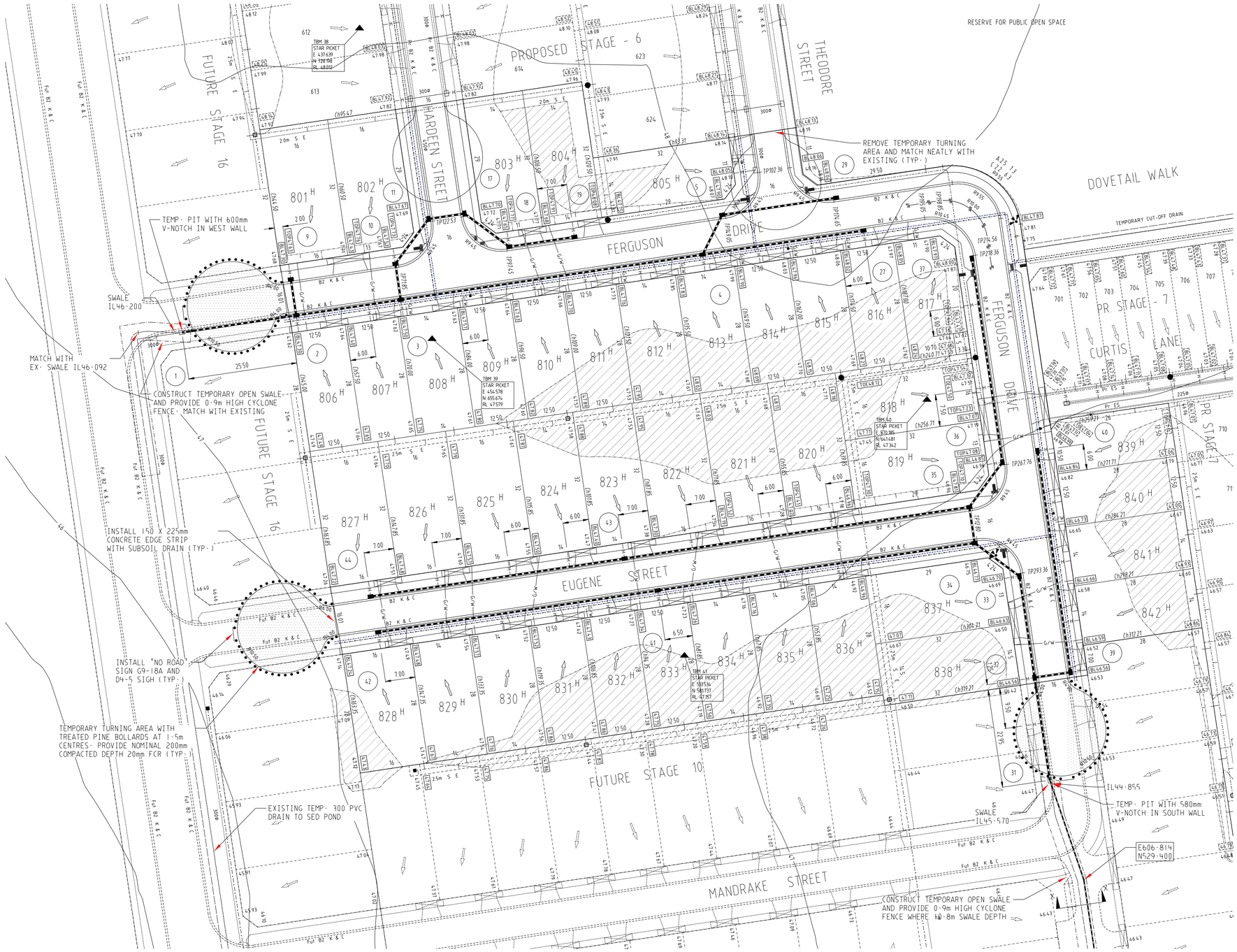
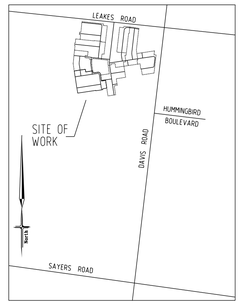


CONTINUE SHEET 2

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



LOCALITY PLAN

NOT TO SCALE

North

DRAWING INDEX

SHT. No.	VER	DESCRIPTION
1	D	LAYOUT PLAN - 1, LOCALITY PLAN AND SERVICE OFFSETS
2	A	LAYOUT PLAN - 2, GENERAL NOTES
3	D	INTERSECTION DETAILS
4	A	KERB LIP PROFILES - 1
5	A	KERB LIP PROFILES - 2 AND SETOUT INFORMATION
6	A	ROAD LONGITUDINAL SECTIONS - 1
7	A	ROAD LONGITUDINAL SECTIONS - 2
8	A	ROAD CROSS SECTIONS FERGUSON DRIVE - 1
9	A	ROAD CROSS SECTIONS FERGUSON DRIVE - 2
10	A	ROAD CROSS SECTIONS EUGENE STREET
11	A	ROAD CROSS SECTIONS THEODORE STREET AND HARDEEN STREET
12	A	DRAINAGE LONGITUDINAL SECTIONS - 1
13	B	DRAINAGE LONGITUDINAL SECTIONS - 2 AND PIT SCHEDULE

LAYOUT PLAN

SCALE 1:500

SCALE 1 : 500

10 5 0 10 20 40

LENGTHS ARE IN METRES

AS CONSTRUCTED

SERVICES OFFSETS AND LOCATIONS

STREET NAME	ROAD RESERVE	WATER (NDW)	WATER (DW)	GAS	ELECTRICITY		TELECOM	STREET TREES	BACK OF KERB	JOINT TRENCHING
					CABLES	POLES	NBN			
FERGUSON DRIVE (E/W)	16.00	2.70 S	3.20 S	2.20 S	2.60 N	1.00 BOK	1.85 N	2.95 S 2.95 N	4.35 S 4.05 N	W,G & E,T
FERGUSON DRIVE (N/S)	16.00	2.70 E	3.20 E	2.20 E	2.60 W	1.00 BOK	1.85 W	2.95 W 2.95 E	4.05 W 4.35 E	W,G & E,T
EUGENE STREET	16.00	2.70 S	3.20 S	2.20 S	2.60 N	1.00 BOK	1.85 N	2.95 S 2.95 N	4.35 S 4.05 N	W,G & E,T
THEODORE STREET	16.00	2.25 W	2.75 W	1.75 W	3.95 W	1.00 BOK	3.35 W	4.45 W 1.45 E	5.55 W 2.85 E	W,G & E,T
HARDEEN STREET	16.00	2.70 W	3.20 W	2.20 W	2.60 E	1.00 BOK	1.85 E	2.95 W 2.95 E	4.35 W 4.05 E	W,G & E,T

SYMBOL LEGEND

Prop Drains
Exist Drains < 600
Exist Drains > 600
Prop Sewers < 300
Prop Sewers > 300
Exist Sewers < 300
Exist Sewers > 300
Prop Water
Prop Gas Conduit
Exist Water
Exist Gas
Exist Telstra/Optus
Exist Electricity
Prop 100mm Water Conduit
House drain
Property Inlet
Street Sign
PSM
Existing Surface Level
F.S. Level at Building Line
F.S. Level at Top of Batter
F.S. Level at Back of Lots
Top of Retaining Wall Level
F.S. Level Previous Stage
Coloured Concrete Pavement
Fill > 200mm

AMENDMENTS

VER.	DATE	REMARKS
D	12-01-18	AMENDED CROSSOVER IN FRONT OF LOT RESERVE
C	31-07-17	ADD DRAIN PIT 5 TO PIT 29
B	07-04-17	CROSSOVER AMENDED
A	17-02-17	ISSUED FOR CONSTRUCTION

COUNCIL REF. No 1847/16 - 6215/12

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. 234-6-2
SURVEY BPD
DESIGN L.G
DRAWN L.G
CHECKED

RIVERDALE VILLAGE STAGE 8

MUNICIPALITY: WYNDHAM

REFERENCE: 8554 E/8

SCALE AS SHOWN | DATUM AHD | DATE SEP'16 | SHEET 1 OF 13 | D

I:\W855\ENG\STDB\E8_R01_DET.dgn

Plotted:12/01/2018

GENERAL NOTES

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH GROWTH AREAS AUTHORITY (GAA) ENGINEERING DESIGN AND CONSTRUCTION MANUAL FOR SUBDIVISION AND WYNDHAM CITY COUNCIL (WCC) PLANS AND SPECIFICATIONS APPROVED BY COUNCIL AND TO THE SATISFACTION OF THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE.
2. COUNCIL AND ALL SERVICE AUTHORITIES TO BE NOTIFIED 7 CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
3. DRAINAGE AND PITS TO BE SET OUT FROM OFFSETS SHOWN RATHER THAN FROM PIPE CHAINAGES.
4. PROPERTY INLETS ARE TO BE PLACED 1.0M FROM THE LOW CORNER OF LOT UNLESS OTHERWISE SHOWN.
5. LOTS DENOTED WITH 'H' ARE TO BE PROVIDED WITH A 100mm. DIA. HOUSE DRAIN PLACED 6.0m FROM LOW CORNER OF LOT UNLESS SHOWN OTHERWISE. HOUSE DRAIN TO BE CONNECTED TO STORMWATER DRAINS IF PRESENT. COVER AT THE BUILDING LINE TO BE MINIMUM OF 600mm.
6. ALL PIPES UNDER ROAD PAVEMENTS TO BE RRJ RCP (CLASS 4) UNLESS OTHERWISE SPECIFIED. ALL OTHER PIPES TO BE RRJ RCP CLASS 2 UNLESS OTHERWISE SPECIFIED.
7. DRAINAGE PIPES LAID ON A CURVE MUST BE RRJ AND THE RADIUS OF CURVATURE COMPLY WITH THE MANUFACTURERS SPECIFICATIONS.
   DRAINAGE PIPES LAID ON A CURVE SHALL HAVE THE BUILDING LINE PEGGED AT MINIMUM 15m INTERVALS.
8. ALL SEWER MAINS, CONDUITS & PIPES UNDER ROAD PAVEMENT, CONCRETE DRIVEWAYS, FOOTPATHS AND PARKING BAYS ARE TO BE BACKFILLED WITH 20mm CLASS 2 BASALTIC FCR COMPACTED TO THE SATISFACTION OF THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE. WHERE SEWER MAINS ARE ADJACENT TO STORMWATER PIPELINES THE BACKFILL OF THE DEEPER TRENCH SHALL BE IN ACCORDANCE WITH COUNCILS STANDARD DRAWING SD 6-10 (1996)
9. DRAINAGE PIPES BEHIND BACK OF KERB TO BE BACKFILLED WITH 20mm. CLASS 3 BASALTIC ROCK COMPACTED TO THE SATISFACTION OF THE DIRECTOR ENGINEERING
10. AGRICULTURAL PIPE DRAINS TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS. REFER TO GAA STANDARD DGN. EDCM 202.
11. 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 DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE
12. BATTERS SHALL BE IN 1 IN 6 FOR CUT AND FILL UNLESS OTHERWISE SHOWN.
14. PRIOR TO COMMENCEMENT OF WORKS,THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION:
    a) SOURCE OF QUARRY MATERIAL.
    b) OPTIMUM MOISTURE CONTENT AND MAXIMUM MODIFIED DRY DENSITY OF THE F.C.R. TO BE USED (FROM NATA APPROVED LABORATORY).
    c) IF THE SOURCE OF THE QUARRY MATERIAL IS CHANGED DURING THE COURSE OF WORKS, NEW TEST RESULTS SHALL BE PROVIDED.
15. NO TOP SOIL SHALL BE REMOVED FROM LAND COVERED BY THE SUBDIVISION WITHOUT THE WRITTEN CONSENT OF THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE. THE TRUCK ROUTE FOR REMOVAL OF SPOIL FROM SITE IS TO BE SUBMITTED TO AND APPROVED BY THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE IN WRITING PRIOR TO COMMENCEMENT OF ANY WORK.
16. ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL RUBBISH AND SPOIL FROM THE SITE.
17. THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL NECESSARY SHORING AND PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS ETC. NECESSARY TO KEEP THE WORKS IN A SAFE AND STABLE CONDITION AND PROTECT THE PUBLIC FROM THE WORK AS PER AUSTRALIAN STANDARD AS1742.1.2.3 -1986.
18. REMOVAL OR RETENTION OF EXISTING TREES OR VEGETATION MUST BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLANS. NO MATERIAL IS TO BE BURNT ON SITE.
19. ANY FOOTPATH OR KERB AND CHANNEL DAMAGED DURING CONSTRUCTION AND MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE.
20. LOTS TO BE GRADED TO THE SATISFACTION OF THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE. ALL LOTS TO BE 1 IN 150 MINIMUM SLOPE.
21. FILL AREAS TO BE STRIPPED OF TOPSOIL, FILLED USING APPROVED CLAY FILL, AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLANS. ALL FILLING TO BE CARRIED OUT IN 150MM LAYERS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS3798-2007, SECTION 8.2, LEVEL 1 ("GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS"). ON COMPLETION THE CONTRACTOR SHALL PRESENT A "LEVEL 1" TYPED REPORT, FROM A NATA REGISTERED SOIL TESTING LABORATORY, NOMINATING THE EXTENT OF FILL PLACED, ITS CONFORMANCE WITH THE SPECIFICATION AND ITS CLASSIFICATION AS "CONTROLLED FILL". IF ANY SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL PROPERLY COMPACTED TO COUNCIL REQUIREMENTS. A GEO-TECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
22. 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 DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE.
23. WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES THESE SERVICES ARE TO BE LOCATED AND THE VARIOUS AUTHORITIES NOTIFIED PRIOR TO THE COMMENCEMENT OF WORKS.
24. 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.
25. TELSTRA/NBN CO TO BE NOTIFIED 7 DAYS PRIOR TO CONCRETE WORKS BEING PLACED.
26. ALL DRIVEWAYS TO BE OFFSET 0.75m FROM SIDE BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN. REFER TO WCC STD. DRG. SD 4-1.

