

HUNTLEE - PRECINCT 2

PRESSURE SEWER, POTABLE WATER & RECYCLED WATER

STAGE 16



LOCALITY PLAN
(NOT TO SCALE)

DRAWING LIST	
SHEET 1	COVER SHEET
SHEET 2	GENERAL NOTES
SHEET 3	PRESSURE SEWER DETAIL PLAN
SHEET 4	COLLECTION TANK LEVEL DETAILS
SHEET 5	POTABLE WATER DETAIL PLAN
SHEET 6	RECYCLED WATER DETAIL PLAN

ORIGIN OF W.A.C. LEVELS

PM 20029
E: 345 613 420
N: 6 382 880 288
RL: 77.675

GDA 2020 GRID AHD

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 29/10/2020 OF THE WORK-AS-CONSTRUCTED AND HAS BEEN SURVEYED RELATIVE TO BOUNDARIES AND EASEMENTS.

COMPANY ADW Johnson Pty Ltd COMPANY
NAME MATHEW DAVID LONDON NAME
SIGNED *Mat* DATE 18/11/2020 SIGNED DATE
REGISTERED SURVEYOR CONSTRUCTION MANAGER

RAR (Infrastructure) Pty Ltd

Date: 09 / 07 / 2020

ISSUED FOR CONSTRUCTION

[Signature]

No.	REVISION DESCRIPTION	BY	DATE
02	PS DESIGN REVISED WITH 4000 TANK	D.S.	8/7/20
01	ORIGINAL ISSUE FOR APPROVAL	K.G.	19/6/20

SERVICE	DATE	REF.	WORK-AS-CONSTRUCTED CERTIFICATION

ROSE ATKINS RIMMER (Infrastructure) Pty. Ltd.
RAR WATER RELATED INFRASTRUCTURE DESIGN AND MANAGEMENT
162 SUNNYHOLT ROAD, BLACKTOWN
P.O. BOX 6745, BLACKTOWN N.S.W. 2148
PH: (02) 9853 0200 FAX: (02) 9671 7399



PLAN OF PROPOSED WATER INFRASTRUCTURE SERVICES
HUNTLEE DEVELOPMENT - PRECINCT 2 (STAGE 16)
WINE COUNTRY DRIVE, NORTH ROTHBURY
L.G.A. CESSNOCK

COVER SHEET

DESIGNED	CHECKED	REVISIONS	DATE OF REVISION
K.GAO	K.GAO	D.SHEATHER	D.SHEATHER
SCALE	DATE	CALL REVISIONS	DATE OF REVISION

SHEET 1 OF 6
JOB No. 39/23357/16



**DIAL 1100
BEFORE YOU DIG**

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	18-11-2020	WORKS AS CONSTRUCTED	SS/RC	CB		ML	



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Unit 7/335 Hillsborough Rd
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ABN 62 129 445 398

CLIENT
PROPERTY DESCRIPTION
WINE COUNTRY DRIVE
NORTH ROTHBURY

SURVEYED
ADW Johnson
DATUM
GDA2020 M.G.A. ZONE 56 A.H.D.

PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
HUNTLEE - PRECINCT 2 (STAGE 16)	PLAN SHOWING WORKS AS CONSTRUCTED POTABLE WATER, RECYCLED WATER & PRESSURE SEWER	240072(16)	WAC	001	A

