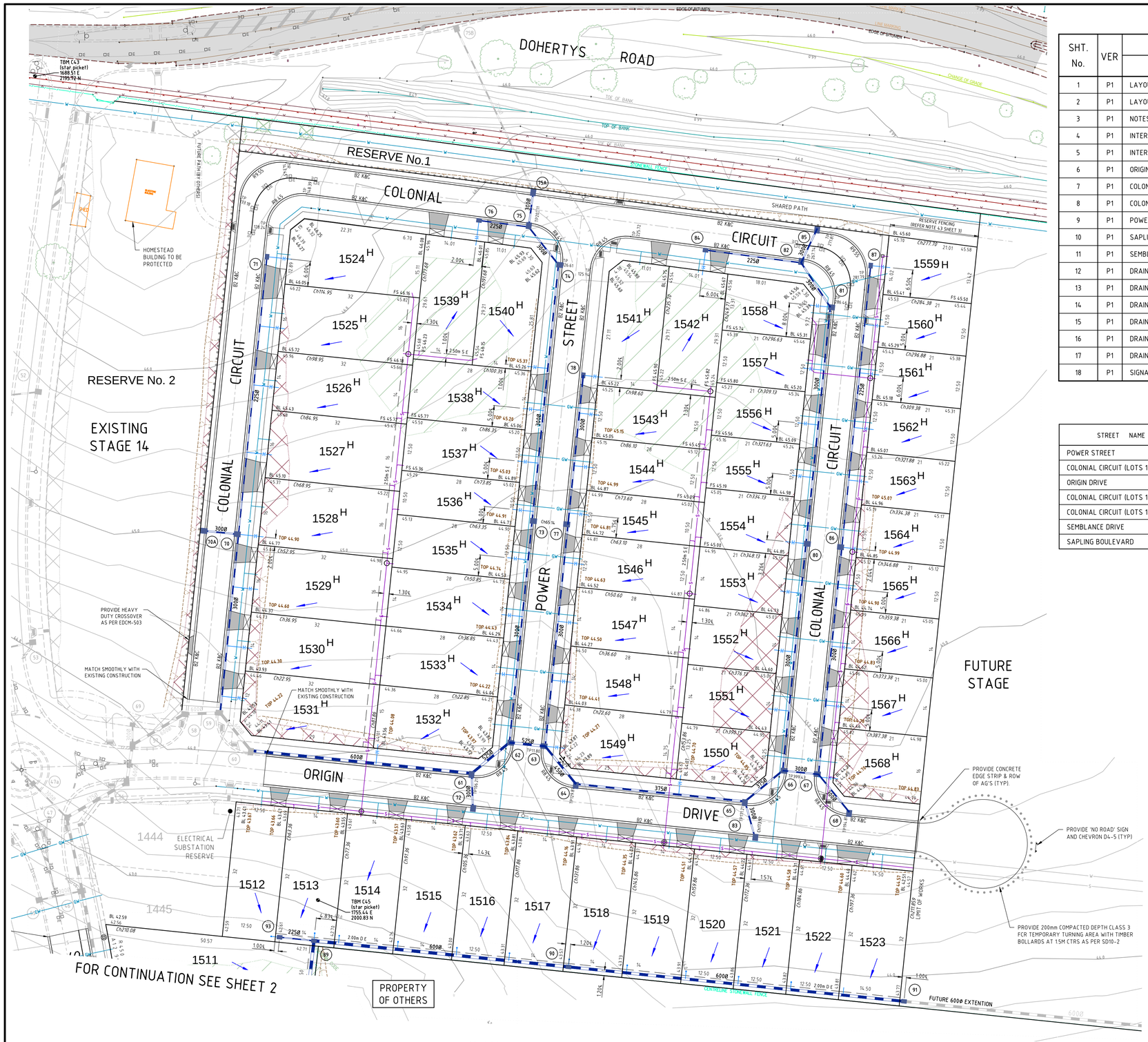
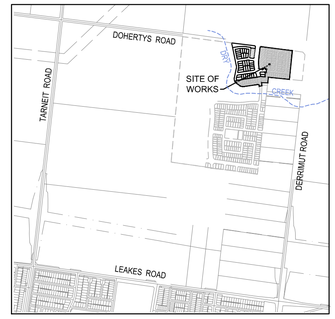


PLAN
1:500

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

PRELIMINARY

SHT. No.	VER	DRAWING INDEX — DESCRIPTION
1	P1	LAYOUT PLAN AND DETAILS - SHEET 1
2	P1	LAYOUT PLAN AND DETAILS - SHEET 2
3	P1	NOTES AND TYPICAL CROSS SECTIONS
4	P1	INTERSECTION DETAILS - SHEET 1
5	P1	INTERSECTION DETAILS - SHEET 2
6	P1	ORIGIN DRIVE - LONGITUDINAL & CROSS SECTIONS
7	P1	COLONIAL CIRCUIT - LONGITUDINAL SECTION
8	P1	COLONIAL CIRCUIT - CROSS SECTIONS
9	P1	POWER STREET - LONGITUDINAL & CROSS SECTIONS
10	P1	SAPLING BOULEVARD - LONGITUDINAL & CROSS SECTIONS
11	P1	SEMBLANCE DRIVE - LONGITUDINAL & CROSS SECTIONS
12	P1	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1
13	P1	DRAINAGE LONGITUDINAL SECTIONS - SHEET 2
14	P1	DRAINAGE LONGITUDINAL SECTIONS - SHEET 3
15	P1	DRAINAGE LONGITUDINAL SECTIONS - SHEET 4
16	P1	DRAINAGE LONGITUDINAL SECTIONS - SHEET 5
17	P1	DRAINAGE PIT SCHEDULE
18	P1	SIGNAGE & LINEMARKING PLAN



LOCALITY PLAN
1:20,000

SERVICES OFFSETS AND LOCATIONS

STREET NAME	Rd RESERVE	WATER DW	WATER NDW	SEWER	GAS	ELECTRICITY CABLES	ELECTRICITY POLES	FIBRE TO THE HOME FTTH CABLES	FTTH PITS	Bk. of KERB	JOINT TRENCHING
POWER STREET	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 VARIES	W & G, E & FTTH
COLONIAL CIRCUIT (LOTS 1550-1558)	16.00	3.20 W	2.70 W	1.00 E	2.25 W	2.60 E	1.00 BOK	1.85 E	1.85 W	4.35W / 4.05E	W & G, E & FTTH
ORIGIN DRIVE	16.00	3.20 S	2.70 S	0.80 S	2.25 S	2.60 N	1.00 BOK	1.85 N	1.85 S	4.35S / 4.05N	W & G, E & FTTH
COLONIAL CIRCUIT (LOTS 1524-1558)	14.00	2.60 S	2.10 S	-	1.60 S	3.80 S	1.00 BOK	3.30 S	-	5.35S / 1.05N	W & G, E & FTTH
COLONIAL CIRCUIT (LOTS 1524-1531)	14.00	2.60 E	2.10 E	-	1.60 E	3.80 E	1.00 BOK	3.30 E	-	5.35E / 1.05W	W & G, E & FTTH
SEMBLANCE DRIVE	14.00	2.60 N	2.10 N	-	1.60 N	3.80 N	1.00 BOK	3.30 N	-	5.35N / 1.05S	W & G, E & FTTH
SAPLING BOULEVARD	VARIES	3.60 W	2.90 W	-	2.25 W	2.70 E	1.00 BOK	1.85 E	1.85 W	4.35E / VARIES-W	W & G, E & FTTH

DIAL BEFORE YOU DIG www.1100.com.au

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.

LEGEND

PROPOSED DRAINAGE
EXISTING DRAINAGE
DRAINAGE PIT/DIA./FLOW (?? 300Ø)
PROPERTY INLET
HOUSE DRAIN (H)
PROPOSED / EXIST SEWER (S)
PROPOSED / EXIST WATER (W)
FILL - PROP / EXIST
CUT - PROP / EXIST

LOT FALL
LOT LEVEL - F.S. / EXIST (FS 42.64 / 43.97)
F.S. AT BUILDING LINE (BL 42.64)
TOP / TOE OF BATTER (TOP 20.17 / TOE 20.17)
KERBING TYPE (B2 B3 M2)
LOT BDY CHAINAGE (CHXXX.XX)
LOTS EASEMENT
STREET SIGN
LINEMARKING
REMOVE EXIST TREE

VER	DATE	REMARKS
		AMENDMENTS

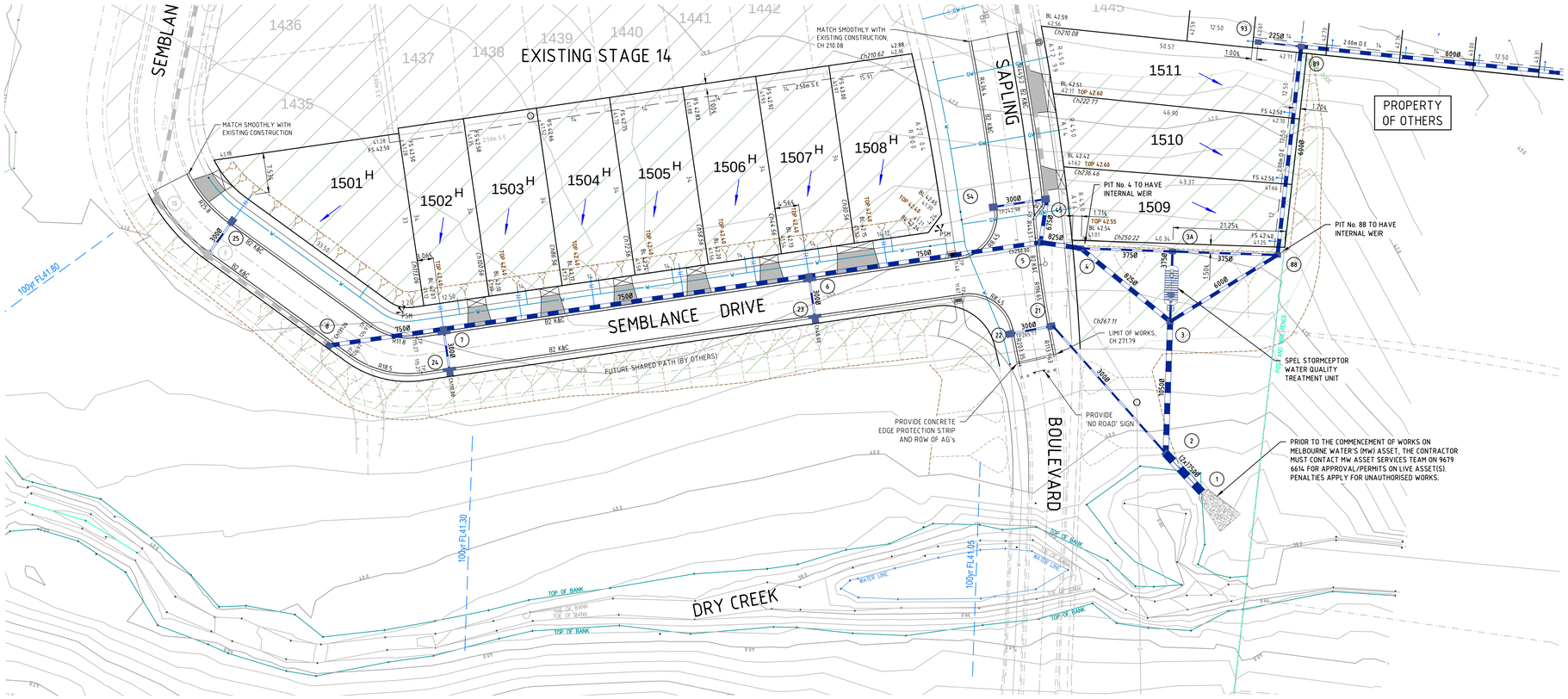
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF.	360-F10	MUNICIPALITY	WYNDHAM
SURVEY	BPD		
DESIGN	TBC	REFERENCE	8584 E/15
DRAWN			
CHECKED		SHEET	1 OF 18 P1
SCALE	As Shown	DATUM AHD	DATE April'17

ROTHWELL WEST
STAGE 15
LAYOUT PLAN AND DETAILS - SHEET 1

Plotted: Apr 28, 2017 - 9:39am

FOR CONTINUATION SEE SHEET 1



PLAN
1:500

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.