WARNING

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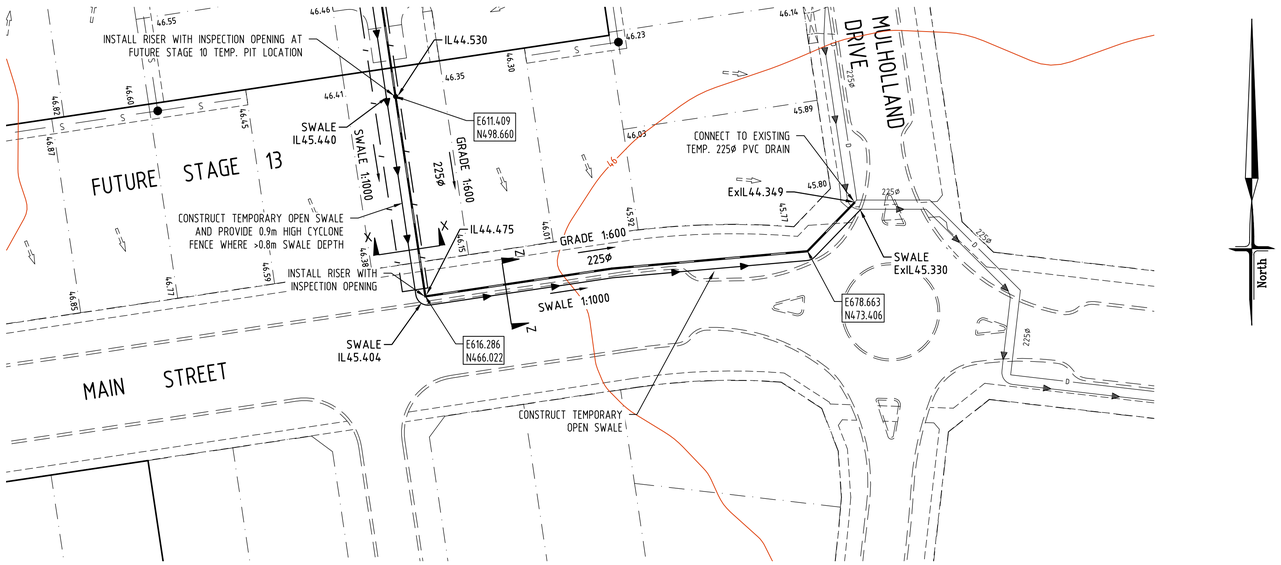
27. THE CONTRACTOR IS TO ARRANGE CCTV OF DRAINAGE AND ACCEPTANCE FROM COUNCIL PRIOR TO INSTALLATION OF THE KERB & CHANNEL AND ASPHALT PLACEMENT.
28. B2 PROFILE KERB AND CHANNEL TO BE CONSTRUCTED IN ALL STREETS UNLESS OTHERWISE SHOWN.
29. PSM'S TO BE LANDS DEPT. HIGH STABILITY TYPE. REFER TO COUNCIL STANDARD DRAWING SD11-10. AMG CO-ORDINATES AND AHD LEVEL TO BE SUPPLIED TO COUNCIL. (TO BE INSTALLED BY OTHERS)
30. LEVELS SHOWN THUS:
    - 28.57 DENOTES EXISTING SURFACE LEVEL
    - BL28.57 DENOTES F.S. LEVEL AT BUILDING LINE
    - TOP28.57 DENOTES F.S. LEVEL AT TOP OF BATTER
    - TOE28.57 DENOTES F.S. LEVEL AT TOE OF BATTER
    - 28.57 DENOTES F.S. LEVEL AT BACK OF LOTS
    - TW28.57 DENOTES TOP OF RETAINING WALL LEVEL
31. ALL SERVICE TRENCHES UNDER CONCRETE FOOTPATHS AND VEHICLE CROSSINGS TO BE BACKFILLED WITH CLASS 3 CRUSHED ROCK MATERIAL.
32. i - ALL ROAD PAVEMENT TO CONSIST OF:
    a) 30mm COMPACTED DEPTH 10mm NOMINAL SIZE TYPE 'N' ASPHALT WITH C170 BINDER. (ASPHALT TO BE 5mm PROUD OF LIP OF KERB)
    b) 30mm COMPACTED DEPTH 10mm NOMINAL SIZE TYPE 'N' ASPHALT WITH C170 BINDER.
    c) 10mm SAMI SEAL.
    d) 125mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 2 F.C.R. COMPACTED TO AT LEAST 100% MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT AND TO ACHIEVE A MINIMUM YOUNG'S MODULUS OF 500 MPa.
    e) 100mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 3 CEMENT TREATED CRUSHED ROCK COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT WITH A MINIMUM YOUNG'S MODULUS OF 500 MPa.
    f) 235mm COMPACTED DEPTH 40mm RIPPED ROCK. PERMEABILITY SHALL BE LESS THAN $1x10^{-9}$ m/s.

    TOTAL PAVEMENT DEPTH 530mm
33. ALL PAVEMENTS TO BE COMPACTED TO 98% AUSTRALIAN DRY DENSITY. PAVEMENT DEPTH MAY NOT BE MODIFIED UNLESS APPROVED BY COUNCIL TO THE SATISFACTION OF THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE.
34. ALL 125mm THICK FOOTPATH CONCRETE PAVING TO BE REINFORCED WITH SL72 MESH AND MUST BE CONSTRUCTED WITH A 50MM UNDERLAYER OF 20MM COMPACTED CLASS 3 FCR IN ACCORDANCE WITH GAA STANDARD DRAWING EDCM 401.
35. 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.
36. ALL SIGNS AND TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH AS 1742-1,2,3 -1986. LINE MARKING SHALL BE IN ACCORDANCE WITH VICROADS REQUIREMENT WITH LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR OR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL (VICROADS SPECIFICATION SEE SECTION 710 & 722).
37. 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". APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.
38. PRIOR TO START OF WORKS ON SITE, A PRE-COMMENCEMENT MEETING MUST BE HELD BETWEEN DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE, THE DEVELOPER'S CONSULTANT AND THE CONTRACTOR.
39. PRIOR TO COMMENCING WORKS ON SITE, THE CONTRACTOR MUST OBTAIN ROAD OPENING/WORKS PERMITS FROM COUNCIL FOR ANY WORKS WITHIN EXISTING ROAD RESERVES OR WORKS ON ANY EXISTING INFRASTRUCTURE.
40. STREET NAMES TO BE INSTALLED ON PUBLIC LIGHTING POLES AT INTERSECTIONS WHERE POSSIBLE. ALL SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SD11-1.
41. LOCATION OF ALL UNDERGROUND SERVICE CONDUITS TO BE MARKED ON BOTH SIDES OF THE KERB AND CHANNEL WITH W FOR WATER, RW FOR RECYCLED WATER, G FOR GAS, T FOR TELECOMMUNICATIONS & E FOR ELECTRICITY (REFER TO STANDARD DRAWING SD11-8).
42. THE CONTRACTOR IS TO INSTALL BLUE RRPM'S ON THE ROAD CENTRLINE AND MARKER POSTS TO INDICATE THE LOCATION OF FIRE PLUGS OR HYDRANTS.
43. GAS AND WATER CONDUITS TO BE 50mm DIAMETER.
44. DEMOLITION WORKS TO INCLUDE BUT IS NOT LIMITED TO THE REMOVAL OF UNDERGROUND SERVICES, DRAINAGE & PITS, DISPOSAL OF MATERIAL FROM SITE, ALL TO THE SATISFACTION OF THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE. EXCAVATIONS FROM TRENCHES OF REMOVED DRAINAGE AND SERVICES TO BE EXCAVATED TO A FIRM BASE,INSPECTED BY THE DEVELOPER'S CONSULTANT AND LEVELS TAKEN. APPROVED FILL MATERIAL SHALL BE PLACED AND COMPACTED TO THE SATISFACTION OF THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE.

CONTINUE SHEET 1 BOTTOM RIGHT



LAYOUT PLAN

SCALE: 1:500

10 0 10 1:500 @ A1

ALL LENGTHS ARE IN METRES

AS CONSTRUCTED

COUNCIL REF. No. 1847/16 - 6215/12

SYMBOL LEGEND

Prop Drains	
Exist Drains < 600	150
Exist Drains > 600	900
Prop Sewers < 300	S
Prop Sewers > 300	S
Exist Sewers < 300	150 S
Exist Sewers > 300	300 S
Prop Water	W
Prop Gas Conduit	G
Exist Water	100 W
Exist Gas	100 G
Exist Telstra/Optus	T/O
Exist Electricity	E
Prop 100mm Water Conduit	W100
House drain	H
Property Inlet	
Street Sign	
PSM	
Existing Surface Level	+ 28.57
F.S. Level at Building Line	+ BL28.57
F.S. Level at Top of Batter	+ TOP28.57
F.S. Level at Back of Lots	+ 28.57
Top of Retaining Wall Level	+ TW28.57
F.S. Level Previous Stage	+ 28.57
Coloured Concrete Pavement	
Fill > 200mm	