240072(16)-WAC-001-A

100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

A1

SEWER NOTES

- 1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, FLOW SYSTEMS SUPPLEMENTARY MANUAL TO W.S.A.A., PRESSURE SEWERAGE CODE OF AUSTRALIA WSA 07-2007 VERSION 1.1 & POLYETHYLENE PIPELINE CODE WSA 01-2004.
2. ALL EQUIPMENT, MATERIALS & ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW & SHALL COMPLY WITH FLOW SYSTEMS REQUIREMENTS. BUTT FUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE GEORG FISCHER PIPING SYSTEMS BUTT FUSION PRODUCT RANGE. ELECTROFUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE PLASSON 'POLYETHYLENE PIPING SYSTEMS' PRODUCT RANGE.
3. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONTRACTOR IS TO DETERMINE LEVELS & LOCATIONS EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
4. PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 07-2007 & FLOW SYSTEMS SUPPLEMENTARY MANUAL TO W.S.A.A.
5. ALL POLYETHYLENE MAINS <DN200 SHALL BE JOINED BY ELECTROFUSION TECHNIQUES IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS. ALL POLYETHYLENE MAINS >DN200 SHALL BE JOINED BY BUTTWELD TECHNIQUES IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS
6. MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. 600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER & WATER MAINS. MINIMUM PIPE COVER SHALL BE 800mm IN FOOTWAYS & 10m FOR ROADWAYS. MAXIMUM PIPE COVER SHALL GENERALLY BE 15m WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 15m, BUT LESS THAN 25m. THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL PRESSURE SEWER & RECYCLED WATER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
7. MAINS CROSSING UNDER EXISTING DRIVEWAYS (SEALED, PAVED OR DECORATIVE) SHALL BE CONDUCTED BY UNDER BORING ONLY UNLESS PERMISSION IS GRANTED BY THE AFFECTED PROPERTY OWNER.
8. MAINS WITHIN 2m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE HUNTLEE WATER REPRESENTATIVE).
9. ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION WSA-PS350 & WSA-PS351.
10. ALL BENDS SHALL BE ELECTROFUSION OR BUTTWELD SWEEP BENDS. FABRICATED BENDS SHALL NOT BE USED IN LIEU. KNUCKLE ELBOWS ARE NOT PERMITTED.
11. MINIMUM BENDING RADIUS FOR PN16 PE100 (SDR11) SHALL BE 20 x DN (ie DN400R80m, DN250R50m, DN200R40m, DN160R32m, DN125R25m, DN90R18m, DN75R15m, DN63R13m, DN50R10m, DN40R8m)
12. ALL HOUSE SERVICE LATERALS SHALL BE DN60 (PE100 PN16).
13. FLUSHING PITS SHALL CONFORM WITH FLOW SYSTEMS STANDARD DRAWINGS. REFER TO FLOW SYSTEMS WEBSITE FOR CURRENT VERSION. SMALL MAINS (<DN110) http://flowsystems.com.au/governance/Land_Housing/PSS-1017A-FS.pdf LARGE MAINS (>DN110) http://flowsystems.com.au/governance/Land_Housing/PSS-1017B-FS.pdf
14. LOCALISED DEEPENING OF MAINS MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION. THE CONTRACTOR SHALL ENSURE THAT THE AIR VALVE OFFTAKE IS LOCATED AT A HIGH POINT (NATURAL OR ARTIFICIAL) IN THE MAIN (ie MAIN SHALL GRADE DOWNWARDS EITHER SIDE OF THE AIR VALVE).
15. DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING & CONNECTED TO SURFACE VALVES.
16. ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (ie ROADWAYS, PATHS etc) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
17. DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
18. ALL VALVES SHALL BE RESILIENT SEATED SLUICE VALVES (CLOCKWISE CLOSING), SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207 & SHALL COMPLY WITH FLOW SYSTEMS STANDARD DRAWING PSS-1015-FS.
19. ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 07-2007 Version 1.1.
20. FOR LOTS WITH TANKS IN THE REAR: 1 x 25mm INSTRUMENTATION CONDUIT (ORANGE) AND 1 x 25mm ELECTRICAL CONDUIT (ORANGE) (WITH DRAW WIRES) SHALL BE INSTALLED FROM THE COLLECTION TANK TO WATER METERS. THE CONDUITS SHALL BE LAID IN A COMMON TRENCH WITH THE SEWERAGE AND MAINTAIN A MINIMUM HORIZONTAL CLEARANCE OF 400mm. (REFER TO FLOW SYSTEMS STANDARD DRAWINGS FOR SETOUT DIMENSIONS).
21. THE CONTRACTOR SHALL PROVIDE HUNTLEE WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED & CONFIRMATION IS PROVIDED BY THE HUNTLEE WATER REPRESENTATIVE.
22. UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION THAT EXISTED PRIOR TO COMMENCEMENT OF WORK.
23. PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
24. BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED & APPROVAL FOR BACKFILLING GIVEN BY THE HUNTLEE WATER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
25. THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE PRESSURE SEWER CODE OF AUSTRALIA (CLAUSE 213.4) ARE: TRAFFICKABLE: PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST / CROSSING (4 Tests) NON-TRAFFICKABLE: PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST / 100m (4 Tests) TESTING SHALL BE IN ACCORDANCE WITH TABLE 16.1 & 17.1 OF THE WATER SUPPLY CODE OF AUSTRALIA
26. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO HUNTLEE WATER REQUIREMENTS.
27. PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER FLOW SYSTEMS REQUIREMENTS.
28. WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE FLOW SYSTEMS O.A. SUBMISSION CHECKLIST.