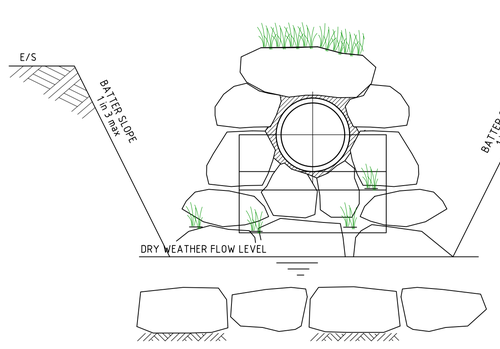
THE CONSTRUCTION WORK ON THE WATERWAY, AND REINSTATEMENT OF THE AFFECTED AREA IS TO BE CARRIED OUT TO THE SATISFACTION OF MELBOURNE WATER'S MAINTENANACE COORDINATOR.

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

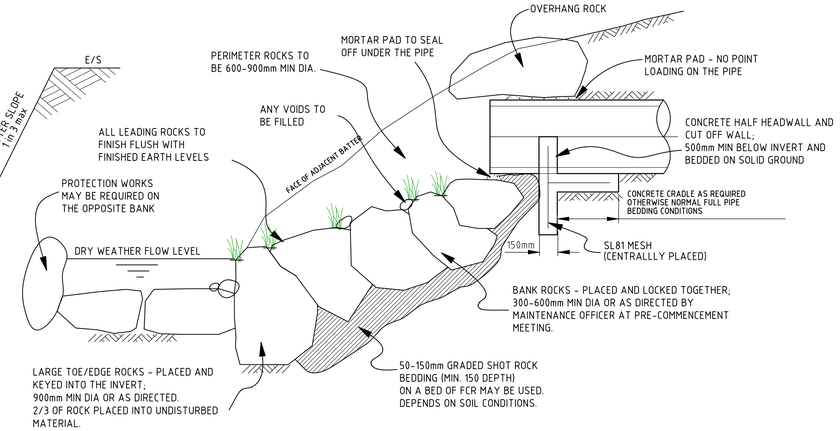
KEY TOE ROCKS TO TWO THIRDS DIAMETER INTO UNDISTURBED MATERIAL.

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.



FRONT VIEW
NTS



ELEVATION
NTS

MW CREEK OUTLET DETAIL AT PIT

DIAL BEFORE YOU DIG
www.1100.com.au

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.

PRELIMINARY

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

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	ROTHWELL WEST STAGE 15	MUNICIPALITY	WYNDHAM	
SURVEY	BPD	LAYOUT PLAN AND DETAILS - SHEET 2	REFERENCE	8584 E/15	
DESIGN	TBC				
DRAWN					
CHECKED			SCALE As Shown	DATUM AHD	DATE April'17	SHEET 2 OF 18	P1

Plotted: Apr 28, 2017 - 10:55am

T:\Projects\23581\Design\8586 Rothwell\CAD\Drainage\Stage 15\8586LE_15_PM1_A2_DET.dwg (P03)

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.

DIAL BEFORE YOU DIG
www.1100.com.au

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.

PAVEMENT COMPOSITION (Stage 15)

CONNECTOR STREET (545mm) - SAPLING BOULEVARD

WEARING COURSE	45mm	SIZE 14mm TYPE N CLASS 320 ASPHALT.
INTERMEDIATE COURSE	75mm	SIZE 20mm TYPE SI CLASS 320 ASPHALT.
BASE COURSE	75mm	SIZE 20mm TYPE SI CLASS 320 ASPHALT.
SUBBASE	100mm	SIZE 20mm CLASS 3 CEMENT TREATED CRUSHED ROCK.
CAPPING LAYER	250mm	SIZE 40mm RIPPED ROCK
TOTAL	545mm MIN.	
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 PLACE 'A' - ORIGIN DRIVE (WEST OF POWER ST)

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
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 - ORIGIN DRIVE (EAST OF POWER ST), COLONIAL CIRCUIT, POWER STREET, SEMBLANCE DRIVE,

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
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.

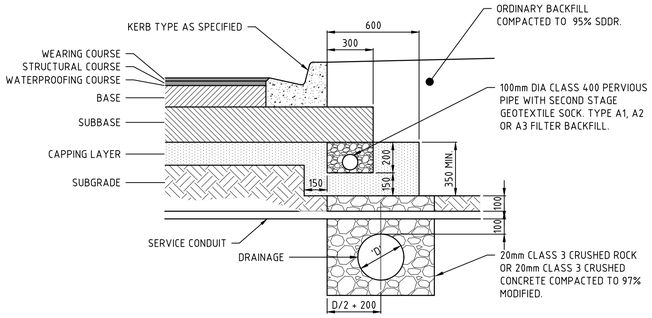
TRAFFIC ISLAND INFILLS AND CUT THROUGH WALKWAYS ROUNDABOUT CENTRE ANNULUS INFILLS

PAVEMENT COMPOSITION TO CONSIST OF:
A. 200mm DEPTH REINFORCED SL82 CONCRETE
B. 50mm COMPACTED CLASS 2 CRUSHED ROCK
PROVIDE 450mm N12 DEFORMED BARS AT 400mm CENTRES AT ALL CONCRETE INTERFACES

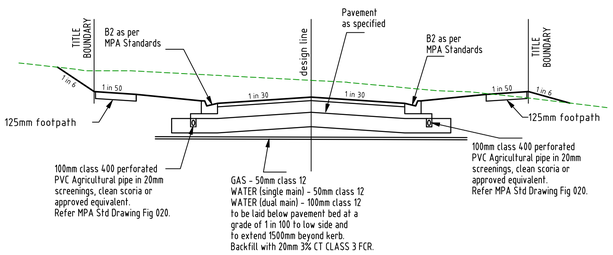
NOTE: ROUNDABOUT CENTRE ANNULUS INFILLS TO HAVE DOUBLE LAYER OF REINFORCEMENT.

PAVEMENT SHOULDER TO CONSIST OF:

A. 150mm DEPTH 20mm NOMINAL SIZE CLASS 3 F.C.R. COMPACTED TO 98% MODIFIED COMPACTION

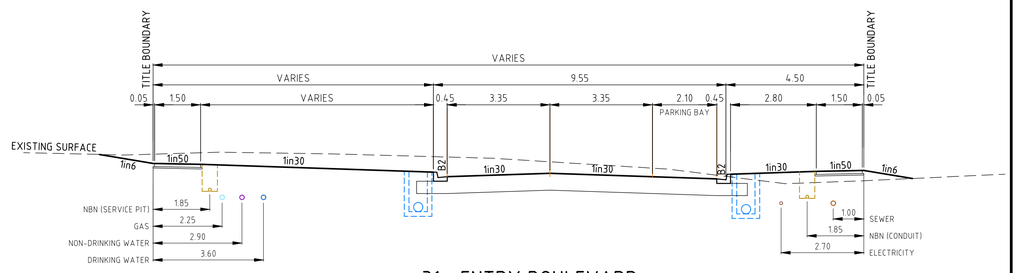


PAVEMENT COMPOSITION
SCALE 1:20

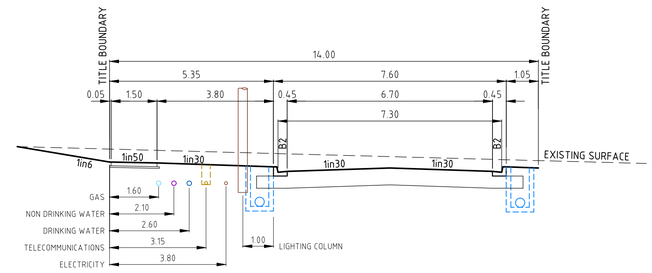


NOTE:
1. REFER CROSS SECTION SHEETS FOR INDIVIDUAL ROAD WIDTHS AND KERB & FOOTPATH OFFSETS.
2. REFER SERVICES SCHEDULE FOR SERVICES OFFSETS.

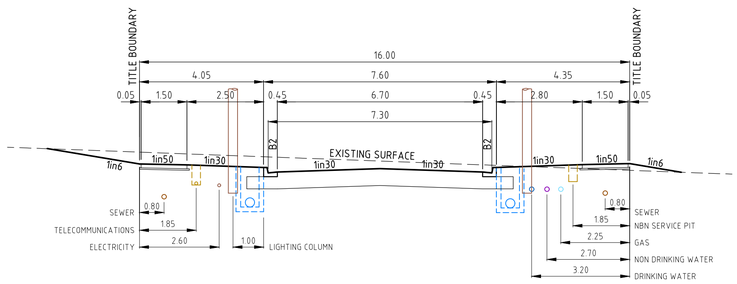
TYPICAL CROSS SECTION
(nts)



31m ENTRY BOULEVARD
SAPLING BOULEVARD



14m ROAD RESERVE - COLONIAL CIRCUIT (LOT 1531-1558), AND SEMBLANCE DRIVE



16m ROAD RESERVE - COLONIAL CIRCUIT (LOTS 1550-1558), POWER STREET AND ORIGIN DRIVE

PRELIMINARY

AMENDMENTS			
VER	DATE	REMARKS	

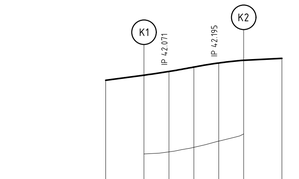
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

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

ROTHWELL WEST
STAGE 15
NOTES AND TYPICAL CROSS SECTIONS

MUNICIPALITY	WYNDHAM
REFERENCE	8584 E/15
SCALE	As Shown
DATUM	AHD
DATE	April'17
SHEET	3 OF 18
	P1

Plotted: Apr 28, 2017 - 7:44am



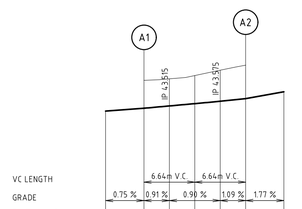
VC LENGTH							
GRADE		1.33 %	1.33 %	1.91 %	0.82 %	0.51 %	
DATUM 40							
DESIGN LIP	41.961	42.027	42.075	42.133	42.186	42.222	42.247
CHAINAGE	-5.000	0.000	3.256	6.508	9.761	13.015	18.015

LIP LINE K
H 1:400 V 1:40

Alignment K

Point no	Easting	Northing	RL
kg 15 K 1	1689.618	1950.937	42.027
kg 15 K 2	1696.801	1960.256	42.222
kg 15 K 3	1692.671	1952.005	42.075
kg 15 K 4	1695.098	1954.141	42.133
kg 15 K 5	1696.546	1957.033	42.186

Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
kg 15 K	1 2	-88.250	-8.450	13.015	2.384	1.766	2.709	3.174	3.254 42.133



