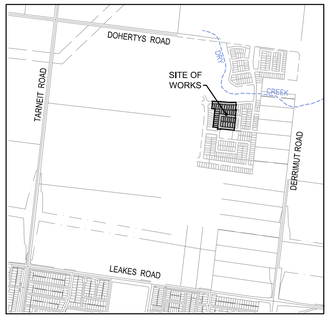
SERVICES OFFSETS AND LOCATIONS

STREET NAME	Rd.RESERVE	WATER		SEWER RISING MAIN	GAS	ELECTRICITY		FIBRE TO THE HOME		Bk. of KERB	JOINT TRENCHING
		DW	NDW			CABLES	POLES	FTTH CABLES	FTTH PITS		
UNITED AVENUE	16.00	3.20 S	2.70 S	-	2.25 S	2.60 N	1.00 BOK	1.85 N	1.85 S	4.35S / 4.05N	W & G, E & FTTH
FRESCO WAY	16.00	3.20 S	2.70 S	-	2.25 S	2.60 N	1.00 BOK	1.85 N	1.85 S	4.35S / 4.05N	W & G, E & FTTH
VESTIGE CIRCUIT (EAST-WEST)	16.00	3.20 S	2.70 S	-	2.25 S	2.60 N	1.00 BOK	1.85 N	1.85 S	4.35S / 4.05N	W & G, E & FTTH
VESTIGE CIRCUIT (NORTH-SOUTH)	16.00	3.20 W	2.70 W	-	2.25 W	2.60 E	1.00 BOK	1.85 E	1.85 W	4.35W / 4.05E	W & G, E & FTTH
EXTENDED DRIVEWAY	12.00	2.60 W	2.10 W	-	1.60 W	3.80 W	-	3.30 W	-	-	W & G, E & FTTH

North



LOCALITY PLAN
1:20,000

DRAWING INDEX

SHT. No.	VER	DESCRIPTION
1	P3	LAYOUT PLAN AND DETAILS
2	P2	NOTES AND TYPICAL CROSS SECTIONS
3	P2	INTERSECTION DETAILS
4	P2	FRESCO WAY - LONGITUDINAL & CROSS SECTIONS
5	P2	UNITED AVENUE - LONGITUDINAL & CROSS SECTIONS
6	P2	VESTIGE CIRCUIT - LONGITUDINAL & CROSS SECTIONS
7	P2	ACCESS LANEWAY - LONGITUDINAL & CROSS SECTIONS
8	P2	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1
9	P2	DRAINAGE LONGITUDINAL SECTIONS - SHEET 2
10	P2	DRAINAGE LONGITUDINAL SECTIONS - SHEET 3

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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.

ATTENTION TO CONTRACTOR

1. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM COORDINATES SHOWN.
2. CONTRACTOR TO ENSURE THAT THE SITE IS PEGGED AND OR SET OUT CHECKED BY THE LICENCED SURVEYOR RESPONSIBLE FOR CERTIFYING THE PLAN OF SUBDIVISION PRIOR TO UNDERGROUND INFRASTRUCTURE BEING INSTALLED.
3. WHERE CONCRETE WORKS ABUT A SEWER ACCESS CHAMBER SURROUND OR SIMILAR STRUCTURE, AN EXPANSION JOINT OF APPROVED MATERIAL SHALL BE PROVIDED BETWEEN THE TWO FACES.

PLAN
1:500

LENGTHS ARE IN METRES
10 5 0 10 20 40
SCALE 1 : 500 (A1)

PRELIMINARY

LEGEND

PROPOSED DRAINAGE
EXISTING DRAINAGE
DRAINAGE PIT/DIA./FLOW
PROPERTY INLET
HOUSE DRAIN
PROPOSED / EXIST SEWER
PROPOSED / EXIST WATER
FILL - PROP / EXIST
CUT - PROP / EXIST
LOT FALL
LOT LEVEL - F.S. / EXIST
F.S. AT BUILDING LINE
TOP / TOE OF BATTER
KERBING TYPE
LOT BDY CHAINAGE
LOTS EASEMENT
STREET SIGN
LINEMARKING
REMOVE EXIST TREE

VER	DATE	REMARKS

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.	360-F10	MUNICIPALITY	WYNDHAM
SURVEY	BPD	REFERENCE	8584 E/17
DESIGN	TBC		
DRAWN			
CHECKED		SHEET	1 OF 10 P3
SCALE	As Shown	DATUM	AHD
DATE	August'17		

ROTHWELL WEST
STAGE 17
LAYOUT PLAN AND DETAILS

Plotted: Aug 31, 2017 - 7:10am

NOTES

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH WYNDHAM CITY COUNCIL 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 THUS 31H ARE TO BE PROVIDED WITH A 100mm. DIA. HOUSE DRAIN PLACED 5.5m 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 (REFER DRAINAGE LONGITUDINAL SECTIONS FOR RELEVANT PIPE CLASS). ALL OTHER PIPES TO BE RRJ RCP CLASS 2.
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 SD6-10 (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 SERVICES OR HIS REPRESENTATIVE.
10. AGRICULTURAL PIPE DRAINS TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS. REFER TO MPA STANDARD DRAWING FIG 020.
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 PRIOR TO COMMENCEMENT OF WORKS.
12. BATTERS SHALL BE IN 1 IN 6 FOR CUT AND FILL UNLESS OTHERWISE SHOWN.
13. 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.
14. 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.
15. ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL RUBBISH AND SPOIL FROM THE SITE.
16. 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.
17. 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.
18. 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.
19. LOTS TO BE GRADED TO THE SATISFACTION OF THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE. ALL LOTS TO BE 1 IN 150 MINIMUM SLOPE FRONT TO REAR OR REAR TO FRONT.
20. 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.
21. 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.
22. 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.
23. 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.
24. TELSTRA/NBN Co TO BE NOTIFIED 7 DAYS PRIOR TO CONCRETE WORKS BEING PLACED.
25. ALL DRIVEWAYS TO BE OFFSET 0.75m FROM SIDE BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN.
26. TRANSITION FROM STANDARD TO ROLLOVER KERB AND CHANNEL AT SIDE ENTRY PITS.
27. B2 PROFILE KERB AND CHANNEL TO BE CONSTRUCTED IN ALL STREET UNLESS OTHERWISE SHOWN.
28. 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)
29. 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.
30. OFF-STREET PARKING TO BE IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SD11-6A
31. 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 MPA STANDARD DRAWING FIG 006.
32. CONCRETE BIN AREAS TO BE 125mm THICK CONCRETE PAVING TO BE REINFORCED WITH SL62 MESH AND MUST BE CONSTRUCTED WITH A 50mm UNDERLAYER OF 20mm COMPACTED CLASS 3 FCR IN ACCORDANCE WITH COUNCIL STANDARD DRAWING No SD2-1.
33. 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.
34. 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).
35. 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.
36. 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.
37. 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.
38. 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.
39. 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 COUNCIL STANDARD DRG SD11-8).
40. THE CONTRACTOR IS TO INSTALL BLUE RRPM'S ON THE ROAD CENTRLINE AND MARKER POSTS TO INDICATE THE LOCATION OF FIRE PLUGS OR HYDRANTS IN ACCORDANCE WITH WYNDHAM CITY COUNCIL'S STANDARD DRAWING SD11-11.
41. GAS AND WATER CONDUITS TO BE 50mm & 100mm DIAMETER RESPECTIVELY.
42. ALL SERVICE TRENCHES UNDER CONCRETE FOOTPATHS AND VEHICLE CROSSINGS TO BE BACKFILLED WITH CLASS 3 CRUSHED ROCK MATERIAL.
43. PROVIDE 1.8m HIGH PALING FENCE ALONG ANY COMMON BOUNDARY BETWEEN A LOT AND MUNICIPAL RESERVE. PALINGS TO BE ON THE RESERVE SIDE AND CONSTRUCTED IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SD11-5B.
44. PROVIDE TEMPORARY SAFETY BARRIER FENCE (FARM FENCE AS PER MW STD. DWG. 7251/4/203) ALONG EDGE OF OUTFALL DRAINS. SAFETY FENCE TO REMAIN UNTIL PERMANENT UNDERGROUND DRAINAGE IS INSTALLED.
45. PROVIDE TIMBER BOLLARDS AT 1.5m CTS AS PER COUNCIL STANDARD DRAWING SD10-2 AT A 0.25m OFFSET FROM THE RESERVE TITLE BOUNDARY.

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3. WHERE CONCRETE WORKS ABUT A SEWER ACCESS CHAMBER SURROUND OR SIMILAR STRUCTURE, AN EXPANSION JOINT OF APPROVED MATERIAL SHALL BE PROVIDED BETWEEN THE TWO FACES.

PAVEMENT COMPOSITION (Stage 17)

ACCESS PLACE 'A' - VESTIGE CIRCUIT (Ch274.17-Ch373.77)

WEARING COURSE	30mm	SIZE 10mm TYPE L CLASS 320 ASPHALT.
STRUCTURAL COURSE	30mm	SIZE 10mm TYPE N CLASS 320 ASPHALT.
WATERPROOFING COURSE	10mm	SAMI SEAL AND PRIME BELOW
BASE	125mm	SIZE 20mm CLASS 2 CRUSHED ROCK. COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) MAXIMUM DRY DENSITY AS1289,5.2.1.
SUBBASE	140mm	SIZE 20mm CLASS 3 CRUSHED ROCK. COMPACTED TO A MINIMUM DENSITY RATIO OF 96% (MODIFIED) MAXIMUM DRY DENSITY AS1289,5.2.1.
CAPPING LAYER	150mm	SIZE 40mm RIPPED ROCK OR EQIVALENT *
TOTAL	485mm	
SUBGRADE:		MATERIAL AS FOUND (MIN. 2.0% CBR). TOP 200mm COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (STANDARD) MAXIMUM DRY DENSITY AS1289, 5.1.1.

