 1 2 4
1:100 HOR 2 1 00 2 4 8

VER.	DATE	REMARKS
B	22.07.19	SHEET NUMBERS AMENDED
A	15.10.18	CONSTRUCTION ISSUE

AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

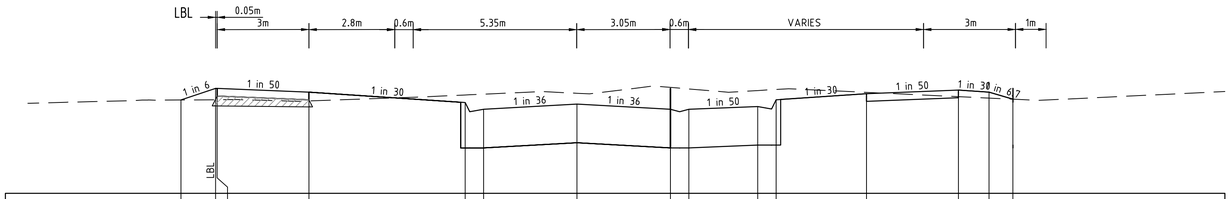
MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE STAGE 22
ROAD CROSS SECTIONS - SHEET 8

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22

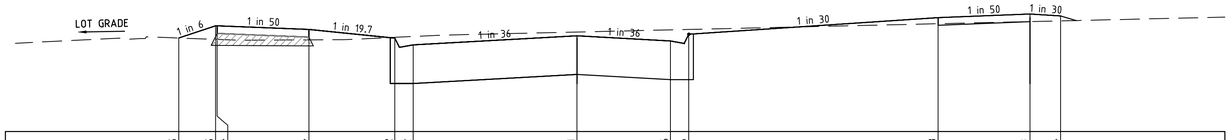
SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 22 OF 43 | B

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



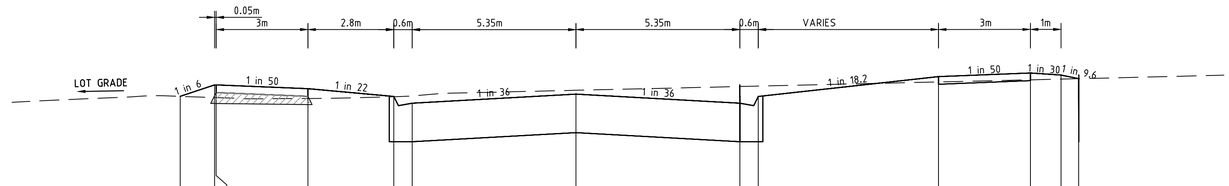
DATUM130.0																										
DESIGN SURFACE	131.523	131.712	131.711	131.651	131.481	131.371	131.455	131.371	131.371	131.416	131.526	131.624	131.684	131.651	131.535
EXISTING SURFACE	131.522	131.526	131.526	131.507	131.604	131.617	131.631	131.728	131.702	131.676	131.694	131.647	131.576	131.553	131.535
OFFSET	-12.931	-11.800	-11.750	-8.750	-3.650	-3.050	0.000	3.052	3.652	5.902	6.502	9.453	12.453	13.453	14.233

BEATTYS ROAD CH 634.298



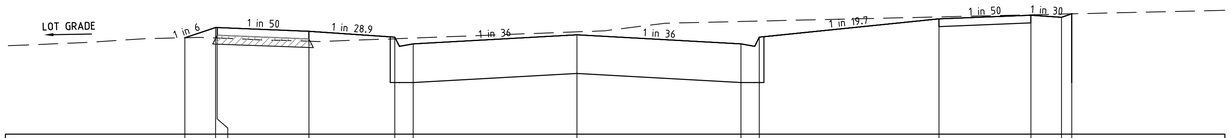
DATUM130.0										
DESIGN SURFACE	131.525	131.725	131.724	131.664	131.522	131.412	131.561	131.476	131.586	131.858	131.918	131.884
EXISTING SURFACE	131.525	131.502	131.501	131.495	131.536	131.549	131.623	131.658	131.665	131.758	131.792	131.805
OFFSET	-13.002	-11.800	-11.750	-8.750	-5.950	-5.350	0.000	3.050	3.650	11.791	14.791	15.791

BEATTYS ROAD RTP CH 613.206



DATUM130.0															
DESIGN SURFACE	131.543	131.731	131.730	131.670	131.542	131.432	131.581	131.432	131.542	131.865	131.925	131.892	131.831
EXISTING SURFACE	131.543	131.524	131.524	131.508	131.537	131.548	131.642	131.704	131.711	131.779	131.813	131.825	131.831
OFFSET	-12.922	-11.800	-11.750	-8.750	-5.950	-5.350	0.000	5.350	5.950	11.836	14.836	15.836	16.414

BEATTYS ROAD RTP CH 609.247



DATUM130.0												
DESIGN SURFACE	131.574	131.742	131.741	131.681	131.584	131.474	131.622	131.473	131.583	131.882	131.942	131.908	131.964
EXISTING SURFACE	131.574	131.571	131.570		131.556	131.570	131.671	131.840	131.847	131.914	131.949	131.960	131.964
OFFSET	-12.802	-11.800	-11.750	-8.750	-5.950	-5.350	0.000	5.350	5.950	11.819	14.819	15.819	16.155

BEATTYS ROAD CH 600.974

FCR BACKFILL PLACED UNDER FOOTPATH WHERE ABOVE EXISTING SURFACE TO BE CLASS 3 OR CRUSHED CONCRETE CLASS 3

1:50 VER 1 0.5 00 1 2 4
1:100 HOR 2 1 00 2 4 8

VER.	DATE	REMARKS
B	22.07.19	SHEET NUMBERS AMENDED
A	15.10.18	CONSTRUCTION ISSUE

AMENDMENTS

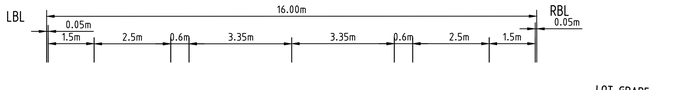
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE STAGE 22
ROAD CROSS SECTIONS - SHEET 9

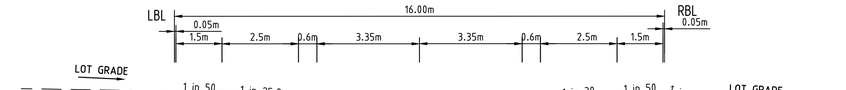
MUNICIPALITY: MELTON
REFERENCE: 8226 E/22
SCALE AS SHOWN | DATUM AHD | DATE APRIL '18
SHEET 23 OF 43 | B

CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



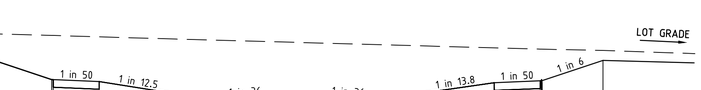
DATUM129.0														
DESIGN SURFACE	130.810	130.453	130.452	130.422	130.222	130.112	130.205	130.112	130.222	130.362	130.392	130.393	130.550	
EXISTING SURFACE	130.810	130.782	130.781	130.761	130.729	130.722	130.678	130.629	130.621	130.584	130.563	130.562	130.550	
OFFSET	-10.144	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000	8.942	

TARADALE CRESCENT CH 604.154



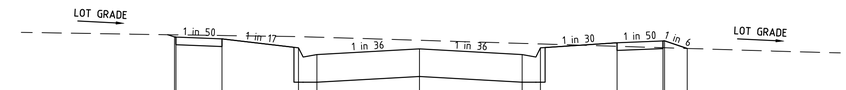
DATUM129.0														
DESIGN SURFACE	130.814	130.813	130.783	130.684	130.574	130.667	130.574	130.684	130.767	130.797	130.798	130.621		
EXISTING SURFACE	130.828	130.828	130.814	130.791	130.784	130.747	130.709	130.700	130.661	130.638	130.637	130.621		
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000	9.068		

TARADALE CRESCENT CH 660.154



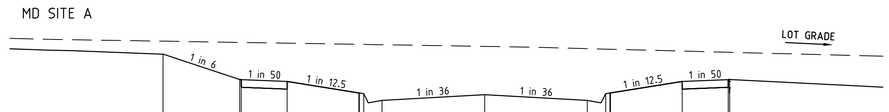
DATUM129.0														
DESIGN SURFACE	130.867	130.096	130.095	130.065	129.865	129.755	129.848	129.755	129.865	130.046	130.076	130.077	130.410	
EXISTING SURFACE	130.867	130.818	130.817	130.794	130.758	130.750	130.704	130.657	130.649	130.614	130.594	130.593	130.572	
OFFSET	-12.622	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000	10.000	

TARADALE CRESCENT LTP CH 583.964



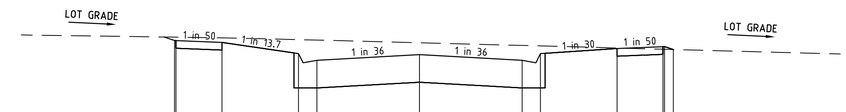
DATUM129.0														
DESIGN SURFACE	130.792	130.791	130.761	130.614	130.504	130.597	130.504	130.614	130.697	130.727	130.728	130.605		
EXISTING SURFACE	130.827	130.827	130.816	130.797	130.789	130.738	130.687	130.678	130.640	130.617	130.616	130.605		
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000	8.742		

TARADALE CRESCENT CH 646.154



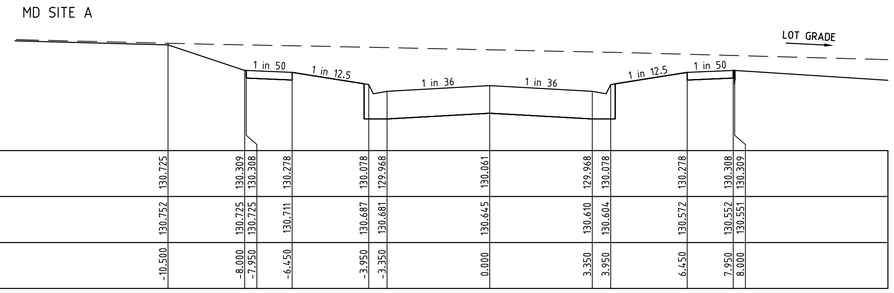
DATUM129.0														
DESIGN SURFACE	130.537	130.120	130.119	130.089	129.889	129.779	129.872	129.779	129.889	130.089	130.119	130.120		
EXISTING SURFACE	130.746	130.727	130.726	130.714	130.694	130.689	130.661	130.625	130.617	130.585	130.566	130.565		
OFFSET	-10.500	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000		

FAIRMONT CRESCENT LTP CH 523.347



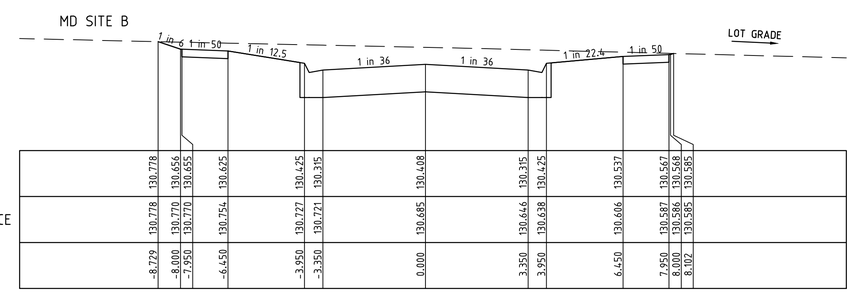
DATUM129.0														
DESIGN SURFACE	130.757	130.756	130.726	130.544	130.434	130.527	130.434	130.544	130.627	130.657	130.658	130.610		
EXISTING SURFACE	130.812	130.812	130.800	130.772	130.764	130.720	130.677	130.669	130.635	130.615	130.614	130.610		
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000	8.287		

TARADALE CRESCENT CH 632.154



DATUM129.0														
DESIGN SURFACE	130.725	130.309	130.308	130.278	130.078	129.968	130.061	129.968	130.078	130.278	130.308	130.309		
EXISTING SURFACE	130.752	130.725	130.725	130.711	130.687	130.681	130.645	130.610	130.604	130.572	130.552	130.551		
OFFSET	-10.500	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000		

FAIRMONT CRESCENT LIMIT OF WORKS CH 503.638



DATUM129.0														
DESIGN SURFACE	130.778	130.656	130.655	130.625	130.425	130.335	130.408	130.335	130.425	130.537	130.567	130.568	130.585	
EXISTING SURFACE	130.778	130.770	130.770	130.754	130.727	130.721	130.685	130.646	130.638	130.606	130.587	130.586	130.585	
OFFSET	-8.729	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000	8.102	

TARADALE CRESCENT CH 618.154

FCR BACKFILL PLACED UNDER FOOTPATH WHERE ABOVE EXISTING SURFACE TO BE CLASS 3 OR CRUSHED CONCRETE CLASS 3

1:50 VER 1 0.5 00 1 2 4

1:100 HOR 2 1 00 2 4 8

AMENDMENTS			
B	22.07.19	SHEET NUMBERS AMENDED	
B	06.12.18	RESERVE CHANGED TO MD SITE B	
A	15.10.18	CONSTRUCTION ISSUE	
VER.	DATE	REMARKS	

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

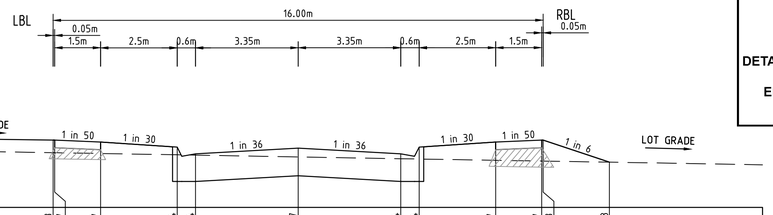
ASPIRE ESTATE STAGE 22

ROAD CROSS SECTIONS - SHEET 10

MUNICIPALITY MELTON
REFERENCE 8226 E/22

SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 24 OF 43 | C

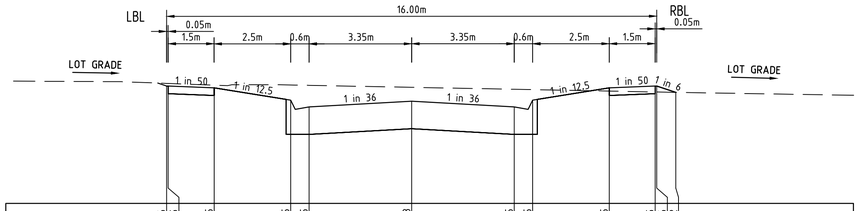
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



DATUM130.0

DESIGN SURFACE	131.098	131.097	131.067	130.984	130.874	130.967	130.874	130.984	131.067	131.097	131.098	130.738
EXISTING SURFACE	130.893	130.892	130.879	130.858	130.853	130.823	130.794	130.789	130.769	130.756	130.756	130.738
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000	10.163

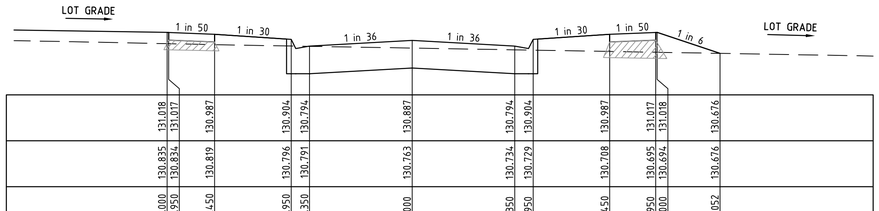
TARADALE CRESCENT CH 720.154



DATUM129.0

DESIGN SURFACE	130.916	130.915	130.885	130.685	130.575	130.668	130.575	130.685	130.885	130.915	130.916	130.872
EXISTING SURFACE	130.959	130.958	130.929	130.932	130.927	130.895	130.862	130.857	130.833	130.819	130.818	130.812
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000	8.693

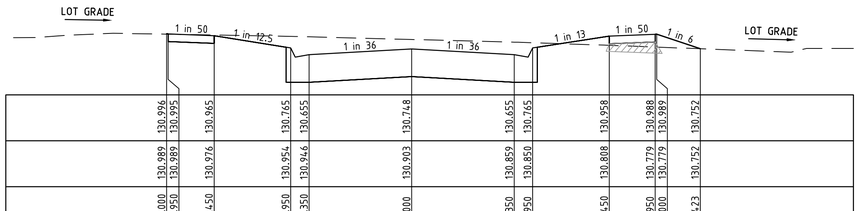
TARADALE CRESCENT CH 780.154



DATUM130.0

DESIGN SURFACE	131.018	131.017	130.987	130.904	130.794	130.887	130.794	130.904	130.987	131.017	131.018	130.676
EXISTING SURFACE	130.835	130.834	130.819	130.796	130.791	130.763	130.734	130.729	130.708	130.695	130.694	130.676
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000	10.052

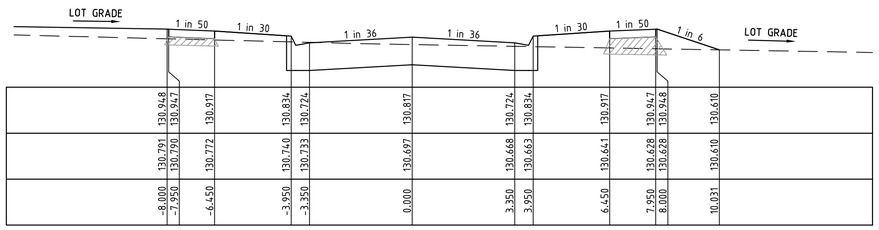
TARADALE CRESCENT CH 704.154



DATUM130.0

DESIGN SURFACE	130.996	130.995	130.965	130.765	130.655	130.748	130.655	130.765	130.958	130.988	130.989	130.752
EXISTING SURFACE	130.989	130.989	130.976	130.954	130.946	130.903	130.859	130.850	130.808	130.779	130.779	130.752
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000	9.423

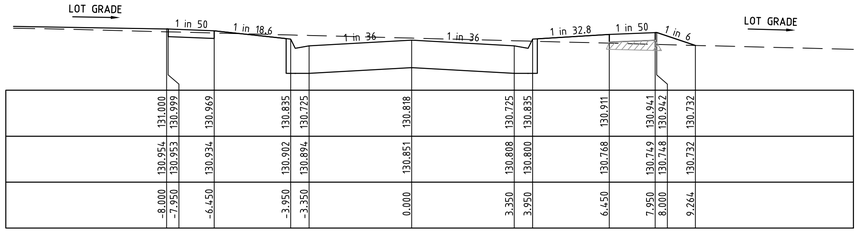
TARADALE CRESCENT CH 764.154



DATUM130.0

DESIGN SURFACE	130.948	130.947	130.917	130.834	130.724	130.817	130.724	130.834	130.917	130.947	130.948	130.610
EXISTING SURFACE	130.791	130.790	130.772	130.740	130.733	130.697	130.668	130.663	130.641	130.628	130.628	130.610
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000	10.031

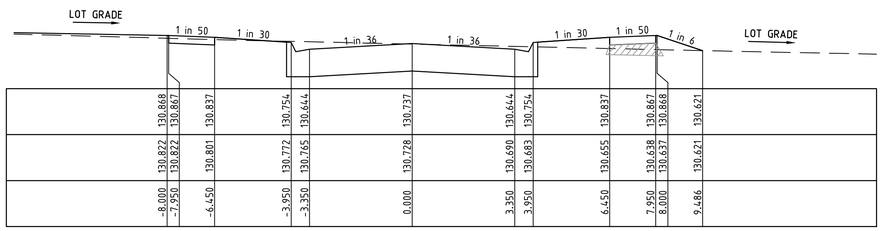
TARADALE CRESCENT CH 690.154



DATUM130.0

DESIGN SURFACE	131.000	130.999	130.969	130.835	130.725	130.818	130.725	130.835	130.911	130.941	130.942	130.732
EXISTING SURFACE	130.954	130.953	130.934	130.902	130.894	130.851	130.808	130.800	130.768	130.749	130.748	130.732
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000	9.264

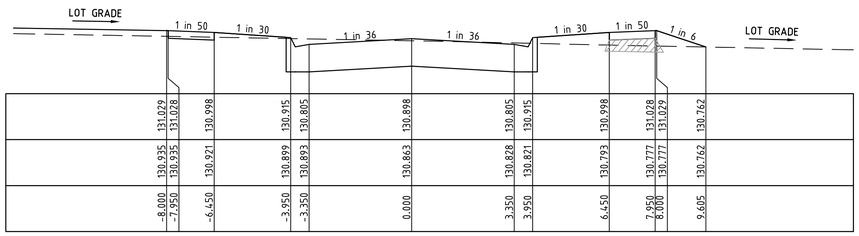
TARADALE CRESCENT CH 750.154



DATUM130.0

DESIGN SURFACE	130.868	130.867	130.837	130.754	130.644	130.737	130.644	130.754	130.837	130.867	130.868	130.621
EXISTING SURFACE	130.822	130.822	130.801	130.772	130.765	130.728	130.690	130.683	130.655	130.638	130.637	130.621
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000	9.486