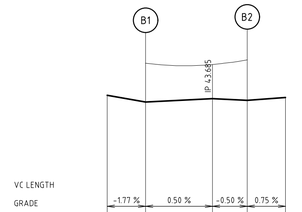
VC LENGTH						
GRADE	0.75 %	0.91 %	0.90 %	1.09 %	1.77 %	
DATUM 42						
DESIGN LIP	43.447	43.485	43.515	43.545	43.577	43.611	43.700
CHAINAGE	-5.000	0.000	3.318	6.637	9.955	13.273	18.273

LIP LINE A
H 1:400 V 1:40

Alignment A

Point no	Easting	Northing	RL
kg 15 A 1	1792.326	2029.863	43.485
kg 15 A 2	1801.595	2037.406	43.611
kg 15 A 3	1795.608	2030.173	43.515
kg 15 A 4	1798.522	2031.715	43.545
kg 15 A 5	1800.624	2034.255	43.577

Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
kg 15 A	1 2	-90.000	-8.450	13.273	2.475	1.832	2.741	3.234	3.318 43.545



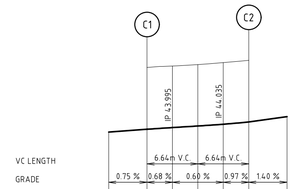
VC LENGTH						
GRADE	-1.77 %	0.50 %	-0.50 %	0.75 %		
DATUM 42						
DESIGN LIP	43.729	43.641	43.685	43.662	43.699	43.738	43.773
CHAINAGE	-5.000	0.000	8.738	13.273	18.273	23.273	28.273

LIP LINE B
H 1:400 V 1:40

Alignment B

Point no	Easting	Northing	RL
kg 15 B 1	1808.259	2036.722	43.641
kg 15 B 2	1815.802	2027.453	43.662
kg 15 B 3	1808.569	2033.440	43.657
kg 15 B 4	1810.111	2030.526	43.674
kg 15 B 5	1812.651	2028.424	43.678

Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
kg 15 B	1 2	-90.000	-8.450	13.273	2.475	1.832	2.741	3.234	3.318 43.674



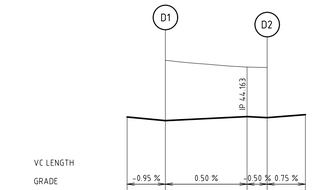
VC LENGTH							
GRADE	0.75 %	0.68 %	0.60 %	0.97 %	1.40 %		
DATUM 43							
DESIGN LIP	43.935	43.972	43.994	44.015	44.038	44.067	44.137
CHAINAGE	-5.000	0.000	3.318	6.637	9.955	13.273	18.273

LIP LINE C
H 1:400 V 1:40

Alignment C

Point no	Easting	Northing	RL
kg 15 C 1	1856.986	2023.226	43.972
kg 15 C 2	1866.255	2030.769	44.067
kg 15 C 3	1860.268	2023.535	43.994
kg 15 C 4	1863.182	2025.078	44.015
kg 15 C 5	1865.285	2027.618	44.038

Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
kg 15 C	1 2	-90.000	-8.450	13.273	2.475	1.832	2.741	3.234	3.318 44.015



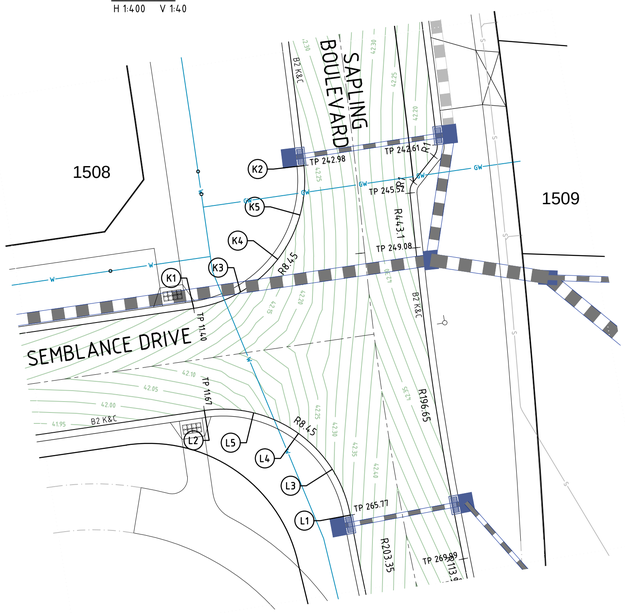
VC LENGTH						
GRADE	-0.95 %	0.50 %	-0.50 %	0.75 %		
DATUM 43						
DESIGN LIP	44.157	44.109	44.163	44.149	44.187	44.224	44.261
CHAINAGE	-5.000	0.000	10.649	13.273	18.273	23.273	28.273

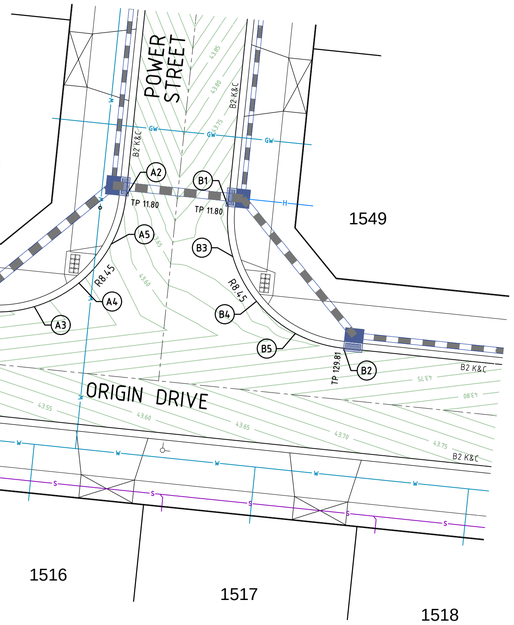
LIP LINE D
H 1:400 V 1:40

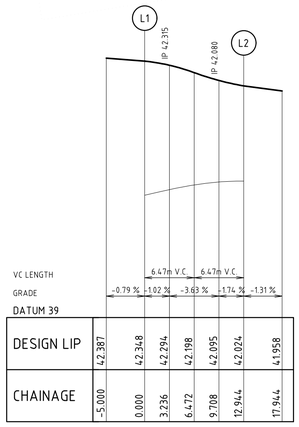
Alignment D

Point no	Easting	Northing	RL
kg 15 D 1	1872.920	2030.085	44.109
kg 15 D 2	1880.463	2020.816	44.149
kg 15 D 3	1873.229	2026.802	44.126
kg 15 D 4	1874.771	2023.888	44.142
kg 15 D 5	1877.311	2021.786	44.159

Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
kg 15 D	1 2	-90.000	-8.450	13.273	2.475	1.832	2.741	3.234	3.318 44.142







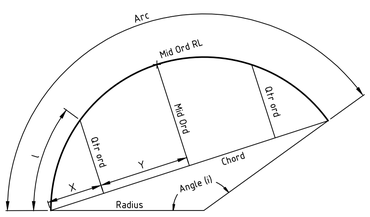
VC LENGTH							
GRADE	-0.79 %	-1.02 %	-3.63 %	-1.74 %	-1.31 %		
DATUM 39							
DESIGN LIP	42.387	42.348	42.294	42.198	42.095	42.024	41.958
CHAINAGE	-5.000	0.000	3.236	6.472	9.708	12.944	17.944

LIP LINE L
H 1:400 V 1:40

Alignment L

Point no	Easting	Northing	RL
kg 15 L 1	1699.833	1937.443	42.348
kg 15 L 2	1690.312	1944.268	42.024
kg 15 L 3	1698.657	1940.436	42.294
kg 15 L 4	1696.447	1942.773	42.197
kg 15 L 5	1693.525	1944.115	42.095

Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord RL
kg 15 L	1 2	-87.765	-8.450	12.944	2.360	1.748	2.700	3.157	3.236 42.197



CURVE SETOUT DIAGRAM

NOTE:
ALL SETOUT DETAILS ARE
AT LIP OF KERB

INTERSECTION DETAILS
1:200

LENGTHS ARE IN METRES
4 2 0 4 8 16
SCALE 1 : 200 (A1)

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

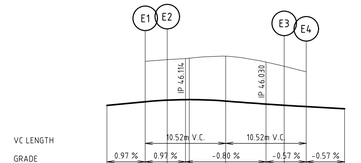
MELWAY REF.	360-F10
SURVEY	BPD
DESIGN	TBC
DRAWN	
CHECKED	

ROTHWELL WEST
STAGE 15
INTERSECTION DETAILS - SHEET 1

SCALE	As Shown	DATUM	AHD
DATE	April'17		

MUNICIPALITY: WYNDHAM
REFERENCE: 8584 E/15
SHEET: 4 OF 18 P1

Plotted: Apr 28, 2017 - 10:48am



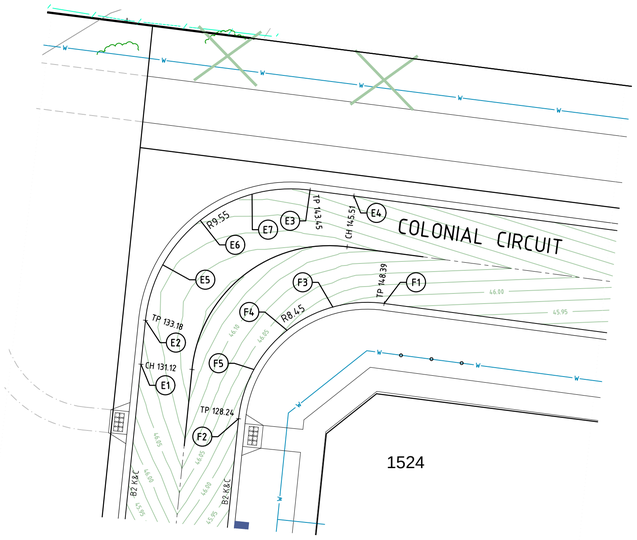
DESIGN LIP	46.015		46.063	46.084	46.091	46.072	46.033	46.017	46.000	45.972
CHAINAGE	-5.000	0.000	2.881	5.258	5.756	10.517	15.775	18.153	21.033	26.033

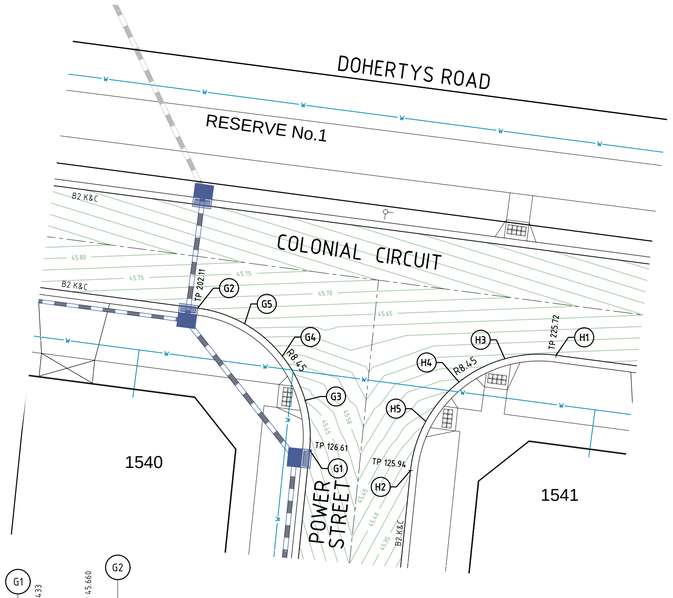
LIP LINE E
H 1:400 V 1:40

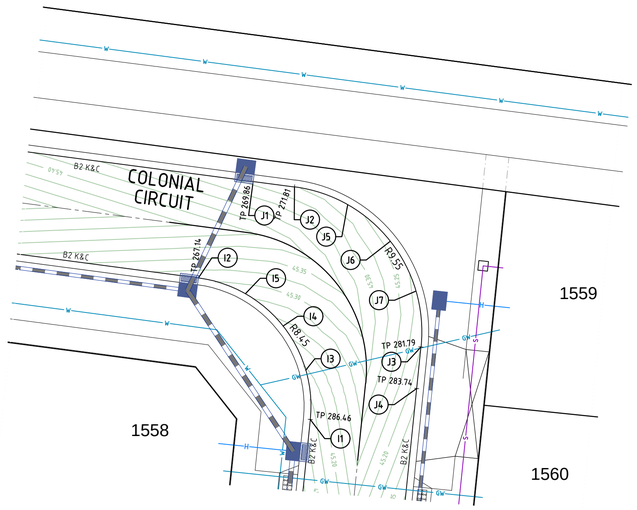
Alignment E

Point no		Easting	Northing	RL
kg 15 E	1	1736.873	2163.895	46.063
kg 15 E	2	1737.167	2166.760	46.084
kg 15 E	3	1747.911	2175.254	46.017
kg 15 E	4	1750.767	2174.878	46.000
kg 15 E	5	1738.296	2170.381	46.090
kg 15 E	6	1740.745	2173.277	46.072
kg 15 E	7	1744.128	2174.991	46.043