VER.	DATE	REMARKS
A	17-02-2017	ISSUED FOR CONSTRUCTION

AMENDMENTS

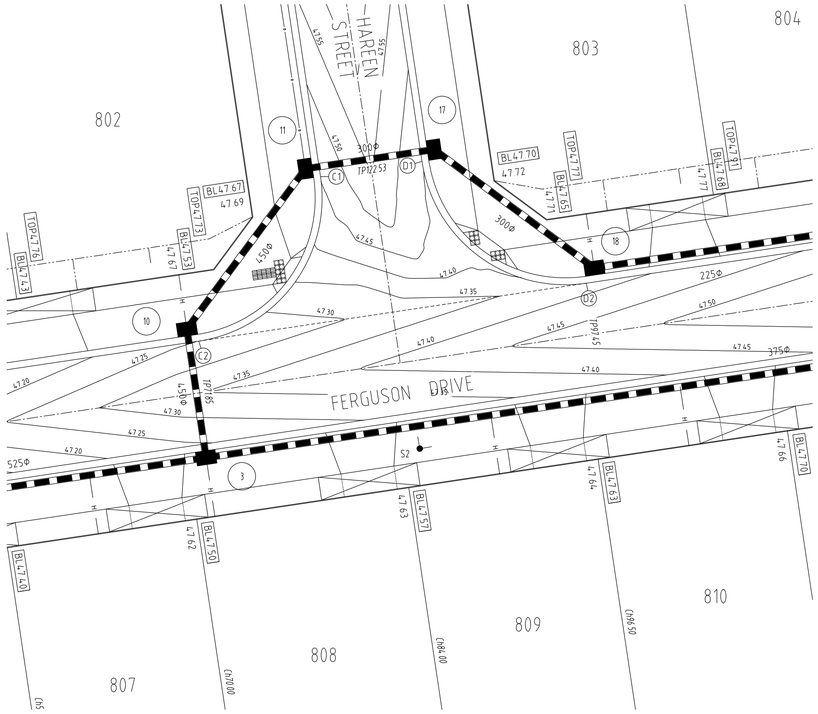
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

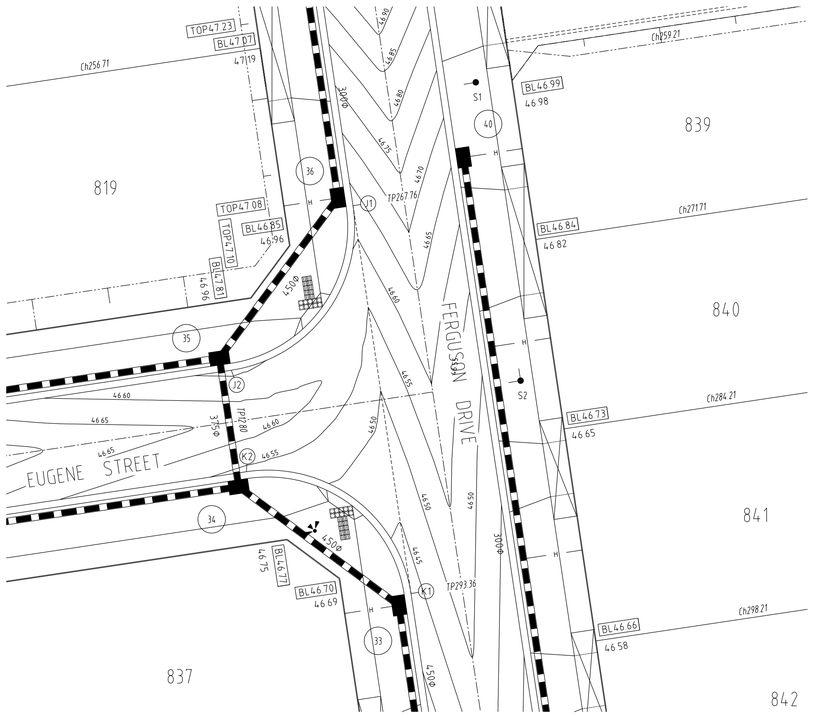
MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE STAGE 8

MUNICIPALITY: WYNDHAM
REFERENCE: 8554 E/08

SCALE AS SHOWN | DATUM AHD | DATE SEP' 16 | SHEET 2 OF 13 | A





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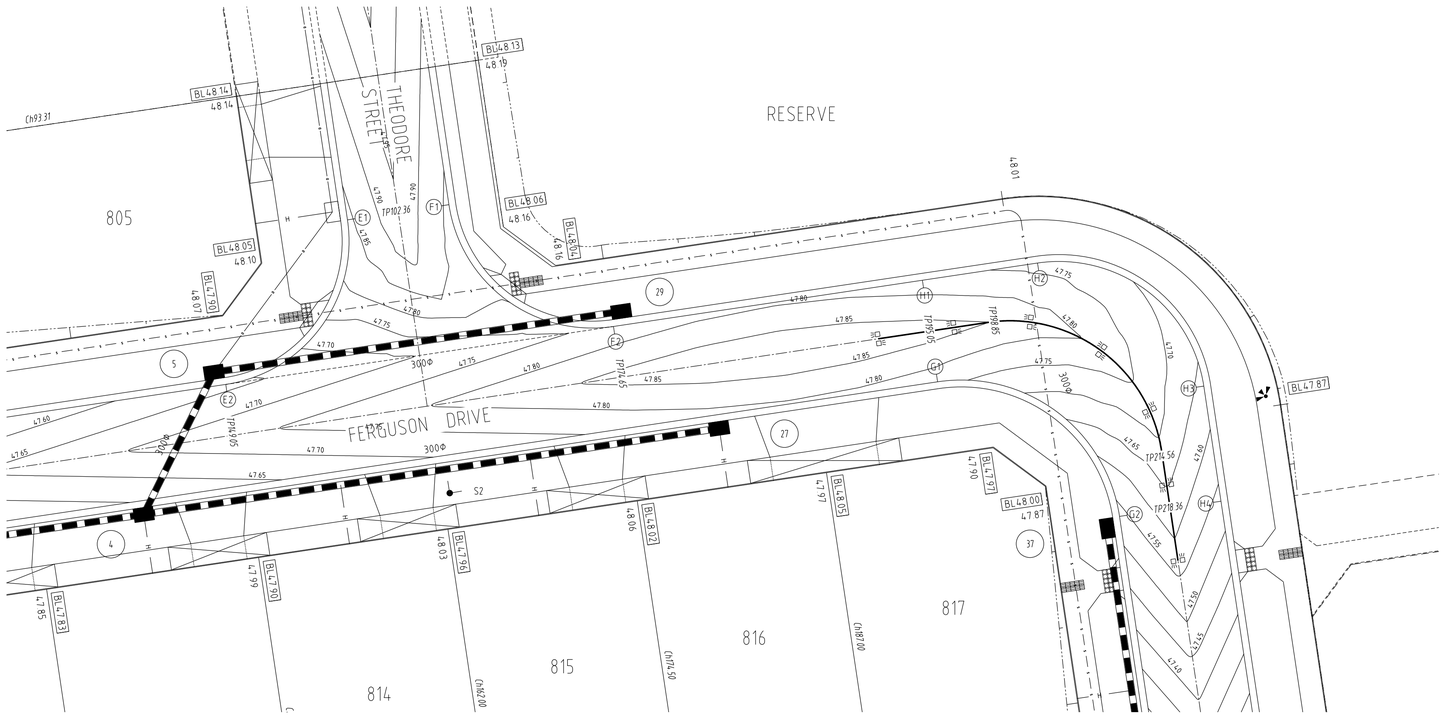
TRAFFIC MANAGEMENT LEGEND

S1 STREET SIGNS (SINGLE SIGN)
S2 STREET SIGNS (DOUBLE SIGN)
S3 STREET SIGNS (TRIPLE SIGN)

NOTE: ALL SIGNAGE SHALL BE IN ACCORDANCE WITH AUSTRALIAN STANDARD (AS 1742.2-2009)



INTERSECTION DETAILS

SCALE 1:200

SCALE 1 : 200

4 2 0 4 8 16

LENGTHS ARE IN METRES

AS CONSTRUCTED

AMENDMENTS		
D	12-01-18	AMENDED CROSSOVER IN FRONT OF LOT RESERVE
C	31-07-17	ADD DRAIN PIT 5 TO PIT 29
B	07-04-17	CROSSOVER AMENDED
A	17-02-17	ISSUED FOR CONSTRUCTION
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.	234-6-2
SURVEY	BPD
DESIGN	L.G
DRAWN	L.G
CHECKED	

RIVERDALE VILLAGE STAGE 8

SCALE AS SHOWN	DATUM AHD	DATE SEP'16	

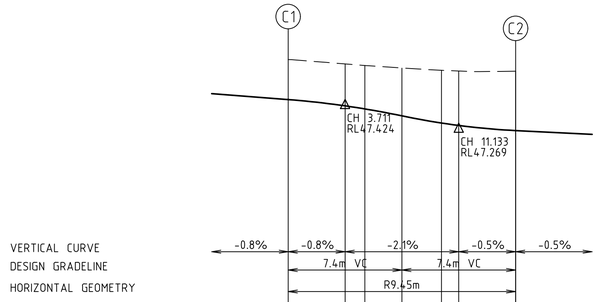
MUNICIPALITY: WYNDHAM

REFERENCE: 8554 E/8

SHEET 3 OF 13 D

I:\W8554\ENG\STOB\E8_RD1_INT.dgn

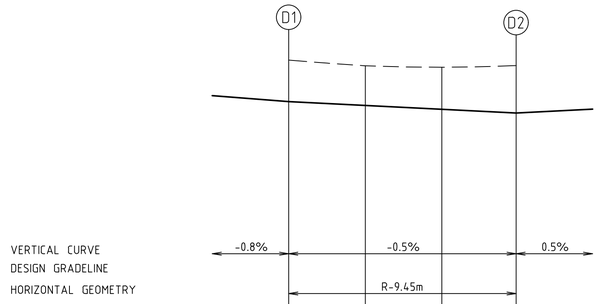
Plotted:12/01/2018



DATUM 46

DESIGN SURFACE LEVEL	47.453	47.412	47.392	47.347	47.300	47.284	47.251 47.251
EXISTING SURFACE LEVEL	47.715	47.686	47.676	47.659	47.644	47.639	47.638 47.638
CHAINAGE	0.000	3.711	5.000	7.422	10.000	11.133	14.844 14.844

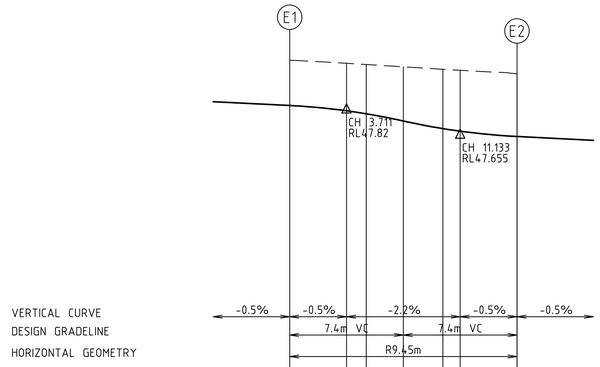
LIP LINE C



DATUM 46

DESIGN SURFACE LEVEL	47.453	47.428	47.403	47.379
EXISTING SURFACE LEVEL	47.723	47.687	47.677	47.688
CHAINAGE	0.000	5.000	10.000	14.844

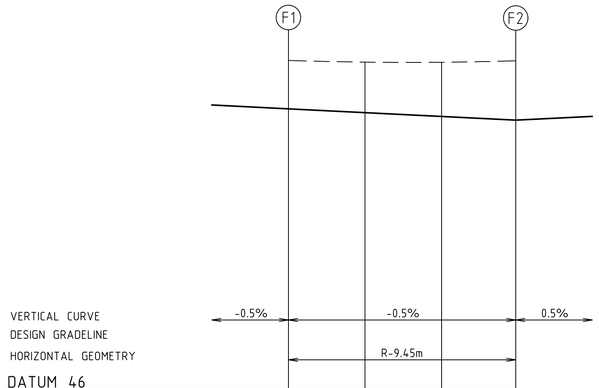
LIP LINE D



DATUM 46

DESIGN SURFACE LEVEL	47.839	47.804	47.785	47.738	47.688	47.671	47.637 47.637
EXISTING SURFACE LEVEL	48.135	48.114	48.106	48.091	48.075	48.068	48.045 48.045
CHAINAGE	0.000	3.711	5.000	7.422	10.000	11.133	14.844 14.844