TARADALE CRESCENT CH 674.154



DATUM130.0

DESIGN SURFACE	131.029	131.028	130.998	130.915	130.805	130.898	130.805	130.915	130.998	131.028	131.029	130.762
EXISTING SURFACE	130.935	130.935	130.921	130.899	130.893	130.863	130.828	130.821	130.793	130.777	130.777	130.762
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000	9.605

TARADALE CRESCENT CH 734.154

FCR BACKFILL PLACED UNDER FOOTPATH WHERE ABOVE EXISTING SURFACE TO BE CLASS 3 OR CRUSHED CONCRETE CLASS 3

1:50 VER 1 0.5 00 1 2 4
1:100 HOR 2 1 00 2 4 8

AMENDMENTS

VER.	DATE	REMARKS
B	22.07.19	SHEET NUMBERS AMENDED
A	15.10.18	CONSTRUCTION ISSUE

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

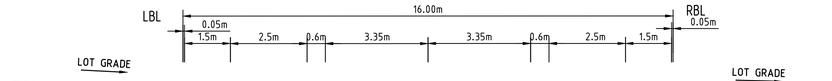
MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

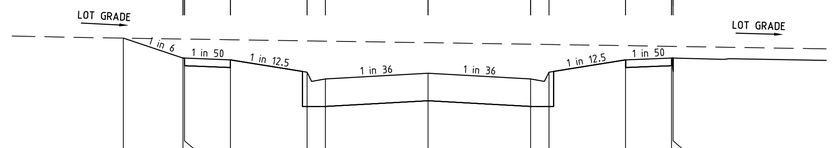
ASPIRE ESTATE STAGE 22
ROAD CROSS SECTIONS - SHEET 11

SCALE AS SHOWN | DATUM AHD | DATE APRIL '18

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22
SHEET 25 OF 43 B

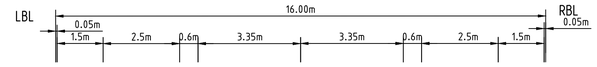
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019

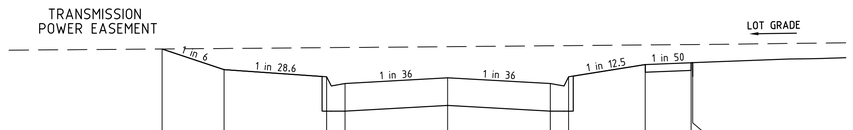




DATUM129.0																							
DESIGN SURFACE	130.926	130.601	130.600	130.570	130.370	130.260	130.353	130.260	130.370	130.570	130.600	130.601
EXISTING SURFACE	130.926	130.911	130.911	130.900	130.881	130.876	130.851	130.827	130.822	130.803	130.791	130.791
OFFSET	-9.946	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000

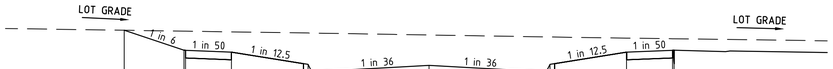
TARADALE CRESCENT CH 838.861





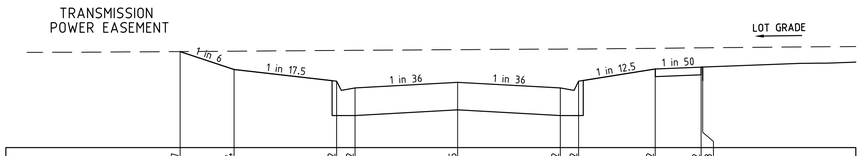
DATUM129.0												
DESIGN SURFACE	130.455	130.118	130.001	129.891	129.984	129.891	130.001	130.201	130.231	130.232
EXISTING SURFACE	130.455	130.463	130.476	130.479	130.492	130.507	130.510	130.521	130.527	130.527
OFFSET	-9.322	-7.300	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000

TARADALE CRESCENT CH 889.096



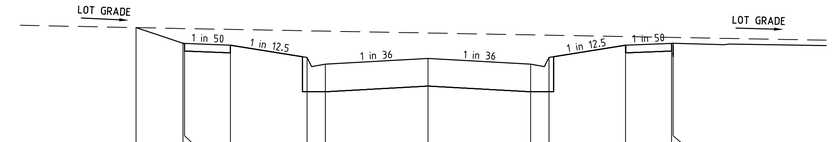
DATUM129.0												
DESIGN SURFACE	130.963	130.638	130.637	130.607	130.407	130.297	130.390	130.297	130.407	130.607	130.637	130.638
EXISTING SURFACE	130.963	130.949	130.948	130.937	130.919	130.914	130.886	130.859	130.854	130.835	130.825	130.825
OFFSET	-9.952	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000

TARADALE CRESCENT TP CH 831.537



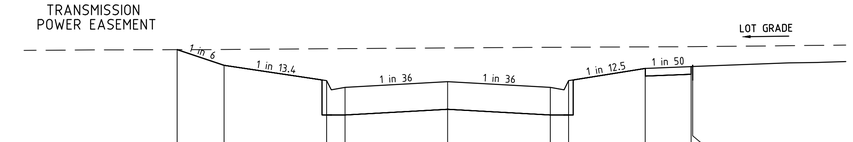
DATUM129.0												
DESIGN SURFACE	130.567	130.274	130.082	129.972	130.065	129.972	130.082	130.282	130.312	130.313
EXISTING SURFACE	130.567	130.573	130.585	130.587	130.598	130.607	130.609	130.620	130.628	130.628
OFFSET	-9.060	-7.300	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000

TARADALE CRESCENT CH 876.596



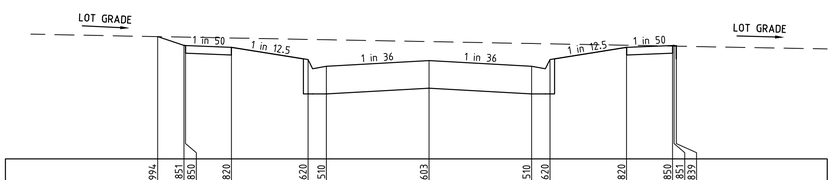
DATUM129.0												
DESIGN SURFACE	131.014	130.758	130.757	130.727	130.527	130.417	130.510	130.417	130.527	130.727	130.757	130.758
EXISTING SURFACE	131.014	130.998	130.998	130.984	130.962	130.956	130.926	130.896	130.890	130.867	130.854	130.853
OFFSET	-9.535	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000

TARADALE CRESCENT TP CH 811.747



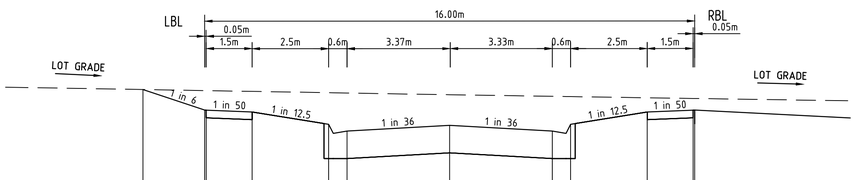
DATUM129.0												
DESIGN SURFACE	130.654	130.398	130.148	130.038	130.131	130.038	130.148	130.348	130.378	130.379
EXISTING SURFACE	130.654	130.657	130.668	130.671	130.682	130.693	130.694	130.699	130.703	130.704
OFFSET	-8.832	-7.300	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000

TARADALE CRESCENT RTP CH 866.595



DATUM129.0												
DESIGN SURFACE	130.994	130.851	130.850	130.820	130.620	130.510	130.603	130.510	130.620	130.820	130.850	130.839
EXISTING SURFACE	130.994	130.987	130.986	130.973	130.950	130.944	130.913	130.882	130.877	130.854	130.840	130.839
OFFSET	-8.860	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.072

TARADALE CRESCENT CH 793.138



DATUM129.0												
DESIGN SURFACE	130.899	130.563	130.562	130.532	130.332	130.222	130.315	130.222	130.332	130.532	130.562	130.563
EXISTING SURFACE	130.899	130.881	130.881	130.868	130.847	130.842	130.814	130.788	130.783	130.764	130.753	130.752
OFFSET	-10.015	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000

TARADALE CRESCENT RTP CH 846.558

FCR BACKFILL PLACED UNDER FOOTPATH WHERE ABOVE EXISTING SURFACE TO BE CLASS 3 OR CRUSHED CONCRETE CLASS 3

1:50 VER 1 0.5 00 1 2 4
1:100 HOR 2 1 00 2 4 8

AMENDMENTS			
B	22.07.19	SHEET NUMBERS AMENDED	
A	15.10.18	CONSTRUCTION ISSUE	
VER.	DATE	REMARKS	

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

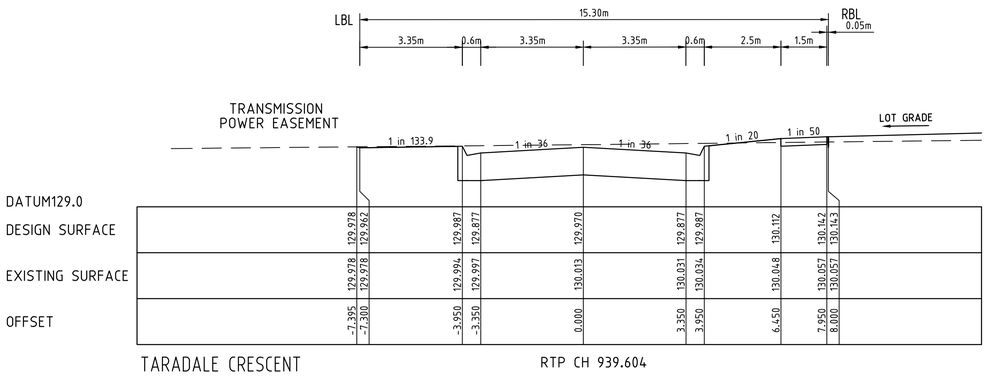
MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

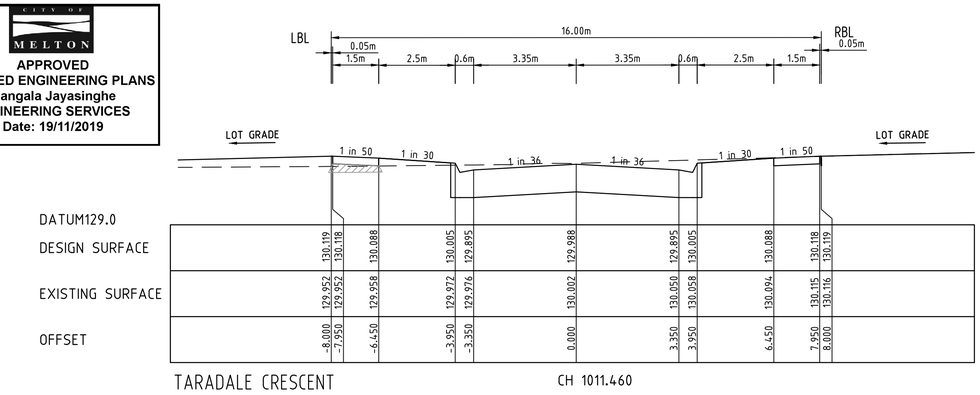
ASPIRE ESTATE STAGE 22

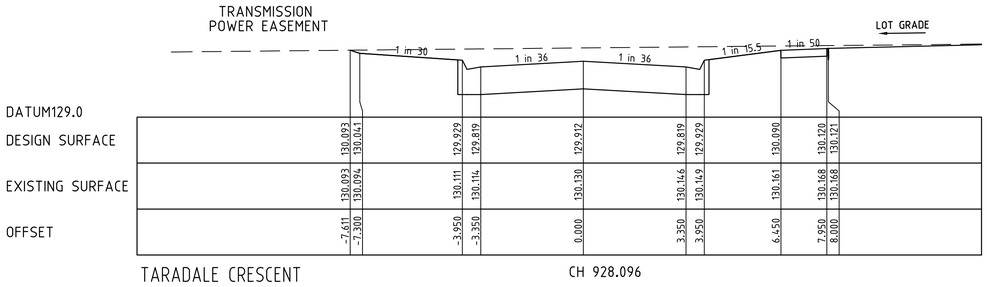
ROAD CROSS SECTIONS - SHEET 12

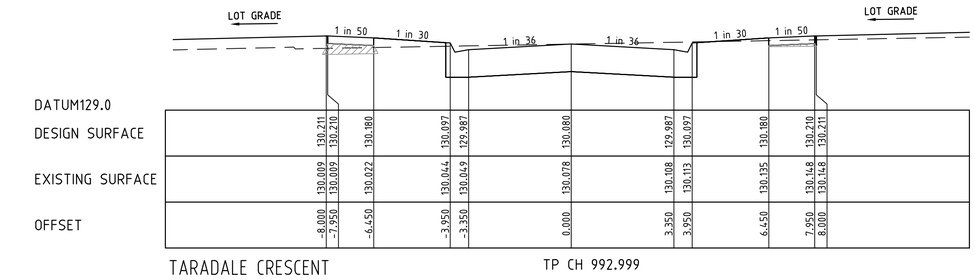
MUNICIPALITY MELTON
REFERENCE 8226 E/22
SCALE AS SHOWN DATUM AHD DATE APRIL '18
SHEET 26 OF 43 B

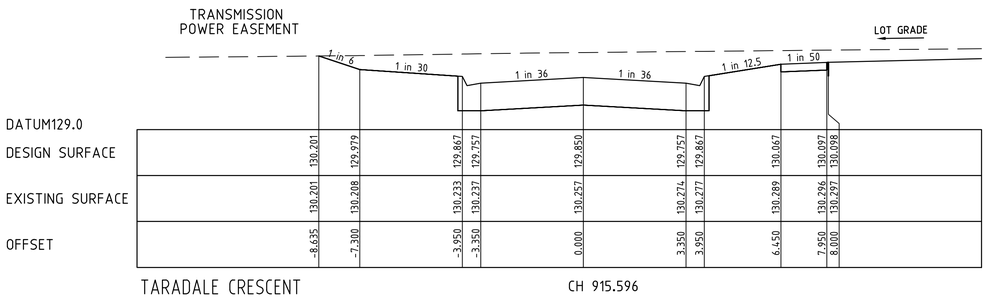
CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019

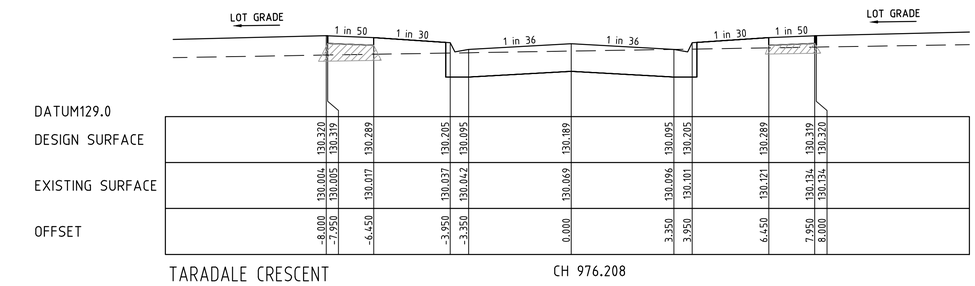


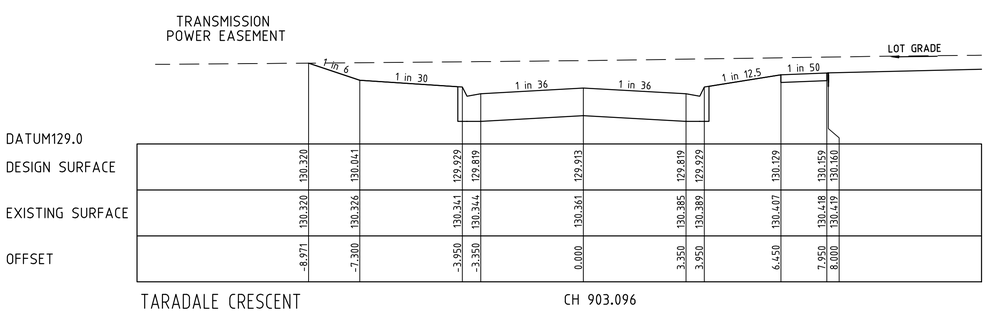


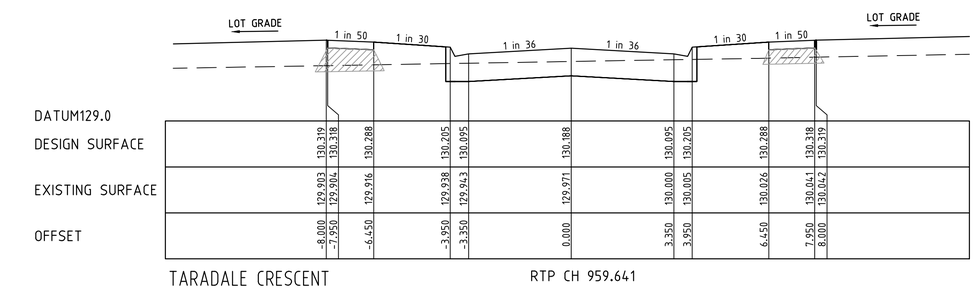












FCR BACKFILL PLACED UNDER FOOTPATH WHERE ABOVE EXISTING SURFACE TO BE CLASS 3 OR CRUSHED CONCRETE CLASS 3

1:50 VER 1 0.5 00 1 2 4
1:100 HOR 2 1 00 2 4 8

AMENDMENTS

VER.	DATE	REMARKS
B	22.07.19	SHEET NUMBERS AMENDED
A	15.10.18	CONSTRUCTION ISSUE

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

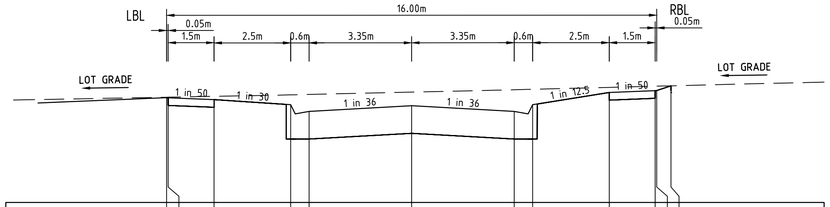
MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE STAGE 22

ROAD CROSS SECTIONS - SHEET 13

MUNICIPALITY MELTON
REFERENCE 8226 E/22
SCALE AS SHOWN | DATUM AHD | DATE APRIL '18
SHEET 27 OF 43 | B

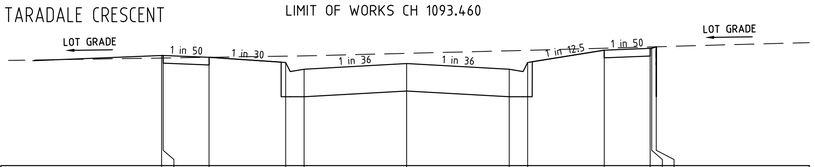
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



DATUM128.0

DESIGN SURFACE	129.708	129.707	129.677	129.594	129.484	129.577	129.484	129.594	129.794	129.824	129.825	129.903
EXISTING SURFACE	129.717	129.717	129.731	129.755	129.762	129.800	129.838	129.846	129.877	129.896	129.897	129.903
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000	8.466

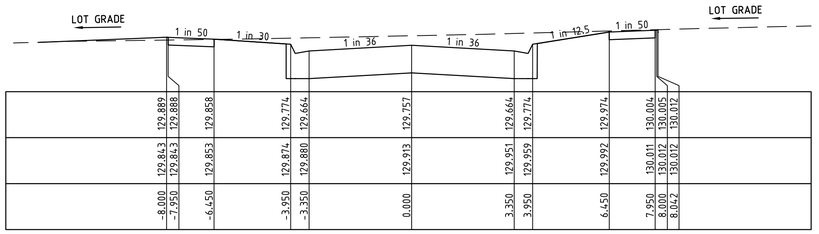
TARADALE CRESCENT LIMIT OF WORKS CH 1093.460



DATUM128.0

DESIGN SURFACE	129.799	129.798	129.768	129.684	129.574	129.667	129.574	129.684	129.884	129.914	129.915	129.940
EXISTING SURFACE	129.756	129.756	129.768	129.787	129.792	129.833	129.874	129.882	129.916	129.937	129.938	129.940
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000	8.148

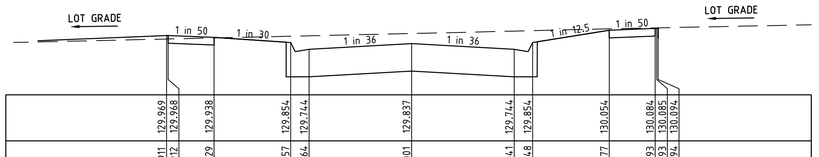
TARADALE CRESCENT CH 1075.460



DATUM129.0

DESIGN SURFACE	129.889	129.888	129.858	129.774	129.664	129.757	129.664	129.774	129.974	130.004	130.005	130.012
EXISTING SURFACE	129.843	129.843	129.853	129.876	129.880	129.913	129.951	129.959	129.992	130.011	130.012	130.012
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000	8.042