Curve no			Radius	Arc	Mid Ord	Qtr Ord	X	Y		Mid Ord RL
kg 15 E	2	3	91.625	9.550	15.272	2.894	2.140	3.131	3.717	3.818	46.072







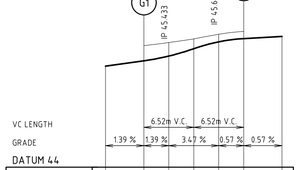
DESIGN LIP	45.955		45.984	46.003	46.022	46.029	46.028	46.008	45.959
CHAINAGE	-5.000	0.000	3.378	6.756	9.711	10.135	13.513	18.513	

LIP LINE F
H 1:400 V 1:40

Alignment F

Point no		Easting	Northing	RL
kg 15 F	1	1752.750	2167.860	45.984
kg 15 F	2	1743.244	2160.345	46.008
kg 15 F	3	1749.403	2167.628	46.003
kg 15 F	4	1746.409	2166.111	46.022
kg 15 F	5	1744.242	2163.549	46.028

Curve no			Radius	Arc	Mid Ord	Qtr Ord	X	Y		Mid Ord RL
kg 15 F	1	2	-91.625	-8.450	13.513	2.560	1.894	2.770	3.289	3.378	46.022



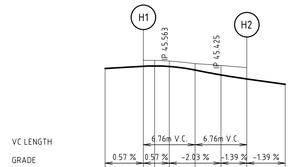
DESIGN LIP	45.319	45.388	45.450	45.546	45.636	45.678	45.706
CHAINAGE	-5.000	0.000	3.258	6.517	9.775	13.034	18.034

LIP LINE G
H 1:400 V 1:40

Alignment G

Point no		Easting	Northing	RL
kg 15 G	1	1813.319	2151.620	45.388
kg 15 G	2	1806.014	2160.861	45.678
kg 15 G	3	1813.026	2154.845	45.450
kg 15 G	4	1811.542	2157.723	45.546
kg 15 G	5	1809.084	2159.832	45.636

Curve no			Radius	Arc	Mid Ord	Qtr Ord	X	Y		Mid Ord RL
kg 15 G	1	2	-88.375	-8.450	13.034	2.391	1.770	2.711	3.178	3.258	45.546



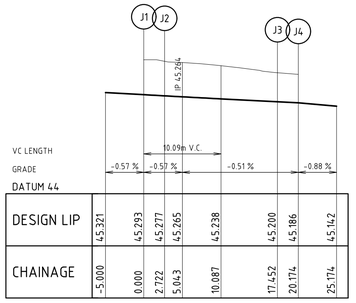
DESIGN LIP	45.515		45.544	45.548	45.541	45.494	45.431	45.379	45.309
CHAINAGE	-5.000	0.000	1.477	3.378	6.756	10.135	13.513	18.513	

LIP LINE H
H 1:400 V 1:40

Alignment H

Point no		Easting	Northing	RL
kg 15 H	1	1829.422	2157.785	45.544
kg 15 H	2	1819.916	2150.270	45.379
kg 15 H	3	1826.075	2157.553	45.541
kg 15 H	4	1823.081	2156.036	45.494
kg 15 H	5	1820.914	2153.474	45.431

Curve no			Radius	Arc	Mid Ord	Qtr Ord	X	Y		Mid Ord RL
kg 15 H	1	2	-91.625	-8.450	13.513	2.560	1.894	2.770	3.289	3.378	45.494



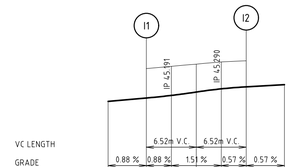
DESIGN LIP	45.321	45.293	45.277	45.265	45.238	45.200	45.186	45.142
CHAINAGE	-5.000	0.000	2.722	5.043	10.087	17.452	20.174	25.174

LIP LINE J
H 1:400 V 1:40

Alignment J

Point no		Easting	Northing	RL
kg 15 J	1	1874.057	2158.677	45.293
kg 15 J	2	1876.756	2158.323	45.277
kg 15 J	3	1885.012	2147.879	45.200
kg 15 J	4	1884.734	2145.171	45.186
kg 15 J	5	1880.226	2157.159	45.257
kg 15 J	6	1883.004	2154.776	45.238
kg 15 J	7	1886.681	2151.524	45.219

Curve no			Radius	Arc	Mid Ord	Qtr Ord	X	Y		Mid Ord RL
kg 15 J	2	3	88.375	9.550	14.730	2.702	2.001	3.064	3.592	3.683	45.238



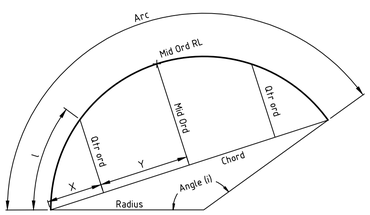
DESIGN LIP	45.118	45.162	45.196	45.240	45.282	45.308	45.337	
CHAINAGE	-5.000	0.000	3.258	6.517	9.775	13.034	18.034	

LIP LINE I
H 1:400 V 1:40

Alignment I

Point no		Easting	Northing	RL
kg 15 I	1	1877.791	2143.148	45.162
kg 15 I	2	1870.486	2152.389	45.308
kg 15 I	3	1877.498	2146.373	45.196
kg 15 I	4	1876.614	2149.251	45.240
kg 15 I	5	1873.556	2151.360	45.282

Curve no			Radius	Arc	Mid Ord	Qtr Ord	X	Y		Mid Ord RL
kg 15 I	1	2	-88.375	-8.450	13.034	2.391	1.770	2.711	3.178	3.258	45.240



CURVE SETOUT DIAGRAM

NOTE:
ALL SETOUT DETAILS ARE AT LIP OF KERB

LENGTHS ARE IN METRES
4 2 0 4 8 16
SCALE 1 : 200 (A1)

INTERSECTION DETAILS
1:200

PRELIMINARY

North

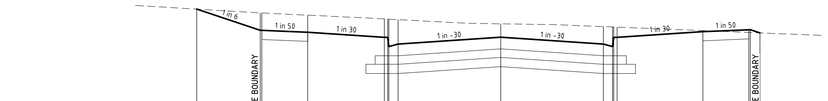
AMENDMENTS			
VER	DATE	REMARKS	

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	ROTHWELL WEST STAGE 15	MUNICIPALITY	WYNDHAM	
SURVEY	BPD				
DESIGN	TBC	INTERSECTION DETAILS - SHEET 2	REFERENCE	8584 E/15	
DRAWN					
CHECKED		SCALE As Shown	DATUM AHD	DATE April'17	SHEET 5 OF 18 P1

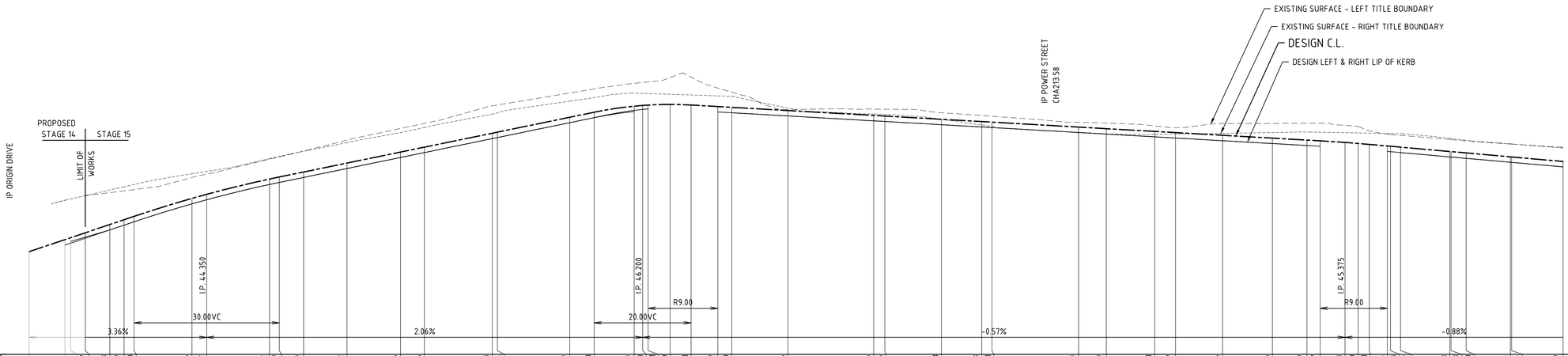
T:\Projects\23581\Design\RSR\ Rothwell\LAND\Drawings\Stage 15\RSR\E_15_R&L_05_INT.dwg (RPC)

Plotted: Apr 28, 2017 - 10:49am

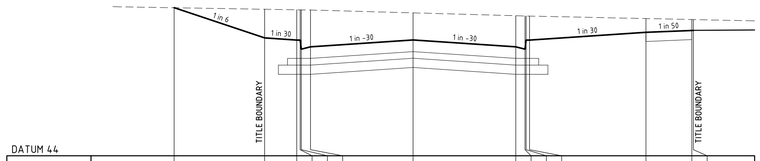

1 in 6
1 in 50
1 in 30
1 in -30
1 in -30
1 in 30
1 in 50
TITLE BOUNDARY
TITLE BOUNDARY