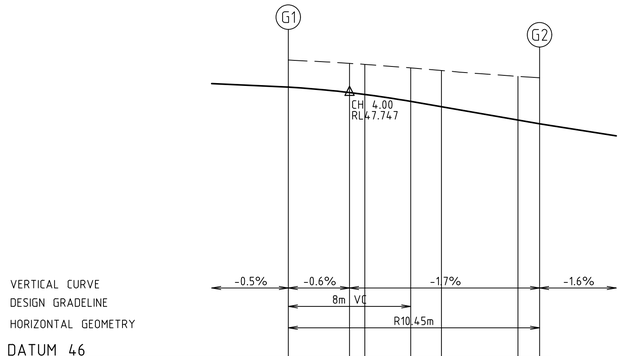
LIP LINE E



DATUM 46

DESIGN SURFACE LEVEL	47.839	47.814	47.789	47.764
EXISTING SURFACE LEVEL	48.154	48.143	48.142	48.151
CHAINAGE	0.000	5.000	10.000	14.844

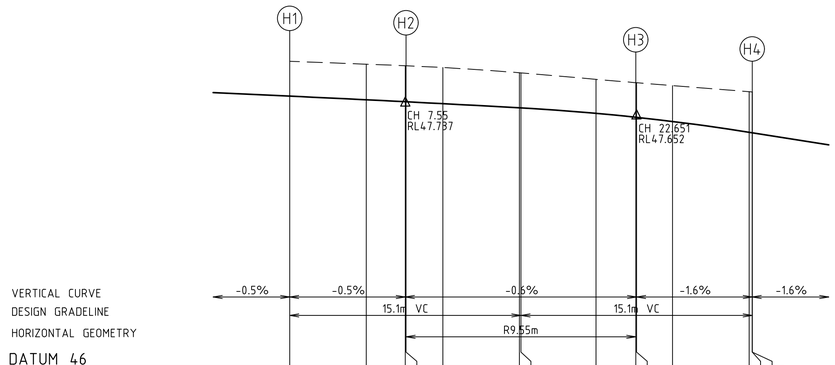
LIP LINE F



DATUM 46

DESIGN SURFACE LEVEL	47.774	47.736	47.724	47.678	47.643	47.557	47.532
EXISTING SURFACE LEVEL	47.948	47.927	47.920	47.897	47.880	47.842	47.832
CHAINAGE	0.000	4.000	5.000	8.000	10.000	15.000	16.415

LIP LINE G



DATUM 46

DESIGN SURFACE LEVEL	47.774	47.748	47.735 47.735	47.722	47.695 47.695	47.659	47.633 47.633	47.606	47.536 47.532	47.532
EXISTING SURFACE LEVEL	47.999	47.980	47.970 47.970	47.959	47.924 47.923	47.881	47.859 47.859	47.840	47.801 47.799	47.799
CHAINAGE	0.000	5.000	7.550 7.600	10.000	15.000 15.101	20.000	22.601 22.651	25.000	30.000 30.201	30.201

LIP LINE H

AS CONSTRUCTED

NOTES
1. CHAINAGES REFER TO LIP OF KERB
2. REFER TO SHEET No. 5 FOR SETOUT INFORMATION.

COUNCIL REF. No. 1847/16 - 6215/12

0.4 0 0.4 0.8 1.2 1.6 2 — V 1:20
4 0 4 8 12 16 20 — H 1:200
ALL LENGTHS ARE IN METRES A1

VER.	DATE	REMARKS
A	17-02-2017	ISSUED FOR CONSTRUCTION

AMENDMENTS

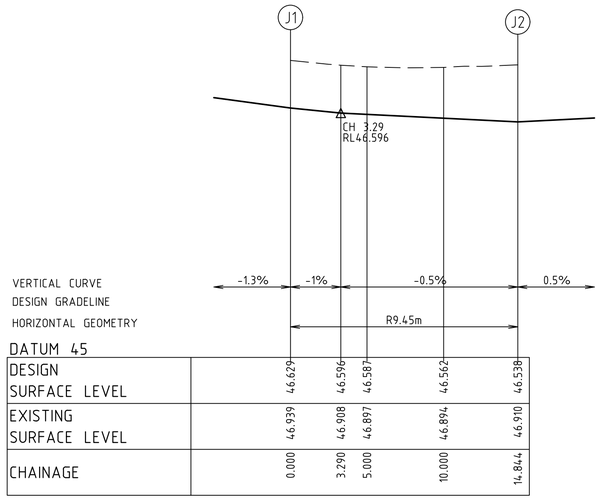
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

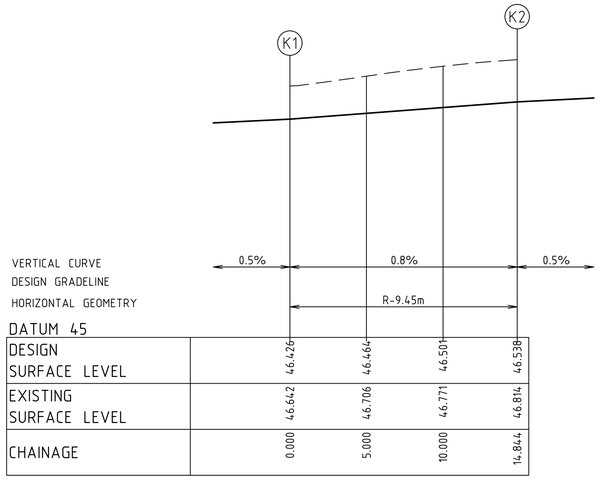
RIVERDALE VILLAGE
STAGE 8

MUNICIPALITY WYNDHAM
REFERENCE 8554 E/08

SCALE AS SHOWN | DATUM AHD | DATE SEP' 16 | SHEET 4 OF 13 | A



LIP LINE J



LIP LINE K

KERB RETURN SETOUT:

RETURN C

Point no	Easting	Northing	RL
C1	454. 714	683. 175	47. 453
C2	446. 765	672. 432	47. 251

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL
C1 - C2	90. 000	9. 450	14. 844	2. 768	2. 049	3. 616	3. 066	3. 711	47. 347

RETURN D

Point no	Easting	Northing	RL
D1	461. 341	684. 166	47. 453
D2	472. 084	676. 216	47. 379

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL
D1 - D2	90. 000	9. 450	14. 844	2. 768	2. 048	3. 616	3. 066	3. 711	47. 416

RETURN E

Point no	Easting	Northing	RL
E1	531. 066	694. 586	47. 839
E2	523. 117	683. 843	47. 637

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL
E1 - E2	90. 000	9. 450	14. 844	2. 768	2. 049	3. 616	3. 066	3. 711	47. 738

RETURN F

Point no	Easting	Northing	RL
F1	537. 693	695. 576	47. 839
F2	548. 436	687. 627	47. 764

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL
F1 - F2	90. 000	9. 450	14. 844	2. 768	2. 049	3. 616	3. 066	3. 711	47. 802

RETURN G

Point no	Easting	Northing	RL
G1	569. 602	684. 016	47. 771
G2	581. 482	675. 225	47. 532

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL
G1 - G2	90. 000	10. 450	16. 415	3. 061	2. 265	3. 999	3. 390	4. 104	47. 675

RETURN H

Point no	Easting	Northing	RL
H1	568. 611	690. 642	47. 771
H2	576. 128	691. 766	47. 735
H3	586. 985	683. 732	47. 633
H4	588. 108	676. 216	47. 532

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL
H2 - H3	90. 000	9. 550	15. 001	2. 797	2. 070	3. 655	3. 098	3. 750	47. 695

RETURN J

Point no	Easting	Northing	RL
J1	588. 783	626. 368	46. 629
J2	580. 834	615. 625	46. 538

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL
J1 - J2	90. 000	9. 450	14. 844	2. 768	2. 049	3. 616	3. 066	3. 711	46. 575

RETURN K

Point no	Easting	Northing	RL
K1	592. 567	601. 049	46. 426
K2	581. 824	608. 999	46. 538

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL
K1 - K2	90. 000	9. 450	14. 844	2. 768	2. 049	3. 616	3. 066	3. 711	46. 482

DESIGN CENTRELINE SETOUT:

FERGUSON DRIVE

	Chainage	Easting	Northing	Bearing	Radius
Intersection Point	0. 000	376. 199	658. 499	81°29'60. 00"	
Straight	100. 000	475. 101	673. 280	81°29'60. 00"	
Tangent-Curve	198. 850	572. 865	687. 891	81°29'60. 00"	10. 000
Curve-Tangent	214. 558	584. 233	679. 479	171°30'00. 00"	10. 000
Straight	300. 000	596. 862	594. 975	171°30'00. 00"	
Tangent-Curve	346. 558	603. 744	548. 928	171°30'00. 00"	10. 000
Curve-Tangent	362. 266	595. 332	537. 560	261°30'00. 73"	10. 000
Straight	400. 000	558. 013	531. 983	261°30'00. 73"	
Straight	500. 000	459. 111	517. 202	261°30'00. 73"	
Intersection Point	560. 616	399. 161	508. 243	261°30'00. 73"	

IP 1

coordinate = 376. 1993 658. 4990
chainage = 0. 0000

IP 2

coordinate = 582. 7551 689. 3689
centre = 574. 3430 678. 0007
radius = 10. 0000
length = 15. 7080
intersect angle = 90°00'00"

start tangent

coordinate = 572. 8649 687. 8908
length = 10. 0000
chainage = 198. 8498
bearing = 81°29'60"

end tangent

coordinate = 584. 2332 679. 4788
length = 10. 0000
chainage = 214. 5578
bearing = 171°30'00"

IP 3

coordinate = 605. 2222 539. 0381
centre = 593. 8539 547. 4502
radius = 10. 0000
length = 15. 7080
intersect angle = 90°00'01"

start tangent

coordinate = 603. 7441 548. 9283
length = 10. 0000
chainage = 346. 5581
bearing = 171°30'00"

end tangent

coordinate = 595. 3320 537. 5601
length = 10. 0000
chainage = 362. 2661
bearing = 261°30'01"

IP 4

coordinate = 399. 1606 508. 2428
chainage = 560. 6161

EUGENE STREET

	Chainage	Easting	Northing	Bearing	Radius
Intersection Point	0. 000	593. 989	614. 204	261°30'00. 06"	
Straight	100. 000	495. 087	599. 423	261°30'00. 06"	
Straight	200. 000	396. 185	584. 642	261°30'00. 06"	
Intersection Point	208. 849	387. 433	583. 334	261°30'00. 06"	

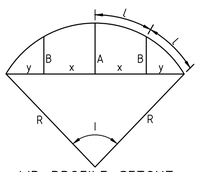
IP 1

coordinate = 593. 9886 614. 2037
chainage = 0. 0000

IP 2

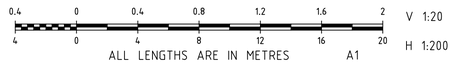
coordinate = 387. 4332 583. 3339
chainage = 208. 8494

AS CONSTRUCTED



LIP PROFILE SETOUT

COUNCIL REF. No. 1847/16 - 6215/12



AMENDMENTS

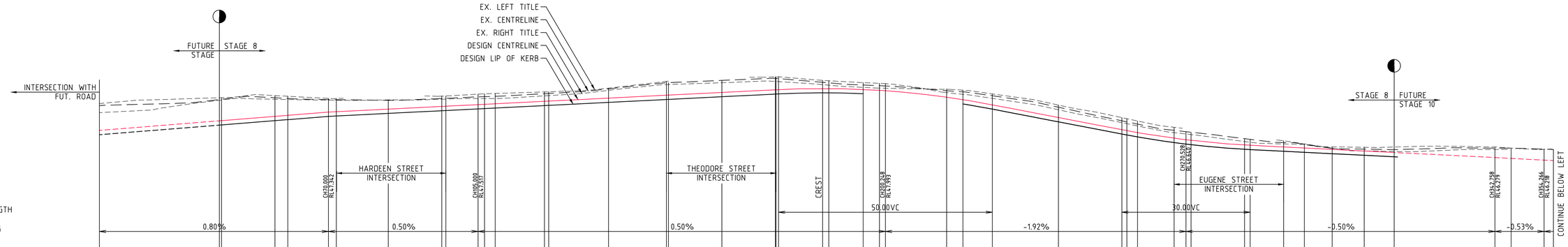
VER.	DATE	REMARKS
A	17-02-2017	ISSUED FOR CONSTRUCTION

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. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE STAGE 8