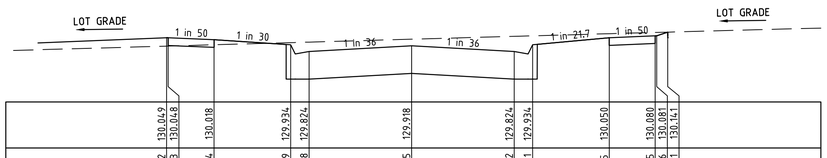
TARADALE CRESCENT CH 1057.460



DATUM129.0

DESIGN SURFACE	129.969	129.968	129.938	129.854	129.744	129.837	129.744	129.854	130.054	130.084	130.085	130.094
EXISTING SURFACE	129.911	129.912	129.929	129.957	129.964	130.001	130.041	130.048	130.077	130.093	130.093	130.094
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000	8.049

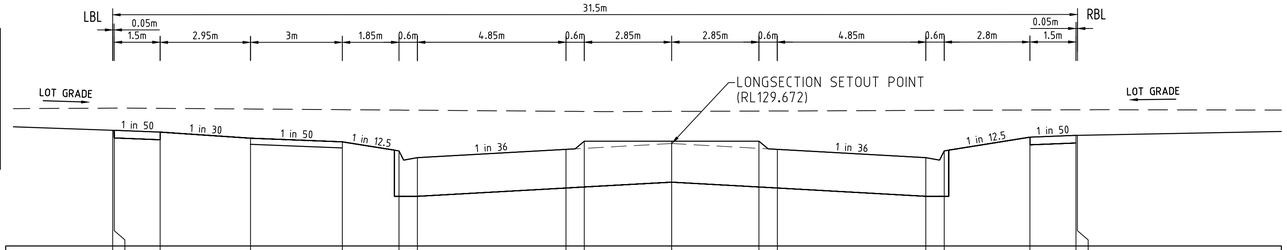
TARADALE CRESCENT CH 1041.460



DATUM129.0

DESIGN SURFACE	130.049	130.048	130.018	129.934	129.824	129.918	129.824	129.934	130.050	130.080	130.081	130.141
EXISTING SURFACE	129.912	129.913	129.934	129.969	129.978	130.025	130.072	130.081	130.115	130.135	130.136	130.141
OFFSET	-8.000	-7.950	-6.450	-3.950	-3.350	0.000	3.350	3.950	6.450	7.950	8.000	8.369

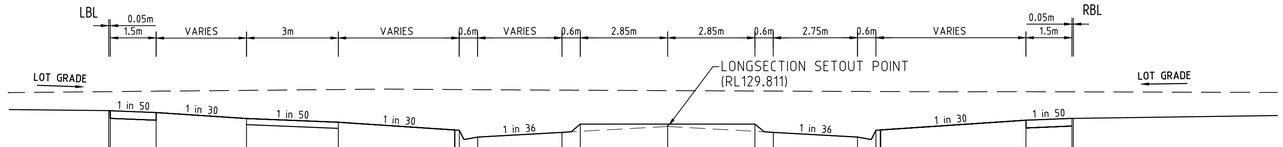
TARADALE CRESCENT CH 1025.460



DATUM128.0

DESIGN SURFACE	129.888	129.887	129.857	129.759	129.699	129.551	129.441	129.576	129.708	129.708	129.708	129.576	129.441	129.551	129.775	129.805	129.806
EXISTING SURFACE	130.249	130.249	130.246	130.235	130.224	130.217	130.215	130.197	130.195	130.196	130.201	130.203	130.212	130.214	130.219	130.222	130.222
OFFSET	-18.250	-18.200	-16.700	-13.750	-10.750	-8.900	-8.300	-3.450	-2.850	0.000	2.850	3.450	8.300	8.900	11.700	13.200	13.250

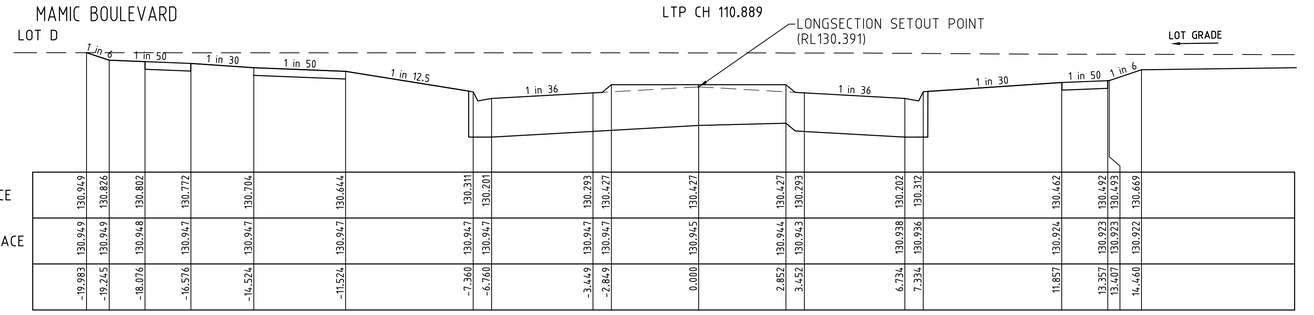
MAMIC BOULEVARD LIMIT OF WORKS CH 123.167



DATUM128.0

DESIGN SURFACE	130.070	130.069	130.039	129.940	129.880	129.749	129.639	129.715	129.847	129.847	129.847	129.715	129.639	129.749	129.912	129.942	129.943
EXISTING SURFACE	130.380	130.380	130.387	130.400	130.414	130.413	130.411	130.404	130.403	130.397	130.391	130.389	130.383	130.382	130.378	130.376	130.376
OFFSET	-18.250	-18.200	-16.700	-13.750	-10.750	-6.800	-6.200	-3.450	-2.850	0.000	2.850	3.450	6.200	6.800	11.700	13.200	13.250

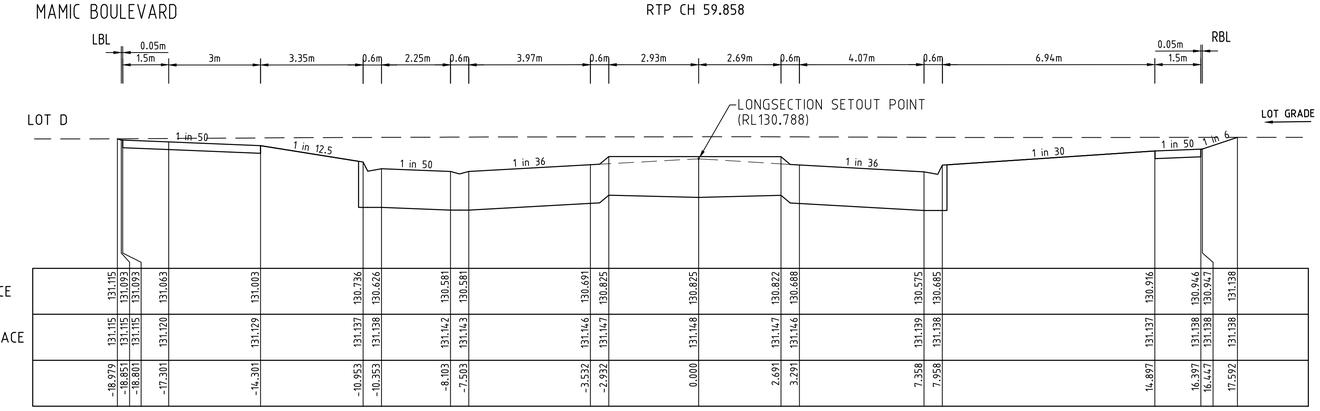
MAMIC BOULEVARD LTP CH 110.889



DATUM129.0

DESIGN SURFACE	130.949	130.826	130.802	130.772	130.704	130.644	130.311	130.201	130.293	130.427	130.427	130.427	130.293	130.202	130.312	130.462	130.492	130.493	130.669
EXISTING SURFACE	130.949	130.949	130.948	130.947	130.947	130.947	130.947	130.947	130.947	130.947	130.945	130.944	130.943	130.938	130.936	130.924	130.923	130.923	130.922
OFFSET	-19.983	-19.245	-18.076	-16.576	-14.524	-11.524	-7.360	-6.760	-3.449	-2.849	0.000	2.852	3.452	6.734	7.334	11.857	13.357	13.407	14.460

MAMIC BOULEVARD RTP CH 59.858



DATUM129.0

DESIGN SURFACE	131.115	131.093	131.099	131.063	131.003	130.736	130.626	130.581	130.581	130.691	130.825	130.825	130.822	130.688	130.575	130.685	130.916	130.946	130.947	131.138
EXISTING SURFACE	131.115	131.115	131.115	131.120	131.129	131.137	131.138	131.142	131.143	131.146	131.147	131.148	131.147	131.146	131.139	131.138	131.137	131.138	131.138	131.138
OFFSET	-18.979	-18.851	-18.801	-17.301	-14.301	-10.953	-10.353	-8.103	-7.503	-3.532	-2.932	0.000	2.691	3.291	7.358	7.958	14.897	16.397	16.447	17.592

MAMIC BOULEVARD RTP CH 38.640

FCR BACKFILL PLACED UNDER FOOTPATH WHERE ABOVE EXISTING SURFACE TO BE CLASS 3 OR CRUSHED CONCRETE CLASS 3

1:50 VER 1 0.5 00 1 2 4
1:100 HOR 2 1 00 2 4 8

AMENDMENTS			
F	22.07.19	SHEET NUMBERS AMENDED	
E	29.04.19	MAMIC BOULEVARD AMENDED	
D	23.01.19	MAMIC BOULEVARD AMENDED	
C	17.12.18	LONGSECTION SETOUT POINT ADDED	
B	06.12.18	RESERVE CHANGED TO MD SITE B	
A	15.10.18	CONSTRUCTION ISSUE	
VER.	DATE	REMARKS	

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	354 C12
SURVEY	BPD
DESIGN	JGB
DRAWN	IMW
CHECKED	TBA

ASPIRE ESTATE STAGE 22
ROAD CROSS SECTIONS - SHEET 14

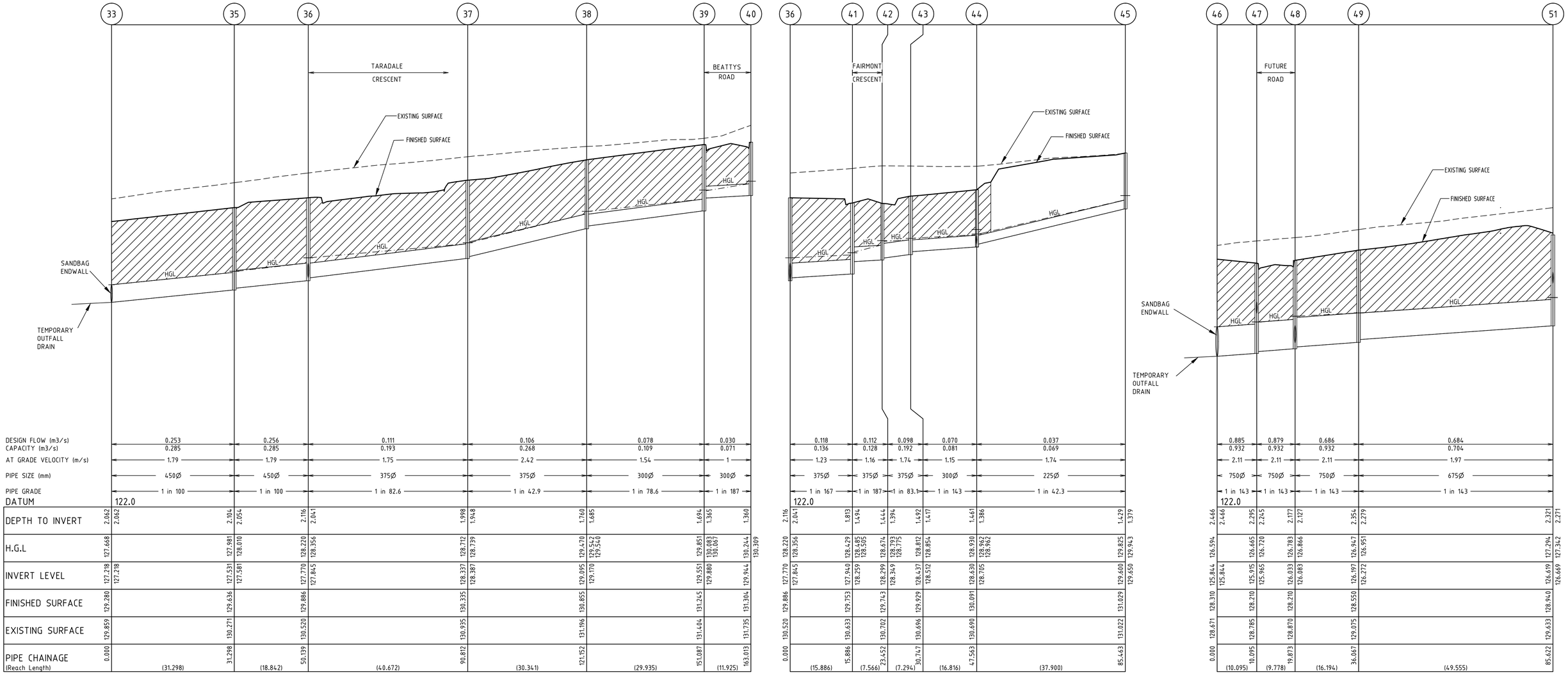
MUNICIPALITY: MELTON
REFERENCE: 8226 E/22

SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 28 OF 43 | F

PLOTTED: 19/11/19

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



DRAINAGE LONGITUDINAL SECTIONS

SCALE - HORIZONTAL 1:500
VERTICAL 1:50

LEGEND:

- — — — EXISTING SURFACE PROFILE
- ——— FINISHED SURFACE PROFILE
- —HGL— HYDRAULIC GRADE LINE

ALL PIPES TO BE CLASS 2 UNLESS SHOWN OTHERWISE
RRJ DENOTES RUBBER RING JOINTED
FJ DENOTES FLUSH JOINTED WITH EXTERNAL SEALING BANDS

INDICATES CRUSHED ROCK BACKFILL

1:50 VER 1 0.5 00 1 2 4
1:500 HOR 10 5 00 10 20 40

AMENDMENTS			
C	22.07.19	SHEET NUMBERS AMENDED	
B	23.01.19	DRAINAGE AMENDED	
A	15.10.18	CONSTRUCTION ISSUE	
VER.	DATE	REMARKS	

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

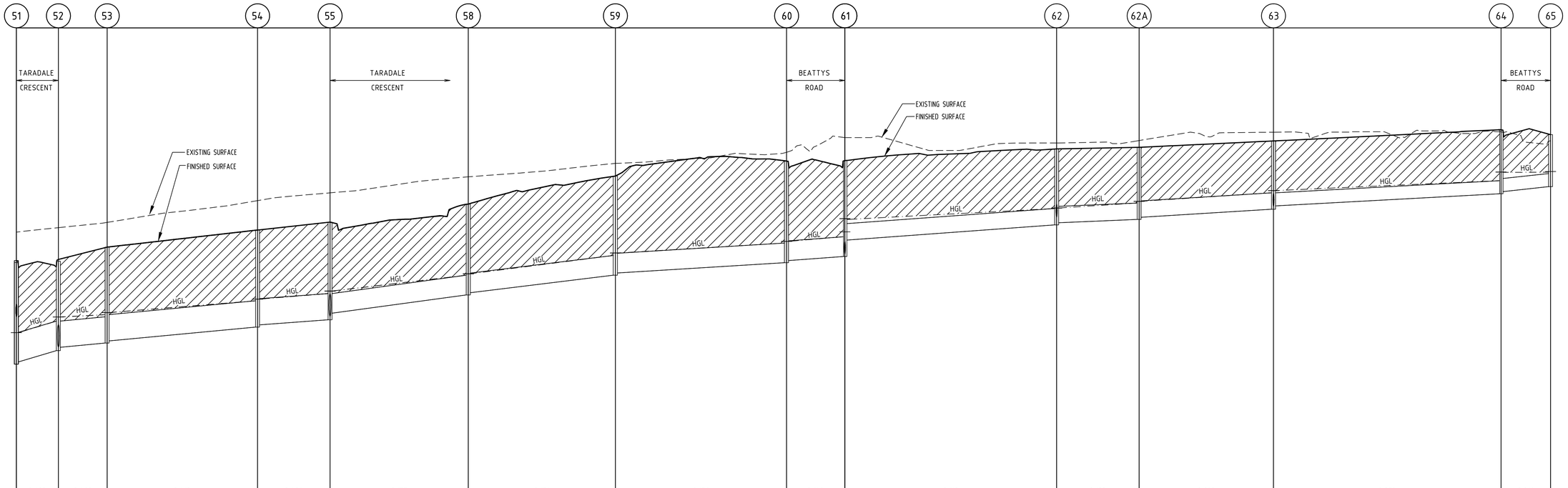
ASPIRE ESTATE
STAGE 22
DRAINAGE LONGITUDINAL SECTIONS-1

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22

SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 29 OF 43 | C

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



DESIGN FLOW (m3/s)		0.622	0.420	0.413	0.406	0.177	0.171	0.156	0.149	0.110	0.103	0.090	0.059	0.016
CAPACITY (m3/s)		1.381	0.575	0.589	0.514	0.328	0.312	0.221	0.239	0.148	0.110	0.136	0.071	0.097
AT GRADE VELOCITY (m/s)		3.86	2.03	2.08	1.82	2.06	1.96	1.39	1.5	1.34	1	1.23	1	1.37
PIPE SIZE (mm)		675Ø	600Ø	600Ø	600Ø	450Ø	450Ø	450Ø	450Ø	375Ø	375Ø	375Ø	300Ø	300Ø
PIPE GRADE		1 in 37.1	1 in 114	1 in 109	1 in 143	1 in 75.5	1 in 83.8	1 in 167	1 in 143	1 in 140	1 in 252	1 in 167	1 in 187	1 in 100
DATUM		122.0												
DEPTH TO INVERT	2.321	2.271	2.043	1.968	2.191	2.141	2.216	2.166	2.231	2.081	2.074	2.024	2.264	2.214	2.322	2.272	2.191	1.816	1.736	1.686	1.647	1.597	1.559	1.484	1.463	1.413	1.188	
H.G.L	127.294	127.338	127.602	127.696	127.748	127.795	128.065	128.104	128.231	128.288	128.649	128.682	129.101	129.157	129.385	129.423	129.528	129.940 129.922	130.174	130.185	130.298	130.338	130.533	130.583	130.810	131.007 130.999	131.002	131.019
INVERT LEVEL	126.619	126.669	126.927	127.002	127.100	127.150	127.465	127.515	127.631	127.781	128.199	128.249	128.651	128.701	128.935	128.985	129.078	129.453	129.799	129.849	129.923	129.973	130.158	130.233	130.510	130.560	130.673	
FINISHED SURFACE	128.940		128.970		129.291		129.682		129.862		130.274		130.915		131.257		131.269		131.534		131.570		131.716		131.973		131.861	
EXISTING SURFACE	129.633		129.737		129.856		130.354		130.531		130.897		131.204		131.457		131.793		131.671		131.726		131.917		131.926		131.722	
PIPE CHAINAGE (Reach Length)	85.622	(9.593)	95.215 (11.127)	106.342	(34.336)	140.679	(16.553)	157.231	(31.571)	188.802	(33.595)	222.397	(39.067)	261.465	(13.317)	274.782	(48.348)	323.131	(18.825)	341.955	(30.685)	372.641	(51.948)	424.589	(11.313)	435.902		

DRAINAGE LONGITUDINAL SECTIONS

SCALE - HORIZONTAL 1:500
VERTICAL 1:50

LEGEND:

- - - EXISTING SURFACE PROFILE
——— FINISHED SURFACE PROFILE
—HGL— HYDRAULIC GRADE LINE

ALL PIPES TO BE CLASS 2 UNLESS SHOWN OTHERWISE
RRJ DENOTES RUBBER RING JOINTED
FJ DENOTES FLUSH JOINTED WITH EXTERNAL SEALING BANDS