DATUM 42

| | | |

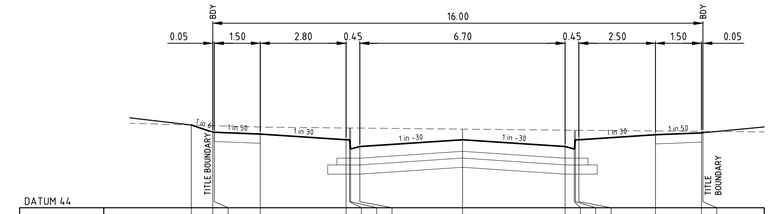

EXISTING SURFACE - LEFT TITLE BOUNDARY
EXISTING SURFACE - RIGHT TITLE BOUNDARY
DESIGN C.L.
DESIGN LEFT & RIGHT LIP OF KERB
IP POWER STREET CHA21358
PROPOSED
STAGE 14
STAGE 15
LIMIT OF WORKS
IP ORIGIN DRIVE
I.P. 44.350
I.P. 46.200
I.P. 45.375
R9.00
R9.00
30.00VC
20.00VC
3.36%
2.06%
-0.57%
-0.88%

| | | |


1 in 6
1 in 30
1 in -30
1 in -30
1 in 30
1 in 50
TITLE BOUNDARY
TITLE BOUNDARY

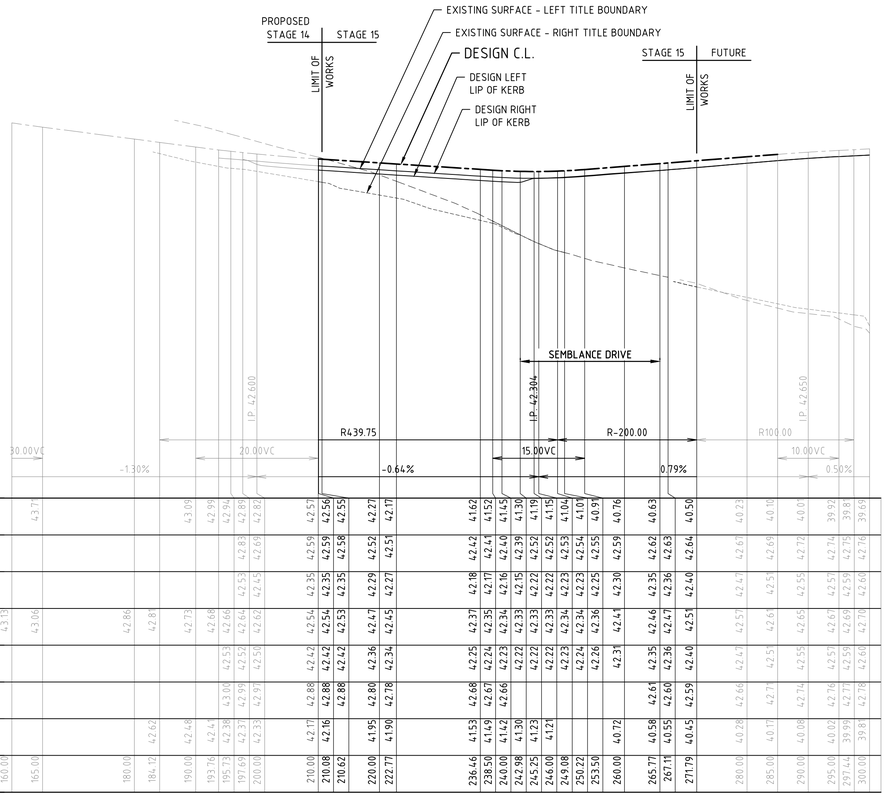
DATUM 44

| | | |

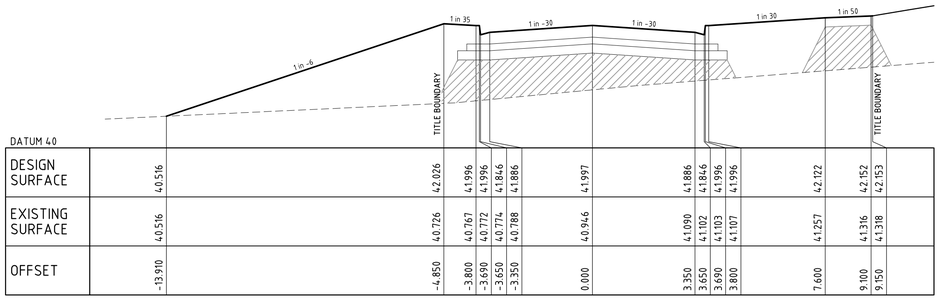

BDY
16.00
BDY
0.05
1.50
2.80
0.45
6.70
0.45
2.50
1.50
0.05
1 in 6
1 in 50
1 in 30
1 in -30
1 in -30
1 in 30
1 in 50
TITLE BOUNDARY
TITLE BOUNDARY

DATUM 44

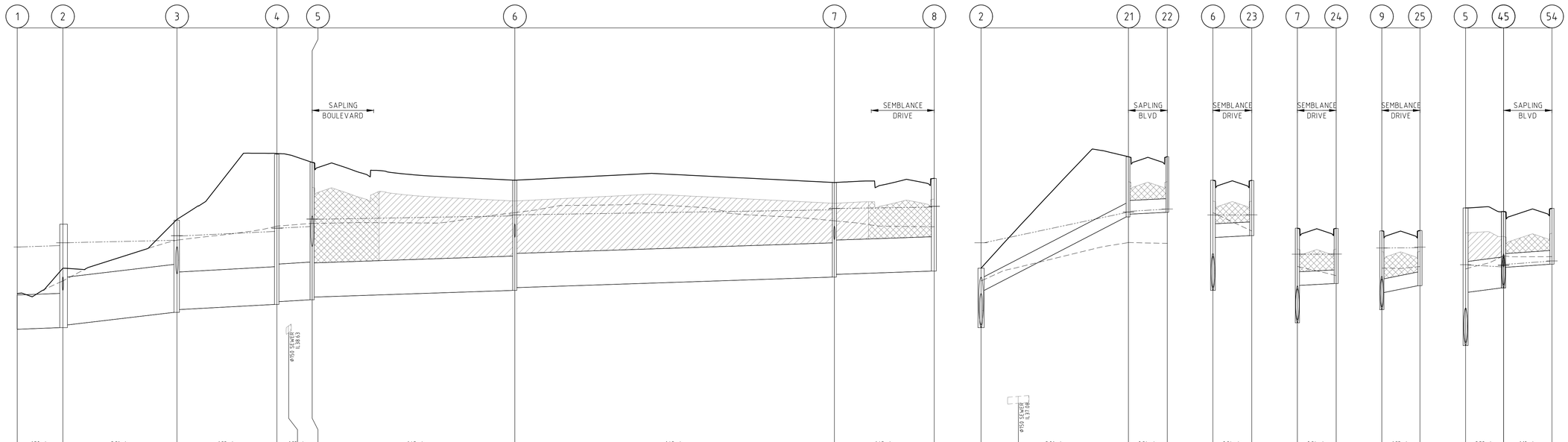
| | | |


PROPOSED
STAGE 14
STAGE 15
LIMIT OF WORKS
EXISTING SURFACE - LEFT TITLE BOUNDARY
EXISTING SURFACE - RIGHT TITLE BOUNDARY
DESIGN C.L.
DESIGN LEFT LIP OF KERB
DESIGN RIGHT LIP OF KERB
STAGE 15
FUTURE
LIMIT OF WORKS
SEMBLANCE DRIVE
I.P. 42.600
I.P. 42.394
I.P. 42.650
HC RADIUS
VC LENGTH
DESIGN GRADELINE
DATUM 37
30.00VC
20.00VC
15.00VC
10.00VC
-1.30%
-0.64%
0.79%
0.50%
R439.75
R-200.00
R100.00