ACCESS LANE - VESTIGE CIRCUIT (Start - Ch274.17) AND UNITED AVENUE (Start-Ch117.90)

WEARING COURSE	20mm	SIZE 7mm TYPE L CLASS 320 ASPHALT.
STRUCTURAL COURSE	30mm	SIZE 10mm TYPE N CLASS 320 ASPHALT.
WATERPROOFING COURSE	10mm	SAMI SEAL AND PRIME BELOW
BASE	135mm	SIZE 20mm CLASS 2 CRUSHED ROCK. COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) MAXIMUM DRY DENSITY AS1289,5.2.1.
SUBBASE	110mm	SIZE 20mm CLASS 3 CRUSHED ROCK. COMPACTED TO A MINIMUM DENSITY RATIO OF 96% (MODIFIED) MAXIMUM DRY DENSITY AS1289,5.2.1.
CAPPING LAYER	150mm	SIZE 40mm RIPPED ROCK OR EQIVALENT *
TOTAL	455mm	
SUBGRADE:		MATERIAL AS FOUND (MIN. 2.0% CBR). TOP 200mm COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (STANDARD) MAXIMUM DRY DENSITY AS1289, 5.1.1.

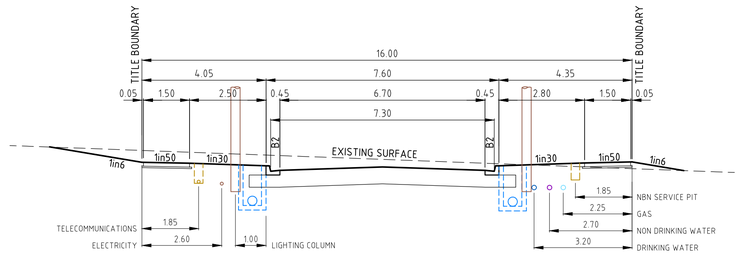
ACCESS STREET '2' - FRESCO WAY

WEARING COURSE	40mm	SIZE 10mm TYPE L CLASS 320 ASPHALT.
STRUCTURAL COURSE	40mm	SIZE 10mm TYPE N CLASS 320 ASPHALT.
WATERPROOFING COURSE	10mm	SAMI SEAL AND PRIME BELOW
BASE	105mm	SIZE 20mm CLASS 2 CRUSHED ROCK. COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) MAXIMUM DRY DENSITY AS1289,5.2.1.
SUBBASE	240mm	SIZE 20mm CLASS 3 CRUSHED ROCK (PLACED IN 2 EQUAL LAYERS). COMPACTED TO A MINIMUM DENSITY RATIO OF 96% (MODIFIED) MAXIMUM DRY DENSITY AS1289,5.2.1.
CAPPING LAYER	270mm	SIZE 40mm RIPPED ROCK OR EQIVALENT *
TOTAL	695mm	
SUBGRADE:		MATERIAL AS FOUND (MIN. 2.0% CBR). TOP 200mm COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (STANDARD) MAXIMUM DRY DENSITY AS1289, 5.1.1.

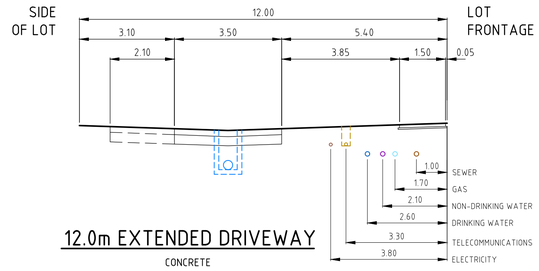
* NOTE: TYPE A SELECT FILL TO MEET THE FOLLOWING PROPERTIES:
CBR ≥ 8%, SWELL ≤ 1.5%, PERMEABILITY $k \leq 5 \times 10^{-9}$m/s (1×10^{-7}cm/s)
COMPACTED TO A MINIMUM DENSITY RATION OF 98% (STANDARD) AS1289, 5.1.1
(FOR ADDITIONAL DETAILS, REFER GEOTECHNICAL REPORT FROM TONKIN & TAYLOR Pty Ltd, 4821.100.R1 July 2016).

ACCESS LANEWAY

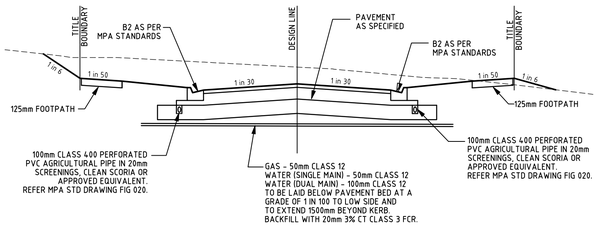
PAVEMENT COMPOSITION TO CONSIST OF:
A. 200mm DEPTH REINFORCED SL82 CONCRETE
B. 100mm COMPACTED CLASS 2 CRUSHED ROCK
PROVIDE 450mm N12 DEFORMED BARS AT 400mm CENTRES AT ALL CONCRETE INTERFACES



16m ROAD RESERVE - VESTIGE CIRCUIT, FRESCO WAY AND UNITED AVENUE

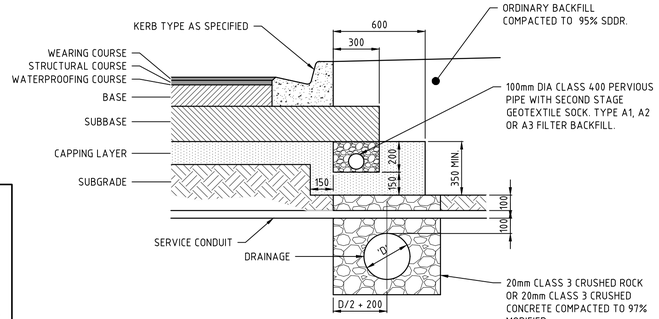


12.0m EXTENDED DRIVEWAY
CONCRETE

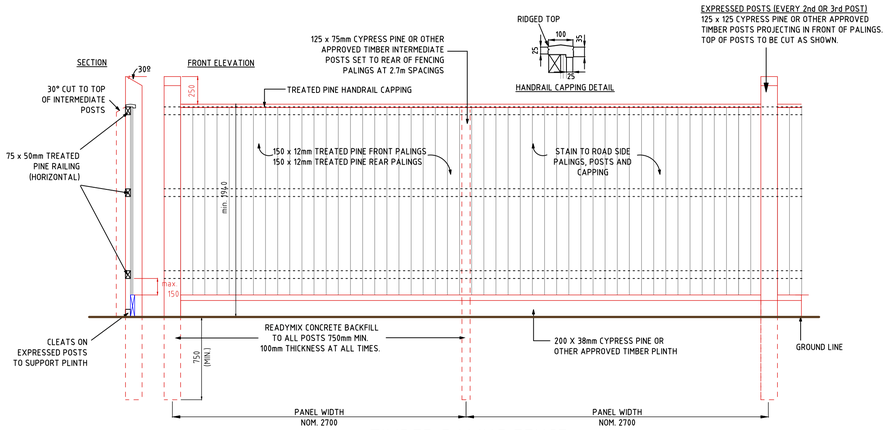


NOTE:
1. REFER CROSS SECTION SHEETS FOR INDIVIDUAL ROAD WIDTHS AND KERB & FOOTPATH OFFSETS.
2. REFER SERVICES SCHEDULE FOR SERVICES OFFSETS.