INDICATES CRUSHED ROCK BACKFILL

1:50 VER 1 0.5 00 1 2 4
1:500 HOR 10 5 00 10 20 40

VER.	DATE	REMARKS
B	22.07.19	SHEET NUMBERS AMENDED
A	15.10.18	CONSTRUCTION ISSUE

AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

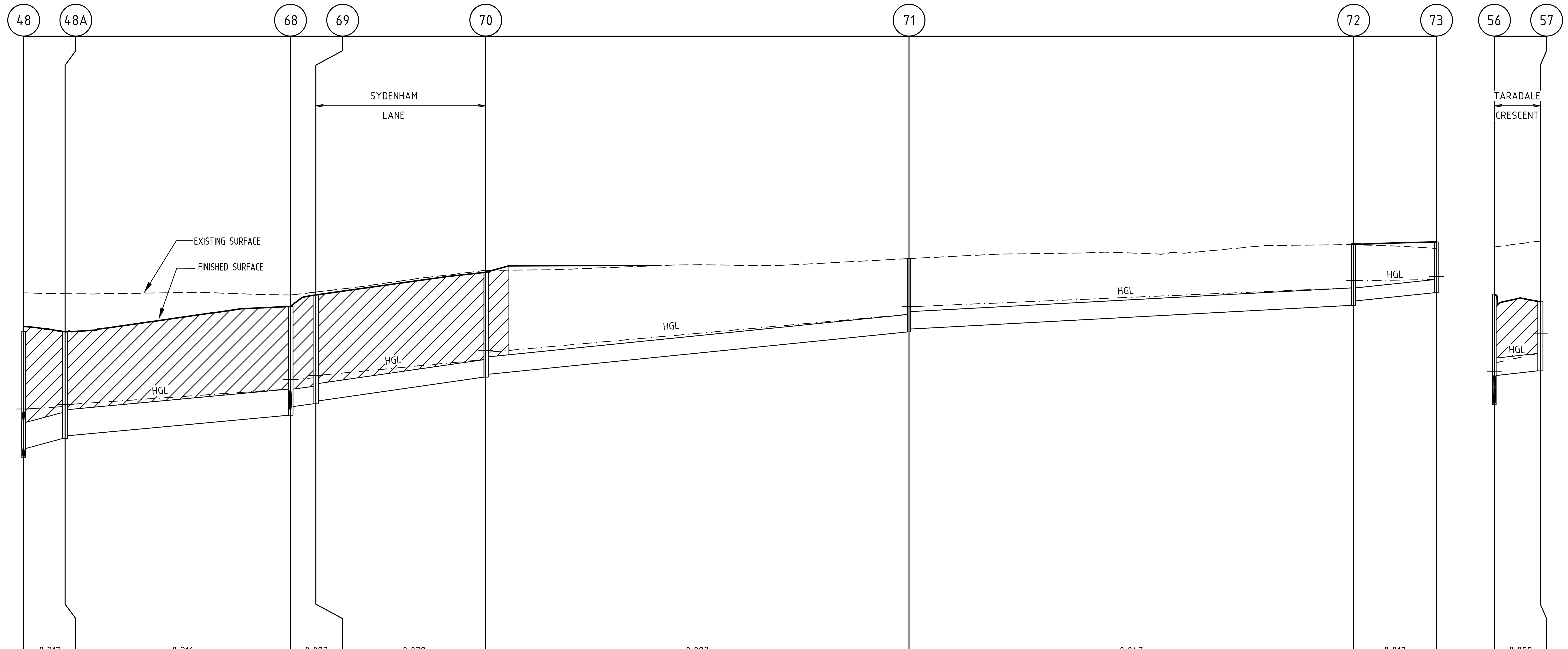
MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE
STAGE 22
DRAINAGE LONGITUDINAL SECTIONS-2

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22

SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 30 OF 43 | B

CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



Reach	DESIGN FLOW (m3/s)	CAPACITY (m3/s)	AT GRADE VELOCITY (m/s)	PIPE SIZE (mm)	PIPE GRADE	(Reach Length)
48 – 48A	0.217	0.443	2.79	450Ø	1 in 41.4	(7.160)
48A – 68	0.216	0.272	1.71	450Ø	1 in 110	(38.857)
68 – 69	0.083	0.100	1.42	300Ø	1 in 93.1	(4.384)
69 – 70	0.078	0.114	1.62	300Ø	1 in 71.4	(29.300)
70 – 71	0.082	0.097	1.37	300Ø	1 in 100	(73.000)
71 – 72	0.047	0.071	1	300Ø	1 in 187	(76.691)
72 – 73	0.013	0.045	1.13	225Ø	1 in 100	(14.281)
56 – 57	0.088	0.097	1.37	300Ø	1 in 100	(7.919)

DATUM 121.0 (pits 48–73); DATUM 122.0 (pits 56–57)

Pit	DEPTH TO INVERT	H.G.L	INVERT LEVEL	FINISHED SURFACE	EXISTING SURFACE	PIPE CHAINAGE
48	2.177 / 2.027	126.783 / 126.866	126.033 / 126.183	128.210	128.870	0.000
48A	1.844 / 1.794	126.908 / 126.943	126.356 / 126.406	128.200	128.856	7.160
68	1.877 / 1.727	127.210 / 127.374 / 127.373	126.760 / 126.910	128.637	128.833	46.017
69	1.878 / 1.828	127.405 / 127.448	126.957 / 127.007	128.835	128.885	50.401
70	1.809 / 1.759	127.717 / 127.881 / 127.846	127.417 / 127.467	129.226	129.260	79.701
71	1.262 / 1.212	128.497 / 128.633	128.197 / 128.247	129.459	129.462	152.701
72	1.063 / 0.988	128.956 / 129.081	128.656 / 128.731	129.720	129.704	229.392
73	0.876	129.099 / 129.154	128.874	129.750	129.638	243.673
56	1.908 / 1.403	128.466 / 128.520 / 128.670	127.941 / 128.446	129.849	130.661	0.000
57	1.192	128.825 / 129.175	128.525	129.717	130.765	7.919

DRAINAGE LONGITUDINAL SECTIONS

SCALE - HORIZONTAL 1:500
VERTICAL 1:50

LEGEND:

— — —EXISTING SURFACE PROFILE
———FINISHED SURFACE PROFILE
—HGL—HYDRAULIC GRADE LINE

ALL PIPES TO BE CLASS 2 UNLESS SHOWN OTHERWISE
RRJ DENOTES RUBBER RING JOINTED
FJ DENOTES FLUSH JOINTED WITH EXTERNAL SEALING BANDS

INDICATES CRUSHED ROCK BACKFILL

1:50 VER 1 0.5 00 1 2 4
1:500 HOR 10 5 00 10 20 40

AMENDMENTS

VER.	DATE	REMARKS
C	22.07.19	SHEET NUMBERS AMENDED
B	15.03.19	DRAINAGE REMOVED
A	15.10.18	CONSTRUCTION ISSUE

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	354 C12
SURVEY	BPD
DESIGN	JGB
DRAWN	IMW
CHECKED	TBA

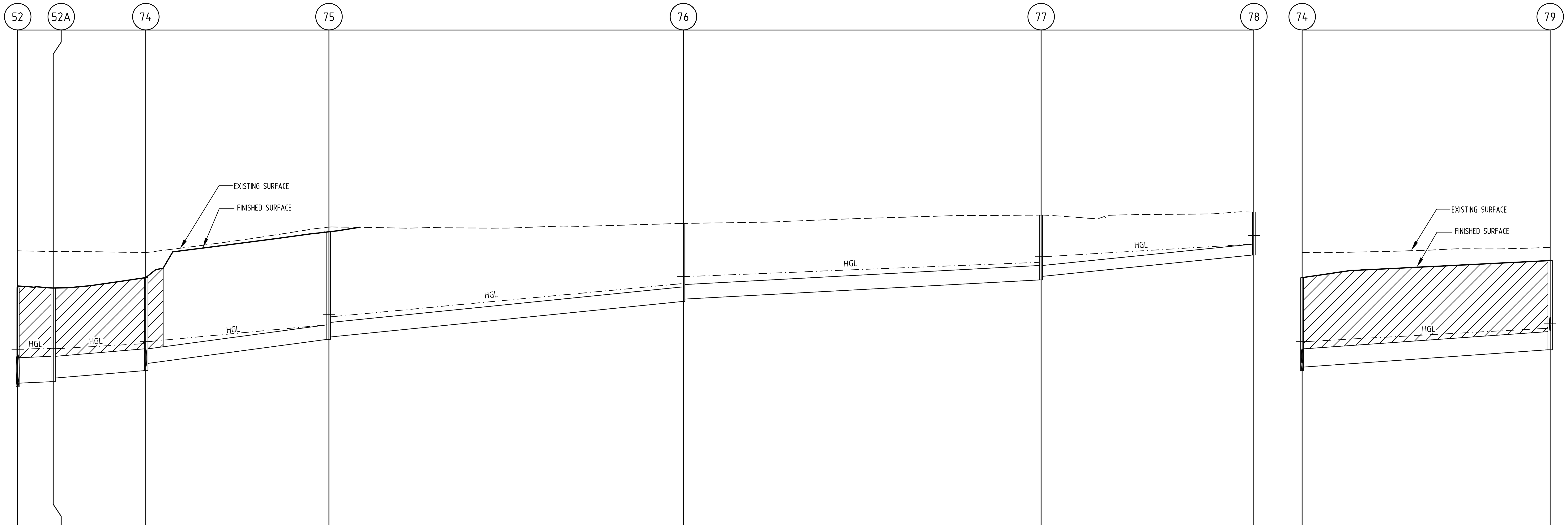
ASPIRE ESTATE
STAGE 22
DRAINAGE LONGITUDINAL SECTIONS-3

SCALE AS SHOWN | DATUM AHD | DATE APRIL '18

MUNICIPALITY MELTON
REFERENCE 8226 E/22
SHEET 31 OF 43 | C

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



Reach	52 – 52A	52A – 74	74 – 75	75 – 76	76 – 77	77 – 78
DESIGN FLOW (m3/s)	0.217	0.211	0.089	0.093	0.061	0.026
CAPACITY (m3/s)	0.272	0.255	0.111	0.097	0.071	0.045
AT GRADE VELOCITY (m/s)	1.26	1.6	1.57	1.37	1	1.13
PIPE SIZE (mm)	525Ø	450Ø	300Ø	300Ø	300Ø	225Ø
PIPE GRADE	1 in 250	1 in 125	1 in 76.3	1 in 100	1 in 187	1 in 100
(Reach Length)	(7.351)	(19.150)	(37.900)	(73.316)	(74.000)	(44.000)

DATUM 122.0

Pit	52	52A	74	75	76	77	78
DEPTH TO INVERT	2.043 / 1.968	1.936 / 1.861	1.923 / 1.773	2.224 / 2.174	1.617 / 1.567	1.340 / 1.265	0.889
H.G.L	127.602 / 127.703	127.722 / 127.713	127.817 / 127.860	128.207 / 128.415 / 128.373	129.057 / 129.204	129.499 / 129.613	129.875 / 130.053
INVERT LEVEL	126.927 / 127.002	127.032 / 127.107	127.260 / 127.410	127.907 / 127.957	128.690 / 128.740	129.135 / 129.210	129.650
FINISHED SURFACE	128.970	128.968	129.183	130.131	130.307	130.475	130.539
EXISTING SURFACE	129.737	129.725	129.701	130.229	130.303	130.475	130.537
PIPE CHAINAGE	0.000	7.351	26.501	64.401	137.716	211.716	255.716

Reach	74 – 79
DESIGN FLOW (m3/s)	0.129
CAPACITY (m3/s)	0.146
AT GRADE VELOCITY (m/s)	1.33
PIPE SIZE (mm)	375Ø
PIPE GRADE	1 in 144
(Reach Length)	(51.316)

DATUM 122.0

Pit	74	79
DEPTH TO INVERT	1.923 / 1.848	1.843 / 1.793
H.G.L	127.817 / 127.860	128.137 / 128.228
INVERT LEVEL	127.260 / 127.335	127.692 / 127.742
FINISHED SURFACE	129.183	129.535
EXISTING SURFACE	129.701	129.809
PIPE CHAINAGE	0.000	51.316

DRAINAGE LONGITUDINAL SECTIONS

SCALE - HORIZONTAL 1:500
VERTICAL 1:50

LEGEND:

— — —EXISTING SURFACE PROFILE
———FINISHED SURFACE PROFILE
—HGL—HYDRAULIC GRADE LINE

ALL PIPES TO BE CLASS 2 UNLESS SHOWN OTHERWISE
RRJ DENOTES RUBBER RING JOINTED
FJ DENOTES FLUSH JOINTED WITH EXTERNAL SEALING BANDS

INDICATES CRUSHED ROCK BACKFILL

1:50 VER 1 0.5 00 1 2 4
1:500 HOR 10 5 00 10 20 40

VER.	DATE	REMARKS
B	22.07.19	SHEET NUMBERS AMENDED
A	15.10.18	CONSTRUCTION ISSUE

AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

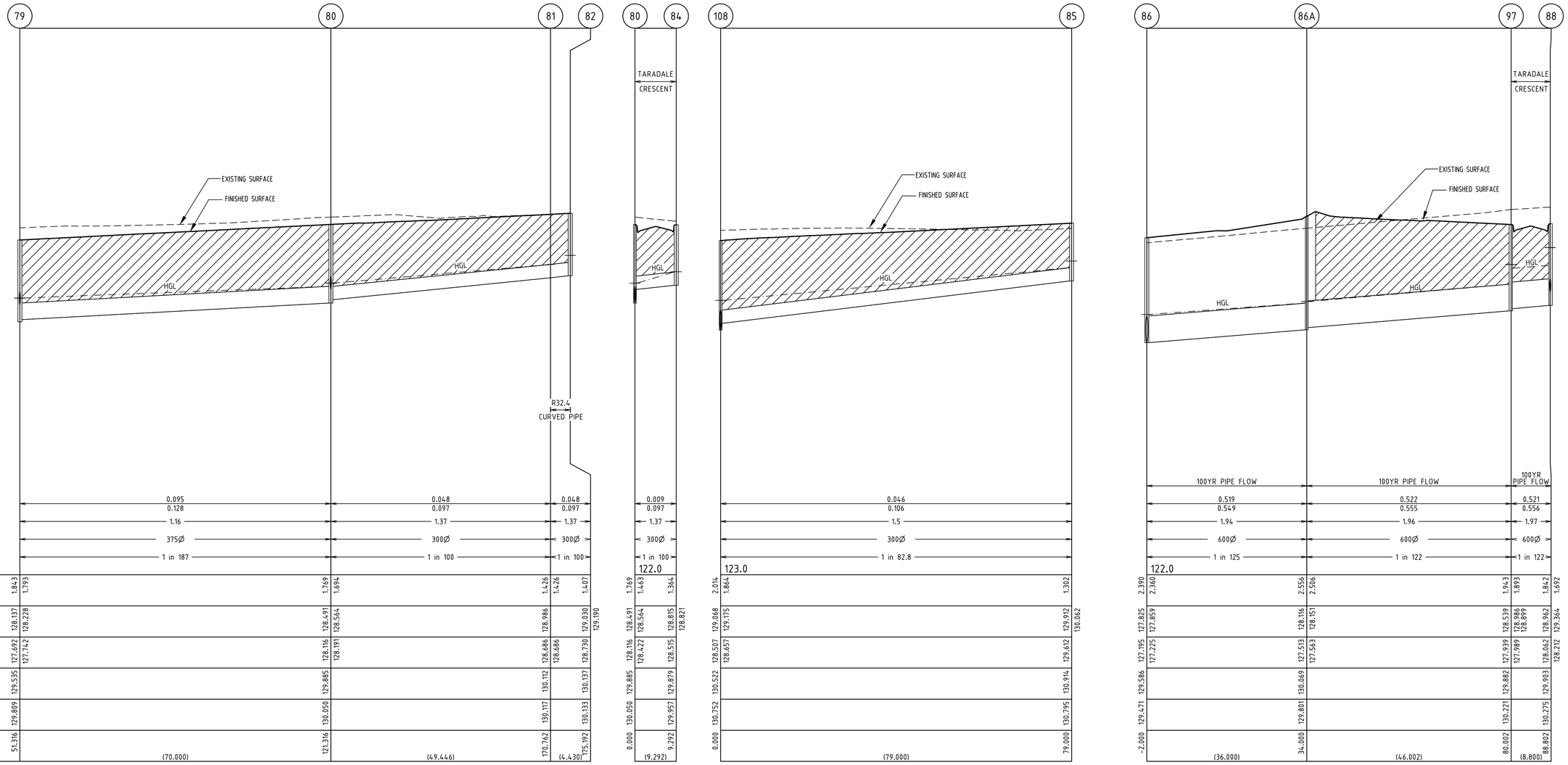
MELWAY REF.	354 C12
SURVEY	BPD
DESIGN	JGB
DRAWN	IMW
CHECKED	TBA

ASPIRE ESTATE
STAGE 22
DRAINAGE LONGITUDINAL SECTIONS-4

SCALE AS SHOWN | DATUM AHD | DATE APRIL '18

MUNICIPALITY MELTON
REFERENCE 8226 E/22
SHEET 32 OF 43 | B

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



DRAINAGE LONGITUDINAL SECTIONS

SCALE - HORIZONTAL 1:500
VERTICAL 1:50

LEGEND:

— — — EXISTING SURFACE PROFILE

——— FINISHED SURFACE PROFILE

—HGL— HYDRAULIC GRADE LINE

ALL PIPES TO BE CLASS 2 UNLESS SHOWN OTHERWISE
RRJ DENOTES RUBBER RING JOINTED
FJ DENOTES FLUSH JOINTED WITH EXTERNAL SEALING BANDS

INDICATES CRUSHED ROCK BACKFILL

1:50 VER 1 0.5 00 1 2 4
1:500 HOR 10 5 00 10 20 40

AMENDMENTS			
D	22.07.19	SHEET NUMBERS AMENDED	
C	05.02.19	LINE 86-88 REVISED	
B	06.12.18	LINE 86-88 REVISED	
A	15.10.18	CONSTRUCTION ISSUE	
VER.	DATE	REMARKS	

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

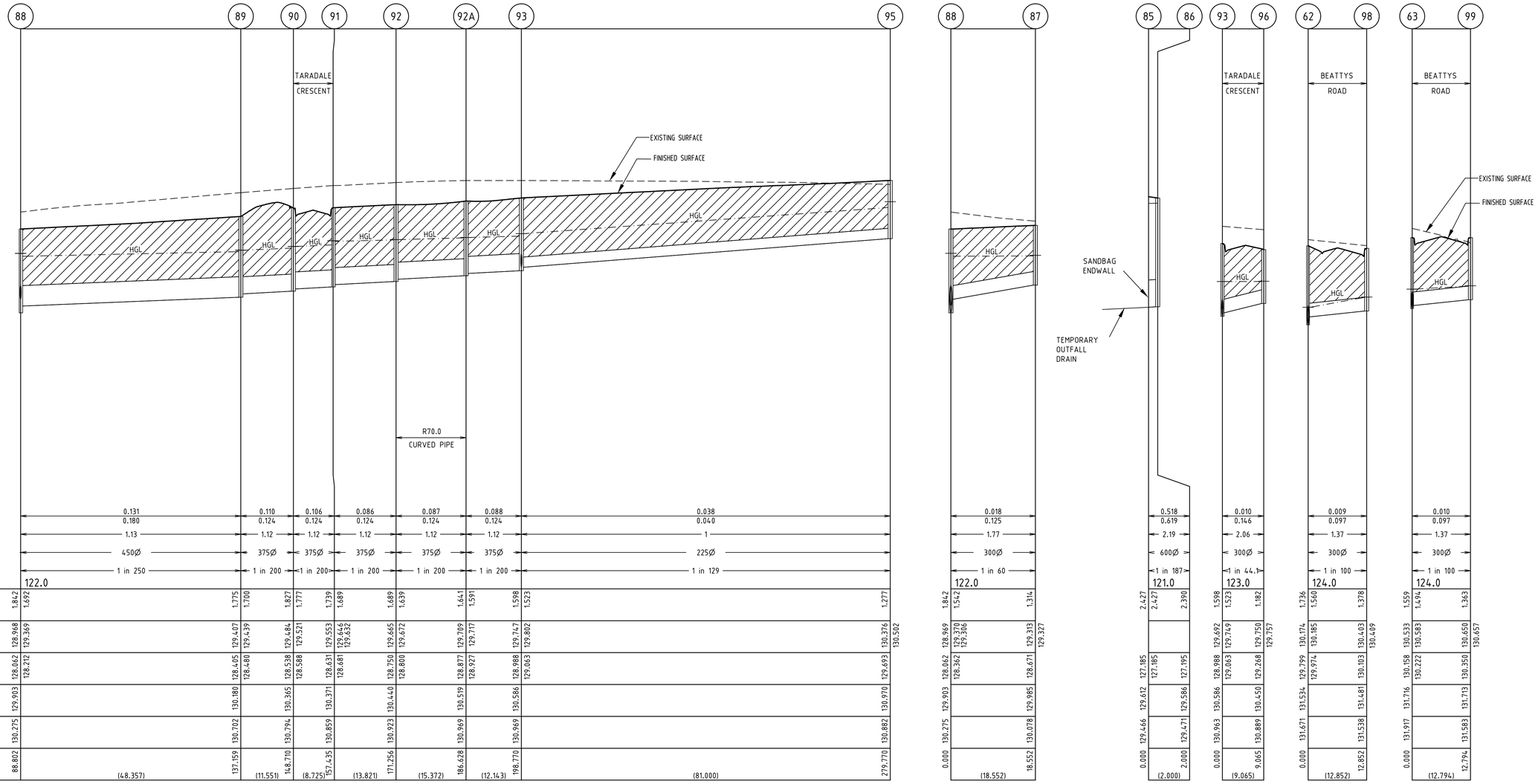
ASPIRE ESTATE
STAGE 22
DRAINAGE LONGITUDINAL SECTIONS-5

MUNICIPALITY MELTON
REFERENCE 8226 E/22

SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 33 OF 43 | D

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



DRAINAGE LONGITUDINAL SECTIONS

SCALE - HORIZONTAL 1:500
VERTICAL 1:50

LEGEND:

- — — — EXISTING SURFACE PROFILE
- ——— FINISHED SURFACE PROFILE
- —HGL— HYDRAULIC GRADE LINE

ALL PIPES TO BE CLASS 2 UNLESS SHOWN OTHERWISE
RRJ DENOTES RUBBER RING JOINTED
FJ DENOTES FLUSH JOINTED WITH EXTERNAL SEALING BANDS

INDICATES CRUSHED ROCK BACKFILL

1:50 VER 1 0.5 00 1 2 4
1:500 HOR 10 5 00 10 20 40

AMENDMENTS			
D	2.07.19	SHEET NUMBERS AMENDED	
C	05.02.19	DRAINAGE REVISED	
B	06.12.18	DRAINAGE REVISED	
A	15.10.18	CONSTRUCTION ISSUE	
VER.	DATE	REMARKS	

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

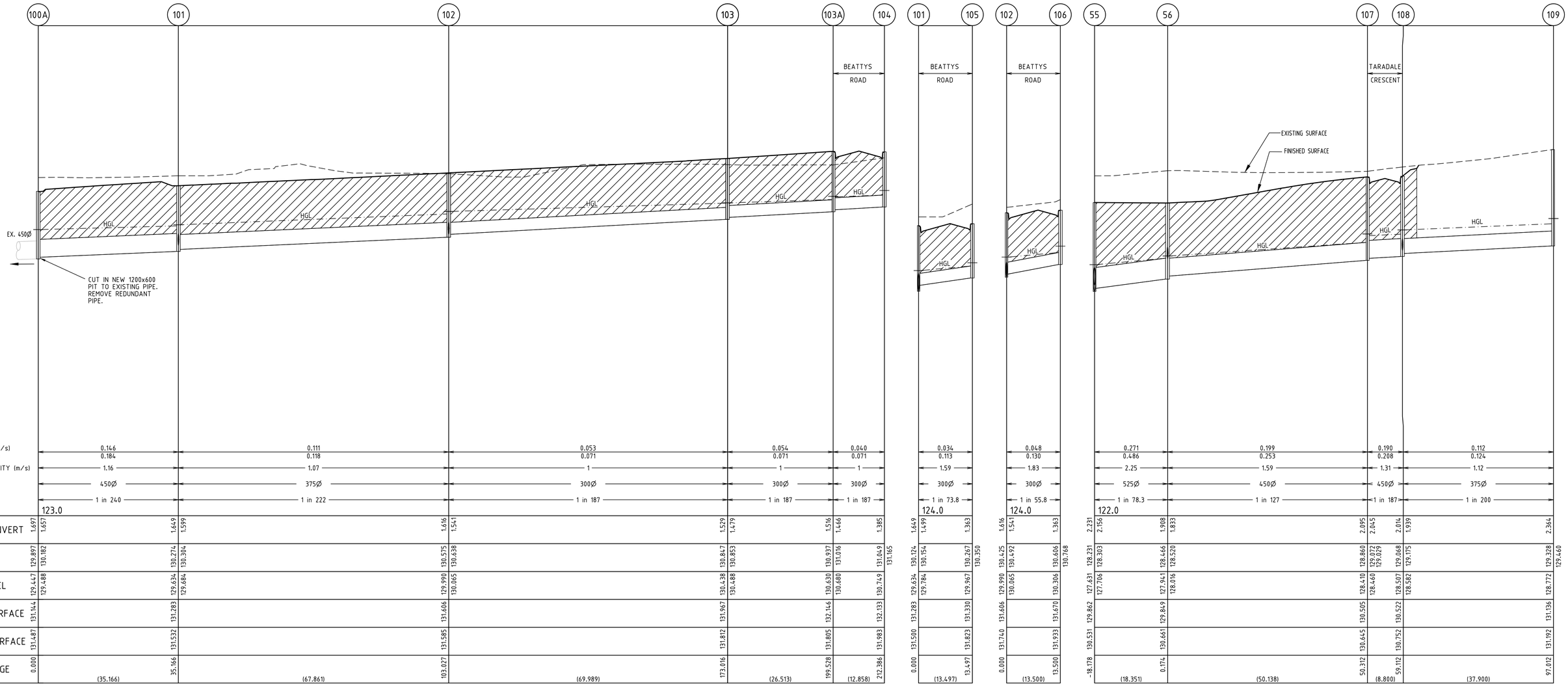
ASPIRE ESTATE
STAGE 22
DRAINAGE LONGITUDINAL SECTIONS-6

MUNICIPALITY MELTON
REFERENCE 8226 E/22

SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 34 OF 43 | D

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



DRAINAGE LONGITUDINAL SECTIONS

SCALE - HORIZONTAL 1:500
VERTICAL 1:50

LEGEND:

— — — EXISTING SURFACE PROFILE

——— FINISHED SURFACE PROFILE

—HGL— HYDRAULIC GRADE LINE

ALL PIPES TO BE CLASS 2 UNLESS SHOWN OTHERWISE
RRJ DENOTES RUBBER RING JOINTED
FJ DENOTES FLUSH JOINTED WITH EXTERNAL SEALING BANDS

INDICATES CRUSHED ROCK BACKFILL

1:50 VER 1 0.5 00 1 2 4
1:500 HOR 10 5 00 10 20 40

AMENDMENTS			
C	22.07.19	SHEET NUMBERS AMENDED	
B	02.05.19	DRAINAGE AMENDED	
A	15.10.18	CONSTRUCTION ISSUE	
VER.	DATE	REMARKS	

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

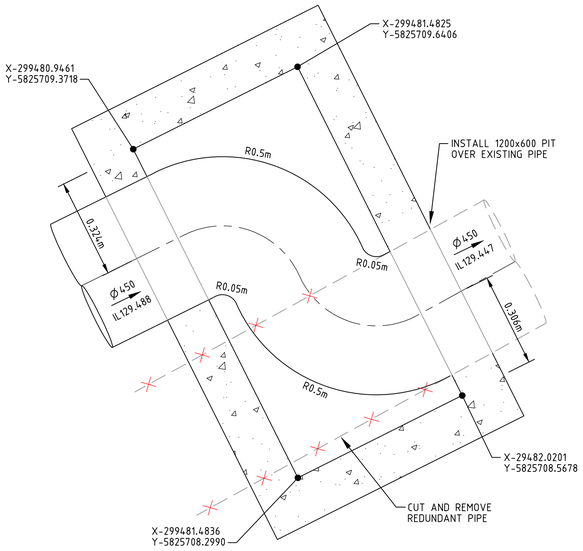
MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE
STAGE 22
DRAINAGE LONGITUDINAL SECTIONS-7

MUNICIPALITY MELTON
REFERENCE 8226 E/22

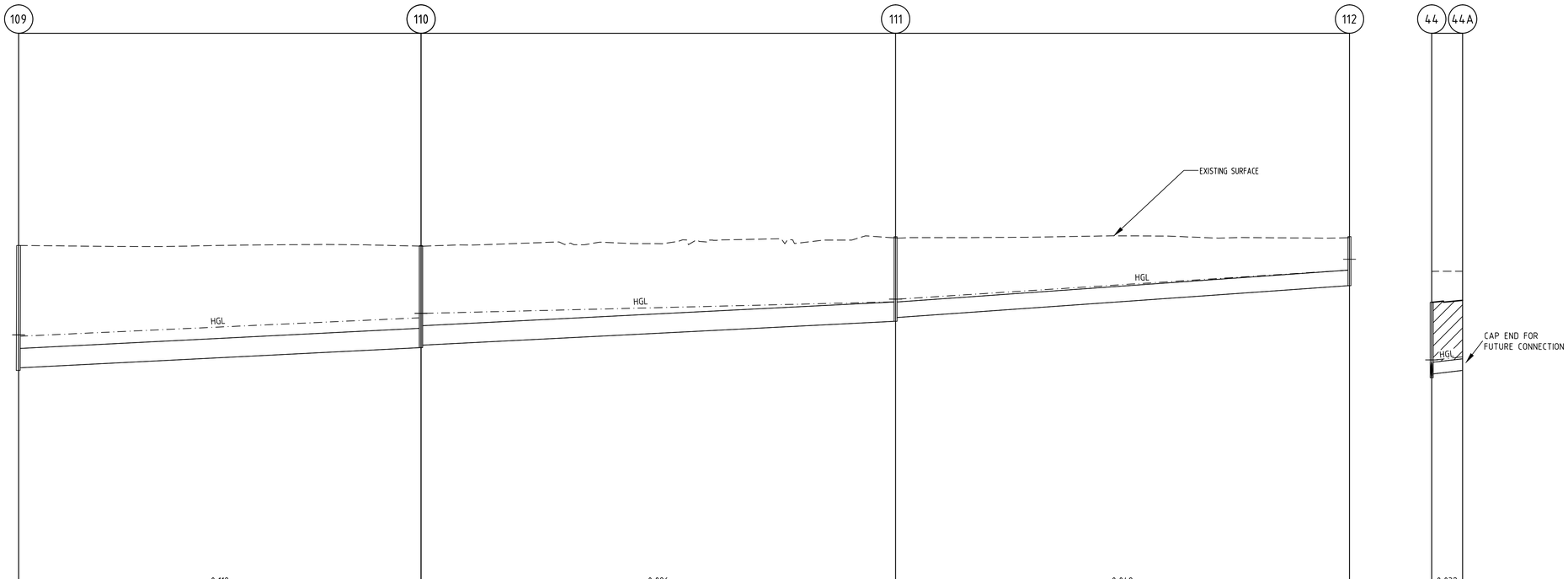
SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 35 OF 43 | C

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



DRAINAGE PIT '100A'
BASE ARRANGEMENT

SCALE 1:100 @ A1



	109		110		111		112		44	44A
DESIGN FLOW (m3/s)		0.118		0.086		0.049				0.032
CAPACITY (m3/s)		0.124		0.124		0.081				0.048
AT GRADE VELOCITY (m/s)		1.12		1.12		1.15				1.22
PIPE SIZE (mm)		375Ø		375Ø		300Ø				225Ø
PIPE GRADE		1 in 200		1 in 200		1 in 143				1 in 85.9
DATUM	123.0									123.0
DEPTH TO INVERT	2.364	2.314	1.976	1.926	1.639	1.564	0.950		1.461	1.386 1.355
H.G.L	129.328	129.460 129.435	129.790	129.876	130.099	130.152	130.773	130.926	128.936	128.974 128.973 129.035
INVERT LEVEL	128.772	128.822	129.212	129.262	129.722	129.797	130.413		128.630	128.705 128.775
FINISHED SURFACE	131.192		131.178		131.337		131.342		130.091	130.130
EXISTING SURFACE	131.192		131.178		131.337		131.342		130.690	130.692
PIPE CHAINAGE (Reach Length)	97.012	(78.000)	175.012	(92.000)	267.012	(88.000)	355.012		0.000	555.298 (6.000)

DRAINAGE LONGITUDINAL SECTIONS

SCALE - HORIZONTAL 1:500
VERTICAL 1:50

LEGEND:

- – – – EXISTING SURFACE PROFILE
- ——— FINISHED SURFACE PROFILE
- —HGL— HYDRAULIC GRADE LINE

ALL PIPES TO BE CLASS 2 UNLESS SHOWN OTHERWISE
RRJ DENOTES RUBBER RING JOINTED
FJ DENOTES FLUSH JOINTED WITH EXTERNAL SEALING BANDS

INDICATES CRUSHED ROCK BACKFILL

1:50 VER 1 0.5 00 1 2 4
1:500 HOR 10 5 00 10 20 40

AMENDMENTS			
C	22.07.19	SHEET NUMBERS AMENDED	
B	02.05.19	PIT DETAIL ADDED	
A	15.10.18	CONSTRUCTION ISSUE	
VER.	DATE	REMARKS	

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE
STAGE 22
DRAINAGE LONGITUDINAL SECTIONS-8

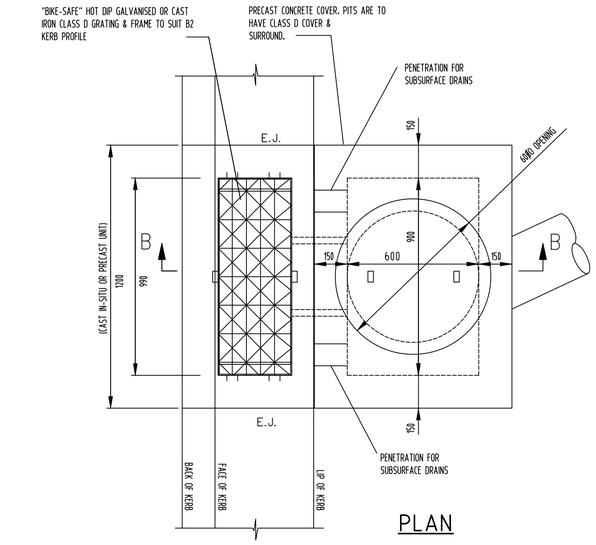
MUNICIPALITY: MELTON
REFERENCE: 8226 E/22

SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 36 OF 43 | C

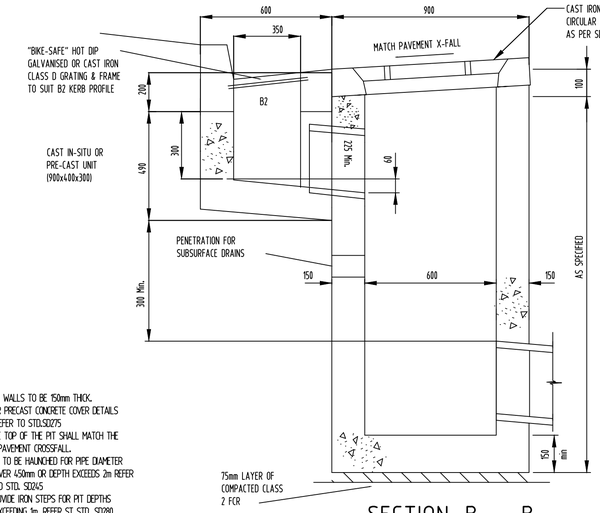
PIT SCHEDULE

PIT	PIT DESCRIPTION	WIDTH	LENGTH	INLET		OUTLET		TOP	DEPTH	REMARKS
No.				DIA	INVERT	DIA	INVERT	PIT RL	INVERT	
33	END PIPE			450	127.218			129.28	2.062	Refer Temporary Outlet Details
35	JUNCTION PIT	900	900	450	127.581	450	127.531	129.636	2.104	Refer Drawing - EDCM 605
										Haunched at top 600*900
36	SIDE ENTRY PIT	900	900	375	127.845	450	127.77	129.886	2.116	Refer Drawing - EDCM 601
				375	127.845			129.886	2.116	Haunched at top 600*900
37	SIDE ENTRY PIT	600	900	375	128.387	375	128.337	130.335	1.998	Refer Drawing - EDCM 601
38	SIDE ENTRY PIT	600	900	300	129.17	375	129.095	130.855	1.76	Refer Drawing - EDCM 601
39	DOUBLE SIDE ENTRY PIT	600	900	300	129.88	300	129.551	131.245	1.694	Refer Drawing - EDCM 602
40	DOUBLE SIDE ENTRY PIT	600	900			300	129.944	131.304	1.36	Refer Drawing - EDCM 602
41	DOUBLE SIDE ENTRY PIT	750	900	375	128.259	375	127.94	129.753	1.813	Refer Drawing - EDCM 602. Refer Pit Under Road Detail. Install Heavy Duty Lid
42	DOUBLE SIDE ENTRY PIT	600	900	375	128.349	375	128.299	129.743	1.444	Refer Drawing - EDCM 602. Refer Pit Under Road Detail. Install Heavy Duty Lid
43	JUNCTION PIT	600	900	300	128.512	375	128.437	129.929	1.492	Refer Drawing - EDCM 605
44	JUNCTION PIT	600	900	225	128.705	300	128.63	130.091	1.461	Refer Drawing - EDCM 605
44A	END PIPE					225	128.775	130.13	1.355	E 298973.7255, N 5825373.4442. Cap End For Future Connection
45	JUNCTION PIT	600	900			225	129.6	131.029	1.429	Refer Drawing - EDCM 605
46	END PIPE			750	125.844			128.31	2.466	Refer Temporary Outlet Details
47	JUNCTION PIT	1200	900	750	125.965	750	125.915	128.21	2.295	Refer Drawing - EDCM 605 (Pit cover to be converted in future stages)
										Haunched at top 600*900
										E 299097.9357, N 5825251.9430 / E 299098.6813, N 5825252.4470
48	JUNCTION PIT	1200	900	750	126.083	750	126.033	128.21	2.177	Refer Drawing - EDCM 605 (Pit cover to be converted in future stages)
				450	126.183			128.21	2.177	Haunched at top 600*900
										E 299094.6919, N 5825260.8827 / E 299095.5891, N 5825260.8119
48A	JUNCTION PIT	900	900	450	126.406	450	126.356	128.2	1.844	Refer Drawing - EDCM 605 (Pit cover to be converted in future stages)
										Haunched at top 600*900
										E 299101.7454, N 5825262.7575 / E 299102.5508, N 5825263.1593
49	JUNCTION PIT	1200	900	675	126.272	750	126.197	128.55	2.354	Refer Drawing - EDCM 605 (Pit cover to be converted in future stages)
										Haunched at top 600*900
										E 299087.2420, N 5825274.8016 / E 299086.9019, N 5825275.6349
51	JUNCTION PIT	1200	900	675	126.669	675	126.619	128.94	2.321	Refer Drawing - EDCM 605 (Pit cover to be converted in future stages)
										Haunched at top 600*900
										E 299068.0452, N 5825321.0917 / E 299068.6844, N 5825321.7253
52	JUNCTION PIT	1200	900	600	127.002	675	126.927	128.97	2.043	Refer Drawing - EDCM 605 (Pit cover to be converted in future stages)
				525	127.002			128.97	2.043	Haunched at top 600*900
										E 299063.8874, N 825329.4004 / E 299064.7764, N 5825329.5404
52A	JUNCTION PIT	900	900	450	127.107	525	127.032	128.968	1.936	Refer Drawing - EDCM 605 (Pit cover to be converted in future stages)
										Haunched at top 600*900
										E 299070.7562, N 5825332.2364 / E 299071.5609, N 5825332.6395
53	JUNCTION PIT	900	900	600	127.15	600	127.1	129.291	2.191	Refer Drawing - EDCM 605 (Pit cover to be converted in future stages)
										Haunched at top 600*900
										E 299056.2492, N 5825338.1989 / E 299056.6525, N 5825337.3943
54	JUNCTION PIT	900	900	600	127.515	600	127.465	129.682	2.216	Refer Drawing - EDCM 605
										Haunched at top 600*900
55	SIDE ENTRY PIT	1200	900	450	127.781	600	127.631	129.862	2.231	Refer Drawing - EDCM 601
				525	127.706			129.862	2.231	Haunched at top 600*900
56	DOUBLE SIDE ENTRY PIT	600	900	450	128.016	525	127.941	129.849	1.908	Refer Drawing - EDCM 602
				300	128.446			129.849	1.908	Haunched at top 600*900
57	DOUBLE SIDE ENTRY PIT	600	900			300	128.525	129.717	1.192	Refer Drawing - EDCM 602. Refer Pit Under Road Detail. Intall Heavy Duty Lid
58	SIDE ENTRY PIT	600	900	450	128.249	450	128.199	130.274	2.074	Refer Drawing - EDCM 601
										Haunched at top 600*900
59	JUNCTION PIT	750	900	450	128.701	450	128.651	130.915	2.264	Refer Drawing - EDCM 605
										Haunched at top 600*900
60	DOUBLE SIDE ENTRY PIT	600	900	450	128.985	450	128.935	131.257	2.322	Refer Drawing - EDCM 602
										Haunched at top 600*900
61	DOUBLE SIDE ENTRY PIT	600	900	375	129.509	450	129.078	131.269	2.191	Refer Drawing - EDCM 602
				300	129.128					Haunched at top 600*900
62	JUNCTION PIT	600	900	375	129.849	375	129.799	131.534	1.736	Refer Drawing - EDCM 605
				300	129.974			131.534	1.736	
62A	SIDE ENTRY PIT	600	900	375	129.973	375	129.923	131.57	1.647	Refer Drawing - EDCM 601