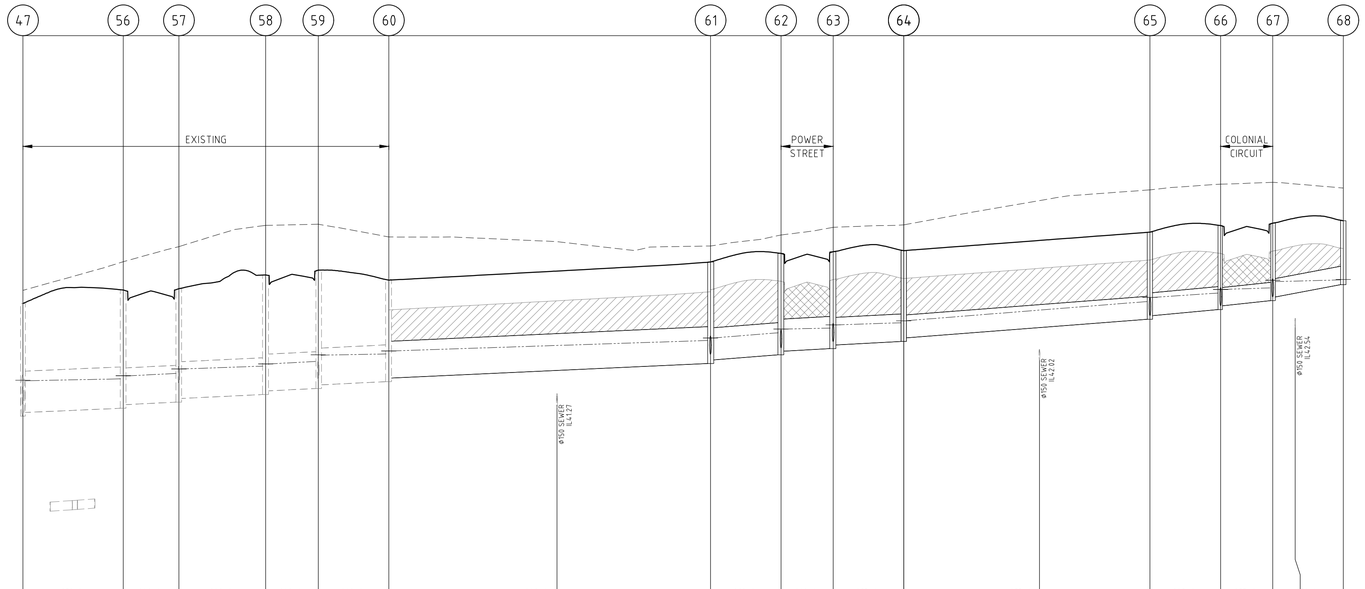
| | | |

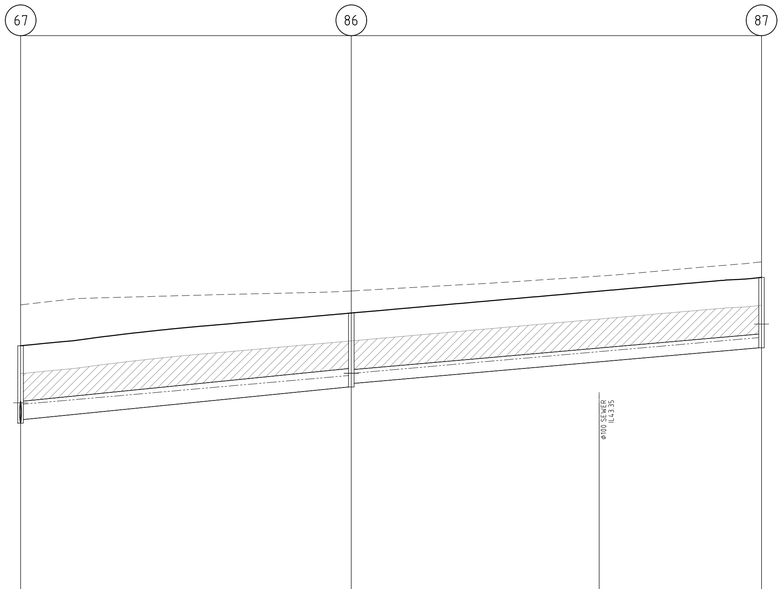

1 in 35
1 in -30
1 in -30
1 in 30
1 in 50
1 in -6
TITLE BOUNDARY
TITLE BOUNDARY

| DATUM 40 | | |

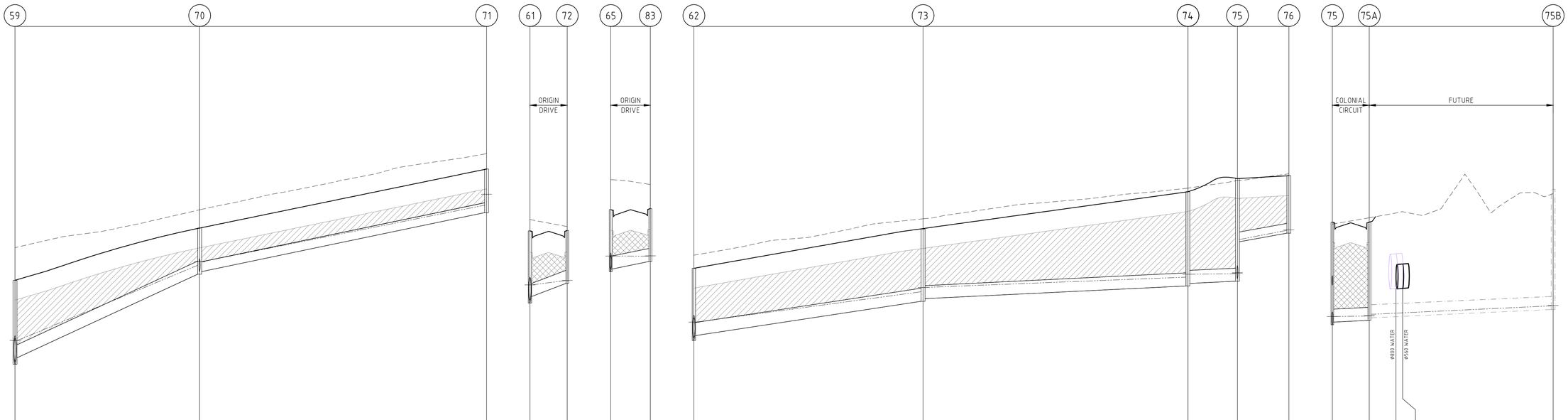

1
2
3
4
5
6
7
8
SAPLING BOULEVARD
SEMBLANCE DRIVE
ø450 SEWER IL3893
2
21
22
6
23
7
24
9
25
5
45
54
SAPLING BLVD
SEMBLANCE DRIVE
SEMBLANCE DRIVE
SEMBLANCE DRIVE
SAPLING BLVD
ø450 SEWER IL3708

| | | |

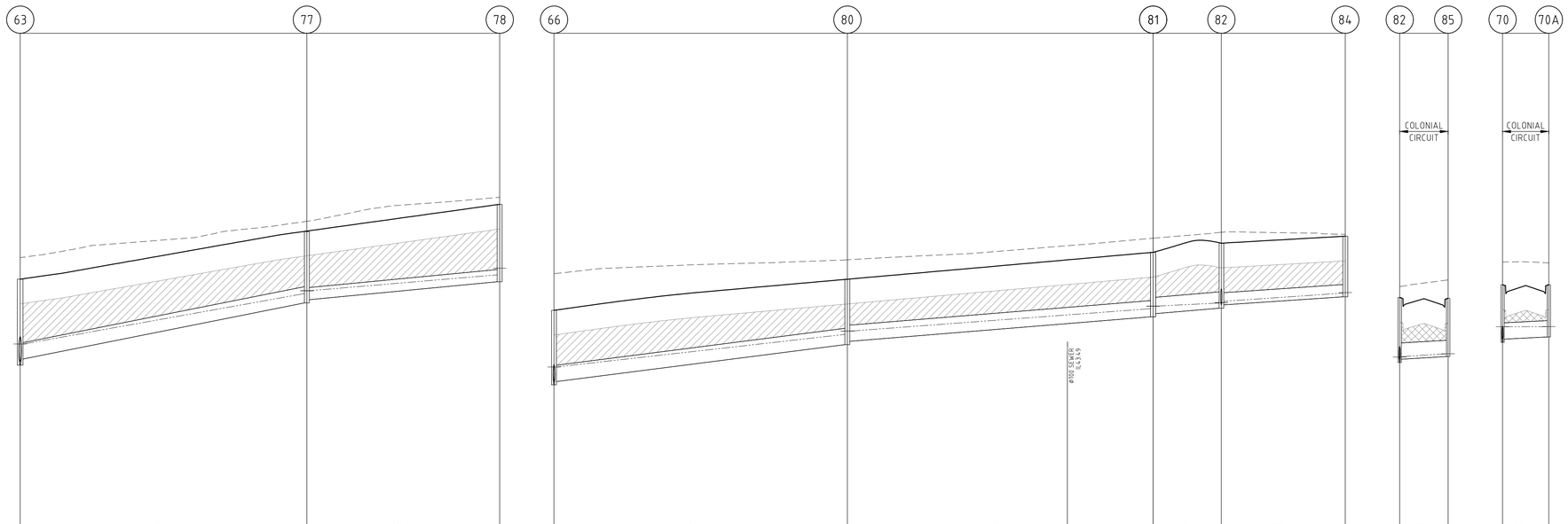

47
56
57
58
59
60
61
62
63
64
65
66
67
68
EXISTING
POWER STREET
COLONIAL CIRCUIT
Φ450 SEWER IL4.127
Φ450 SEWER IL4.222
Φ450 SEWER IL4.254


67
86
87
Φ900 SEWER IL4.335

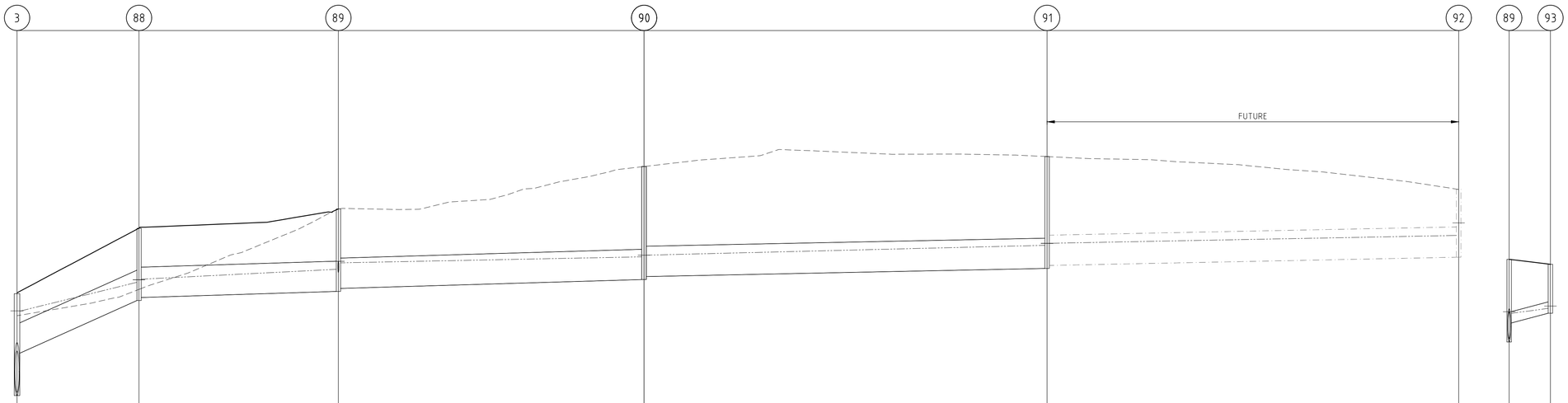
| | | |


59
70
71
61
72
65
83
62
73
74
75
76
75
75A
75B
ORIGIN DRIVE
ORIGIN DRIVE
COLONIAL CIRCUIT
FUTURE
ø800 WATER
ø560 WATER

| | | |


63
77
78
66
80
81
82
84
82
85
70
70A
COLONIAL CIRCUIT
COLONIAL CIRCUIT
Ø900 STEEL CASING

| | | |


3
88
89
90
91
92
89
93
FUTURE

| | | |

Date
28/04/2017

DRAINAGE PIT SCHEDULE
Rothwell West - Stage 15

PIT		INTERNAL		INLET		OUTLET		PIT		
PIT No	TYPE	WD	LEN	DIA	INV LEV	DIA	INV LEV	FINISHED COVER RL	DEPTH	REMARKS
1	EW			(2x)750	38.70			39.450	0.750	
2	Junction Pit	2050	1350	1050	38.80	(2x)750	38.74	41.000	2.265	MPA EDCM STD DWG 607
				300	39.55					
3	Junction Pit	1200	1200	825	39.13	1050	39.07	41.089	2.018	MPA EDCM STD DWG 607
				600	39.91					
4	Junction Pit	1050	900	825	39.30	825	39.24	42.533	3.289	MPA EDCM STD DWG 607
5	Junction Pit	1050	1050	750	39.40	825	39.34	42.355	3.010	MPA EDCM STD DWG 607
				675	40.51					
6	Double Channel Grating Pit	1050	900	750	39.61	750	39.55	41.963	2.412	MPA EDCM STD DWG 604 & 605
				300	40.71					
7	Double Channel Grating Pit	900	900	750	39.90	750	39.84	41.913	2.071	MPA EDCM STD DWG 604 & 605
				300	40.66					
8	Junction Pit	900	900	675	40.03	750	39.97	42.001	2.027	MPA EDCM STD DWG 607
21	Channel Grating Pit	600	900	300	41.22	300	41.16	42.478	1.318	MPA EDCM STD DWG 601 & 605
22	Channel Grating Pit	600	900			300	41.26	42.479	1.219	MPA EDCM STD DWG 601 & 605
23	Double Channel Grating Pit	600	900			300	40.75	41.957	1.208	MPA EDCM STD DWG 604 & 605
24	Double Channel Grating Pit	600	900			300	40.70	41.907	1.208	MPA EDCM STD DWG 604 & 605
25	Channel Grating Pit	600	900			300	40.65	41.863	1.209	MPA EDCM STD DWG 601 & 605
45	Channel Grating Pit	900	900	675	40.67	675	40.61	42.280	1.674	MPA EDCM STD DWG 601 & 607
				300	41.06					
61	Junction Pit	750	900	525	42.01	600	41.95	43.605	1.656	MPA EDCM STD DWG 605
				300	42.10					
62	Channel Grating Pit	750	900	525	42.15	525	42.09	43.747	1.657	MPA EDCM STD DWG 601 & 607
				300	42.20					
63	Channel Grating Pit	750	900	450	42.25	525	42.19	43.774	1.582	MPA EDCM STD DWG 601 & 607
				300	42.30					
64	Channel Grating Pit	600	900	375	42.37	450	42.31	43.791	1.483	MPA EDCM STD DWG 601 & 605
65	Junction Pit	600	900	375	42.73	375	42.67	44.093	1.423	MPA EDCM STD DWG 605
				300	42.73					
66	Channel Grating Pit	600	900	300	42.89	375	42.83	44.201	1.371	MPA EDCM STD DWG 601 & 605
				300	42.89					
67	Channel Grating Pit	600	900	300	43.04	300	42.98	44.240	1.265	MPA EDCM STD DWG 601 & 605
				300	43.04					
68	Channel Grating Pit	600	900			300	43.24	44.279	1.042	MPA EDCM STD DWG 601 & 605
70	Channel Grating Pit	600	900	225	43.67	300	43.61	44.671	1.059	MPA EDCM STD DWG 601 & 605
				300	43.67					
70A	Channel Grating Pit	600	900			300	43.71	44.670	0.960	MPA EDCM STD DWG 601 & 605
71	Junction Pit	600	900			225	45.03	46.026	1.000	MPA EDCM STD DWG 605
72	Channel Grating Pit	600	900			300	42.40	43.614	1.214	MPA EDCM STD DWG 601 & 605
73	Channel Grating Pit	600	900	300	43.05	300	42.99	44.649	1.659	MPA EDCM STD DWG 601 & 605
74	Junction Pit	600	900	300	43.40	300	43.34	45.505	2.165	MPA EDCM STD DWG 605
75	Channel Grating Pit	600	900	225	44.36	300	43.45	45.806	2.356	MPA EDCM STD DWG 601 & 605
				300	43.51					
75A	Channel Grating Pit	600	900	300	43.61	300	43.55	45.806	2.256	MPA EDCM STD DWG 601 & 605
75B	*Future Pit*	*600*	*900*			*300*	*43.80*	*46.562*	*2.762*	*MPA EDCM STD DWG 601 & 605*
76	Junction Pit	600	900			225	44.55	45.874	1.321	MPA EDCM STD DWG 605
77	Channel Grating Pit	600	900	225	43.40	300	43.34	44.649	1.313	MPA EDCM STD DWG 601 & 605
78	Junction Pit	600	900			225	43.73	45.152	1.426	MPA EDCM STD DWG 605
80	Channel Grating Pit	600	900	300	43.63	300	43.57	44.773	1.204	MPA EDCM STD DWG 601 & 605
81	Junction Pit	600	900	300	44.14	300	44.08	45.268	1.188	MPA EDCM STD DWG 605
82	Channel Grating Pit	600	900	225	44.30	300	44.24	45.436	1.196	MPA EDCM STD DWG 601 & 605
				300	44.30					
83	Channel Grating Pit	600	900			300	42.90	44.118	1.215	MPA EDCM STD DWG 601 & 605
84	Junction Pit	600	900			225	44.45	45.565	1.115	MPA EDCM STD DWG 605
85	Channel Grating Pit	600	900			300	44.35	45.421	1.071	MPA EDCM STD DWG 601 & 605
86	Channel Grating Pit	600	900	225	43.63	300	43.57	44.773	1.207	MPA EDCM STD DWG 601 & 605
87	Junction Pit	600	900			225	44.21	45.355	1.150	MPA EDCM STD DWG 605
88	Junction Pit	825	900	600	41.01	600	40.95	42.384	1.431	MPA EDCM STD DWG 607
89	Junction Pit	825	900	600	41.19	600	41.13	42.767	1.635	MPA EDCM STD DWG 607
				225	41.51					
90	Junction Pit	750	900	600	41.43	600	41.37	43.607	2.240	MPA EDCM STD DWG 601 & 607
91	Junction Pit	750	900	600	41.65	600	41.59	43.803	2.216	MPA EDCM STD DWG 607
92	Junction Pit	750	900			600	41.81	43.153	1.343	MPA EDCM STD DWG 607
93	Junction Pit	600	900			225	41.70	42.670	0.970	MPA EDCM STD DWG 605