MUNICIPALITY WYNDHAM
REFERENCE 8554 E/08
SCALE NOT TO SCALE
DATUM AHD
DATE SEP' 16
SHEET 5 OF 13
A



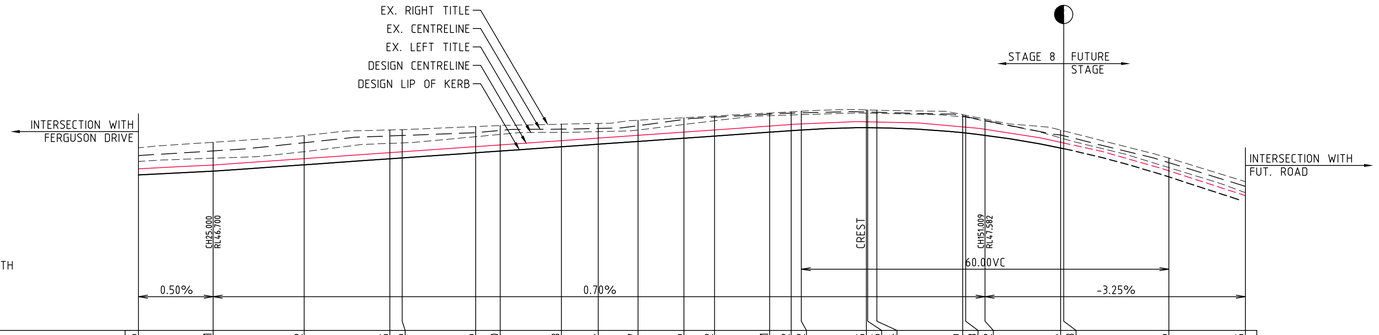
DESIGN CL VC LENGTH

DESIGN CL GRADING

DATUM 44

| | | |

AS CONSTRUCTED



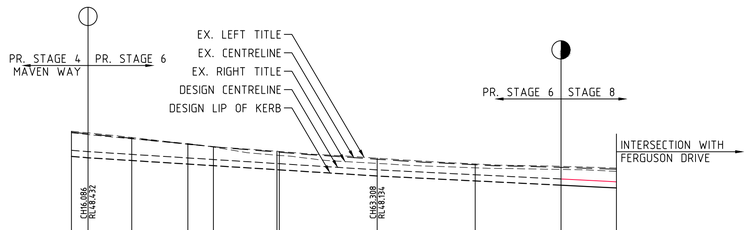
DESIGN CL VC LENGTH

DESIGN CL GRADING

DATUM 44

ES LEFT TITLE BDY	46.76	46.81	46.92	47.05	47.06	47.16	47.20	47.23	47.24	47.27	47.36	47.42	47.51	47.52	47.52	47.55	47.55	47.54	47.49	47.48	47.42	47.14	47.13	46.66	46.25
FS LEFT TITLE BDY	46.80	46.86	46.96	47.06	47.07	47.16	47.19	47.26	47.30	47.34	47.40	47.43	47.50	47.52	47.53	47.57	47.57	47.57	47.49	47.48	47.44	47.24	47.23	46.77	
LEFT LIP OF KERB	46.54	46.60	46.70	46.80	46.81	46.90	46.93	47.00	47.04	47.08	47.14	47.17	47.24	47.26	47.27	47.31	47.31	47.31	47.23	47.22	47.18	46.98	46.97	46.51	
DESIGN CL	46.64	46.70	46.80	46.90	46.92	47.00	47.03	47.10	47.14	47.19	47.24	47.27	47.34	47.36	47.37	47.41	47.41	47.41	47.33	47.32	47.29	47.08	47.07	46.61	46.20
RIGHT LIP OF KERB	46.54	46.60	46.70	46.80	46.81	46.90	46.93	47.00	47.04	47.08	47.14	47.17	47.24	47.26	47.27	47.31	47.31	47.31	47.23	47.22	47.18	46.98	46.97	46.51	
FS RIGHT TITLE BDY	46.80	46.86	46.96	47.06	47.07	47.16	47.19	47.26	47.30	47.34	47.40	47.43	47.50	47.52	47.53	47.57	47.57	47.57	47.49	47.48	47.44	47.24	47.23	46.77	
ES RIGHT TITLE BDY	46.98	47.07	47.18	47.27	47.28	47.33	47.34	47.37	47.38	47.43	47.47	47.50	47.55	47.57	47.58	47.60	47.60	47.59	47.52	47.51	47.45	47.27	47.26	46.81	46.43
CHAINAGE DESIGN CL	12.80	25.00	39.85	53.85	55.85	67.85	71.85	81.85	87.85	94.35	101.85	106.85	115.85	119.35	121.01	131.63	131.85	133.35	147.35	147.85	151.01	163.35	163.85	181.01	193.50
	TP																								

EUGENE STREET LONGITUDINAL SECTION



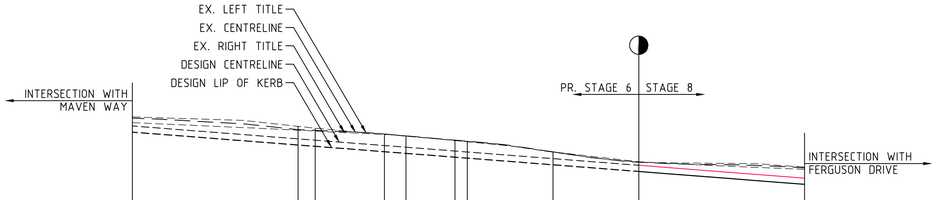
DESIGN CL VC LENGTH

DESIGN CL GRADING

DATUM 46

ES LEFT TITLE BDY	48.74	48.71	48.64	48.55	48.51	48.44	48.44	48.33	48.23	48.19	48.16
FS LEFT TITLE BDY	48.56	48.54	48.49	48.43	48.41	48.34	48.34	48.24	48.16	48.09	48.04
LEFT LIP OF KERB	48.35	48.33	48.29	48.23	48.20	48.14	48.13	48.03	47.95	47.88	47.84
DESIGN CL	48.45	48.43	48.39	48.33	48.30	48.24	48.24	48.13	48.05	47.98	47.94
RIGHT LIP OF KERB	48.35	48.33	48.29	48.23	48.20	48.14	48.13	48.03	47.95	47.88	47.84
FS RIGHT TITLE BDY	48.61	48.59	48.55	48.49	48.46	48.40	48.39	48.29	48.21	48.14	48.10
ES RIGHT TITLE BDY	48.77	48.74	48.66	48.56	48.51	48.37	48.37	48.24	48.17	48.14	48.11
CHAINAGE DESIGN CL	13.39	16.09	23.24	32.40	36.56	46.93	47.31	63.31	79.31	93.31	102.36
				TP		TP					TP

THEODORE STREET LONGITUDINAL SECTION



DESIGN CL VC LENGTH

DESIGN CL GRADING

DATUM 45

ES LEFT TITLE BDY	48.55	48.40	48.37	48.27	48.24	48.17	48.15	47.98	47.82	47.73
FS LEFT TITLE BDY	48.56	48.35	48.33	48.25	48.22	48.16	48.14	48.03	47.92	47.71
LEFT LIP OF KERB	48.30	48.09	48.07	47.99	47.96	47.90	47.88	47.77	47.66	47.45
DESIGN CL	48.41	48.20	48.17	48.09	48.06	48.00	47.98	47.87	47.76	47.55
RIGHT LIP OF KERB	48.30	48.09	48.07	47.99	47.96	47.90	47.88	47.77	47.66	47.45
FS RIGHT TITLE BDY	48.56	48.35	48.33	48.25	48.22	48.16	48.14	48.03	47.92	47.71
ES RIGHT TITLE BDY	48.46	48.34	48.32	48.27	48.24	48.17	48.15	47.98	47.82	47.70
CHAINAGE DESIGN CL	12.80	39.85	42.64	53.96	57.47	65.47	67.47	81.47	95.47	122.53
	TP	TP		TP						TP

HARDEEN STREET LONGITUDINAL SECTION

COUNCIL REF. No. 1847/16 - 6215/12

1 0 1 2 3 4 5
10 0 10 20 30 40 50
ALL LENGTHS ARE IN METRES A1

V 1:50
H 1:500

VER.	DATE	REMARKS
A	17-02-2017	ISSUED FOR CONSTRUCTION

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. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE STAGE 8

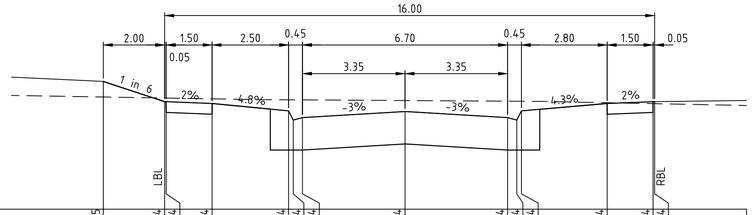
MUNICIPALITY: WYNDHAM

REFERENCE: 8554 E/08

SCALE AS SHOWN | DATUM AHD | DATE SEP' 16

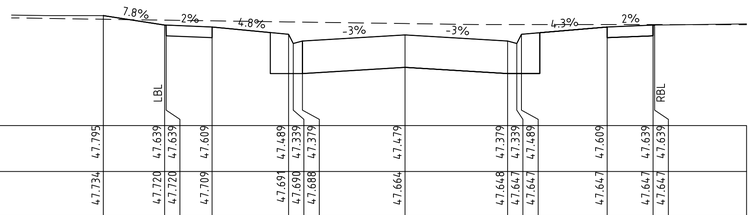
SHEET 7 OF 13 | A

AS CONSTRUCTED



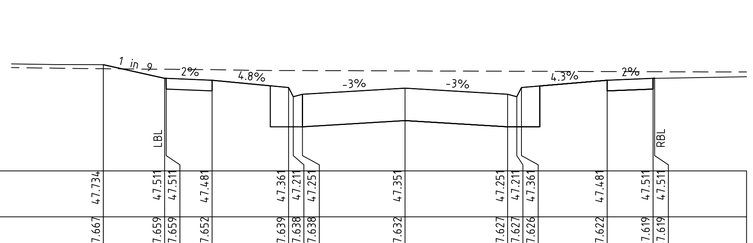
DATUM 46													
DESIGN SURFACE LEVEL	48.085	47.754	47.754	47.724	47.604	47.454	47.494	47.594	47.494	47.454	47.604	47.724	47.754	47.754
EXISTING SURFACE LEVEL	47.831	47.814	47.813	47.801	47.785	47.784	47.783	47.773	47.762	47.761	47.761	47.737	47.722	47.722
DESIGN OFFSET	-9.850	-7.850	-7.800	-6.300	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800	6.600	8.100	8.150

CH 120.500



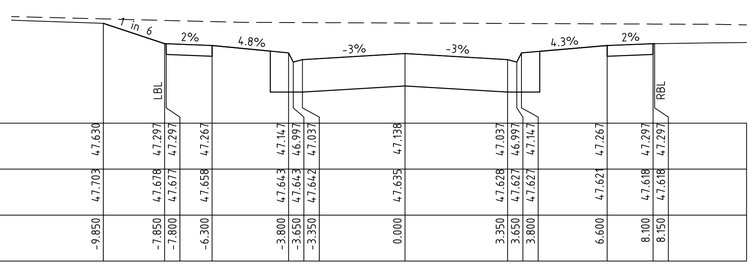
DATUM 46													
DESIGN SURFACE LEVEL	47.795	47.639	47.639	47.609	47.489	47.339	47.379	47.479	47.379	47.339	47.489	47.609	47.639	47.639
EXISTING SURFACE LEVEL	47.734	47.720	47.720	47.709	47.691	47.690	47.688	47.664	47.648	47.647	47.647	47.647	47.647	47.647
DESIGN OFFSET	-9.850	-7.850	-7.800	-6.300	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800	6.600	8.100	8.150