PIT	PIT DESCRIPTION	WIDTH	LENGTH	INLET		OUTLET		TOP	DEPTH	REMARKS
No.				DIA	INVERT	DIA	INVERT	PIT RL	INVERT	
63	SIDE ENTRY PIT	600	900	300	130.233	375	130.158	131.716	1.559	Refer Drawing - EDCM 601
				300	130.222			131.716	1.559	
64	SIDE ENTRY PIT	600	900	300	130.56	300	130.51	131.973	1.463	Refer Drawing - EDCM 601
65	SIDE ENTRY PIT	600	900			300	130.673	131.861	1.188	Refer Drawing - EDCM 601. Refer Pit Under Road Detail. Install Heavy Duty Lid
68	JUNCTION PIT	600	900	300	126.91	450	126.76	128.637	1.877	Refer Drawing - EDCM 605. Install Heavy Duty Lid
										E 299136.4946, N 5825280.1607 / E 299137.2924, N 5825280.5773
69	JUNCTION PIT	600	900	300	127.007	300	126.957	128.835	1.878	Refer Drawing - EDCM 605 (Pit cover to be converted in future stages)
										E 299134.4913, N 5825284.0628 / E 299135.2891, N 825284.4793
70	JUNCTION PIT	600	900	300	127.467	300	127.417	129.226	1.809	Refer Drawing - EDCM 605
										E 299121.1003, N 5825311.2007 / E 299121.5169, N 5825310.4029
71	JUNCTION PIT	600	900	300	128.247	300	128.197	129.459	1.262	Refer Drawing - EDCM 605
72	JUNCTION PIT	600	900	225	128.731	300	128.656	129.72	1.063	Refer Drawing - EDCM 605
73	JUNCTION PIT	600	900			225	128.874	129.75	0.876	Refer Drawing - EDCM 605
74	JUNCTION PIT	600	900	300	127.41	450	127.26	129.183	1.923	Refer Drawing - EDCM 605
				375	127.335			129.183	1.923	Haunched at top 600*900
										E 299087.8779, N 5825340.8127 / E 299088.6826, N 5825341.2157
75	JUNCTION PIT	600	900	300	127.957	300	127.907	130.131	2.224	Refer Drawing - EDCM 605
										E 299070.9121, N 5825374.6948 / E 299071.7098, N 5825375.1114
76	JUNCTION PIT	600	900	300	128.74	300	128.69	130.307	1.617	Refer Drawing - EDCM 605
77	JUNCTION PIT	600	900	225	129.21	300	129.135	130.475	1.34	Refer Drawing - EDCM 605
78	JUNCTION PIT	600	900			225	129.65	130.539	0.889	Refer Drawing - EDCM 605
79	JUNCTION PIT	600	900	375	127.742	375	127.692	129.535	1.843	Refer Drawing - EDCM 601 (Pit cover to be converted in future stages)
										E 299133.7594, N 5825363.7947 / E 299134.5641, N 5825364.1978
80	SIDE ENTRY PIT	600	900	300	128.191	375	128.116	129.885	1.769	Refer Drawing - EDCM 601
				300	128.422			129.885	1.769	
81	TANGENT POINT			300	128.686	300	128.686	130.112	1.426	
82	JUNCTION PIT	600	900			300	128.73	130.137	1.407	Refer Drawing - EDCM 605
84	SIDE ENTRY PIT	600	900			300	128.515	129.879	1.364	Refer Drawing - EDCM 601
85	TEMPORARY END WALL					300	127.185	129.612	2.427	E 299283.931, N 5825365.304
86	TEMPORARY JUNCTION PIT	900	900	600	127.225	600	127.195	129.586	2.39	Refer Drawing - EDCM 605 . Haunched at top 600*900
										E 299285.881, N 5825366.920 / E 299285.760, N 5825366.028
86A	JUNCTION PIT	900	900	600	127.563	600	127.513	130.069	2.556	Refer Drawing - EDCM 605 . Haunched at top 600*900
										E 299290.738, N 5825402.5908 / E 299290.616, N 5825401.700
87	JUNCTION PIT	600	900			300	128.671	129.985	1.314	Refer Drawing - EDCM 602
88	DOUBLE SIDE ENTRY PIT	600	900	450	128.212	600	128.062	129.903	1.842	Refer Drawing - EDCM 602
				300	128.362					Haunched at top 600*900
89	JUNCTION PIT	900	900	375	128.48	450	128.405	130.18	1.775	Refer Drawing - EDCM 605
										Haunched at top 600*900
90	SIDE ENTRY PIT	600	900	375	128.588	375	128.538	130.365	1.827	Refer Drawing - EDCM 601
91	SIDE ENTRY PIT	600	900	375	128.681	375	128.631	130.371	1.739	Refer Drawing - EDCM 601
92	JUNCTION PIT	600	900	375	128.8	375	128.75	130.44	1.689	Refer Drawing - EDCM 605
92A	JUNCTION PIT	600	900	375	128.927	375	128.877	130.519	1.641	Refer Drawing - EDCM 605
93	SIDE ENTRY PIT	600	900	225	129.063	375	128.988	130.586	1.598	Refer Drawing - EDCM 601
				300	129.063					
95	JUNCTION PIT	600	900			225	129.693	130.97	1.277	Refer Drawing - EDCM 605
96	SIDE ENTRY PIT	600	900			300	129.268	130.45	1.182	Refer Drawing - EDCM 601
97	DOUBLE SIDE ENTRY PIT	900	900	600	127.989	600	127.939	129.882	1.943	Refer Drawing - EDCM 602. Haunched at top 600*900
										Refer Pit Under Road Detail. Install Heavy Duty Lid
98	SIDE ENTRY PIT	600	900			300	130.103	131.481	1.378	Refer Drawing - EDCM 601
99	SIDE ENTRY PIT	600	900			300	130.35	131.713	1.363	Refer Drawing - EDCM 601
100A	JUNCTION PIT	600	1200	450	129.488	450	129.447	131.144	1.697	Refer Drawing - EDCM 605
										Haunched at top 600*900
101	SIDE ENTRY PIT	600	900	375	129.684	450	129.634	131.283	1.649	Refer Drawing - EDCM 601
				300	129.784			131.283	1.649	Haunched at top 600*900
102	SIDE ENTRY PIT	600	900	300	130.065	375	129.99	131.606	1.616	Refer Drawing - EDCM 601
				300	130.065			131.606	1.616	
103	JUNCTION PIT	600	900	300	130.488	300	130.438	131.967	1.529	Refer Drawing - EDCM 605
103A	SIDE ENTRY PIT	600	900	300	130.68	300	130.63	132.146	1.516	Refer Drawing - EDCM 601
104	SIDE ENTRY PIT	600	900			300	130.749	132.133	1.385	Refer Drawing - EDCM 601
105	SIDE ENTRY PIT	600	900			300	129.967	131.33	1.363	Refer Drawing - EDCM 601
106	SIDE ENTRY PIT	600	900			300	130.306	131.67	1.363	Refer Drawing - EDCM 601
107	SIDE ENTRY PIT	600	900	450	128.46	450	128.41	130.505	2.095	Refer Drawing - EDCM 601
										Haunched at top 600*900
108	SIDE ENTRY PIT	600	900	375	128.582	450	128.507	130.522	2.014	Refer Drawing - EDCM 601
				300	128.657			130.522	2.014	Haunched at top 600*900
109	JUNCTION PIT	600	900	375	128.822	375	128.772	131.136	2.364	Refer Drawing - EDCM 605
110	JUNCTION PIT	600	900	375	129.262	375	129.212	131.188	1.976	Refer Drawing - EDCM 605
111	JUNCTION PIT	600	900	300	129.797	375	129.722	131.361	1.639	Refer Drawing - EDCM 605
112	JUNCTION PIT	600	900			300	130.413	131.363	0.95	Refer Drawing - EDCM 605



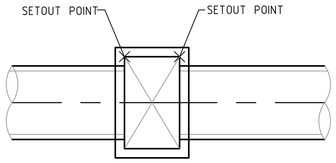
PLAN



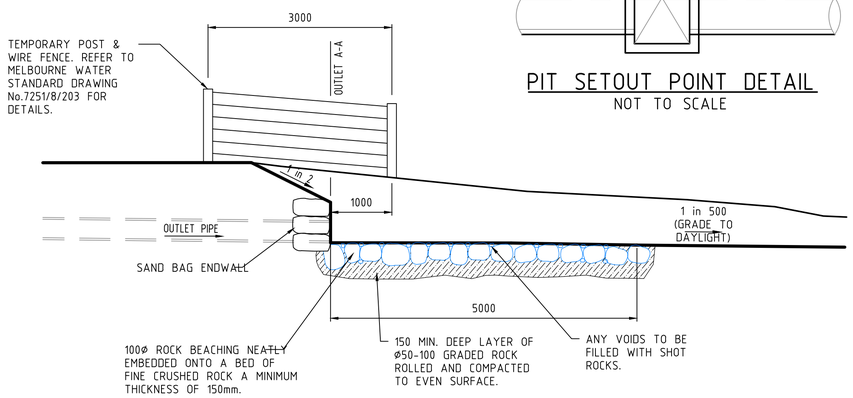
NOTES:

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 STRENGTH 32mpa 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.
9. PROVIDE SL92 REINFORCEMENT FOR PITS IF DEPTH IS GREATER THAN 1200mm.

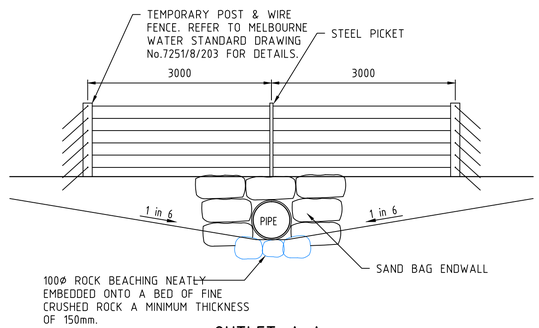
SECTION B - B
SIDE ENTRY PIT GRATED UNDER THE ROAD DETAIL
NOT TO SCALE



PIT SETOUT POINT DETAIL
NOT TO SCALE



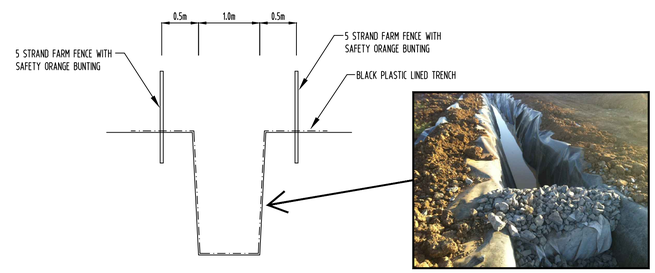
OUTLET



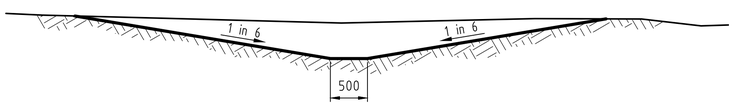
OUTLET A-A

TEMPORARY OUTLET WITH SANBAG ENDWALL

CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



TEMPORARY OUTLET TRENCH
NOT TO SCALE



TEMPORARY OUTLET CHANNEL SECTION

1:50 VER 1 0.5 00 1 2 4
1:500 HOR 10 5 00 10 20 40

AMENDMENTS			
G	15.03.19	PIT SCHEDULE AMENDED	
F	13.02.19	PIT SCHEDULE AMENDED	
E	05.02.19	PIT SCHEDULE AMENDED	
J	22.07.19	SHEET NUMBERS AMENDED	
I	23.05.19	DRAINAGE TRENCH DETAIL ADDED	
H	02.05.19	PIT SCHEDULE AMENDED	
VER.	DATE	REMARKS	

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE
STAGE 22
DRAINAGE PIT SCHEDULE

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22

SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 37 OF 43 | J

NOTES

1. CONSTRUCTION PLANS MUST BE ACCOMPANIED BY THE APPROVED SPECIFICATION. NO WORK IS TO COMMENCE WITHOUT EVIDENCE OF POSSESSION OF EACH.

2. ALL WORKS TO BE CARRIED OUT TO STANDARD DRAWINGS AND SPECIFICATION AS APPROVED BY CITY OF MELTON AND TO THE SATISFACTION OF THE ENGINEER AND THE MUNICIPAL ENGINEER. IN CASE OF A DISPUTE THE SPECIFICATION MUST TAKE PRECEDENCE.

3. FOR SPECIFICATION REFER SPECIFICATION STAGE 1. TAYLORS HILL ESTATE (INCORPORATING UPDATED SECTION 1A)

4. COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.

5. PROPERTY INLETS ARE TO BE PLACED 1.0m FROM THE LOW CORNER OF LOT UNLESS OTHERWISE SHOWN. MINIMUM COVER TO BE 400mm. REFER VPA STD DWGS EDCM701, EDCM702 & EDCM703.

6. LOTS DENOTED THUS 75H ARE TO BE PROVIDED WITH A 100mm DIA. HOUSE DRAIN PLACED 5.5m FROM LOW CORNER OF LOT UNLESS OTHERWISE SHOWN. REFER VPA STD DWGS EDCM701 & EDCM703.

7. AGRICULTURAL PIPE DRAINS, AS PER VPA STD DWG EDCM202, TO BE PLACED BEHIND ALL KERB AND CHANNEL AND BUFFER PITCHERS AND WHERE DIRECTED BY THE ENGINEER.

8. DRAINAGE AND PITS TO BE SET OUT FROM OFFSETS SHOWN RATHER THAN FROM PIPE CHAINAGES. CENTRELINE OF PITS AT TP's TO BE OFFSET 1.00 METRE.

9. ALL 150mm TO 750mm DIA. TO BE R.C.(RRJ) AND 825mm DIA. AND GREATER TO BE R.C.(IJ). PIPES LAYED ON A CURVE TO BE RRJ.
ALL CONCRETE PIPES TO BE CLASS 2 UNLESS OTHERWISE SPECIFIED.

10. WHERE DRAINAGE PIPES ARE LOCATED WITHIN NATURE STRIPS, THE TRENCH SHALL BE BACKFILLED WITH COMPACTED CLASS 3 F.C.R. UPTO A LEVEL, WHERE THE 45Deg. INFLUENCE LINE FROM THE B.O.K. INTERSECTS WITH THE NEAREST TRENCH SIDE. PROVIDE CRUSHED ROCK BACKFILL WHERE DRAINAGE CROSSES BELOW FOOTPATHS.

11. PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO A RELATIVE COMPACTION OF 97% OF THE MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING :
   i) BENEATH THE ROAD OR DRIVEWAY PAVEMENT TO THE UNDERSIDE OF THE PAVEMENT.
   ii) ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM THE NEAR LOWER EDGE.
   (TRENCHES TO BE BACKFILLED IN LAYERS NOT EXCEEDING 200mm LOOSE.)

12. PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004, INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED. IN PARTICULAR, THE REQUIRED NOTIFICATIONS MUST BE CONVEYED TO THE VICTORIAN WORKCOVER AUTHORITY - HEALTH & SAFETY DIVISION WITH RESPECT TO TRENCHING OPERATIONS. DETAILS OF THE CONTRACTORS OCCUPATIONAL HEALTH & SAFETY PROCEDURES MUST BE LODGED WITH THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.

13. BATTERS SHALL BE 1 IN 6 FOR FILL AND 1 IN 6 FOR CUT UNLESS OTHERWISE SHOWN.

14. ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL RUBBISH AND SPOIL FROM SITE.

15. LOTS TO BE GRADED AND LEFT CLEAN TO THE SATISFACTION OF THE ENGINEER, ALL LOTS TO BE 1 IN 150 MINIMUM SLOPE.

16. ALL RESERVE AREAS ARE TO BE SMOOTHED, GRADED, TOPSOILED WHERE REQUIRED WITH A 100mm COMPACTED LAYER OF TOPSOIL AND SEEDED ,USING AN APPROVED SEED MIX AND METHOD OF SOWING, SUCH THAT THE SURFACE IS SELF-DRAINING, STONE FREE AND ABLE TO BE MAINTAINED BY CONVENTIONAL MOWING EQUIPMENT.

17. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON THE PLANS. FILLING TO BE CLEAN CLAY COMPACTED TO A DRY DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1289.5.2.1-1993. TESTING TO COMPLY WITH AS3798-1996 APPENDIX B, LEVEL 1.

18. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION No. 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERVISING ENGINEER.

19. EARTH FILL IS TO BE COMPACTED TO A RELATIVE COMPACTION COMPARED TO A STANDARD COMPACTION TEST AS SPECIFIED BY VICROADS CORPORATION OF:
   -100% FOR ALL FILL MATERIAL AND MATERIAL UNDER FILL THAT IS LESS THAN 450mm FROM THE SURFACE.
   -95% FOR ALL FILL NOT COVERED AS ABOVE.

20. NATURESTRIP AND AREAS OF CUT ARE TO BE TOPSOILED AND GRASSED TO THE SATISFACTION OF THE ENGINEER. MINIMUM DEPTH TO BE 100mm.

21. ALL NATIVE TREES AND SHRUBS TO BE RETAINED UNLESS ROAD CONSTRUCTION NECESSITATES THEIR REMOVAL OR REMOVAL IS DIRECTED BY THE ENGINEER. NO EXCAVATION WITHIN 5m OF ANY EXISTING NATIVE TREE WITHOUT APPROVAL OF THE ENGINEER.

22. WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES THESE SERVICES ARE TO BE LOCATED AND THE VARIOUS AUTHORITIES NOTIFIED, BY THE CONTRACTOR, PRIOR TO THE COMMENCEMENT OF WORKS.

23. SERVICES CONDUITS ARE TO BE PROVIDED AT 90deg TO KERB AND CHANNEL UNLESS OTHERWISE SHOWN AND THE LOCATION IS TO BE MARKED ON THE FACE OF KERB. ALL SERVICE CONDUITS TO BE MINIMUM STANDARD OF CLASS 6, WITH A MINIMUM COVER OF 75mm ABOVE TOP OF CONDUIT TO SUB GRADE LEVEL, AND A SIZE SUITABLE TO SERVICE BUT NOT LESS THAN 50mm.

24. WATER AND GAS CONDUITS TO BE CONSTRUCTED ACROSS NATURE STRIPS AFTER ELECTRICAL CABLE WORK IS COMPLETED.

25. THE WATER CONDUIT OFFSET FROM THE LOT BOUNDARY IS GIVEN ON THE WATER RETICULATION PLAN. THE CONTRACTOR MUST CONSTRUCT CONDUITS TO ACCORD WITH THE GIVEN OFFSET AND ENSURE THAT THE CONCRETER MARKS THE KERB AND FOOTPATH EXACTLY ABOVE THE CONDUIT.

26. TELSTRA/NBN Co TO BE NOTIFIED SEVEN (7) DAYS PRIOR TO CONCRETE WORKS BEING PLACED.

27. VEHICLE CROSSINGS TO BE OFFSET 0.75m FROM SIDE BOUNDARYS AND EASEMENTS UNLESS OTHERWISE SHOWN AND A MINIMUM OF 0.75m CLEAR OF PITS.
VEHICULAR CROSSINGS TO BE CONSTRUCTED IN ACCORDANCE WITH CITY OF MELTON STANDARD DRAWINGS MSC501 TO MSC506.

   VEHICULAR CROSSINGS TO BE CONSTRUCTED IN ACCORDANCE WITH GAA STANDARD DRAWINGS FIG010 & FIG011. ACROSS THE WINGED SECTION CONTRACTOR TO PROVIDE TWO 450mm LONG N12 DEFORMED BARS, CENTRALLY LOCATED, AT 300mm CENTRES.

28. ALL RESIDENTIAL FOOTPATHS SHALL BE 1.5m WIDE (MIN.) AND SHARED PEDESTRIAN/CYCLE PATHS SHALL BE 2.5m (MIN.). CONCRETE PATHS ARE TO BE 125mm THICK REINFORCED WITH SL72 MESH 50mm TOP COVER AND UNDERLAIN BY 50mm OF CLASS 3 CR. REFER VPA STD DWG EDCM401.

29. PRAM CROSSINGS ARE TO BE CONSTRUCTED WHERE FOOTPATHS CONNECT TO THE BACK OF KERB & CHANNEL. REFER TO COUNCIL STD DWG MCC403.

30. STREET SIGNS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL STANDARDS.

31. THE CONTRACTOR SHALL TO THE SATISFACTION OF THE ENGINEER AND THE MUNICIPAL ENGINEER, PROVIDE AND MAINTAIN INCLUSIVE OF STREET SIGNS, ALL NECESSARY REGULATORY SIGNS, WARNING SIGNS, LIGHTING, LINEMARKING AND BARRICADING TO COMPLY WITH THE REQUIREMENTS OF VICROADS SIGNING CODE OF PRACTICE.