TYPICAL CROSS SECTION
NTS



PAVEMENT COMPOSITION
SCALE 1:20



TIMBER PALING FENCE
NTS

PRELIMINARY

AMENDMENTS		
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.	360-F10
SURVEY	BPD
DESIGN	TBC
DRAWN	
CHECKED	

ROTHWELL WEST
STAGE 17
NOTES AND TYPICAL CROSS SECTIONS

SCALE	DATUM	DATE	SHEET
As Shown	AHD	August'17	2 OF 10

MUNICIPALITY: WYNDHAM
REFERENCE: 8584 E/17
P2

Plotted: Aug 30, 2017 - 10:15am

SIGNAGE & LINEMARKING LEGEND

"SWLM" - SOLID WHITE LONGLIFE LINE MARKING

"BWLM" - BROKEN WHITE LONGLIFE LINE MARKING

"UNIDIRECTIONAL" & "BIDIRECTIONAL" RRPM's PLACED AT 6.0m CTRS

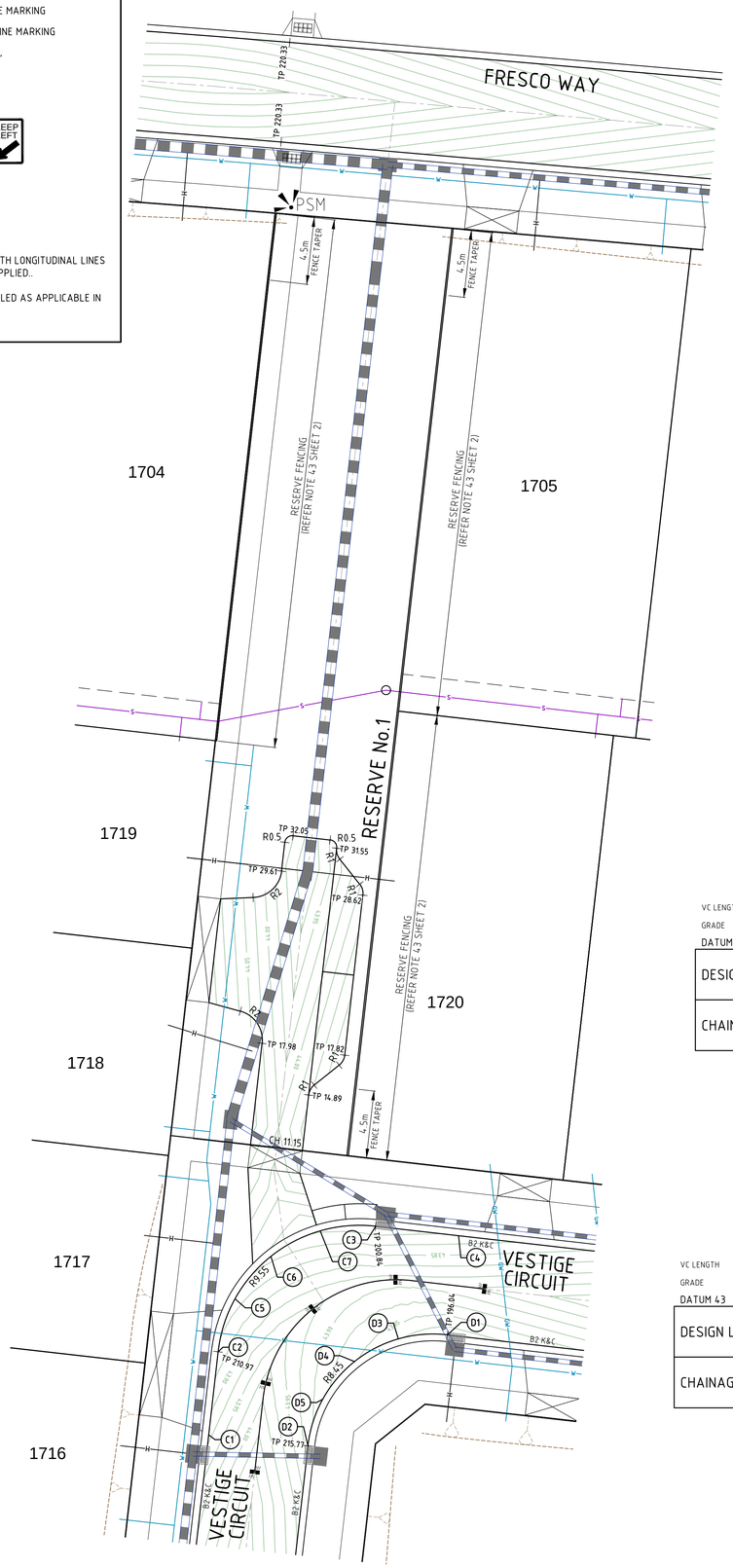
S1 "STREET" SIGN

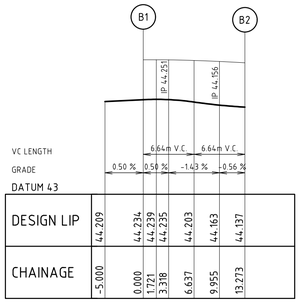
S2 "KEEP LEFT" SIGN (R2-3 (L))

S3 "SPEED HUMP" SIGN (W5-10)

NOTES

1. ALL LINEMARKING TO BE LONG LIFE LINE MARKING WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRAVERSE LINES IN COLD APPLIED..
2. SIGN MARKING AND DELINEATORS ARE TO BE INSTALLED AS APPLICABLE IN ACCORDANCE WITH AS1742.2.





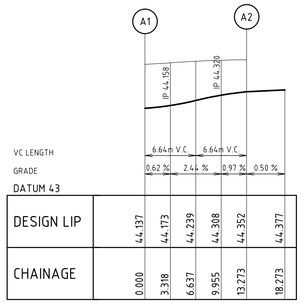
DESIGN LIP	44.209	44.234	44.239	44.235	44.203	44.163	44.137
CHAINAGE	-5.000	0.000	1.721	3.318	6.637	9.955	13.273

LIP LINE B
H 1:400 V 1:40

Alignment B

Point no		Easting	Northing	RL
kg 17 B	1	1473.339	1673.568	44.234
kg 17 B	2	1480.785	1664.220	44.137
kg 17 B	3	1473.615	1670.282	44.235
kg 17 B	4	1475.126	1667.352	44.203
kg 17 B	5	1477.644	1665.223	44.163

Curve no		I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	l	Mid Ord RL
kg 17 B	1	2	-90.000	-8.450	13.273	2.475	1.832	2.741	3.234	3.318	44.203



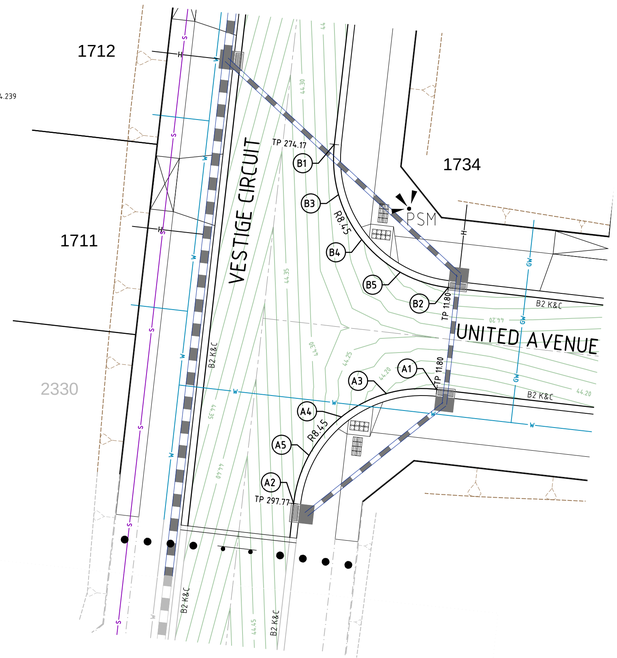
DESIGN LIP	44.137	44.173	44.239	44.308	44.352	44.377
CHAINAGE	0.000	3.318	6.637	9.955	13.273	18.273

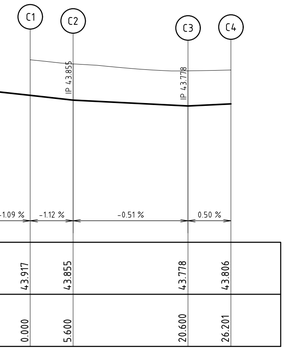
LIP LINE A
H 1:400 V 1:40

Alignment A

Point no		Easting	Northing	RL
kg 17 A	1	1480.031	1657.563	44.137
kg 17 A	2	1470.684	1650.117	44.352
kg 17 A	3	1476.745	1657.288	44.173
kg 17 A	4	1473.815	1655.776	44.239
kg 17 A	5	1471.687	1653.258	44.308

Curve no		I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	l	Mid Ord RL
kg 17 A	1	2	-90.000	-8.450	13.273	2.475	1.832	2.741	3.234	3.318	44.239





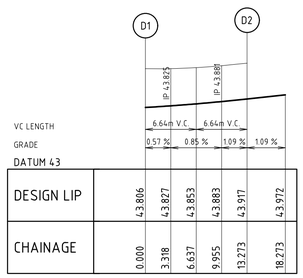
DESIGN LIP	43.972	43.917	43.855	43.778	43.806
CHAINAGE	-5.000	0.000	5.600	20.600	26.201

LIP LINE C
H 1:400 V 1:40

Alignment C

Point no		Easting	Northing	RL
kg 17 C	1	1473.254	1732.351	43.917
kg 17 C	2	1473.884	1737.915	43.855
kg 17 C	3	1484.448	1746.330	43.778
kg 17 C	4	1490.012	1745.700	43.806
kg 17 C	5	1475.017	1741.465	43.836
kg 17 C	6	1477.423	1744.310	43.816
kg 17 C	7	1480.735	1746.019	43.797

Curve no		I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	l	Mid Ord RL
kg 17 C	2	3	90.000	9.550	15.001	2.797	2.070	3.098	3.655	3.750	43.816



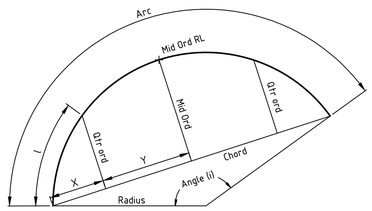
DESIGN LIP	43.806	43.827	43.853	43.883	43.917	43.972
CHAINAGE	0.000	3.318	6.637	9.955	13.273	18.273

LIP LINE D
H 1:400 V 1:40

Alignment D

Point no		Easting	Northing	RL
kg 17 D	1	1489.258	1739.042	43.806
kg 17 D	2	1479.911	1731.597	43.917
kg 17 D	3	1485.973	1738.767	43.827
kg 17 D	4	1483.043	1737.255	43.853
kg 17 D	5	1480.914	1734.738	43.883

Curve no		I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	l	Mid Ord RL
kg 17 D	1	2	-90.000	-8.450	13.273	2.475	1.832	2.741	3.234	3.318	43.853



CURVE SETOUT DIAGRAM

NOTE:
ALL SETOUT DETAILS ARE AT LIP OF KERB

INTERSECTION DETAILS
1:200

PRELIMINARY

LENGTHS ARE IN METRES

4 2 0 4 8 16

SCALE 1 : 200 (A1)

AMENDMENTS

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. 360-F10
SURVEY BPD
DESIGN TBC
DRAWN
CHECKED