WATER & RECYCLED WATER NOTES

- 1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, FLOW SYSTEMS SUPPLEMENTARY MANUAL TO W.S.A.A. & WSA 03-2011-31 (SYDNEY WATER WATER EDITION - 2014).
2. POTABLE WATER SHALL BE UTILISED FOR FIRE FIGHTING PURPOSES.
3. ALL EQUIPMENT, MATERIALS & ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, SHALL CONFORM WITH THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS & SHALL COMPLY WITH FLOW SYSTEMS REQUIREMENTS.
4. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONTRACTOR IS TO DETERMINE LEVELS & LOCATIONS EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
5. THE CONTRACTOR SHALL VERIFY WITH THE SITE SURVEYOR THE POSITION & LEVEL OF ALL EXISTING & PROPOSED BOUNDARIES PERTINENT TO THE INFRASTRUCTURE INSTALLATIONS.
6. MAINS TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. 600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER & WATER MAINS. MINIMUM PIPE COVER SHALL BE 600mm IN FOOTWAYS (TYPE B EMBEDMENT: WAT-1202-V) & 800mm FOR ROADWAYS (TYPE L EMBEDMENT: WAT-1204-V). MAXIMUM PIPE COVER SHALL GENERALLY BE 15m WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 15m, BUT IS LESS THAN 25m. THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL RECYCLED WATER & PRESSURE SEWER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
7. ALL RECYCLED WATER MAINS SHALL BE LILAC mPVC (PN16). DIFFERENTIATION OF POTABLE & RECYCLED WATER SYSTEMS SHALL BE AS PER TABLE 4.1 WSA03-2011 WITH BOTH SERVICES BEING CLASSIFIED AS WATERMAINS. RECYCLED WATER MAINS SHALL ALWAYS BE LOWER THAN POTABLE MAINS. 150mm VERTICAL CLEARANCE BETWEEN POTABLE WATER & RECYCLED WATER MAINS SHALL BE PROVIDED.
8. MAXIMUM JOINT DEFLECTION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
9. LOCALLY LOWER PIPEWORK IN VICINITY OF STOP VALVES TO ENSURE SUFFICIENT COVER IS MAINTAINED OVER VALVES. LOWERING OF PIPEWORK SHALL ACHIEVED OVER A NUMBER OF PIPE LENGTHS EITHER SIDE OF VALVES TO ELIMINATE ANY SHARP DEFLECTIONS.
10. ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION PS-350, 368 & 369. GEOTECHNICAL CONDITIONS SHOULD BE ASSESSED DURING CONSTRUCTION BY THE CONTRACTOR IN ASSOCIATION WITH THE HUNTLEE WATER REPRESENTATIVE TO DETERMINE THE NEED TO MODIFY EMBEDMENT/TRENCHFILL TYPE & THE ROAD FOR TRENCH DRAINAGE/BULKHEADS.
11. DURING CONSTRUCTION, ALL OPEN ENDS OF PIPES SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
12. HYDRANTS, STOP VALVES & ALL OTHER FITTINGS SHALL BE THE SAME SIZE AS THROUGH WATER MAIN & ANTICLOCKWISE CLOSING.
13. HYDRANTS MUST NOT BE INSTALLED IN POTENTIAL DRIVEWAY LOCATIONS. HYDRANTS & WATER SERVICES SHALL BE NOMINALLY AT LEAST 5m FROM EACH BOUNDARY OR ON BOUNDARIES. WHERE POSSIBLE, FITTINGS SHALL BE LOCATED BEHIND KERB INLET PITS.
14. THRUST BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH WAT-1205.
15. ALL PROPERTY (MAIN TO METER) SERVICE CONNECTIONS SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE FLOW SYSTEMS REQUIREMENTS. REFER TO FLOW SYSTEMS WEBSITE FOR CURRENT VERSIONS. SINGLE SERVICE http://flowsystems.com.au/governance/Land_Housing/WAT-1854-FS.pdf DUAL SERVICE http://flowsystems.com.au/governance/Land_Housing/WAT-1855-FS.pdf
16. PROPERTY SERVICE CONNECTIONS SHALL BE FLUSHED & LOCKED (BY THE HUNTLEE WATER REPRESENTATIVE) FOLLOWING SUCCESSFUL PRESSURE TESTING.
17. SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (ie ROADWAYS, PATHS etc) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
18. ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 03-2011-31 (SYDNEY WATER EDITION - 2014).
19. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
20. WATER QUALITY TESTING SHALL BE IN ACCORDANCE WITH WSA 03-2011-31 (SYDNEY WATER EDITION - 2014: CLAUSE 19.7).
21. THE CONTRACTOR SHALL PROVIDE HUNTLEE WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED & CONFIRMATION IS PROVIDED BY THE HUNTLEE WATER REPRESENTATIVE.
22. UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION THAT EXISTED PRIOR TO COMMENCEMENT OF WORK.
23. PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
24. BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED & APPROVAL FOR BACKFILLING GIVEN BY THE HUNTLEE WATER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
25. THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE WATER SUPPLY CODE OF AUSTRALIA ARE: TRAFFICKABLE: PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST / CROSSING (4 Tests) NON-TRAFFICKABLE: PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST / 100m (4 Tests) TESTING SHALL BE IN ACCORDANCE WITH TABLE 16.1 & 17.1 OF THE WATER SUPPLY CODE OF AUSTRALIA
26. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO HUNTLEE WATER REQUIREMENTS.
27. PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER FLOW SYSTEMS REQUIREMENTS.
28. WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE FLOW SYSTEMS O.A. SUBMISSION CHECKLIST.