CH 97.450



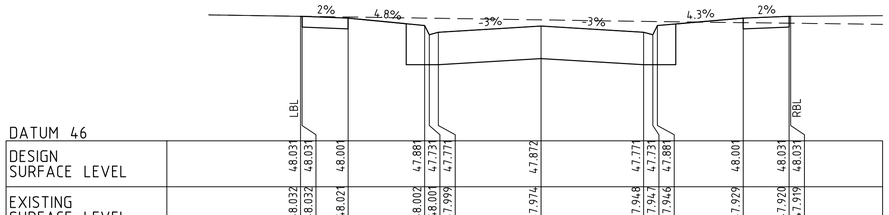
DATUM 46													
DESIGN SURFACE LEVEL	47.734	47.511	47.511	47.481	47.361	47.211	47.251	47.351	47.251	47.211	47.361	47.481	47.511	47.511
EXISTING SURFACE LEVEL	47.667	47.659	47.659	47.652	47.639	47.638	47.638	47.632	47.627	47.627	47.626	47.622	47.619	47.619
DESIGN OFFSET	-9.850	-7.850	-7.800	-6.300	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800	6.600	8.100	8.150

CH 71.850



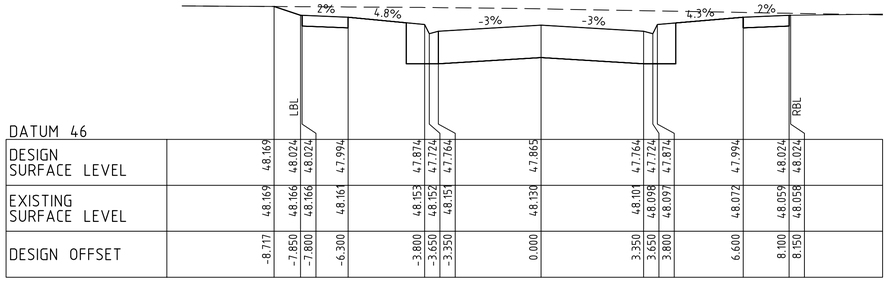
DATUM 46													
DESIGN SURFACE LEVEL	47.630	47.297	47.297	47.267	47.147	46.997	47.037	47.138	47.037	46.997	47.147	47.267	47.297	47.297
EXISTING SURFACE LEVEL	47.703	47.678	47.677	47.658	47.643	47.643	47.642	47.635	47.628	47.627	47.627	47.622	47.618	47.618
DESIGN OFFSET	-9.850	-7.850	-7.800	-6.300	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800	6.600	8.100	8.150

CH 44.500



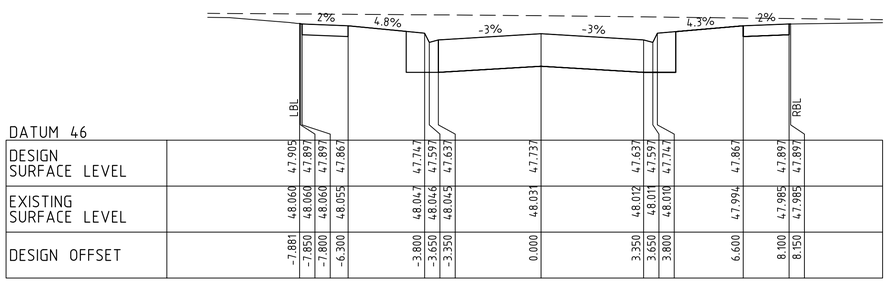
DATUM 46													
DESIGN SURFACE LEVEL	48.031	48.031	48.001	47.881	47.733	47.771	47.872	47.771	47.733	47.881	48.001	48.031	48.031
EXISTING SURFACE LEVEL	48.032	48.032	48.021	48.002	48.001	47.999	47.974	47.948	47.947	47.946	47.929	47.920	47.919
DESIGN OFFSET	-7.850	-7.800	-6.300	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800	6.600	8.100	8.150

CH 195.050



DATUM 46													
DESIGN SURFACE LEVEL	48.169	48.024	48.024	47.994	47.874	47.724	47.764	47.865	47.764	47.724	47.874	47.994	48.024	48.024
EXISTING SURFACE LEVEL	48.169	48.166	48.166	48.161	48.153	48.152	48.151	48.130	48.101	48.098	48.097	48.072	48.059	48.058
DESIGN OFFSET	-8.717	-7.850	-7.800	-6.300	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800	6.600	8.100	8.150

CH 174.650



DATUM 46													
DESIGN SURFACE LEVEL	47.905	47.897	47.897	47.867	47.747	47.597	47.637	47.737	47.637	47.597	47.747	47.867	47.897	47.897
EXISTING SURFACE LEVEL	48.060	48.060	48.060	48.055	48.047	48.046	48.045	48.031	48.012	48.011	48.010	47.994	47.985	47.985
DESIGN OFFSET	-7.881	-7.850	-7.800	-6.300	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800	6.600	8.100	8.150

CH 149.050

FERGUSON DRIVE CROSS SECTIONS -1

COUNCIL REF. No. 1847/16 - 6215/12

1 0 1 2 3 4 5 — V 1:50

2 0 2 4 6 8 10 — H 1:100

ALL LENGTHS ARE IN METRES A1

AMENDMENTS			
A	17-02-2017	ISSUED FOR CONSTRUCTION	
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. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

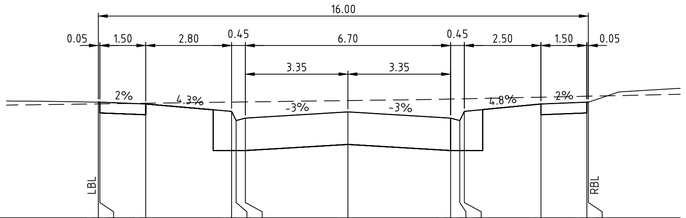
RIVERDALE VILLAGE STAGE 8

MUNICIPALITY: WYNDHAM

REFERENCE: 8554 E/08

SCALE AS SHOWN | DATUM AHD | DATE SEP' 16

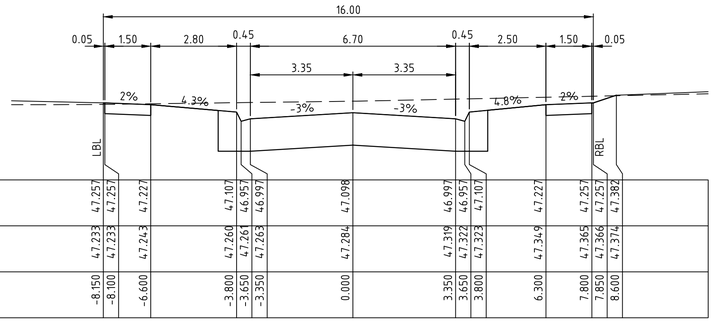
SHEET 8 OF 13 | A


16.00
0.05
1.50
2.80
0.45
6.70
0.45
2.50
1.50
0.05
3.35
3.35
2%
4.3%
-3%
-3%
4.8%
2%
LBL
RBL

DATUM 45

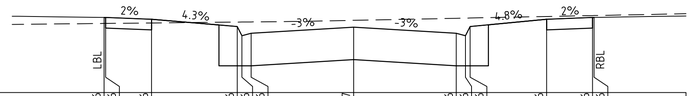
| | | |

AS CONSTRUCTED



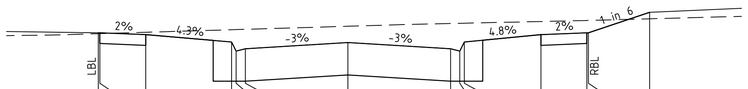
DATUM 46																									
DESIGN SURFACE LEVEL	47.257	47.257	47.227	47.107	46.997	47.098	46.997	46.957	47.107	47.227	47.257	47.257	47.382
EXISTING SURFACE LEVEL	47.233	47.233	47.243	47.260	47.261	47.263	47.284	47.319	47.322	47.323	47.349	47.365	47.368	47.374
DESIGN OFFSET	-8.150	-8.100	-6.600	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850	8.600

CH 81.850



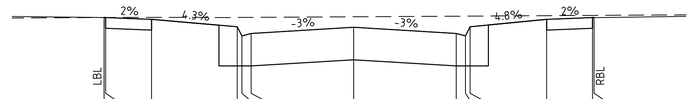
DATUM 46																									
DESIGN SURFACE LEVEL	47.226	47.226	47.196	47.076	46.926	46.966	47.067	46.966	46.926	47.076	47.196	47.226	47.226
EXISTING SURFACE LEVEL	47.127	47.128	47.135	47.150	47.151	47.152	47.178	47.212	47.215	47.216	47.241	47.256	47.256
DESIGN OFFSET	-8.150	-8.100	-6.600	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850

CH 163.850



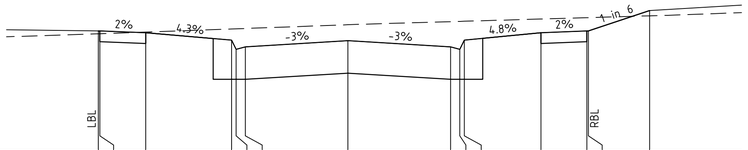
DATUM 46													
DESIGN SURFACE LEVEL	47.075	47.075	47.045	46.925	46.775	46.815	46.915	46.815	46.775	46.925	47.045	47.075	47.075	47.408
EXISTING SURFACE LEVEL	47.060	47.061	47.083	47.125	47.127	47.132	47.181	47.226	47.229	47.231	47.259	47.276	47.277	47.303
DESIGN OFFSET	-8.150	-8.100	-6.600	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850	9.850

CH 55.850



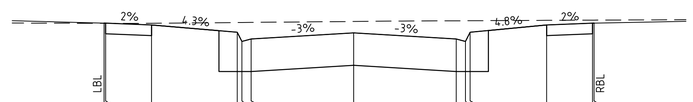
DATUM 46													
DESIGN SURFACE LEVEL	47.487	47.487	47.457	47.337	47.187	47.227	47.328	47.227	47.187	47.337	47.457	47.487	47.487
EXISTING SURFACE LEVEL	47.488	47.488	47.489	47.488	47.489	47.490	47.499	47.509	47.510	47.510	47.518	47.522	47.522
DESIGN OFFSET	-8.150	-8.100	-6.600	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850

CH 147.350



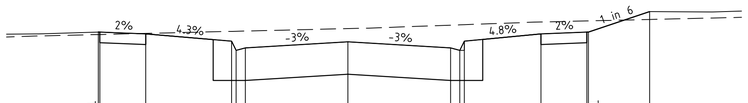
DATUM 45													
DESIGN SURFACE LEVEL	46.963	46.963	46.933	46.813	46.663	46.703	46.803	46.703	46.663	46.813	46.933	46.963	46.963	47.296
EXISTING SURFACE LEVEL	46.916	46.917	46.944	46.995	46.998	47.003	47.064	47.114	47.119	47.121	47.158	47.180	47.181	47.209
DESIGN OFFSET	-8.150	-8.100	-6.600	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850	9.850

CH 39.850



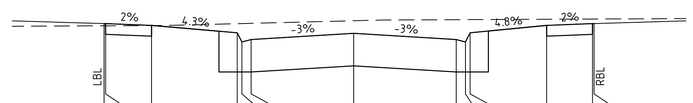
DATUM 46													
DESIGN SURFACE LEVEL	47.520	47.520	47.490	47.370	47.220	47.260	47.360	47.260	47.220	47.370	47.490	47.520	47.520
EXISTING SURFACE LEVEL	47.516	47.516	47.516	47.529	47.530	47.531	47.546	47.558	47.558	47.559	47.564	47.568	47.568
DESIGN OFFSET	-8.150	-8.100	-6.600	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850

CH 119.350



DATUM 45													
DESIGN SURFACE LEVEL	46.798	46.798	46.768	46.648	46.498	46.538	46.639	46.538	46.498	46.648	46.768	46.798	46.798	47.131
EXISTING SURFACE LEVEL	46.757	46.758	46.776	46.809	46.811	46.814	46.854	46.910	46.916	46.918	46.962	46.979	46.980	47.003
DESIGN OFFSET	-8.150	-8.100	-6.600	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850	9.850