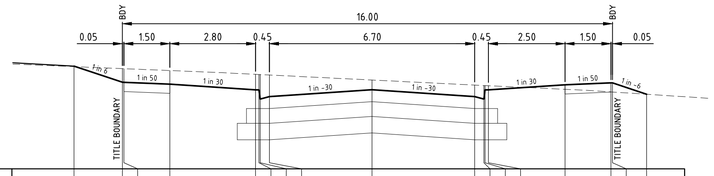
ROTHWELL WEST
STAGE 17
INTERSECTION DETAILS

MUNICIPALITY WYNDHAM
REFERENCE 8584 E/17

SCALE As Shown | DATUM AHD | DATE August'17 | SHEET 3 OF 10 | P2

Plotted: Aug 30, 2017 - 10:00am

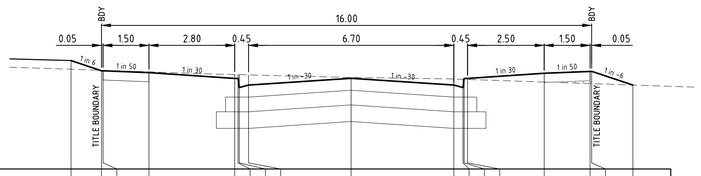
T:\Projects\2358\Design\8584_Rothwell\CAD\Drawings\Stage 17\8584_E_17_P03_INT.dwg (P03)



DATUM 42

DESIGN SURFACE	43.677	43.414	43.413	43.383	43.290	43.290	43.140	43.180	43.292	43.180	43.140	43.290	43.290	43.373	43.403	43.403	43.255	43.404	43.218
EXISTING SURFACE	43.669	43.637	43.636	43.605	43.543	43.541	43.540	43.532	43.450	43.368	43.361	43.360	43.357	43.299	43.257	43.257	43.255	43.404	43.218
OFFSET	-9.727	-8.150	-8.100	-6.600	-3.800	-3.690	-3.650	-3.350	0.000	3.350	3.650	3.690	3.800	6.300	7.800	7.800	7.850	8.964	

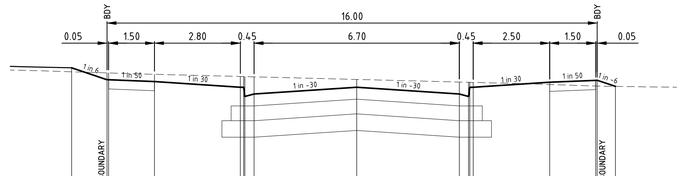
CHA 134.960



DATUM 41

DESIGN SURFACE	43.769	43.603	43.602	43.572	43.479	43.479	43.329	43.369	43.480	43.369	43.329	43.329	43.479	43.562	43.592	43.592	43.593	43.369	
EXISTING SURFACE	43.627	43.610	43.610	43.585	43.541	43.539	43.539	43.535	43.494	43.468	43.463	43.462	43.479	43.460	43.418	43.392	43.392	43.369	
OFFSET	-9.145	-8.150	-8.100	-6.600	-3.800	-3.690	-3.650	-3.350	0.000	3.350	3.650	3.690	3.800	6.300	7.800	7.800	7.850	9.195	

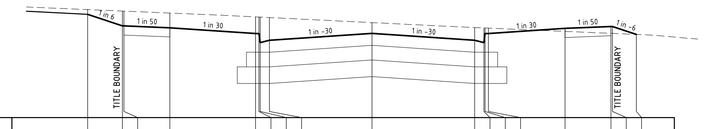
CHA 192.320



DATUM 41

DESIGN SURFACE	43.864	43.671	43.670	43.640	43.547	43.547	43.397	43.437	43.549	43.437	43.397	43.547	43.547	43.630	43.660	43.661	43.562		
EXISTING SURFACE	43.800	43.782	43.782	43.759	43.723	43.722	43.722	43.718	43.675	43.632	43.629	43.628	43.627	43.592	43.568	43.567	43.562		
OFFSET	-9.307	-8.150	-8.100	-6.600	-3.800	-3.690	-3.650	-3.350	0.000	3.350	3.650	3.690	3.800	6.300	7.800	7.850	8.447		

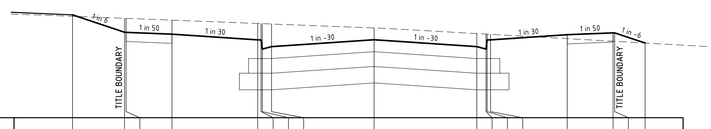
CHA 274.080



DATUM 42

DESIGN SURFACE	43.686	43.497	43.496	43.466	43.373	43.373	43.223	43.263	43.375	43.263	43.223	43.373	43.373	43.456	43.486	43.487	43.357		
EXISTING SURFACE	43.763	43.739	43.738	43.706	43.644	43.641	43.640	43.633	43.550	43.470	43.464	43.463	43.460	43.407	43.375	43.374	43.357		
OFFSET	-9.283	-8.150	-8.100	-6.600	-3.800	-3.690	-3.650	-3.350	0.000	3.350	3.650	3.690	3.800	6.300	7.800	7.850	8.632		

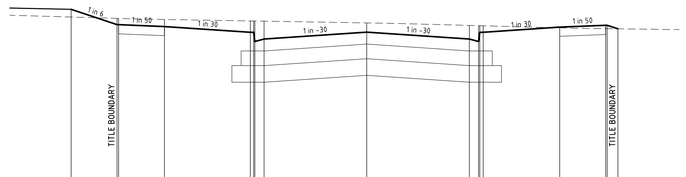
CHA 119.050



DATUM 41

DESIGN SURFACE	43.677	43.394	43.393	43.363	43.270	43.270	43.120	43.160	43.271	43.160	43.120	43.270	43.270	43.353	43.383	43.384	43.218		
EXISTING SURFACE	43.655	43.622	43.621	43.592	43.537	43.535	43.534	43.529	43.464	43.372	43.364	43.363	43.360	43.290	43.248	43.246	43.218		
OFFSET	-9.848	-8.150	-8.100	-6.600	-3.800	-3.690	-3.650	-3.350	0.000	3.350	3.650	3.690	3.800	6.300	7.800	7.850	8.845		

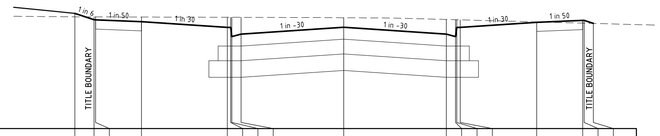
CHA 162.660



DATUM 41

DESIGN SURFACE	43.912	43.662	43.661	43.631	43.537	43.537	43.387	43.427	43.539	43.427	43.387	43.537	43.537	43.621	43.651	43.652	43.594		
EXISTING SURFACE	43.786	43.764	43.763	43.746	43.722	43.722	43.721	43.719	43.690	43.649	43.645	43.644	43.643	43.609	43.596	43.596	43.594		
OFFSET	-9.650	-8.150	-8.100	-6.600	-3.800	-3.690	-3.650	-3.350	0.000	3.350	3.650	3.690	3.800	6.300	7.800	7.850	8.200		

CHA 247.170



DATUM 42

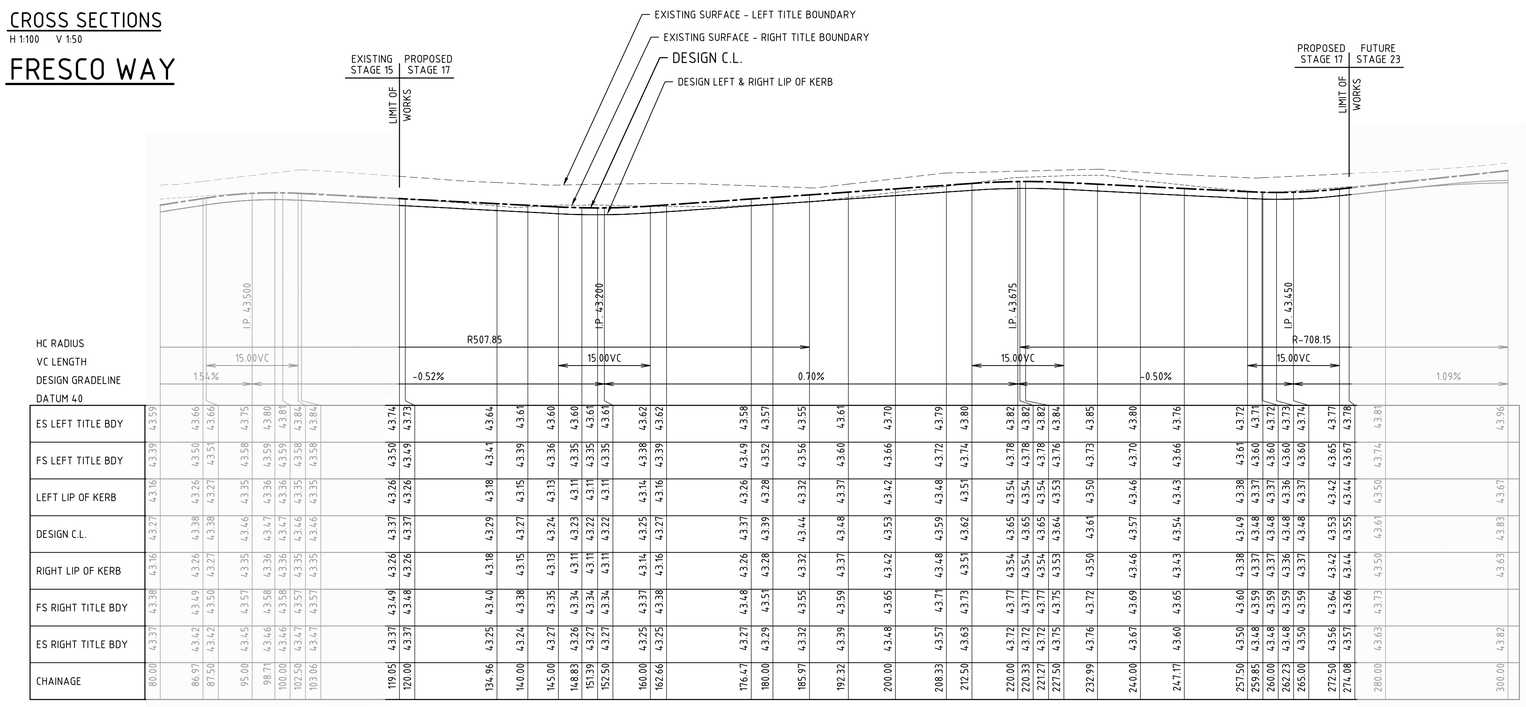
DESIGN SURFACE	43.880	43.775	43.774	43.744	43.651	43.651	43.501	43.541	43.653	43.541	43.501	43.651	43.651	43.734	43.764	43.765	43.716	
EXISTING SURFACE	43.823	43.822	43.822	43.820	43.816	43.816	43.816	43.815	43.808	43.780	43.776	43.776	43.774	43.741	43.720	43.720	43.716	
OFFSET	-8.777	-8.150	-8.100	-6.600	-3.800	-3.690	-3.650	-3.350	0.000	3.350	3.650	3.690	3.800	6.300	7.800	7.850	8.147	