GENERAL NOTES

- 1. THIS DRAWING SET SHALL BE READ IN CONJUNCTION WITH CESSNOCK CITY COUNCIL STANDARDS, FLOW SYSTEMS SUPPLEMENTARY MANUAL TO W.S.A.A. & OTHER ASSOCIATED DRAWINGS AND TECHNICAL SPECIFICATIONS.
2. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORKS AND SHALL REPAIR ANY DAMAGE CAUSED TO SUCH SERVICES DURING THE COURSE OF WORKS. ANY SERVICE LOCATIONS ON THE FOLLOWING DRAWINGS ARE INDICATIVE ONLY.
3. MAKE SMOOTH TRANSITION TO EXISTING WORKS (ie. ROAD PAVEMENTS AND FOOTPATHS TO P.C.A. AND SUPERINTENDENTS REQUIREMENTS.
4. SUITABLE PROTECTION OF EXISTING ROAD PAVEMENT, KERB AND GUTTER, FOOTPATHS AND ANY EXISTING FEATURES SHALL BE PROVIDED UNTIL THE CONSTRUCTION WORKS ARE COMPLETED.

ORIGIN OF W.A.C. LEVELS

PM 20029
E: 345 613 420
N: 6 382 880 288
RL: 77.675

GDA 2020 GRID AHD

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 29/10/2020 OF THE WORK-AS-CONSTRUCTED AND HAS BEEN SURVEYED RELATIVE TO BOUNDARIES AND EASEMENTS.

COMPANY ADWJohnson Pty Ltd COMPANY
NAME MATTHEW DAVID LONDON NAME
SIGNED [Signature] DATE 18/11/2020 SIGNED [Signature] DATE/...../.....
REGISTERED SURVEYOR CONSTRUCTION MANAGER

CLEARANCES BETWEEN PIPELINES & UNDERGROUND SERVICES

Table with columns: Utility (Existing or proposed service), Minimum horizontal clearance mm (New main size <DN200, >DN200), Minimum vertical clearance mmm.