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 15
DRAINAGE PIT SCHEDULE

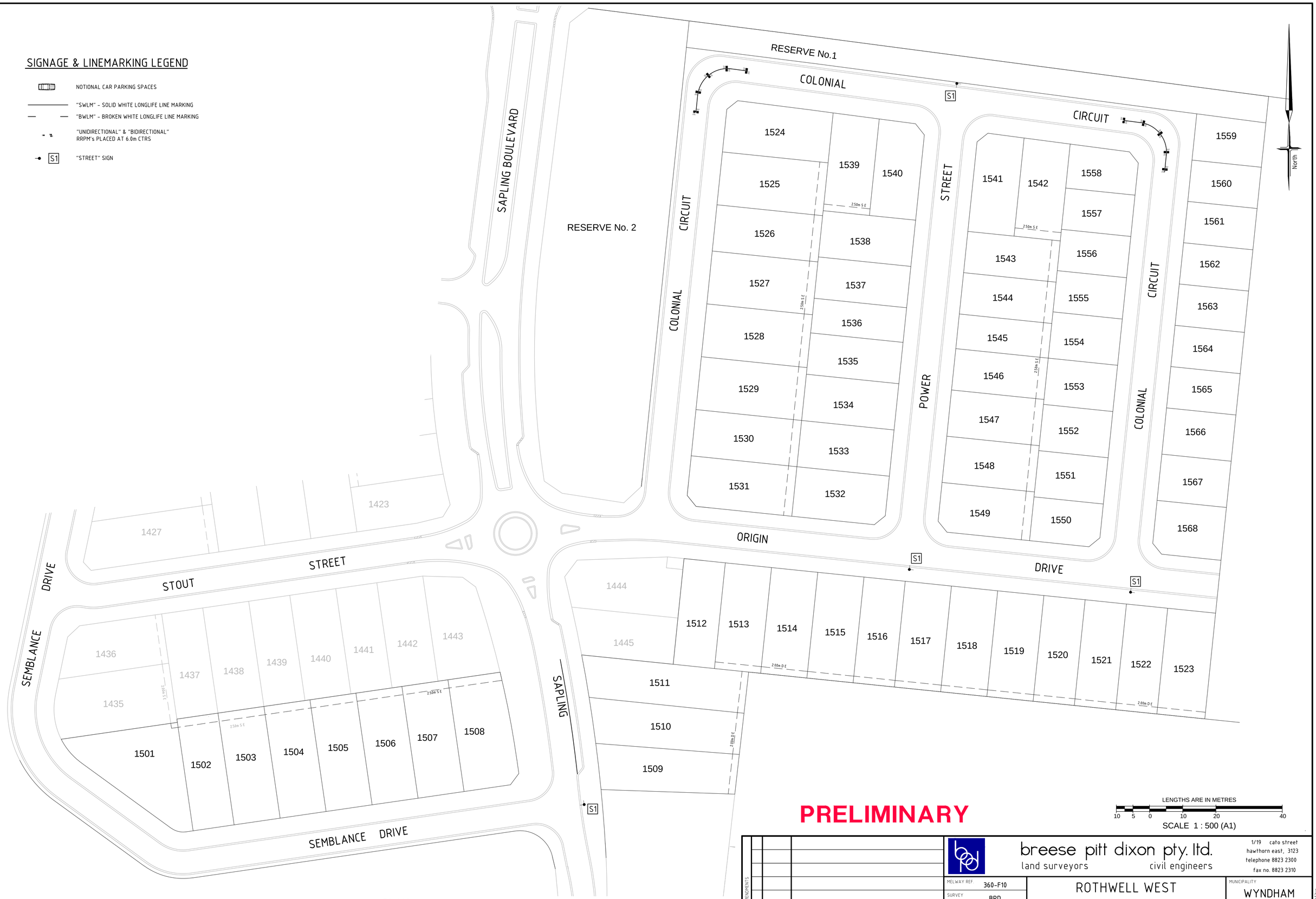
MUNICIPALITY: WYNDHAM
REFERENCE: 8584 E/15
SCALE: As Shown
DATUM: AHD
DATE: April'17
SHEET: 17 OF 18 P1

Plotted: Apr 28, 2017 - 10:46am

T:\Projects\23581\Design\RSR\ Rothwell\CAD\Drainage\Stage 15\RSR15_IS_D12_17_DIS.dwg [P17]

SIGNAGE & LINEMARKING LEGEND

- NOTIONAL CAR PARKING SPACES
- "SWLM" – SOLID WHITE LONGLIFE LINE MARKING
- "BWLM" – BROKEN WHITE LONGLIFE LINE MARKING
- "UNIDIRECTIONAL" & "BIDIRECTIONAL" RRPM's PLACED AT 6.0m CTRS
- S1 "STREET" SIGN



PLAN
1:500

PRELIMINARY

LENGTHS ARE IN METRES
10 5 0 10 20 40
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 15
SIGNAGE & LINEMARKING PLAN

MUNICIPALITY	WYNDHAM
REFERENCE	8584 E/15
SCALE	As Shown
DATUM	AHD
DATE	April'17
SHEET	18 OF 18 P1

T:\Projects\8584\Design\8584_Rothwell\CAD\Drawings\Stage 15\8584E_15_D18_LM.dwg (P1B)
Plotted: Apr 28, 2017 - 10:53am

AMENDMENTS

VER	DATE	REMARKS

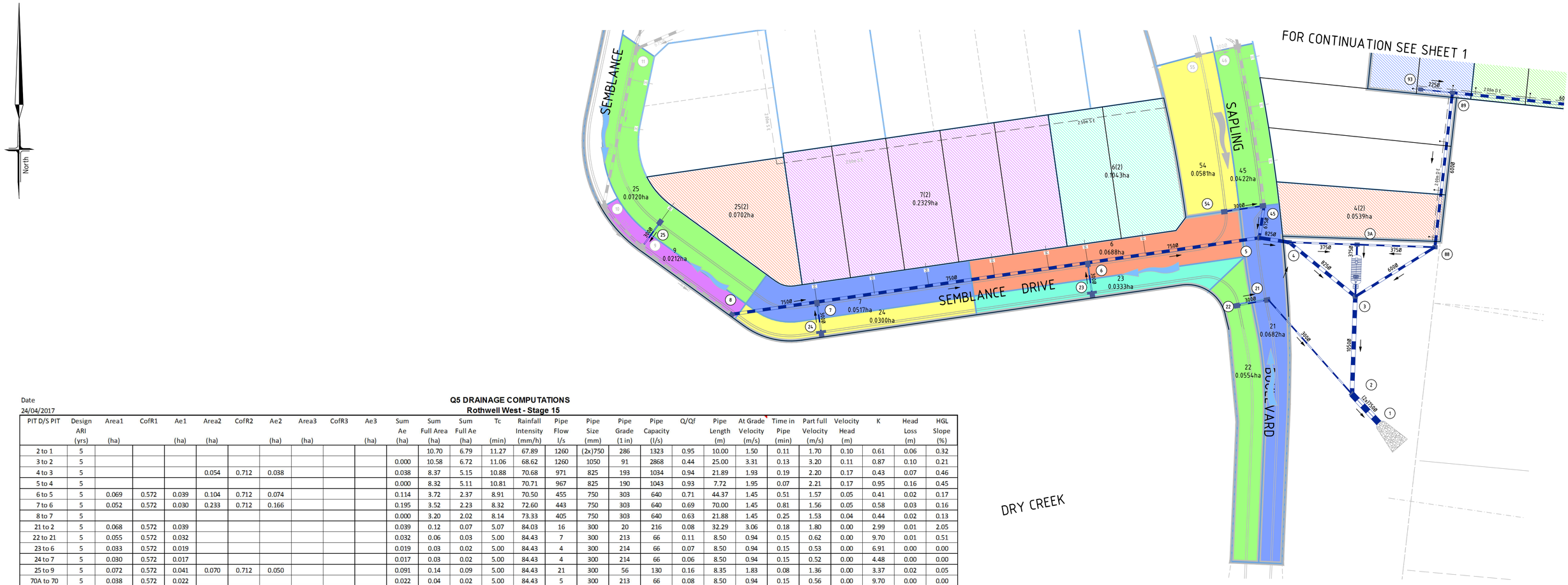
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