CHA 220.330

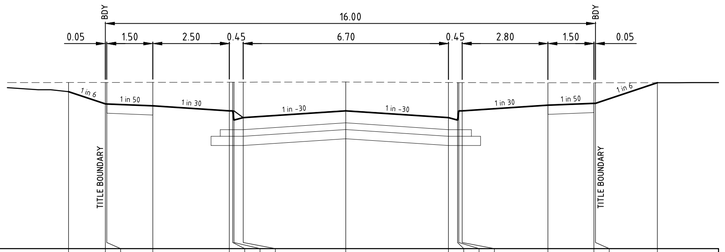
CROSS SECTIONS

H 1:100 V 1:50

FRESCO WAY



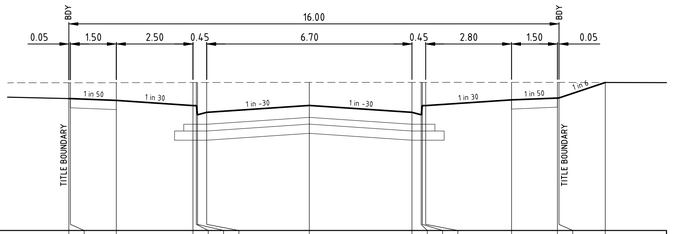
| | | | | | | | | | | | | | | | | | | |



DATUM 42

DESIGN SURFACE	44.562	44.362	44.361	44.331	44.247	44.247	44.097	44.137	44.249	44.137	44.097	44.247	44.247	44.341	44.371	44.372	44.708
EXISTING SURFACE	44.711	44.712	44.712	44.714	44.716	44.716	44.716	44.777	44.719	44.711	44.710	44.710	44.710	44.707	44.708	44.708	44.708
OFFSET	-9.050	-7.850	-7.800	-6.300	-3.800	-3.690	-3.650	-3.350	0.000	3.350	3.650	3.690	3.800	6.600	8.100	8.150	10.169

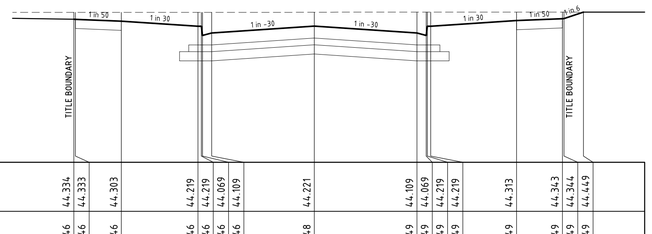
CHA 11.800



DATUM 42

DESIGN SURFACE	44.154	44.153	44.123	44.039	44.039	43.889	43.929	44.041	43.929	43.889	44.039	44.039	44.133	44.163	44.164	44.415
EXISTING SURFACE	44.411	44.411	44.413	44.415	44.415	44.415	44.415	44.417	44.417	44.417	44.417	44.417	44.418	44.417	44.417	44.415
OFFSET	-7.850	-7.800	-6.300	-3.800	-3.690	-3.650	-3.350	0.000	3.350	3.650	3.690	3.800	6.600	8.100	8.150	9.651

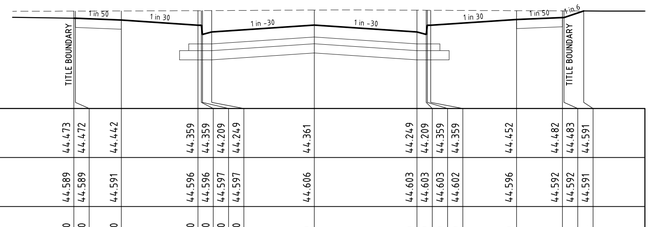
CHA 99.850



DATUM 42

DESIGN SURFACE	44.334	44.333	44.303	44.219	44.219	44.069	44.109	44.221	44.109	44.069	44.219	44.219	44.313	44.343	44.344	44.449
EXISTING SURFACE	44.446	44.446	44.446	44.446	44.446	44.446	44.446	44.448	44.449	44.449	44.449	44.449	44.449	44.449	44.449	44.449
OFFSET	-7.850	-7.800	-6.300	-3.800	-3.690	-3.650	-3.350	0.000	3.350	3.650	3.690	3.800	6.600	8.100	8.150	8.784

CHA 69.850



DATUM 43

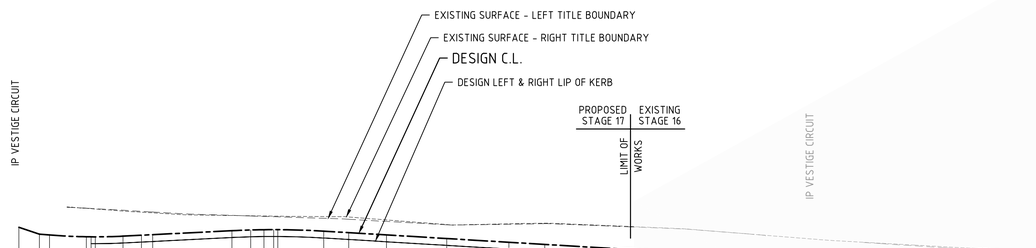
DESIGN SURFACE	44.473	44.472	44.442	44.359	44.359	44.209	44.249	44.361	44.249	44.209	44.359	44.359	44.452	44.482	44.483	44.591
EXISTING SURFACE	44.589	44.589	44.591	44.596	44.596	44.597	44.597	44.606	44.603	44.603	44.603	44.602	44.596	44.592	44.592	44.591
OFFSET	-7.850	-7.800	-6.300	-3.800	-3.690	-3.650	-3.350	0.000	3.350	3.650	3.690	3.800	6.600	8.100	8.150	8.794

CHA 37.850

CROSS SECTIONS

H 1:100 V 1:50

UNITED AVENUE



ES LEFT TITLE BDY				44.72	44.71	44.68	44.71	44.60	44.59	44.58	44.57	44.55	44.54	44.50	44.45	44.45	44.46	44.41	44.31	44.29	44.14	44.13	44.10	44.07	44.01
FS LEFT TITLE BDY					44.36	44.37	44.39	44.46	44.47	44.48	44.48	44.45	44.43	44.39	44.33	44.27	44.24	44.15	44.15		43.90	43.88	43.85	43.79
LEFT LIP OF KERB					44.14	44.15	44.16	44.24	44.25	44.25	44.25	44.23	44.21	44.17	44.11	44.05	44.01	43.93	43.93	43.82	43.69	43.68	43.65	43.62	43.57
DESIGN C.L.	44.40	44.29	44.28	44.25	44.25	44.26	44.27	44.28	44.35	44.36	44.36	44.37	44.34	44.32	44.28	44.22	44.12	44.04	44.04	43.93	43.80	43.79	43.76	43.73	43.68
RIGHT LIP OF KERB					44.14	44.15	44.16	44.17	44.24	44.25	44.25	44.25	44.23	44.21	44.17	44.11	44.01	43.93	43.93	43.82	43.69	43.68	43.65	43.62	43.57
FS RIGHT TITLE BDY					44.37	44.38	44.40	44.44	44.47	44.48	44.49	44.49	44.46	44.44	44.40	44.34	44.25	44.16	44.16	44.06	43.92	43.91	43.89	43.86	43.80
ES RIGHT TITLE BDY				44.71	44.71	44.67	44.65	44.64	44.60	44.59	44.59	44.59	44.58	44.57	44.52	44.45	44.47	44.42	44.42	44.31	44.15	44.14	44.11	44.09	44.03
CHAINAGE	0.00	3.35	5.00	11.00	11.80	12.48	17.00	20.00	21.85	34.77	37.85	40.00	41.59	42.27	49.77	53.85	60.00	69.85	80.00	85.85	99.85	100.00	117.90	120.00	129.70	140.00	141.50	146.18	151.10	160.00

LONGITUDINAL SECTION (Rd12)

H 1:500 V 1:50

UNITED AVENUE

PRELIMINARY

LENGTHS ARE IN METRES
1 0.5 0 1 2 4
VERTICAL SCALE 1 : 50 (A1)