CH 12.800



DATUM 46													
DESIGN SURFACE LEVEL	47.397	47.397	47.367	47.247	47.097	47.137	47.238	47.137	47.097	47.247	47.367	47.397	47.397
EXISTING SURFACE LEVEL	47.361	47.361	47.365	47.395	47.397	47.401	47.444	47.461	47.462	47.462	47.468	47.471	47.472
DESIGN OFFSET	-8.150	-8.100	-6.600	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850

CH 101.850

EUGENE STREET CROSS SECTIONS

COUNCIL REF. No. 1847/16 - 6215/12

1 0 1 2 3 4 5 V 1:50
2 0 2 4 6 8 10 H 1:100
ALL LENGTHS ARE IN METRES A1

VER.	DATE	REMARKS
A	17-02-2017	ISSUED FOR CONSTRUCTION

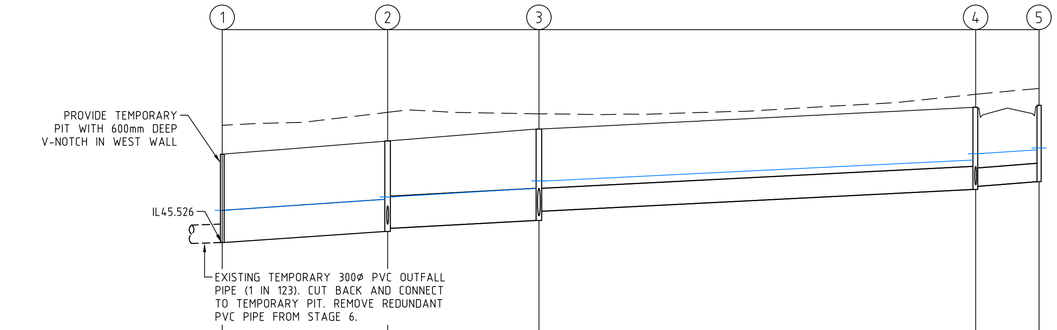
AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

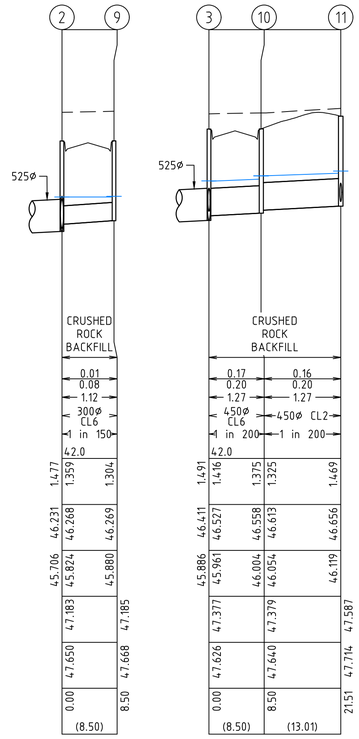
MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE STAGE 8

MUNICIPALITY: WYNDHAM
REFERENCE: 8554 E/08
SCALE: AS SHOWN | DATUM: AHD | DATE: SEP' 16
SHEET 10 OF 13 A

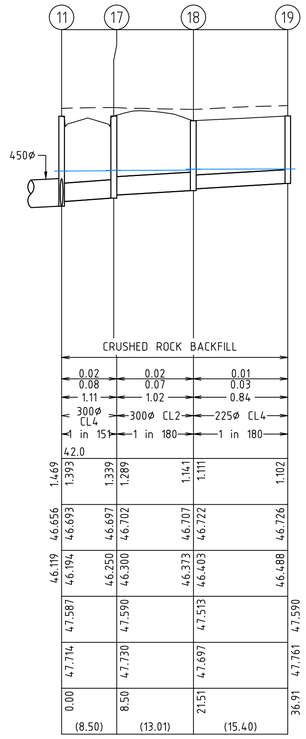


	1	2	3	4	5
DESIGN FLOW (m?/s)	0.32	0.31	0.12	0.08	
PIPE CAPACITY (m3/s)	0.35	0.31	0.12	0.08	
AT GRADE VELOCITY (m/s)	1.62	1.44	1.12	1.18	
PIPE SIZE (mm)	525Ø CL4	525Ø CL4	375Ø CL3	300Ø CL6	
PIPE GRADE	1 in 150	1 in 190	1 in 200	1 in 135	
DATUM RL	42.0				
DEPTH TO INVERT	1.441 / 1.441	1.477 / 1.427	1.491 / 1.341	1.341 / 1.291	1.246
HYDRAULIC GRADE LINE	46.051	46.231 / 46.268	46.411 / 46.527	46.872 / 46.975	47.038
PIPE INVERT LEVELS	45.526 / 45.526	45.706 / 45.756	45.886 / 46.036	46.392 / 46.442	46.519
DESIGN SURFACE LEVELS	46.967	47.183	47.377	47.733	47.765
EXISTING SURFACE LEVELS	47.438	47.650	47.626	47.944	48.041
CHAINAGE	0.00	27.00	51.70	123.00	133.35
(Reach Length)	(27.00)	(24.70)	(71.30)	(10.35)	

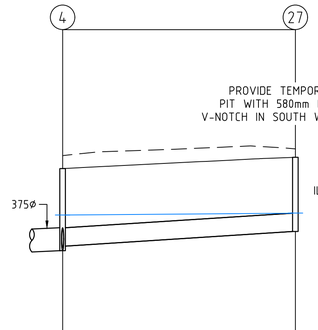


	2	9
DESIGN FLOW (m?/s)	0.01	
PIPE CAPACITY (m3/s)	0.08	
AT GRADE VELOCITY (m/s)	1.12	
PIPE SIZE (mm)	300Ø CL6	
PIPE GRADE	1 in 150	
DATUM RL	42.0	
DEPTH TO INVERT	1.477 / 1.359	1.304
HYDRAULIC GRADE LINE	46.231 / 46.268	46.269
PIPE INVERT LEVELS	45.706 / 45.824	45.880
DESIGN SURFACE LEVELS	47.183	47.185
EXISTING SURFACE LEVELS	47.650	47.668
CHAINAGE	0.00	8.50
(Reach Length)	(8.50)	

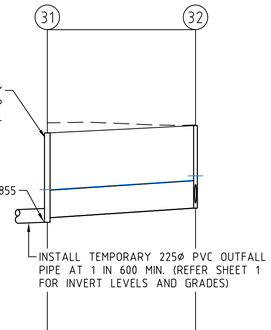
	3	10	11
DESIGN FLOW (m?/s)	0.17	0.16	
PIPE CAPACITY (m3/s)	0.20	0.20	
AT GRADE VELOCITY (m/s)	1.27	1.27	
PIPE SIZE (mm)	450Ø CL6	450Ø CL2	
PIPE GRADE	1 in 200	1 in 200	
DATUM RL	42.0		
DEPTH TO INVERT	1.491 / 1.416	1.375	1.325 / 1.469
HYDRAULIC GRADE LINE	46.411 / 46.527	46.558	46.613 / 46.656
PIPE INVERT LEVELS	45.886 / 45.961	46.004	46.054 / 46.119
DESIGN SURFACE LEVELS	47.377	47.379	47.587
EXISTING SURFACE LEVELS	47.626	47.640	47.714
CHAINAGE	0.00	8.50	21.51
(Reach Length)	(8.50)	(13.01)	



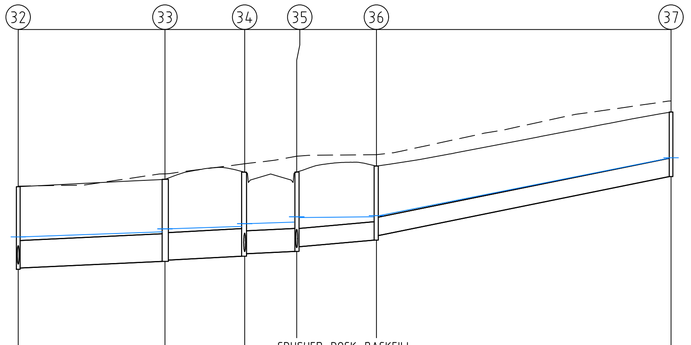
	11	17	18	19
DESIGN FLOW (m?/s)	0.02	0.02	0.01	
PIPE CAPACITY (m3/s)	0.08	0.07	0.03	
AT GRADE VELOCITY (m/s)	1.11	1.02	0.84	
PIPE SIZE (mm)	300Ø CL4	300Ø CL2	225Ø CL4	
PIPE GRADE	1 in 151	1 in 180	1 in 180	
DATUM RL	42.0			
DEPTH TO INVERT	1.469 / 1.393	1.339 / 1.289	1.141 / 1.111	1.102
HYDRAULIC GRADE LINE	46.656 / 46.693	46.697 / 46.702	46.707 / 46.722	46.726
PIPE INVERT LEVELS	46.119 / 46.194	46.250 / 46.300	46.373 / 46.403	46.488
DESIGN SURFACE LEVELS	47.587	47.590	47.513	47.590
EXISTING SURFACE LEVELS	47.714	47.730	47.697	47.761
CHAINAGE	0.00	8.50	21.51	36.91
(Reach Length)	(8.50)	(13.01)	(15.40)	



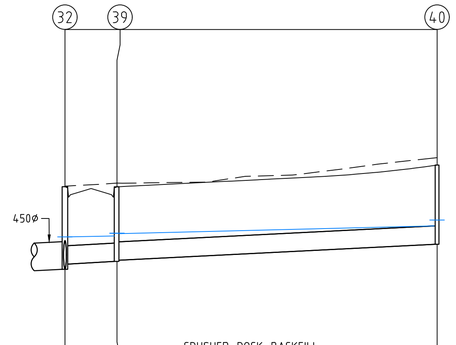
	4	27
DESIGN FLOW (m?/s)	0.02	
PIPE CAPACITY (m3/s)	0.08	
AT GRADE VELOCITY (m/s)	1.08	
PIPE SIZE (mm)	300Ø CL4	
PIPE GRADE	1 in 160	
DATUM RL	43.0	
DEPTH TO INVERT	1.341 / 1.266	1.211
HYDRAULIC GRADE LINE	46.872 / 46.975	47.005
PIPE INVERT LEVELS	46.392 / 46.467	46.705
DESIGN SURFACE LEVELS	47.733	47.916
EXISTING SURFACE LEVELS	47.944	48.053
CHAINAGE	0.00	38.00
(Reach Length)	(38.00)	



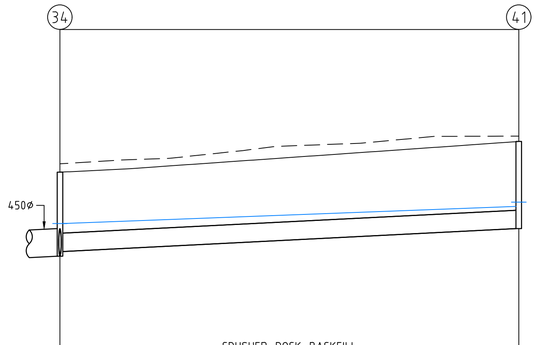
	31	32
DESIGN FLOW (m?/s)	0.23	
PIPE CAPACITY (m3/s)	0.23	
AT GRADE VELOCITY (m/s)	1.44	
PIPE SIZE (mm)	450Ø CL4	
PIPE GRADE	1 in 155	
DATUM RL	41.0	
DEPTH TO INVERT	1.458 / 1.383	1.348
HYDRAULIC GRADE LINE	45.390	45.542
PIPE INVERT LEVELS	44.855 / 44.930	45.086
DESIGN SURFACE LEVELS	46.313	46.434
EXISTING SURFACE LEVELS	46.480	46.443
CHAINAGE	0.00	24.20
(Reach Length)	(24.20)	