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

ROTHWELL WEST
STAGE 15
Q5 DRAINAGE CATCHMENT PLAN

MUNICIPALITY	WYNDHAM
REFERENCE	8584 E/15
SCALE	As Shown
DATUM	AHD
DATE	April'17
SHEET	1 OF 3 P1

Plotted: Apr 28, 2017 - 9:31am



Date
24/04/2017

Q5 DRAINAGE COMPUTATIONS
Rothwell West - Stage 15

PIT D/S PIT	Design ARI (yrs)	Area1 (ha)	CofR1	Ae1 (ha)	Area2 (ha)	CofR2	Ae2 (ha)	Area3 (ha)	CofR3	Ae3 (ha)	Sum Ae (ha)	Sum Full Area (ha)	Sum Full Ae (ha)	Tc (min)	Rainfall Intensity (mm/h)	Pipe Flow l/s	Pipe Size (mm)	Pipe Grade (1 in)	Pipe Capacity (l/s)	Q/Qf	Pipe Length (m)	At Grade Velocity (m/s)	Time in Pipe (min)	Part full Velocity (m/s)	Velocity Head (m)	K	Head Loss (m)	HGL Slope (%)
2 to 1	5											10.70	6.79	11.27	67.89	1260	(2x)750	286	1323	0.95	10.00	1.50	0.11	1.70	0.10	0.61	0.06	0.32
3 to 2	5										0.000	10.58	6.72	11.06	68.62	1260	1050	91	2868	0.44	25.00	3.31	0.13	3.20	0.11	0.87	0.10	0.21
4 to 3	5				0.054	0.712	0.038				0.038	8.37	5.15	10.88	70.68	971	825	193	1034	0.94	21.89	1.93	0.19	2.20	0.17	0.43	0.07	0.46
5 to 4	5										0.000	8.32	5.11	10.81	70.71	967	825	190	1043	0.93	7.72	1.95	0.07	2.21	0.17	0.95	0.16	0.45
6 to 5	5	0.069	0.572	0.039	0.104	0.712	0.074				0.114	3.72	2.37	8.91	70.50	455	750	303	640	0.71	44.37	1.45	0.51	1.57	0.05	0.41	0.02	0.17
7 to 6	5	0.052	0.572	0.030	0.233	0.712	0.166				0.195	3.52	2.23	8.32	72.60	443	750	303	640	0.69	70.00	1.45	0.81	1.56	0.05	0.58	0.03	0.16
8 to 7	5										0.000	3.20	2.02	8.14	73.33	405	750	303	640	0.63	21.88	1.45	0.25	1.53	0.04	0.44	0.02	0.13
21 to 2	5	0.068	0.572	0.039							0.039	0.12	0.07	5.07	84.03	16	300	20	216	0.08	32.29	3.06	0.18	1.80	0.00	2.99	0.01	2.05
22 to 21	5	0.055	0.572	0.032							0.032	0.06	0.03	5.00	84.43	7	300	213	66	0.11	8.50	0.94	0.15	0.62	0.00	9.70	0.01	0.51
23 to 6	5	0.033	0.572	0.019							0.019	0.03	0.02	5.00	84.43	4	300	214	66	0.07	8.50	0.94	0.15	0.53	0.00	6.91	0.00	0.00
24 to 7	5	0.030	0.572	0.017							0.017	0.03	0.02	5.00	84.43	4	300	214	66	0.06	8.50	0.94	0.15	0.52	0.00	4.48	0.00	0.00
25 to 9	5	0.072	0.572	0.041	0.070	0.712	0.050				0.091	0.14	0.09	5.00	84.43	21	300	56	130	0.16	8.35	1.83	0.08	1.36	0.00	3.37	0.02	0.05
70A to 70	5	0.038	0.572	0.022							0.022	0.04	0.02	5.00	84.43	5	300	213	66	0.08	8.50	0.94	0.15	0.56	0.00	9.70	0.00	0.00
45 to 5	5	0.042	0.572	0.024							0.024	4.59	2.75	10.74	72.08	527	675	87	900	0.59	8.31	2.52	0.06	2.61	0.11	0.30	0.03	-0.49
54 to 45	5	0.058	0.572	0.033							0.033	0.06	0.03	5.00	84.43	8	300	156	77	0.10	10.60	1.10	0.16	0.70	0.00	7.00	0.00	0.66
61 to 60	5				0.042	0.712	0.030				0.030	2.22	1.41	6.91	77.70	295	600	222	412	0.72	52.50	1.46	0.60	1.58	0.06	0.74	0.04	0.33
62 to 61	5	0.043	0.572	0.025							0.025	2.13	1.35	6.81	78.05	284	525	143	360	0.79	11.53	1.66	0.12	1.84	0.09	0.69	0.06	0.74
63 to 62	5	0.042	0.572	0.024							0.024	1.54	0.97	6.74	76.60	204	525	200	304	0.67	8.50	1.41	0.10	1.51	0.05	1.12	0.05	0.19
64 to 63	5	0.059	0.572	0.034	0.041	0.712	0.029				0.063	1.18	0.73	6.64	76.56	154	450	206	199	0.77	11.53	1.25	0.15	1.38	0.05	0.65	0.03	0.32
65 to 64	5				0.027	0.712	0.019				0.019	1.08	0.66	6.31	77.89	144	375	133	152	0.95	40.20	1.38	0.49	1.56	0.09	0.79	0.07	0.78
66 to 65	5	0.044	0.572	0.025							0.025	1.00	0.61	6.21	78.35	133	375	115	163	0.82	11.53	1.48	0.13	1.65	0.07	0.79	0.06	0.62
67 to 66	5	0.043	0.572	0.025							0.025	0.56	0.33	6.01	78.68	71	300	100	97	0.74	8.50	1.37	0.10	1.50	0.05	1.98	0.12	0.29
68 to 67	5	0.036	0.572	0.021	0.033	0.712	0.024				0.044	0.07	0.04	5.00	84.43	10	300	57	128	0.08	11.53	1.81	0.11	1.09	0.00	7.00	0.01	0.24
70 to 59	5	0.069	0.572	0.039	0.096	0.712	0.068				0.108	0.45	0.31	5.55	81.29	69	300	22	206	0.34	42.46	2.91	0.24	2.62	0.05	1.68	0.08	4.08
71 to 70	5				0.248	0.712	0.176				0.176	0.25	0.18	5.00	84.43	41	225	49	64	0.64	65.99	1.62	0.68	1.72	0.06	4.55	0.25	1.97
72 to 61	5	0.055	0.572	0.031							0.031	0.05	0.03	5.00	84.43	7	300	29	181	0.04	8.58	2.56	0.06	1.25	0.00	9.70	0.01	1.14
73 to 62	5	0.064	0.572	0.036	0.113	0.712	0.081				0.117	0.54	0.35	6.03	80.99	78	300	67	118	0.66	52.71	1.67	0.53	1.79	0.06	1.58	0.10	1.32
74 to 73	5				0.144	0.712	0.102				0.102	0.37	0.24	5.52	83.48	54	300	210	67	0.81	60.90	0.94	1.07	1.05	0.03	2.24	0.07	0.39
75 to 74	5	0.060	0.572	0.034							0.034	0.22	0.13	5.42	82.01	30	300	228	64	0.47	11.39	0.91	0.21	0.89	0.01	1.79	0.02	0.10
76 to 75	5				0.041	0.712	0.029				0.029	0.04	0.03	5.00	84.43	7	225	60	58	0.12	11.83	1.46	0.14	0.98	0.00	7.00	0.01	1.79
75A to 75	5	0.039	0.572	0.022							0.022	0.12	0.07	5.35	82.42	16	300	212	66	0.24	8.49	0.94	0.15	0.77	0.00	1.74	0.00	0.15
75B to 75A	5	0.084	0.572	0.048							0.048	0.08	0.05	5.00	84.43	11	300	223	65	0.17	42.28	0.92	0.77	0.69	0.00	7.00	0.01	0.46
77 to 63	5	0.062	0.572	0.035	0.113	0.712	0.081				0.116	0.32	0.22	5.30	82.74	50	300	51	135	0.37	52.74	1.91	0.46	1.77	0.03	2.06	0.05	1.76
78 to 77	5				0.141	0.712	0.100				0.100	0.14	0.10	5.00	84.43	24	225	107	43	0.54	35.46	1.09	0.54	1.11	0.02	6.82	0.12	0.83
85 to 82	5	0.033	0.572	0.019							0.019	0.03	0.02	5.00	84.43	4	300	179	72	0.06	8.93	1.02	0.15	0.57	0.00	9.70	0.00	0.57
83 to 65	5	0.055	0.572	0.032							0.032	0.06	0.03	5.00	84.43	7	300	53	133	0.06	9.12	1.88	0.08	1.01	0.00	9.70	0.01	-0.02
80 to 66	5	0.060	0.572	0.034	0.088	0.712	0.063				0.097	0.39	0.26	5.76	81.75	59	300	79	109	0.54	53.96	1.54	0.59	1.57	0.04	1.69	0.06	1.11
81 to 80	5				0.135	0.712	0.096				0.096	0.25	0.17	5.29	83.83	38	300	125	87	0.44	56.24	1.23	0.76	1.19	0.01	3.13	0.05	0.73
82 to 81	5	0.037	0.572	0.021							0.021	0.11	0.07	5.19	83.34	16	300	126	86	0.19	12.56	1.22	0.17	0.93	0.00	1.86	0.01	0.47
84 to 82	5				0.041	0.712	0.029				0.029	0.04	0.03	5.00	84.43	7	225	152	36	0.19	22.81	0.92	0.41	0.70	0.00	7.00	0.01	0.66
86 to 67	5	0.065	0.572	0.037	0.085	0.712	0.061				0.098	0.45	0.26	5.56	81.24	58	300	102	96	0.61	53.99	1.36	0.66	1.42	0.03	1.12	0.04	0.87
87 to 86	5				0.160	0.712	0.114	0.141	0.324	0.046	0.160	0.30	0.16	5.00	84.43	37	225	115	42	0.90	66.96	1.05	1.06	1.19	0.05	4.88	0.22	0.87
88 to 3	5										0.000	2.21	1.57	8.18	69.32	302	600	23	1277	0.24	24.14	4.52	0.09	3.70	0.06	0.84	0.05	2.36
89 to 88	5				0.174	0.712	0.124				0.124	2.21	1.57	7.85	70.55	308	600	331	338	0.91	39.49	1.19	0.55	1.35	0.06	2.12	0.16	0.50
90 to 89	5				0.174	0.712	0.124				0.124	1.95	1.39	7.34	72.58	279	600	346	330	0.85	60.53	1.17	0.86	1.31	0.05	0.66	0.03	0.20
91 to 90	5				0.256	0.712	0.182				0.182	1.77	1.26	6.68	75.49	265	600	500	275	0.96	79.80	0.97	1.37	1.11	0.04	0.89	0.04	0.24
92 to 91	5				1.516	0.712	1.080				1.080	1.52	1.08	6.00	78.72	236	600	500	275	0.86	81.51	0.97	1.40	1.09	0.04	7.00	0.25	0.19
93 to 89	5				0.085	0.712	0.060				0.060	0.08	0.06	5.00	84.43	14	225	42	69	0.21	8.17	1.74	0.08	1.36	0.01	7.00	0.05	1.21

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 15
Q5 DRAINAGE CATCHMENT PLAN / COMPUTATIONS

MUNICIPALITY	WYNDHAM
REFERENCE	8584 E/15
SCALE	As Shown
DATUM	AHD
DATE	April'17
SHEET	2 OF 3
	P1

Plotted: Apr 28, 2017 - 9:37am

T:\Projects\7358\Design\RSK\Rothwell\CAD\Drainage\Stage 15\RSKBLE_15_C01_02_05.dwg[C02]

Catchment Area
Roads = 1.35ha
Lots = 2.03ha
TOTAL = 3.83ha

Catchment Area
Roads = 1.63ha
Lots = 1.88ha
Reserve = 0.52ha
TOTAL = 4.03ha

North

HIGH POINT
LOW POINT
Flow Length = 315m
Flow Length = 415m
A
B
Qgap 607l/s
Qgap 581l/s

LENGTHS ARE IN METRES
20 10 0 20 40 80
SCALE 1 : 1000 (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 15
Q100 DRAINAGE CATCHMENT PLAN

MUNICIPALITY	WYNDHAM
REFERENCE	8584 E/15
SCALE	As Shown
DATUM	AHD
DATE	Jan'17
SHEET	3 OF 3
	P1

Plotted: Apr 28, 2017 - 9:39am

T:\Projects\2358\Design\8584_Rothwell\CAD\Drawings\Stage 15\8584_E_15_C03_Q100.dwg (C03)