LENGTHS ARE IN METRES
10 5 0 10 20 40
HORIZONTAL SCALE 1 : 500 (A1)
LONGITUDINAL SECTIONS

LENGTHS ARE IN METRES
1 0.5 0 1 2 4
VERTICAL SCALE 1 : 50 (A1)

LENGTHS ARE IN METRES
2 1 0 2 4 8
HORIZONTAL SCALE 1 : 100 (A1)
CROSS SECTIONS

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

AMENDMENTS

VER	DATE	REMARKS

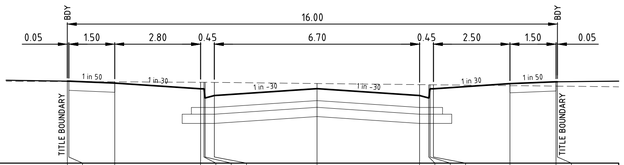
MELWAY REF.	360-F10
SURVEY	BPD
DESIGN	TBC
DRAWN	
CHECKED	

ROTHWELL WEST
STAGE 17
UNITED AVENUE

SCALE	As Shown	DATUM	AHD
DATE	August'17		

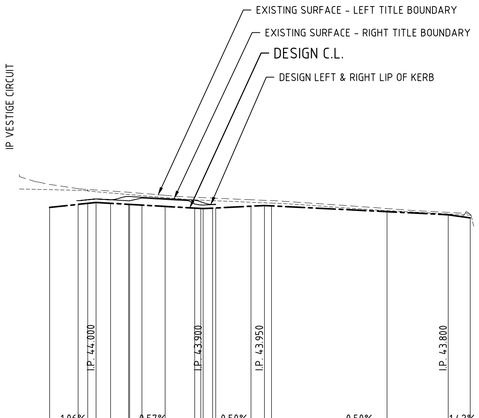
MUNICIPALITY: WYNDHAM
REFERENCE: 8584 E/17
SHEET: 5 OF 10 P2

Plotted: Aug 30, 2017 - 8:29am


BDY
16.00
0.05 1.50 2.80 0.45 6.70 0.45 2.50 1.50 0.05
1 in 50
1 in 30
1 in -30
1 in -30
1 in 30
1 in 50
TITLE BOUNDARY
TITLE BOUNDARY

DATUM 43

| | | |



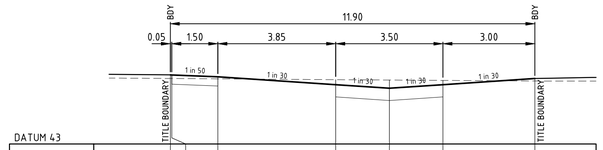
HC RADIUS
VC LENGTH
DESIGN GRADELINE 1.06% -0.57% 0.50% -0.50% -1.42%
DATUM 40

CHAINAGE	ES LEFT TITLE BDY	FS LEFT TITLE BDY	LEFT EDGE OF CONC	DESIGN C.L.	RIGHT EDGE OF CONC	FS RIGHT TITLE BDY	ES RIGHT TITLE BDY
0.00	44.37						44.27
4.93	44.32			43.92			44.19
9.60	44.24			43.97	44.03	44.14	44.19
11.15	44.21	44.20	44.04	43.99	44.04	44.14	44.19
12.50	44.20	44.22	44.06	44.00	44.06	44.16	44.17
14.89	44.19	44.20	44.04	43.99	44.04	44.14	44.15
17.82	44.17	44.19	44.03	43.97	44.10	44.13	44.13
17.98	44.17	44.19	44.03	43.97	44.10	44.13	44.13
20.00	44.15	44.17	44.07	43.96	44.09	44.12	44.11
23.80	44.12	44.15	44.05	43.94	44.06	44.09	44.08
28.62	44.09	44.13	43.97	43.91	44.04	44.07	44.04
29.61	44.08	44.12	43.96	43.90	44.01	44.06	44.04
30.00	44.08	44.12	43.96	43.90	44.00	44.06	44.06
31.55	44.07	44.13	43.97	43.91	43.97	44.07	44.03
32.05	44.07	44.13		43.91		44.07	44.03
37.80	44.04	44.15		43.94		44.10	44.00
40.00	44.04	44.17		43.95		44.11	43.99
41.15	44.03	44.16		43.94		44.10	43.99
60.00	43.90	44.07		43.85		44.01	43.87
70.00	43.84			43.80			43.81
73.59	43.80			43.75			43.79
80.00							
81.74							

LONGITUDINAL SECTION (Rd17)

H 1:500 V 1:50

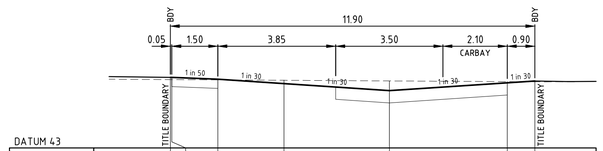
ACCESS LANEWAY



DATUM 43

DESIGN SURFACE	44.128	44.127	44.097	43.969	43.910	43.969	44.069
EXISTING SURFACE	44.069	44.069	44.064	44.050	44.044	44.038	44.028
OFFSET	-7.150	-7.100	-5.600	-1.750	0.000	1.750	4.750

CHA 32.050



DATUM 43

DESIGN SURFACE	44.153	44.152	44.122	44.050	43.935	44.064	44.094
EXISTING SURFACE	44.116	44.116	44.112	44.105	44.094	44.083	44.080
OFFSET	-7.150	-7.100	-5.600	-3.442	0.000	3.850	4.750

CHA 23.800

CROSS SECTIONS

H 1:100 V 1:50

ACCESS LANEWAY

LENGTHS ARE IN METRES
1 0.5 0 1 2 4
VERTICAL SCALE 1 : 50 (A1)

LENGTHS ARE IN METRES
10 5 0 10 20 40
HORIZONTAL SCALE 1 : 500 (A1)
LONGITUDINAL SECTIONS

LENGTHS ARE IN METRES
1 0.5 0 1 2 4
VERTICAL SCALE 1 : 50 (A1)

LENGTHS ARE IN METRES
2 1 0 2 4 8
HORIZONTAL SCALE 1 : 100 (A1)
CROSS SECTIONS

PRELIMINARY

AMENDMENTS

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. 360-F10
SURVEY BPD
DESIGN TBC
DRAWN
CHECKED

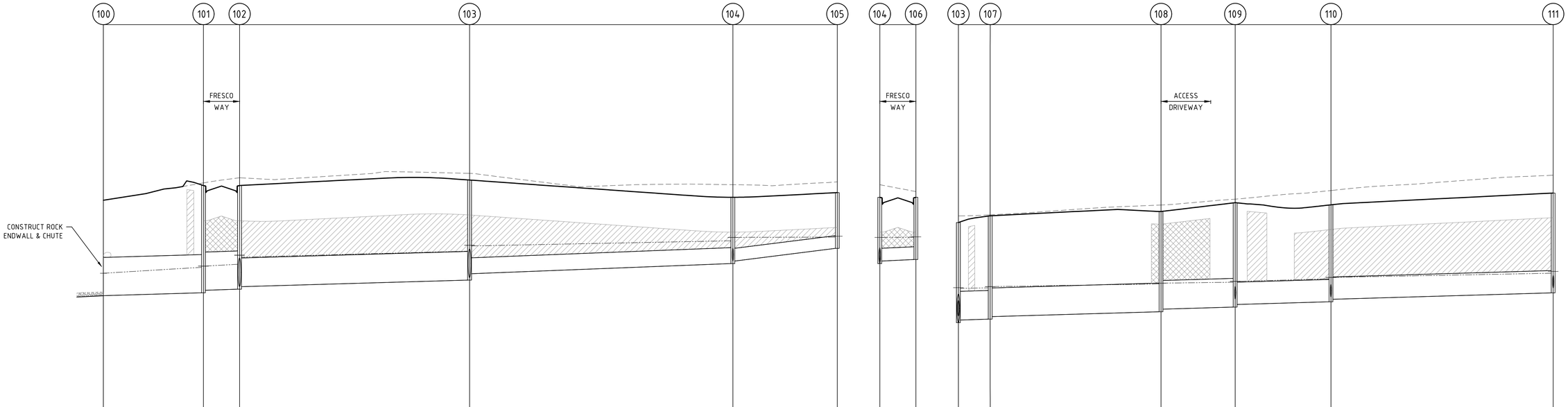
ROTHWELL WEST
STAGE 17
ACCESS LANEWAY

MUNICIPALITY WYNDHAM
REFERENCE 8584 E/17

SCALE As Shown | DATUM AHD | DATE August'17 | SHEET 7 OF 10 | P2

Plotted: Aug 30, 2017 - 8:29am

T:\Projects\2358\Design\8584 Rothwell\CAD\Drawings\Stage 17\8584-E-17_P01_07_LS_XS.dwg (P07)