- NOTES:
1. Vertical clearances apply where pipelines cross other utility services, except in the case of water/sewer mains when a vertical separation shall always be maintained, even when the pressure sewer and water main are parallel. The pressure sewer should always be located below the water main to eliminate the possibility of backflow contamination in the event of a pressure main break.
2. Water mains include mains supplying both potable and recycled water.
3. For cross with existing water reticulation, clearance can be further reduced to 600mm with the approval of the water authority.
4. Clearance can be further reduced to 150mm for distance up to 2m where passing installations with no joints, pits, and small structures, providing the structure is not distributed in the proximity. For water/sewer <DN75, clearance from kerbs can be progressively reduced until the minimum of 150mm is reached for water/sewer <DN75.
5. Where a parallel sewer is of minimum vertical clearance lower than the water main (200mm), include a minimum horizontal clearance of 1000mm. This minimum clearance can be progressively reduced to 600mm as the vertical clearance is increased to 750mm.
6. For pressure sewer laterals, minimum vertical clearances may be reduced to 150mm providing there is no joint in the lateral within 500mm of either side of the service being crossed.
7. An additional clearance from high voltage electrical installations should be maintained above the conduits or cables to allow for a protective device and marking to be provided.
8. Water mains should always cross over sewers and stormwater drains. For cases where this is not alternative and the main must cross under the sewer, the design shall include an appropriate protection treatment (joint-free in the vicinity of the sewer).

* SHOULD THE RECOMMENDED CLEARANCES NOT BE ACHIEVED, NOTIFICATION SHALL BE CONVEYED TO THE HUNTLEE WATER REPRESENTATIVE IN WRITING.

RAR (Infrastructure) Pty Ltd
Date: 09 / 07 / 2020
ISSUED FOR CONSTRUCTION

Huntlee + Water



FLOW SYSTEMS STANDARD DRAWINGS CAN BE FOUND AT THE FOLLOWING ADDRESS:

https://askus.flowsystems.com.au/en-us/articles/240615383--Standard-Drawings

ROSE ATKINS RIMMER (Infrastructure) Pty. Ltd.
WATER RELATED INFRASTRUCTURE DESIGN AND MANAGEMENT
142 SUNNYHOLT ROAD, BLACKTOWN
P.O. BOX 8745, BLACKTOWN N.S.W. 2148
PH: (02) 9653 0200 FAX: (02) 9671 7399

GENERAL NOTES table with columns: DESIGNER, CHECKED, DRAWN, DATE, SCALE, SHEET NO., TOTAL SHEETS.

SHEET 2 OF 6, 02, 39/23357/16

CONSTRUCTION ISSUE

Table with columns: REV, DATE, AMENDMENT, DRAWN, CHECK, DESIGN, VERIFY, SCALES.

adw Johnson
Hunter Office
Unit 7/335 Hillsborough Rd
Warners Bay N.S.W. 2282
Phone: (02) 4978 5100
Fax: (02) 4978 5199
email: hunter@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

Table with columns: CLIENT, PROPERTY DESCRIPTION, PROJECT, PLAN TITLE, SURVEYED, DATUM, PROJECT No., DISCIPLINE, NUMBER, REV.

DESIGN FILE N:\JOBNUMBER\Design\120\
Plotted By: shanes Plot Date: 19/11/20 - 15:05 Cad File: N:\240072\DWG\Water & Sewer\240072(16)-WAC-001-A.dwg

A1 PRESSURE SEWER LEGEND

X	STOP VALVE
⊗	STOP VALVE (NORMALLY CLOSED)
∟	TAPER
⊕	FLUSHING POINT
⊕	TEMPORARY FLUSHING POINT
⊕	PROPERTY BOUNDARY KIT
⊕	COLLECTION TANK (eONE 650L)
⊕	COLLECTION TANK (eONE 800L)
⊕	CONTROL/ALARM PANEL
⊕	ELECTRICAL CABLES
⊕	FLOW METER
⊕	AIR VALVE
⊕	PRESSURE MONITORING POINT
⊕	REMOTE MONITORED PRESSURE TRANSDUCER
⊕	VERTICAL DEFLECTION