	32	33	34	35	36	37
DESIGN FLOW (m?/s)	0.17	0.16	0.10	0.03	0.02	
PIPE CAPACITY (m3/s)	0.19	0.20	0.12	0.09	0.14	
AT GRADE VELOCITY (m/s)	1.21	1.27	1.06	1.25	1.94	
PIPE SIZE (mm)	450Ø CL4	450Ø CL2	375Ø CL6	300Ø CL2	300Ø CL6	
PIPE GRADE	1 in 220	1 in 200	1 in 223	1 in 120	1 in 50	
DATUM RL	42.0					
DEPTH TO INVERT	1.348 / 1.328	1.339 / 1.319	1.371 / 1.331	1.295 / 1.220	1.208 / 1.133	1.055
HYDRAULIC GRADE LINE	45.542 / 45.614	45.698 / 45.745	45.787 / 45.830	45.857 / 45.931	45.943 / 45.962	46.898
PIPE INVERT LEVELS	45.086 / 45.106	45.215 / 45.235	45.300 / 45.340	45.378 / 45.453	45.561 / 45.636	46.598
DESIGN SURFACE LEVELS	46.434	46.554	46.671	46.673	46.769	47.653
EXISTING SURFACE LEVELS	46.443	46.644	46.807	46.931	46.956	47.833
CHAINAGE	24.20	48.15	61.16	69.66	82.67	130.77
(Reach Length)	(23.95)	(13.01)	(8.50)	(13.01)	(48.10)	



	32	39	40
DESIGN FLOW (m?/s)	0.04	0.03	
PIPE CAPACITY (m3/s)	0.07	0.07	
AT GRADE VELOCITY (m/s)	0.97	0.97	
PIPE SIZE (mm)	300Ø CL6	300Ø CL4	
PIPE GRADE	1 in 200	1 in 200	
DATUM RL	42.0		
DEPTH TO INVERT	1.348 / 1.263	1.218 / 1.198	1.292
HYDRAULIC GRADE LINE	45.542 / 45.614	45.629 / 45.667	45.795
PIPE INVERT LEVELS	45.086 / 45.171	45.214 / 45.234	45.495
DESIGN SURFACE LEVELS	46.434	46.432	46.787
EXISTING SURFACE LEVELS	46.443	46.492	46.909
CHAINAGE	0.00	8.50	60.75
(Reach Length)	(8.50)	(52.25)	



	34	41
DESIGN FLOW (m?/s)	0.06	
PIPE CAPACITY (m3/s)	0.07	
AT GRADE VELOCITY (m/s)	0.97	
PIPE SIZE (mm)	300Ø CL3	
PIPE GRADE	1 in 200	
DATUM RL	42.0	
DEPTH TO INVERT	1.371 / 1.296	1.422
HYDRAULIC GRADE LINE	45.789 / 45.833	46.113
PIPE INVERT LEVELS	45.300 / 45.375	45.749
DESIGN SURFACE LEVELS	46.671	47.172
EXISTING SURFACE LEVELS	46.807	47.260
CHAINAGE	0.00	74.90
(Reach Length)	(74.90)	

AS CONSTRUCTED

DRAINAGE LONGITUDINAL SECTIONS AND PIT SCHEDULE

COUNCIL REF. No. 1847/16 - 6215/12

1 0 1 2 3 4 5 — V 1:50
10 0 10 20 30 40 50 — H 1:500

ALL LENGTHS ARE IN METRES A1

AMENDMENTS			
A	17-02-2017	ISSUED FOR CONSTRUCTION	
VER.	DATE	REMARKS	

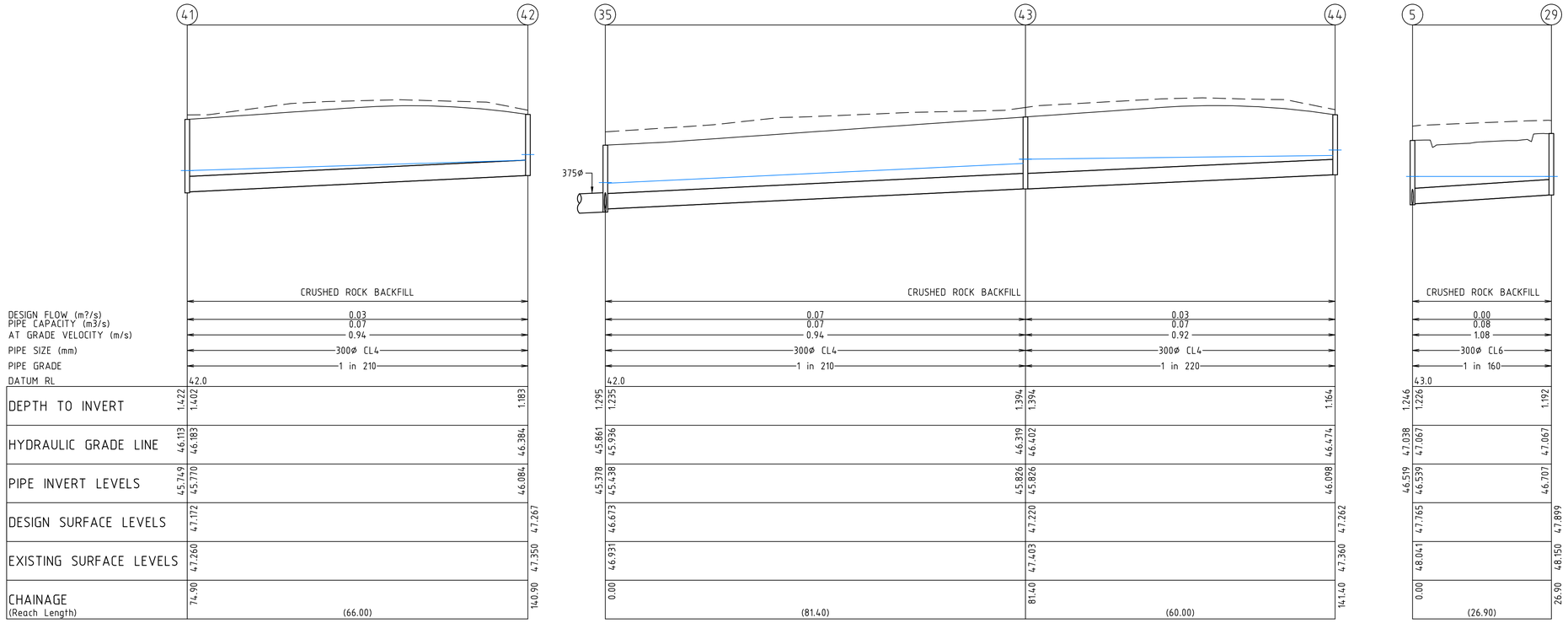
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE
STAGE 8

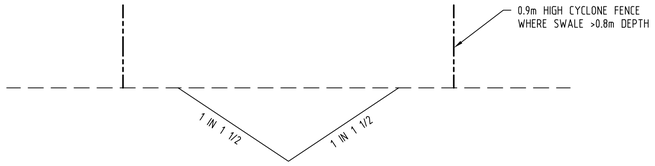
MUNICIPALITY WYNDHAM
REFERENCE 8554 E/08

SCALE AS SHOWN | DATUM AHD | DATE SEP' 16 | SHEET 12 OF 13 | A



PIT SCHEDULE

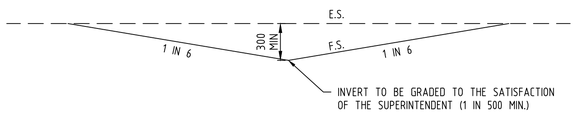
PIT No.	TYPE	INTERNAL		INLET DETAILS		OUTLET DETAILS		COVER LEVEL	DEPTH	STANDARD DRAWING	REMARKS
		W	L	DIA	LEVEL	DIA	LEVEL				
1	JUNCTION PIT - TEMP	600	900	525	45.526	Ex.300	45.526	46.967	1.441	EDCM 605	CONNECT TO EXISTING 300 DIA. PVC OUTFALL PIPE. PROVIDE 600MM DEEP V-NOTCH IN WEST WALL
2	GRATED ENTRY PIT	600	900	525 300	45.756 45.824	525	45.706	47.183	1.477	EDCM 601	
3	GRATED ENTRY PIT	600	900	375 450	46.036 45.961	525	45.886	47.377	1.491	EDCM 601	
4	GRATED ENTRY PIT	600	900	300 300	46.442 46.467	375	46.392	47.733	1.341	EDCM 601	
5	GRATED ENTRY PIT	600	900	Ex.300 300	46.539 46.539	300	46.519	47.765	1.246	EDCM 601	
9	GRATED ENTRY PIT	600	900			300	45.880	47.185	1.304	EDCM 601	
10	GRATED ENTRY PIT	600	900	450	46.054	450	46.004	47.379	1.375	EDCM 601	
11	GRATED ENTRY PIT	600	900	Ex.450 300	46.149 46.194	450	46.119	47.587	1.469	EDCM 601	
17	GRATED ENTRY PIT	600	900	300	46.300	300	46.250	47.590	1.339	EDCM 601	
18	GRATED ENTRY PIT	600	900	225	46.403	300	46.373	47.513	1.141	EDCM 601	
19	JUNCTION PIT	600	900			225	46.488	47.590	1.102	EDCM 605	
27	JUNCTION PIT	600	900			300	46.705	47.916	1.211	EDCM 605	
29	GRATED ENTRY PIT	600	900			300	46.707	47.899	1.192	EDCM 601	
31	GRATED ENTRY PIT	600	900	450	44.930	225	44.855	46.313	1.458	EDCM 601	PROVIDE TEMP. JUNCTION PIT COVER AND BLOCKOUT IN SOUTH WALL FOR FUT. 525 DIA. PROVIDE TEMP. 225 DIA. PVC OUTFALL PIPE. AND 580MM DEEP V-NOTCH IN SOUTH WALL
32	GRATED ENTRY PIT	600	900	450 300	45.106 45.171	450	45.086	46.434	1.348	EDCM 601	
33	JUNCTION PIT	600	900	450	45.235	450	45.215	46.554	1.339	EDCM 605	
34	GRATED ENTRY PIT	600	900	375 300	45.340 45.375	450	45.300	46.671	1.371	EDCM 601	
35	GRATED ENTRY PIT	600	900	300 300	45.453 45.438	375	45.378	46.673	1.295	EDCM 601	
36	GRATED ENTRY PIT	600	900	300	45.636	300	45.561	46.769	1.208	EDCM 601	
37	GRATED ENTRY PIT	600	900			300	46.598	47.653	1.055	EDCM 601	
39	GRATED ENTRY PIT	600	900	300	45.234	300	45.214	46.432	1.218	EDCM 601	
40	GRATED ENTRY PIT	600	900			300	45.495	46.787	1.292	EDCM 601	
41	GRATED ENTRY PIT	600	900	300	45.770	300	45.749	47.172	1.422	EDCM 601	
42	GRATED ENTRY PIT	600	900			300	46.084	47.267	1.183	EDCM 601	
43	GRATED ENTRY PIT	600	900	300	45.826	300	45.826	47.220	1.394	EDCM 601	
44	GRATED ENTRY PIT	600	900			300	46.098	47.262	1.164	EDCM 601	



SECTION X-X

TEMPORARY SWALE DRAIN (>0.8m DEPTH)

N.T.S.



SECTION Z-Z

TEMPORARY SWALE DRAIN (<0.8m DEPTH)

N.T.S.

DRAINAGE LONGITUDINAL SECTIONS AND PIT SCHEDULE

COUNCIL REF. No. 1847/16 - 6215/12

1 0 1 2 3 4 5 — V 1:50

10 0 10 20 30 40 50 — H 1:500

ALL LENGTHS ARE IN METRES A1

AS CONSTRUCTED

AMENDMENTS		
B	31-07-2017	ADD DRAIN PIT 5 TO PIT 29
A	17-02-2017	ISSUED FOR CONSTRUCTION
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. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE
STAGE 8

MUNICIPALITY WYNDHAM
REFERENCE 8554 E/08

SCALE AS SHOWN | DATUM AHD | DATE SEP' 16 | SHEET 13 OF 13 | B