VELOCITY (m/sec)	1.53m/s	1.52m/s	1.25m/s	0.99m/s	1.51m/s	0.90m/s	1.25m/s	1.25m/s	1.25m/s	1.06m/s	1.06m/s
DESIGN (m3/s)	0.80m3/s	0.80m3/s	0.43m3/s	0.08m3/s	0.02m3/s	0.01m3/s	0.36m3/s	0.34m3/s	0.34m3/s	0.22m3/s	0.21m3/s
CAPACITY (m3/s)	0.97m3/s	0.97m3/s	0.45m3/s	0.11m3/s	0.11m3/s	0.06m3/s	0.45m3/s	0.45m3/s	0.45m3/s	0.23m3/s	0.23m3/s
DIAMETER AND TYPE (CLASS 2)	900 RRJ	900 RRJ	675 RRJ	375 RRJ	300 RRJ	300 RRJ	675 RRJ	675 RRJ	675 RRJ	525 RRJ	525 RRJ
GRADE	CLASS 2 1 in 351	CLASS 4 1 in 351	CLASS 2 1 in 351	CLASS 4 1 in 259	CLASS 10 1 in 82.6	CLASS 4 1 in 231	CLASS 2 1 in 351	CLASS 2 1 in 351	CLASS 4 1 in 351	CLASS 2 1 in 351	CLASS 2 1 in 351
DATUM RL	36.0					36.0	37.0				
DEPTH FS TO INVERT	2.246 2.246	2.526 2.466	2.442 2.382	2.356 2.206	1.561 1.501	1.314	1.561 1.501	1.464	2.356 2.296	2.433 2.373	2.359 2.299	2.456 2.396	2.282 2.222	2.351
HGL LEVEL	41.448	41.587	41.659	41.871 41.827	41.967 42.107 42.090	42.212 42.292	42.299 42.319	42.212 42.292	42.293 42.304	41.967 42.107 42.090	42.104 42.133	42.196 42.215	42.236 42.256	42.317 42.350	42.448 42.492
INVERT	40.92 40.92	40.99 41.05	41.07 41.13	41.29 41.44	41.67 41.73	41.67 41.73	42.03	41.77	41.29 41.35	41.37 41.43	41.54 41.60	41.65 41.71	41.78 41.84	41.98
FINISHED SURFACE	43.166	43.513	43.513	43.642	43.236	43.236	43.346	43.236	43.642 43.800	43.901	44.107	44.658	44.336
NATURAL SURFACE	43.166	43.575	43.694	43.798	43.532	43.532	43.599	43.370	43.798 43.823	44.054	44.192	44.395	44.756
CHAINAGE	0.000	23.548	32.048	86.192	148.169	0.000	172.753	8.500	0.000 7.490	47.695	65.150	81.700	140.000
	L=23.548m	L=8.500m	L=54.143m	L=61.977m	L=24.585m	L=8.500m			L=7.490m	L=40.204m	L=17.455m	L=22.550m	L=52.300m	

LEGEND

- EXISTING SURFACE
- FINISHED SURFACE
- HYDRAULIC GRADE LINE (5yr)
- DENOTES CLASS 3 CRUSHED ROCK BACKFILL - IN ROAD RESERVES (PAVEMENT NOT SHOWN)
- DENOTES CLASS 2 CRUSHED ROCK BACKFILL - UNDER ROAD CROSSINGS (PAVEMENT NOT SHOWN)

LENGTHS ARE IN METRES
1 0.5 0 1 2 4
VERTICAL SCALE 1 : 50 (A1)

LENGTHS ARE IN METRES
10 5 0 10 20 40
HORIZONTAL SCALE 1 : 500 (A1)

AMENDMENTS

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. 360-F10
SURVEY BPD
DESIGN TBC
DRAWN
CHECKED

ROTHWELL WEST STAGE 17

DRAINAGE LONGITUDINAL SECTIONS - SHEET 1

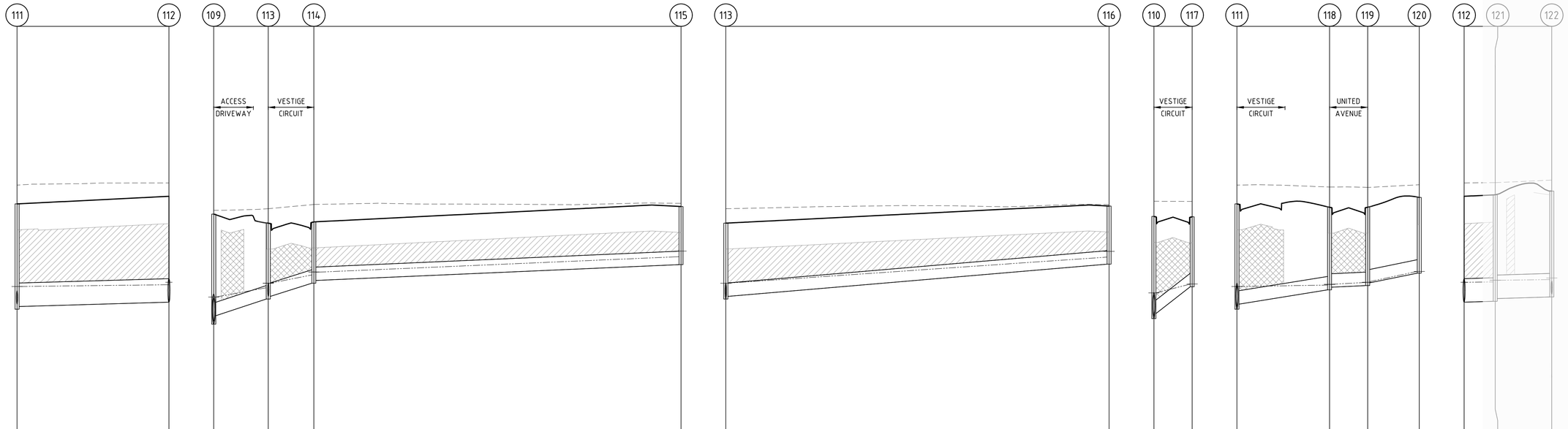
SCALE As Shown | DATUM AHD | DATE August'17

MUNICIPALITY WYNDHAM

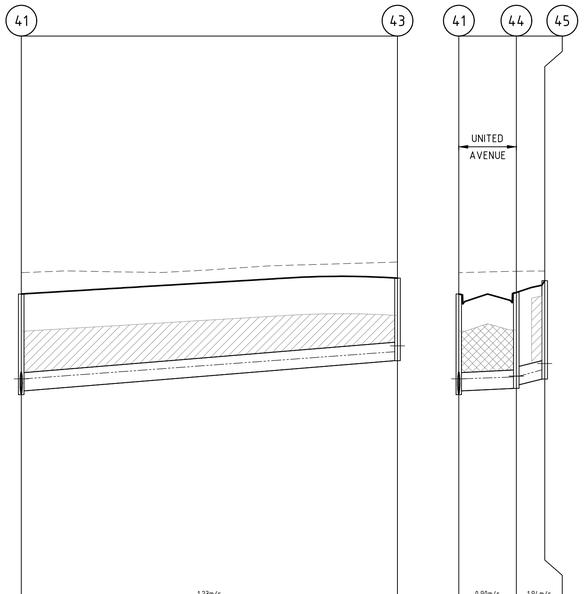
REFERENCE 8584 E/17

SHEET 8 OF 10 | P2

Plotted: Aug 30, 2017 - 8:49am


111
112
109
113
114
115
113
116
110
117
111
118
119
120
112
121
122
ACCESS DRIVEWAY
VESTIGE CIRCUIT
VESTIGE CIRCUIT
VESTIGE CIRCUIT
UNITED AVENUE

| | | |



	41	43	41	44	45
VELOCITY (m/sec)	1.23m/s		0.90m/s	1.94m/s	
DESIGN (m3/s)	0.04m3/s		0.04m3/s	0.04m3/s	
CAPACITY (m3/s)	0.09m3/s		0.06m3/s	0.14m3/s	
DIAMETER AND TYPE (CLASS 2)	300 RRJ CLASS 3		300 RRJ CLASS 4	300 RRJ CLASS 2	
GRADE	1 in 124		1 in 231	1 in 50	
DATUM RL	37.0		37.0		
DEPTH FS TO INVERT	1.642 1.582	1.348	1.642 1.582	1.566 1.506	1.607
HGL LEVEL	42.668 42.706	43.149 43.243	42.668 42.706	42.735 42.750	42.852 42.956
INVERT	42.45 42.51	43.00	42.45 42.51	42.55 42.61	42.70
FINISHED SURFACE	44.091	44.350	44.091	44.115	44.309
NATURAL SURFACE	44.439	44.612	44.439	44.461	44.464
CHAINAGE	0.000	61.414	0.000	9.394	14.029
	L=61.414m		L=9.394m	L=4.635m	

LEGEND

- EXISTING SURFACE
- FINISHED SURFACE
- HYDRAULIC GRADE LINE (5yr)
- DENOTES CLASS 3 CRUSHED ROCK BACKFILL – IN ROAD RESERVES (PAVEMENT NOT SHOWN)
- DENOTES CLASS 2 CRUSHED ROCK BACKFILL – UNDER ROAD CROSSINGS (PAVEMENT NOT SHOWN)

MELBOURNE WATER CREEK CONNECTION NOTES

1.5m/SEC MAX. OUTLET VELOCITY.

OUTLET PIPE TO BE SET BACK INTO THE FINISHED BATTER SLOPE, POINTING A MAX. OF 45 DEGREES DOWNSTREAM.

SEDGES AND GRASSES MUST BE PLACED IN BETWEEN VOIDS WITHIN ROCK CHUTE AT 3-4 PLANTS PER m2 TO PROVIDE ADDITIONAL SCREENING. SHRUBS & SMALL TREES MUST ALSO BE PLACED AROUND THE POST BARRIER TO SCREEN FLOWS AND STABILISE THE GROUND WHERE NEEDED.

ROCKS ABUTTING THE PIPE TO HAVE A MORTAR PAD BETWEEN THE ROCK AND THE OUTSIDE EDGE OF THE PIPE (NO POINT LOADING).

ROCKWORK PROTECTION REQUIRED FOR THE BED AND BANKS, FROM THE END OF PIPE TO THE LOW FLOW WATER LEVEL. ROCK PROTECTION REQUIRED FOR THE FULL EROSION PROJECTION OF THE OPPOSITE BANK AND BED AS REQUIRED FOR THE WATER FLOW PROFILE WHEN THE OUTLET IS FLOWING FULL.