ORIGIN OF W.A.C. LEVELS

PM 20029
 E: 345 613 420
 N: 6 382 880 288
 RL: 77.675

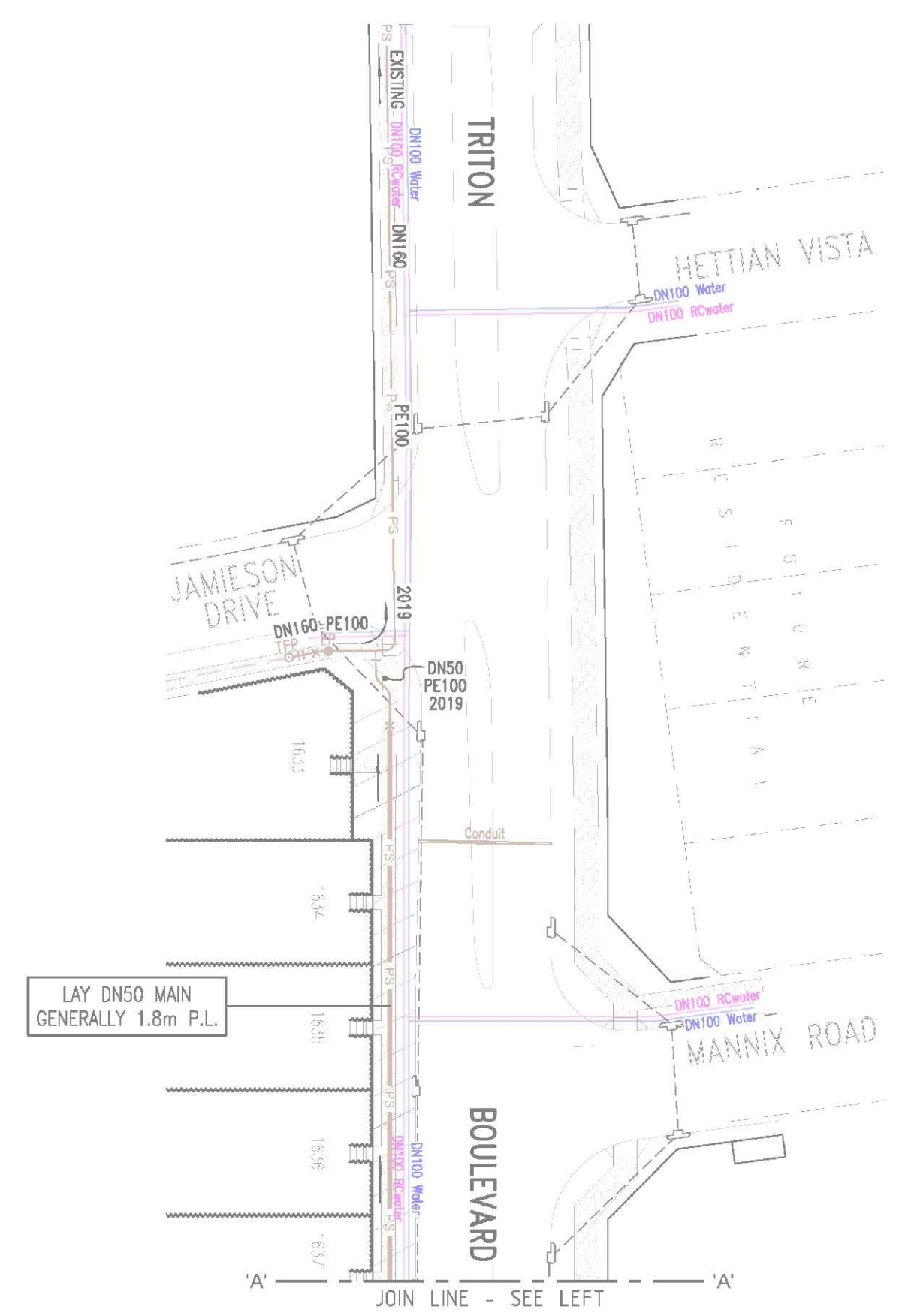
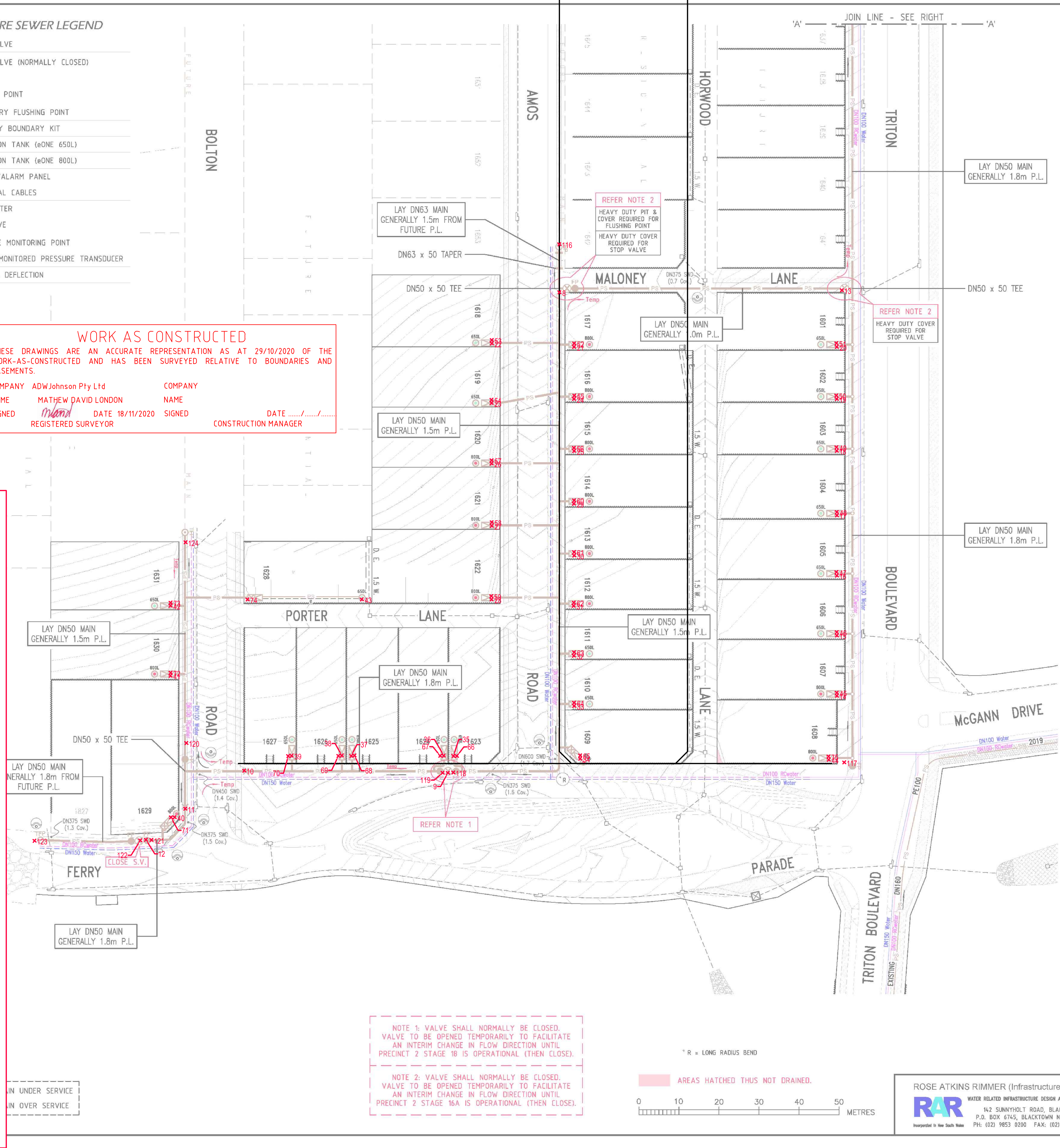
GDA 2020 GRID AHD