32. THE CONTRACTOR IS TO SUPPLY AND ERECT ALL RELEVANT STREET SIGNAGE AND LINE MARKING AS PART OF THE CONTRACT IN ACCORDANCE WITH VICROADS SPECIFICATION SECTIONS 710 & 722 AND AS1742.1, .2 & .3

33. ALL ROADS TO BE CONSTRUCTED WITH B2 KERB & CHANNEL UNLESS OTHERWISE SHOWN. REFER VPA STD DWG EDCM301.

34. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A ROAD OPENING PERMIT FOR WORKS IN PREVIOUSLY CONSTRUCTED ROADWAYS.

35. IF BLASTING IS REQUIRED THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A PERMIT TO BLAST AND MAINTAINING SAFETY REGULATIONS ON SITE IN COMPLIANCE WITH THE EXPLOSIVES ACT 1960.
THE PERSON WHO IS USING THE EXPLOSIVES ON THE SITE IS TO BE A HOLDER OF A CURRENT PERMIT TO USE EXPLOSIVES ISSUED UNDER THE EXPLOSIVES ACT 1960.

36. PATTERNED CONCRETE TO BE DOWELLED INTO ADJACENT KERB AND CHANNEL AT 300mm CTS USING 450mm LONG S12 BARS. ONE END OF DOWEL TO BE SLEEVED OR GREASED.

37. THE RELATIVE COMPACTION OF CRUSHED ROCK SHALL BE COMPLETED AT THE OPTIMUM MOISTURE CONTENT TO A DRY DENSITY (BASED ON THE PERCENTAGE OF THE MAXIMUM DRY DENSITY OBTAINED IN THE MODIFIED COMPACTION TEST) AS BELOW.
   FOR DEPTH 0-100mm BELOW TOP OF BASE: RELATIVE COMPACTION = 100%
   FOR DEPTH 100-300mm BELOW TOP OF BASE: RELATIVE COMPACTION = 98%
   FOR DEPTH OVER 300mm BELOW TOP OF BASE: RELATIVE COMPACTION = 97%

38. THE SUBGRADE BELOW ALL PAVEMENTS SHALL BE COMPACTED TO A DRY DENSITY OF NOT LESS THAN 100% OF THE MAXIMUM DRY DENSITY OBTAINED IN THE STANDARD COMPACTION TEST IN AREAS OF CUT TO A DEPTH OF 150mm AND IN AREAS OF FILL TO A DEPTH OF 450mm.

39. CONCRETE TO HAVE A 28 DAY STRENGTH OF 25 Mpa.

40. ALL SPLAYS ARE 3.00m X 3.00m UNLESS OTHERWISE SHOWN.

41. ALL LEVELS ARE TO THE AUSTRALIAN HEIGHT DATUM (A.H.D.)

42. EXISTING DAM OR WATERCOURSES TO BE EXCAVATED TO A FIRM BASE AND BACKFILLED AS SPECIFIED. DEVELOPER'S CONSULTANT TO BE NOTIFIED WHEN THE DAM OR WATERCOURSES ARE EXCAVATED TO A FIRM BASE. NO FILLING IS TO BE PLACED PRIOR TO DAMS BEING INSPECTED AND LEVELS TAKEN. BACKFILLING IS TO BE CARRIED OUT TO THE SATISFACTION OF THE COUNCIL SUPERVISING ENGINEER.

43. THE CONTRACTOR MUST COMPLETE A LEVEL CHECK BETWEEN ALL TBM'S TO VERIFY LEVEL VALUES BEFORE COMMENCEMENT OF WORKS. ALL TBM,s AND CONTROL POINTS ARE TO BE MAINTAINED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION. SHOULD ANY MARKS BE DISTURBED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE DEVELOPER'S CONSULTANT TO ARRANGE RE-INSTATEMENT AT THE CONTRACTORS EXPENSE.

44. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR MUST SUBMIT A SMP TO THE DEVELOPER'S CONSULTANT FOR APPROVAL. THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION No.275 "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" AND MW SITE ENVIRONMENTAL MANAGEMENT POLICY 3.8.2. APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.

45. PROVIDE 1.8m HIGH PALING FENCE ALONG ANY COMMON BOUNDARY BETWEEN A LOT AND MUNICIPAL RESERVE. PALINGS TO BE ON THE RESERVE SIDE AND STAINED IN A DARK GREEN COLOUR ON THE SIDE FACING THE RESERVE TO THE SATISFACTION OF COUNCIL.

46. PROVIDE TEMPORARY SAFETY BARRIER FENCE (FARM FENCE AS PER MW STD. DWG. 7251/4/203) ALONG FULL EXTENT OF OUTFALL DRAINS. SAFETY FENCE TO REMAIN UNTIL PERMANENT UNDERGROUND DRAINAGE IS INSTALLED.

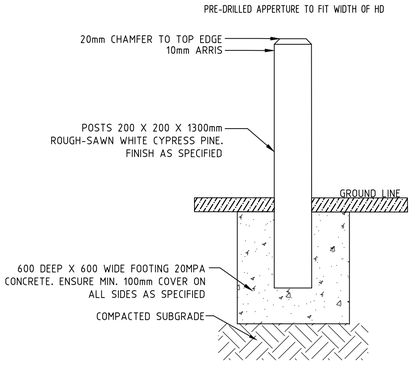
CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019

PIT SCHEDULE NOTES

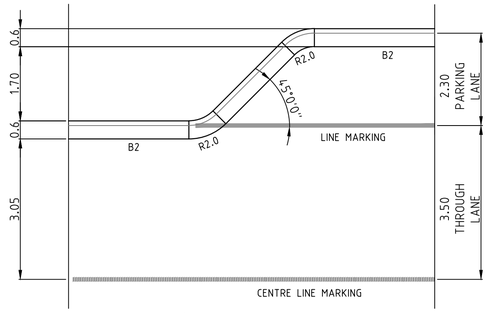
1. WHERE PIT HAUNCHING IS REQUIRED, INTERNAL PIT WALL DIMENSIONS MUST ALLOW 50mm CLEARANCE EACH SIDE OF PIPE OUTSIDE DIAMETER, INCLUDING ANGULAR PIPE ENTRY TO PIT. MINIMUM DIMENSIONS OF PIT BASE ARE TO BE AS PER SIZES SPECIFIED IN THE PIT SCHEDULE. TOP OF PIT OPENING FOR ALL HAUNCHED PITS TO BE 900mm x 600mm.

2. PIT BASE TO BE SHAPED TO MATCH LOWER HALF OF PIPE WHERE DROP ACROSS PIT IS LESS THAN 50mm.

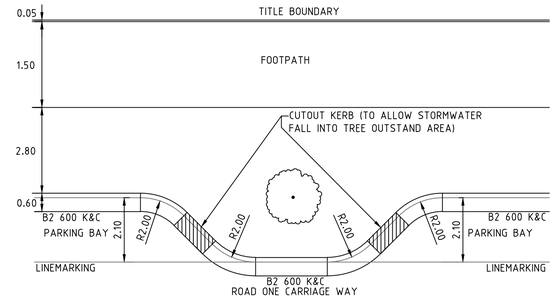
3. ALL PITS LOCATED WITHIN THE ROAD RESERVE (INDICATED THUS ×) SHALL BE PROVIDED WITH TERRA FIRMA OR APPROVED EQUIVALENT PIT LID WITH A LOCKABLE COVER.



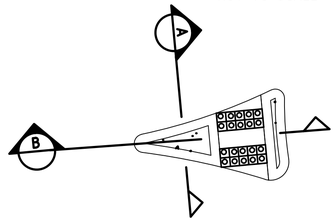
TYPICAL BOLLARD DETAIL
NOT TO SCALE



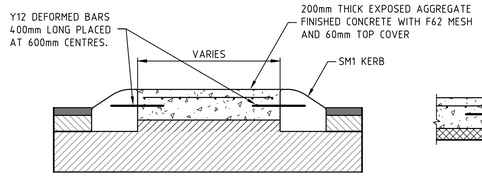
BEATTYS ROAD PARKING BAY TRANSITION AND LINEMARKING DETAIL
NOT TO SCALE



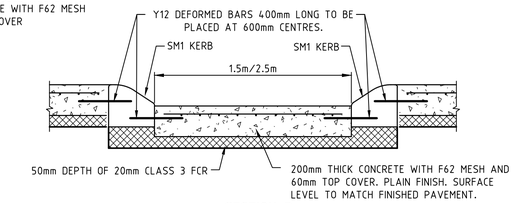
MAMIC BOULEVARD KERB OUTSTAND DETAIL
NOT TO SCALE



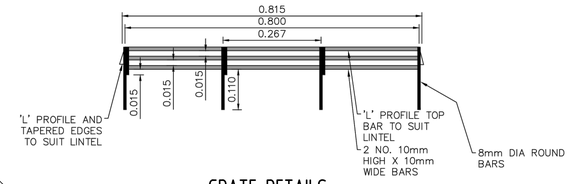
TRAFFIC ISLAND DETAIL
(WITH PEDESTRIAN REFUSE)
NOT TO SCALE



SECTION A
NOT TO SCALE

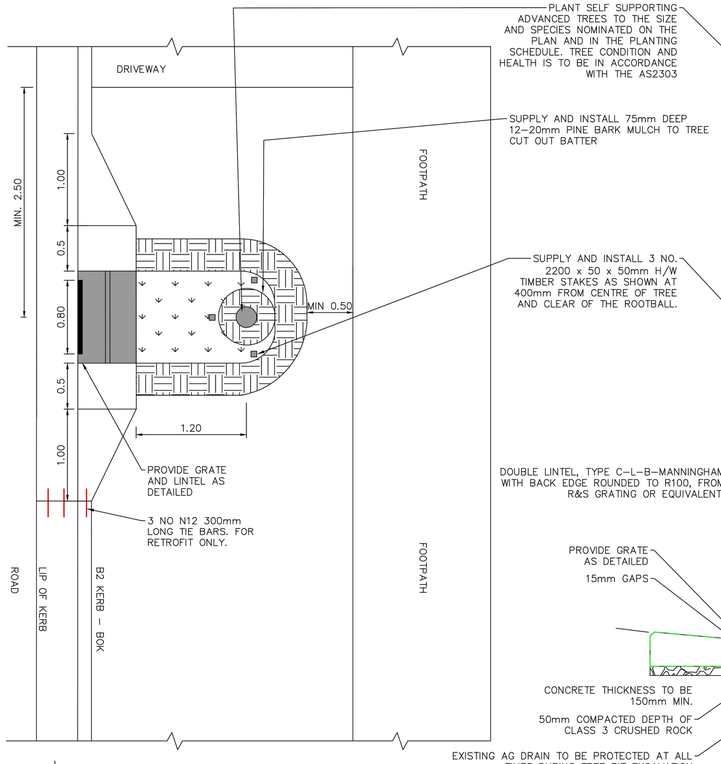


SECTION B
NOT TO SCALE

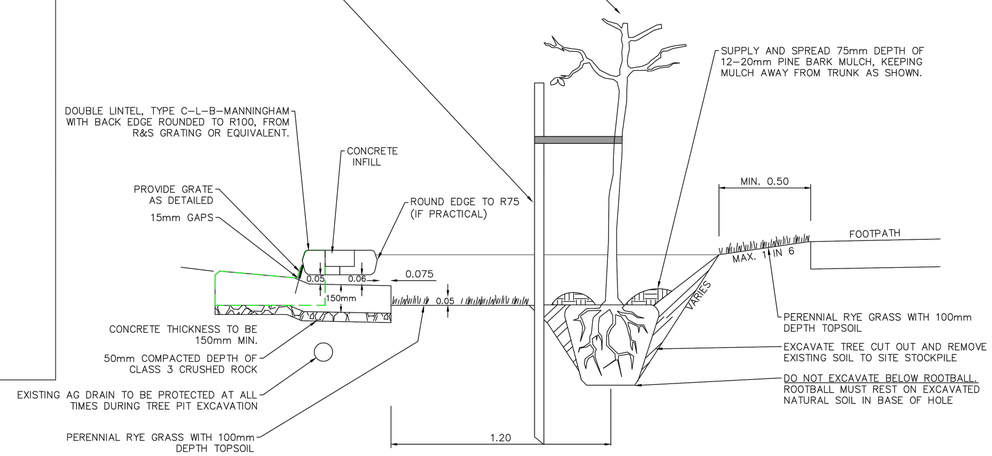


GRATE DETAILS
NOT TO SCALE

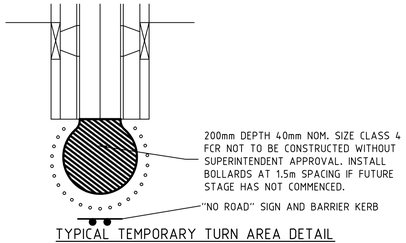
GRATE NOTES
1. GRATE TO BE CONSTRUCTED FROM 304 STAINLESS STEEL, TYPE TR-B-MANNINGHAM FROM R&S GRATING, OR AN APPROVED EQUIVALENT.
2. CONTRACTOR TO ENSURE THAT GRATE SIZE TO FIT LINTEL USED



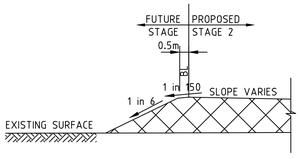
PASSIVE IRRIGATION PLAN VIEW
NOT TO SCALE



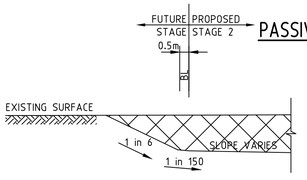
PASSIVE IRRIGATION TYPICAL CROSS SECTION
NOT TO SCALE



TYPICAL TEMPORARY TURN AREA DETAIL
NOT TO SCALE



TYPICAL SECTION
WHEN IN FILL ON BOUNDARY
OF FUTURE STAGE
NOT TO SCALE



TYPICAL SECTION
WHEN IN CUT ON BOUNDARY
OF FUTURE STAGE
NOT TO SCALE

VER.	DATE	REMARKS
B	22.07.19	SHEET NUMBERS AMENDED
A	15.10.18	CONSTRUCTION ISSUE

AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE
STAGE 22
TYPICAL DETAILS & NOTES

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22

SCALE NTS | DATUM AHD | DATE APRIL '18 | SHEET 38 OF 43 | B

NOTES

a) ALL SIGNS TO BE SLEEVED USING A SL27 SLEEVE.

b) ⊡⊟ ⊟⊡⊟ INDICATES UNIDIRECTIONAL & BIDIRECTIONAL RRPM'S PLACED AT 6.00m CTS

c) SWLM - INDICATES SOLID WHITE "LONGLIFE" LINE MARKING
BWLM - INDICATES BROKEN WHITE "LONGLIFE" LINE MARKING

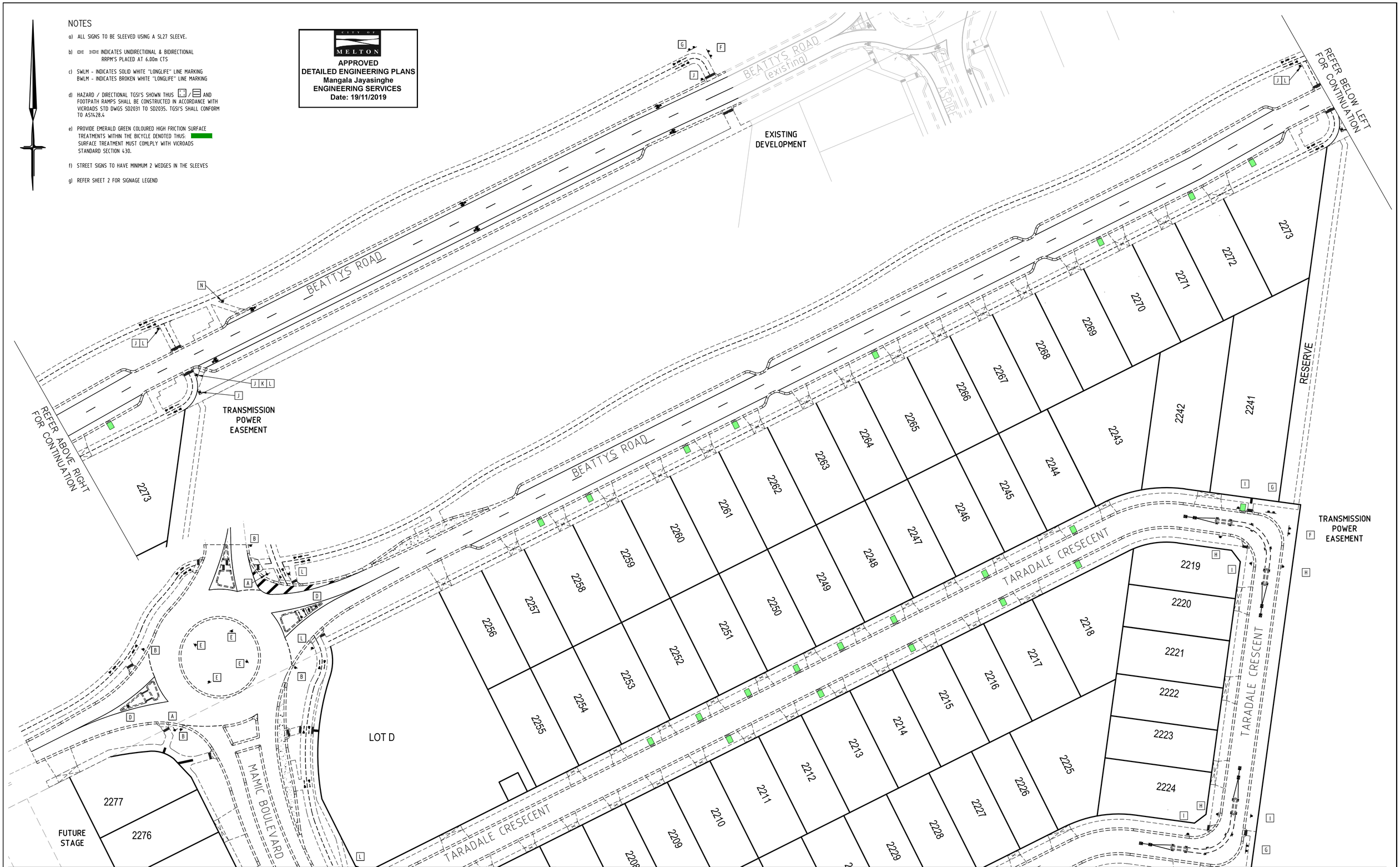
d) HAZARD / DIRECTIONAL TGSI'S SHOWN THUS ⊡ / ⊟ AND FOOTPATH RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH VICROADS STD DWGS SD2031 TO SD2035. TGSI'S SHALL CONFORM TO AS1428.4

e) PROVIDE EMERALD GREEN COLOURED HIGH FRICTION SURFACE TREATMENTS WITHIN THE BICYCLE DENOTED THUS: SURFACE TREATMENT MUST COMLPLY WITH VICROADS STANDARD SECTION 430.

f) STREET SIGNS TO HAVE MINIMUM 2 WEDGES IN THE SLEEVES

g) REFER SHEET 2 FOR SIGNAGE LEGEND

CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019



REFER SHEET 40 FOR CONTINUATION

PLAN
SCALE 1:500

1:500 10 5 00 10 20 40

SYMBOL LEGEND

	Prop	Exist
Drains		
Sewer <300	S	S
Sewer >300	S	S
Water	W	W
House Drain	H	H
Property Inlet		
Street Sign		
PSM		
Retaining Wall		
Conduits 50mm	GW	GW
Conduits 100mm	W100	W100
Ex Gas/Elect/Tel	G E T	

Temporary Bench Mark (TBM)	
Ex/Natural/FS Level	28.57
FS @ Building Line	BL28.57
Top/Toe of Batter	TOP28.57 / TOE28.57
Top Ret. Wall Level	TW28.57
Fill Prop/Ex (0.2m–0.5m depth)	
Fill Prop/Ex (> 0.5m depth)	
Cut Prop/Ex (> 0.2m depth)	
Threshold Treatment	