ROCKS WITHIN THE BASE TO BE PLACED ON A FCR BEDDING TO ENSURE THE STORMWATER DISCHARGE IS FLOWING OVER AND AROUND THE ROCKS DOWN INTO THE CREEK, AND NOT UNDERNEATH. THE REMAINING EXPOSED DIMENSION OF THE ROCKWORK IS TO BE A MINIMUM OF 150mm.

DISTURBED AREAS OF EXISTING BANK RESULTING FROM THESE WORKS ARE TO BE STABILISED WITH REVEGETATION.

THE OUTLET MUST BE INTEGRATED INTO THE BANK AND SURROUNDING LANDSCAPE TO MAXIMISE AESTHETICS AND MINIMISE IMPACTS.

TOE AND SIDE ROCKS ARE TO BE ADEQUATELY KEYED INTO THE BED OF THE CREEK.

ALL VOIDS SHALL BE FILLED WITH SMALLER ROCKS.

APPROPRIATE SILT/DEBRIS CONTROL MEASURES MUST BE INSTALLED.

PINE POST AND RAIL BARRIER TO BE INSTALLED AROUND OUTLET STRUCTURE. RAILS MUST BE PERMANENTLY FIXED TO POSTS WITH NO ROTATIONAL MOVEMENT.

PROCEDURE:

PRIOR TO THE COMMENCEMENT OF WORKS, ASSET SERVICES OFFICER TO BE CONTACTED TO DISCUSS ON SITE THE PROPOSED WORKS AND "PERMIT TO WORK". PROVIDE AT LEAST 5 WORKING DAYS NOTICE.

THE CONSTRUCTION WORK ON THE WATERWAY, AND REINSTATEMENT OF THE AFFECTED AREA IS TO BE CARRIED OUT TO THE SATISFACTION OF MELBOURNE WATER'S MAINTENANACE COORDINATOR.

EXCAVATE/BOX OUT TO ENABLE TOE AND PERIMETER ROCKS TO BE PLACED FIRST.

KEY TOE ROCKS TO TWO THIRDS DIAMETER INTO UNDISTURBED MATERIAL.

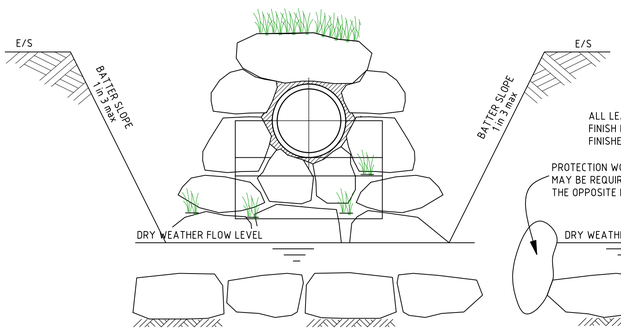
INFILL THE CHUTE WITH ROCK SPALLS. THE CONTRACTOR SHALL USE METHODS FOR HANDLING AND PLACEMENT OF ROCK THAT WILL AVOID SEGREGATION OF ROCK SIZE FRACTIONS.

ROCK SHALL BE CAREFULLY PLACED INTO POSITION. ROCK SHALL NOT BE DUMPED DIRECTLY. IT IS IMPERATIVE THAT ROCK SPALLS USED TO FORM THE ROCK CHUTE ARE WELL GRADED WITH MINIMAL VOIDS TO PRODUCE A BLANKET OF INTERLOCKING ROCK.

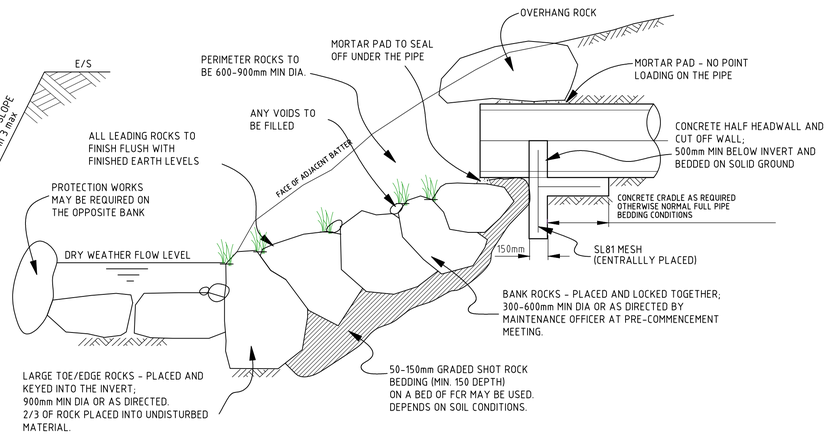
Date
30/08/2017

DRAINAGE PIT SCHEDULE
Rothwell Estate - Stage 17

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
PIT No	TYPE	WD	LEN	DIA	INV LEV	DIA	INV LEV	FINISHED COVER RL	DEPTH	
41	Channel Grating Pit	600	900			375	42.45	44.091	1.642	MPA EDCM STD DWG 603 & 605, CONNECT TO EXISTING
				300	42.51			44.091	1.642	
				300	42.51			44.091	1.642	
43	Junction Pit	600	900			300	43.00	44.350	1.348	MPA EDCM STD DWG 605
44	Channel Grating Pit	600	900	300	42.61	300	42.55	44.115	1.566	MPA EDCM STD DWG 603 & 605
45	Junction Pit	600	900			300	42.70	44.309	1.607	MPA EDCM STD DWG 605
100	End Wall	-	-	900	40.92			41.820	0.900	END WALL
101	Double Channel Grated Pit	600	1050	900	41.05	900	40.99	43.513	2.526	MPA EDCM STD DWG 604 & 605
102	Double Channel Grated Pit	750	1050	675	41.13	900	41.07	43.513	2.442	MPA EDCM STD DWG 604 & 607 (HAUNCHED)
				675	41.13			43.513	2.442	
103	Junction Pit	750	900	375	41.44	675	41.29	43.642	2.356	MPA EDCM STD DWG 607 (HAUNCHED)
				675	41.35			43.642	2.356	
104	Double Channel Grated Pit	600	900	300	41.73	375	41.67	43.236	1.561	MPA EDCM STD DWG 604 & 605
				300	41.73			43.236	1.561	
105	Junction Pit	600	900			300	42.03	43.346	1.314	MPA EDCM STD DWG 605
106	Double Channel Grated Pit	600	900			300	41.77	43.236	1.464	MPA EDCM STD DWG 604 & 605
107	Grated Pit	600	900	675	41.43	675	41.37	43.800	2.433	MPA EDCM STD DWG 605 with CLASS 'D' COVER
108	Grated Pit	600	900	675	41.60	675	41.54	43.901	2.359	MPA EDCM STD DWG 605 with CLASS 'D' COVER
109	Junction Pit	750	900	525	41.71	675	41.65	44.107	2.456	MPA EDCM STD DWG 607 (HAUNCHED)
				300	41.84			44.107	2.456	
110	Channel Grating Pit	600	900	525	41.84	525	41.78	44.058	2.282	MPA EDCM STD DWG 603 & 605
				300	41.89			44.058	2.282	
111	Channel Grating Pit	600	900	525	42.04	525	41.98	44.336	2.351	MPA EDCM STD DWG 603 & 605
				300	42.10			44.336	2.351	
112	End of Pipe	-	-			525	42.14	44.505	2.364	END OF PIPE
				525	42.14			44.505	2.364	
113	Channel Grating Pit	600	900	300	42.27	300	42.21	43.907	1.695	MPA EDCM STD DWG 603 & 605
				300	42.27			43.907	1.695	
114	Channel Grating Pit	600	900	300	42.63	300	42.57	43.934	1.368	MPA EDCM STD DWG 603 & 605
115	Junction Pit	600	900			300	42.98	44.278	1.298	MPA EDCM STD DWG 605
116	Junction Pit	600	900			300	42.99	44.288	1.298	MPA EDCM STD DWG 605
117	Channel Grating Pit	600	900			300	42.49	44.049	1.564	MPA EDCM STD DWG 603 & 605
118	Channel Grating Pit	600	900	300	42.48	300	42.42	44.262	1.846	MPA EDCM STD DWG 603 & 605
119	Channel Grating Pit	600	900	300	42.57	300	42.51	44.262	1.749	MPA EDCM STD DWG 603 & 605
120	Channel Grating Pit	600	900			300	42.79	44.480	1.691	MPA EDCM STD DWG 603 & 605
				300	42.32			44.621	2.364	
135	End of Pipe	-	-			675	41.18	43.571	2.394	END OF PIPE
				675	41.18			43.571	2.394	



FRONT VIEW
NTS



ELEVATION
NTS

MW CREEK OUTLET DETAIL AT PIT

LENGTHS ARE IN METRES
1 0.5 0 1 2 4
VERTICAL SCALE 1 : 50 (A1)

LENGTHS ARE IN METRES
10 5 0 10 20 40
HORIZONTAL SCALE 1 : 500 (A1)

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 SHALL BE PROVIDED WITH TERRA FIRMA OR APPROVED EQUIVALENT PIT LID WITH A LOCKABLE COVER.

AMENDMENTS

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. 360-F10
SURVEY BPD
DESIGN TBC
DRAWN
CHECKED

ROTHWELL WEST
STAGE 17
DRAINAGE LONGITUDINAL SECTIONS - SHEET 3

MUNICIPALITY WYNDHAM
REFERENCE 8584 E/17
SCALE As Shown DATUM AHD DATE August'17 SHEET 10 OF 10 P2

Plotted: Aug 30, 2017 - 9:53am