AMENDMENTS

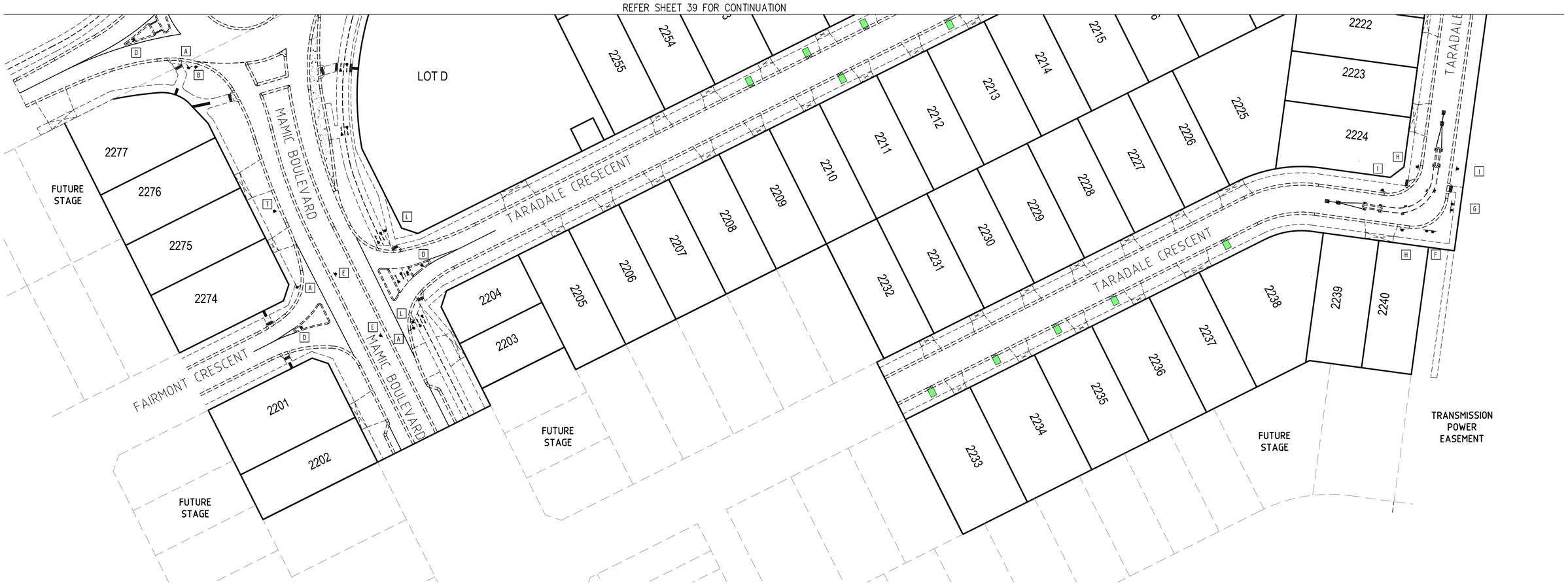
VER.	DATE	REMARKS
G	22.07.19	SHEET NUMBERS AMENDED
F	07.06.19	SIGNAGE & LINEMARKING AMENDED
E	29.04.19	LOT LAYOUT AMENDED
J	14.11.19	SIGNAGE AND LINEMARKING AMENDED
I	12.11.19	AMENDED AS REQUESTED BY COUNCIL
H	01.11.19	SIGNAGE AND LINEMARKING AMENDED

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN IMW
CHECKED TBA

ASPIRE ESTATE STAGE 22
SIGNS AND LINEMARKING - SHEET 1

MUNICIPALITY: MELTON
REFERENCE: 8266 E/22
SCALE AS SHOWN | DATUM AHD | DATE APRIL '18
SHEET 39 OF 43 | J



PLAN
SCALE 1:500

SIGNAGE LEGEND

- A STREET SIGNS (Q5-1)
- B "ROUNDABOUT GIVE WAY" SIGN (R1-3)
- C "BI-DIRECTIONAL HAZARD MARKER" SIGN (R1-3)
- D "KEEP LEFT" SIGN (D4-2-1)
- E "UNI-DIRECTIONAL HAZARD MARKER" SIGN (D4-1-2)
- F "CHEVRON" SIGN (D4-1-3 RIGHT)
- G "CHEVRON" SIGN (D4-1-3 LEFT)
- H "NO PARKING LEFT" SIGN (R5-35 LEFT)
- I "NO PARKING RIGHT" SIGN (R5-35 RIGHT)
- J "SHARED PATH" SIGN (R8-2)
- K "NO ENTRY" SIGN (R2-4)
- L "GIVEWAY" SIGN (R1-2)
- N "BICYCLE ONLY" SIGN (R8-1)

NOTES

a) ALL SIGNS TO BE SLEEVED USING A SL27 SLEEVE.

b) ⊡⊟ ⊟⊡⊟ INDICATES UNIDIRECTIONAL & BIDIRECTIONAL RRPM'S PLACED AT 6.00m CTS

c) SWLM - INDICATES SOLID WHITE "LONGLIFE" LINE MARKING
BWLM - INDICATES BROKEN WHITE "LONGLIFE" LINE MARKING

d) HAZARD / DIRECTIONAL TGSI'S SHOWN THUS ⊡ / ⊟ AND FOOTPATH RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH VICROADS STD DWGS SD2031 TO SD2035. TGSI'S SHALL CONFORM TO AS1428.4

e) PROVIDE EMERALD GREEN COLOURED HIGH FRICTION SURFACE TREATMENTS WITHIN THE BICYCLE DENOTED THUS: SURFACE TREATMENT MUST COMLPLY WITH VICROADS STANDARD SECTION 430.

f) STREET SIGNS TO HAVE MINIMUM 2 WEDGES IN THE SLEEVES

CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019

1:500 10 5 00 10 20 40

SYMBOL LEGEND

	Prop	Exist
Drains		
Sewer <300	S	S
Sewer >300	S	S
Water	W	W
House Drain	H	H
Property Inlet		
Street Sign		
PSM		
Retaining Wall		
Conduits 50mm	GW	GW
Conduits 100mm	W100	W100
Ex Gas/Elect/Tel	G E T	

Temporary Bench Mark (TBM)	
Ex/Natural/FS Level	28.57
FS @ Building Line	BL28.57
Top/Toe of Batter	TOP28.57 / TOE28.57
Top Ret. Wall Level	TW28.57
Fill Prop/Ex (0.2m-0.5m depth)	
Fill Prop/Ex (> 0.5m depth)	
Cut Prop/Ex (> 0.2m depth)	
Threshold Treatment	

AMENDMENTS

VER.	DATE	REMARKS
G	16.10.19	SIGNAGE AND LINEMARKING AMENDED
F	22.07.19	SHEET NUMBERS AMENDED
E	07.06.19	SIGNAGE & LINEMARKING AMENDED
J	14.11.19	SIGNAGE AND LINEMARKING AMENDED
I	12.11.19	SIGNAGE AND LINEMARKING AMENDED
H	01.11.19	SIGNAGE AND LINEMARKING AMENDED

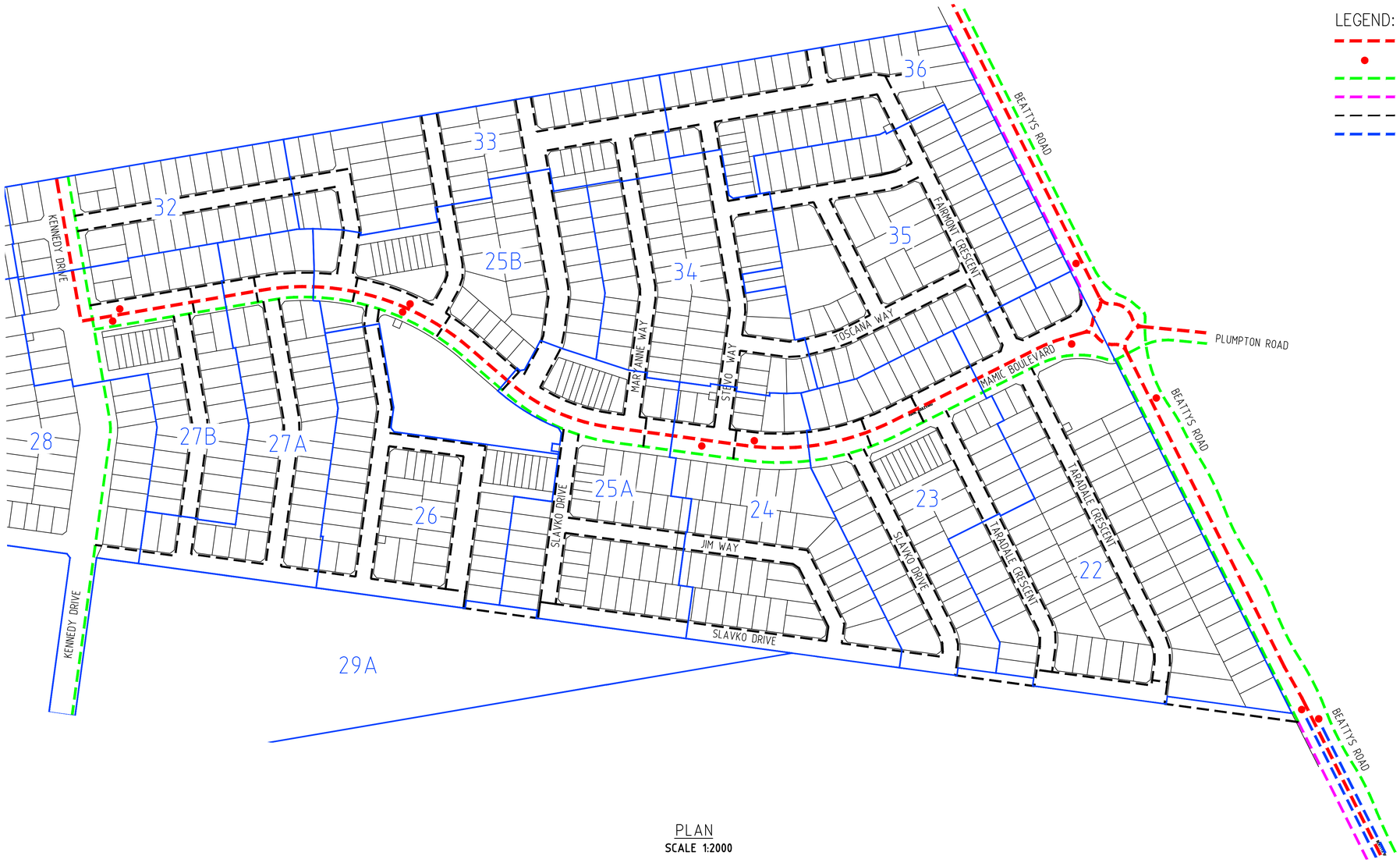
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	354 C12
SURVEY	BPD
DESIGN	JGB
DRAWN	IMW
CHECKED	TBA

ASPIRE ESTATE STAGE 22
SIGNS AND LINEMARKING - SHEET 2

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22

SCALE AS SHOWN | DATUM AHD | DATE APRIL '18 | SHEET 40 OF 43 | J



LEGEND:

- POTENTIAL BUS ROUTE (AS PER PSP)
- TfV BUS STOP LOCATION
- 3.0m WIDE SHARED PATH
- 2.0m WIDE SHARED PATH
- 1.5m WIDE FOOTPATH
- ON ROAD BIKE LANE (BOTH SIDES) AS PER PSP

CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019

PLAN
SCALE 1:2000

1:2000 40 20 00 40 80 160

AMENDMENTS			
D	22.07.19	SHEET NUMBERS AMENDED	
C	29.04.19	LOT LAYOUT AMENDED	
B	23.01.19	TITLE BOUNDARY AMENDED	
A	15.10.18	CONSTRUCTION ISSUE	
VER.	DATE	REMARKS	

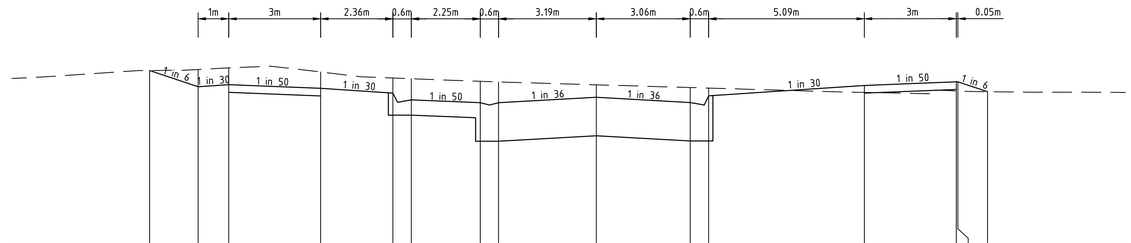
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN IMW
DRAWN JGB
CHECKED TBA

ASPIRE ESTATE STAGE 22
MOBILITY PLAN

MUNICIPALITY: MELTON
REFERENCE: 8226 E/22

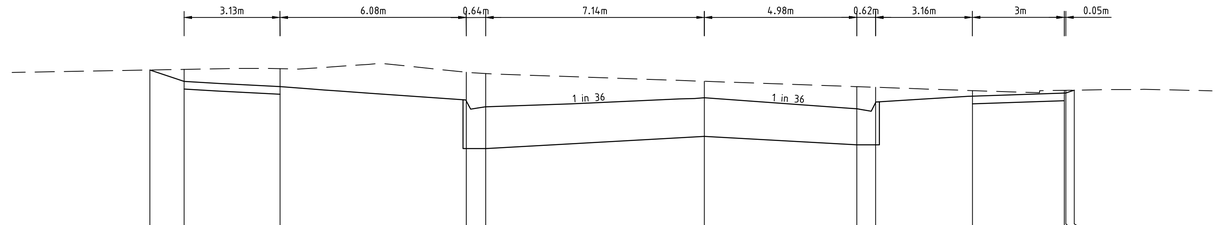
SCALE AS SHOWN | DATUM AHD | DATE SEPT '18 | SHEET 41 OF 43 | D



DATUM129.0																	
DESIGN SURFACE	130.135	130.030	130.043	130.019	129.987	129.943	129.925	129.943	129.961	129.926	129.968	130.038	130.061	130.061	129.997		
EXISTING SURFACE	130.135	130.142	130.152	130.126	130.086	130.081	130.065	130.061	130.042	130.024	130.020	129.992	130.002	130.002	129.997		
OFFSET	-14.586	13.004	-12.004	-9.004	-6.643	-6.043	-3.792	-3.192	0.000	-3.065	-3.665	-3.792	-3.792	-3.792	-3.792		

BEATTYS ROAD

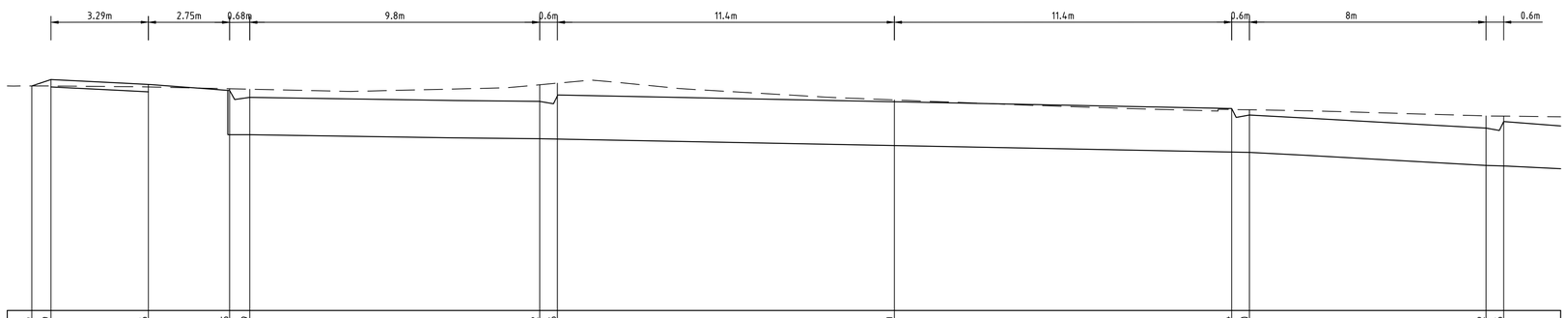
CH 644.9737



DATUM129.0																	
DESIGN SURFACE	130.106	130.031	129.997	129.905	129.866	129.924	129.853	129.894	129.935	129.955	129.955	129.974					
EXISTING SURFACE	130.106	130.110	130.114	130.091	130.083	130.032	129.997	129.993	129.971	129.973	129.973	129.974					
OFFSET	-18.104	-16.988	-13.855	-7.776	-7.139	0.000	4.975	5.592	8.751	11.751	11.801	12.076					

BEATTYS ROAD

CH 678.0786



DATUM128.0																	
DESIGN SURFACE	129.516	129.559	129.526	129.485	129.439	129.412	129.456	129.410	129.364	129.320	129.232	129.276					
EXISTING SURFACE	129.516	129.516	129.509	129.497	129.494	129.524	129.535	129.422	129.357	129.355	129.314	129.312					
OFFSET	-29.169	-28.522	-25.229	-22.480	-21.799	-11.996	-11.396	0.000	11.404	12.004	20.004	20.604					

BEATTYS ROAD

CH 711.1836

CITY OF MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019

FCR BACKFILL PLACED UNDER FOOTPATH WHERE ABOVE EXISTING SURFACE TO BE CLASS 3 OR CRUSHED CONCRETE CLASS 3

1:50 VER 1 0.5 00 1 2 4

1:100 HOR 2 1 00 2 4 8

VER.	DATE	REMARKS
A	22.07.19	CONSTRUCTION ISSUE

AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 354 C12
SURVEY BPD
DESIGN JGB
DRAWN MSJ
CHECKED TBA

ASPIRE ESTATE STAGE 22

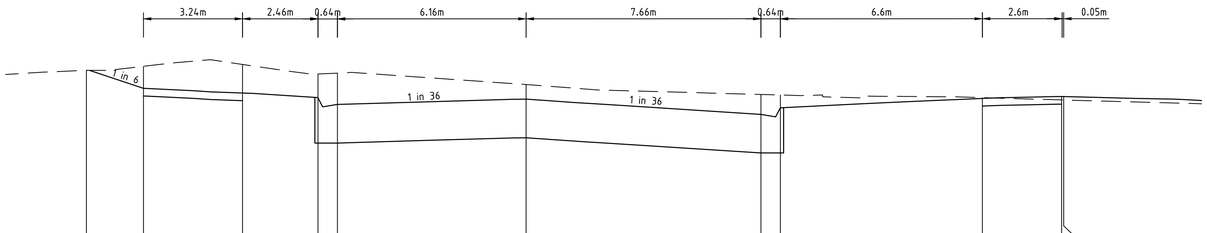
ROAD CROSS SECTIONS - SHEET 15

SCALE AS SHOWN | DATUM AHD | DATE JULY '18

MUNICIPALITY: MELTON

REFERENCE: 8226 E/22

SHEET 42 OF 43 | A

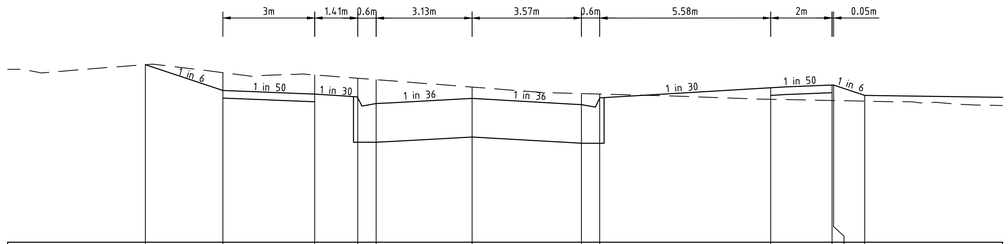


DATUM129.0

DESIGN SURFACE	130.177	130.000	129.969	129.937	129.895	129.929	129.830	129.872	129.934	129.946	129.946
EXISTING SURFACE	130.177	130.143	130.156	130.094	130.099	130.025	129.960	129.956	129.939	129.924	129.924
OFFSET	-14.356	-12.695	-9.258	-6.796	-6.160	0.000	7.664	8.301	14.898	17.482	17.551

BEATTYS ROAD

CH 738.8286



DATUM129.0

DESIGN SURFACE	130.160	129.991	129.968	129.943	129.905	129.939	129.899	129.941	130.009	130.027	129.959
EXISTING SURFACE	130.160	130.107	130.092	130.071	130.062	130.013	129.971	129.968	129.933	129.926	129.921
OFFSET	-10.668	-8.139	-5.139	-3.734	-3.134	0.000	3.566	4.166	9.749	11.749	12.818

BEATTYS ROAD

CH 766.4737

CITY OF MELTON

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 19/11/2019

FCR BACKFILL PLACED UNDER FOOTPATH WHERE ABOVE EXISTING SURFACE TO BE CLASS 3 OR CRUSHED CONCRETE CLASS 3

1:50 VER 1 0.5 00 1 2 4

1:100 HOR 2 1 00 2 4 8

AMENDMENTS

VER.	DATE	REMARKS
A	22.07.19	CONSTRUCTION ISSUE

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	354 C12
SURVEY	BPD
DESIGN	JGB
DRAWN	MSJ
CHECKED	TBA

ASPIRE ESTATE STAGE 22

ROAD CROSS SECTIONS - SHEET 16

MUNICIPALITY: MELTON

REFERENCE: 8226 E/22

SCALE AS SHOWN | DATUM AHD | DATE JULY '18 | SHEET 43 OF 43 | A