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 29/10/2020 OF THE WORK-AS-CONSTRUCTED AND HAS BEEN SURVEYED RELATIVE TO BOUNDARIES AND EASEMENTS.

COMPANY ADWJohnson Pty Ltd COMPANY
 NAME MATHEW DAVID LONDON NAME
 SIGNED [Signature] DATE 18/11/2020 SIGNED [Signature] DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

Point	Easting	Northing	Full Description
5	346382.53	6383135.99	SEWER STOP VALVE
6	346382.34	6383138.02	SEWER STOP VALVE
7	346390.76	6383143.03	SEWER STOP VALVE
8	346508.72	6383060.46	SEWER STOP VALVE
9	346626.19	6383023.43	SEWER STOP VALVE
10	346621.71	6382972.75	SEWER STOP VALVE
11	346630.05	6382957.32	SEWER STOP VALVE
12	346637.02	6382946.94	SEWER STOP VALVE
13	346513.64	6383130.84	SEWER STOP VALVE
14	346614.51	6383121.79	SEWER TANK
15	346599.50	6383122.95	SEWER TANK
16	346584.58	6383124.10	SEWER TANK
17	346569.59	6383125.27	SEWER TANK
18	346553.51	6383126.48	SEWER TANK
19	346540.62	6383127.48	SEWER TANK
20	346527.65	6383128.48	SEWER TANK
21	346522.58	6383063.04	SEWER TANK
22	346520.12	6383042.61	SEWER TANK
23	346534.96	6383041.41	SEWER TANK
24	346535.54	6383062.03	SEWER TANK
25	346548.48	6383061.05	SEWER TANK
26	346550.03	6383040.24	SEWER TANK
27	346565.53	6383039.09	SEWER TANK
28	346583.93	6383127.85	SEWER TANK
29	346561.62	6383059.98	SEWER TANK
30	346574.52	6383059.05	SEWER TANK
31	346587.04	6383057.94	SEWER TANK
32	346599.47	6383057.05	SEWER TANK
33	346611.96	6383056.15	SEWER TANK
34	346625.22	6383056.64	SEWER TANK
35	346622.08	6383025.13	SEWER TANK
36	346627.84	6383022.73	SEWER TANK
37	346620.10	6382999.69	SEWER TANK
38	346619.83	6382997.34	SEWER TANK
39	346618.91	6382984.84	SEWER TANK
40	346631.99	6382954.49	SEWER TANK
41	346596.68	6382956.19	SEWER TANK
42	346579.23	6382957.55	SEWER TANK
43	346581.34	6383005.32	SEWER TANK
44	346630.26	6383118.51	SEWER TANK
45	346613.74	6383121.82	SEWER BOUNDARY KIT
46	346598.67	6383122.98	SEWER BOUNDARY KIT
47	346583.71	6383124.08	SEWER BOUNDARY KIT
48	346568.75	6383125.31	SEWER BOUNDARY KIT
49	346552.63	6383126.48	SEWER BOUNDARY KIT
50	346539.74	6383127.43	SEWER BOUNDARY KIT
51	346526.72	6383128.47	SEWER BOUNDARY KIT
52	346521.74	6383063.14	SEWER BOUNDARY KIT
53	346519.29	6383042.70	SEWER BOUNDARY KIT
54	346534.17	6383041.49	SEWER BOUNDARY KIT
55	346534.71	6383062.18	SEWER BOUNDARY KIT
56	346547.71	6383061.07	SEWER BOUNDARY KIT
57	346549.22	6383040.35	SEWER BOUNDARY KIT
58	346564.64	6383039.18	SEWER BOUNDARY KIT
59	346583.03	6383037.66	SEWER BOUNDARY KIT
60	346560.79	6383060.10	SEWER BOUNDARY KIT
61	346573.66	6383059.11	SEWER BOUNDARY KIT
62	346586.24	6383058.07	SEWER BOUNDARY KIT
63	346598.61	6383057.18	SEWER BOUNDARY KIT
64	346611.17	6383056.21	SEWER BOUNDARY KIT
65	346624.40	6383056.70	SEWER BOUNDARY KIT
66	346622.17	6383026.00	SEWER BOUNDARY KIT
67	346627.79	6383021.84	SEWER BOUNDARY KIT
68	346620.07	6383000.51	SEWER BOUNDARY KIT
69	346619.85	6382996.49	SEWER BOUNDARY KIT
70	346618.93	6382983.98	SEWER BOUNDARY KIT
71	346631.93	6382953.61	SEWER BOUNDARY KIT
72	346595.91	6382956.29	SEWER BOUNDARY KIT
73	346578.47	6382957.65	SEWER BOUNDARY KIT
74	346579.16	6382976.87	SEWER BOUNDARY KIT
75	346629.45	6383118.54	SEWER BOUNDARY KIT
114	346382.79	6383133.15	SEWER FLUSHING POINT
115	346382.37	6383137.36	SEWER FLUSHING POINT
116	346446.76	6383061.36	SEWER FLUSHING POINT
117	346631.22	6383122.34	SEWER FLUSHING POINT
118	346626.21	6383024.77	SEWER FLUSHING POINT
119	346626.08	6383022.11	SEWER FLUSHING POINT
120	346613.72	6382958.87	SEWER FLUSHING POINT
121	346637.19	6382948.31	SEWER FLUSHING POINT
122	346637.09	6382945.52	SEWER FLUSHING POINT
123	346635.13	6382919.16	SEWER FLUSHING POINT
124	346633.73	6382962.54	SEWER FLUSHING POINT



PIPE SCHEDULE

SIZE	TYPE	CLASS	LENGTH
DN63	PE100	PN16	5
DN50	PE100	PN16	645
DN40	PE100	PN16	195
TOTAL			845

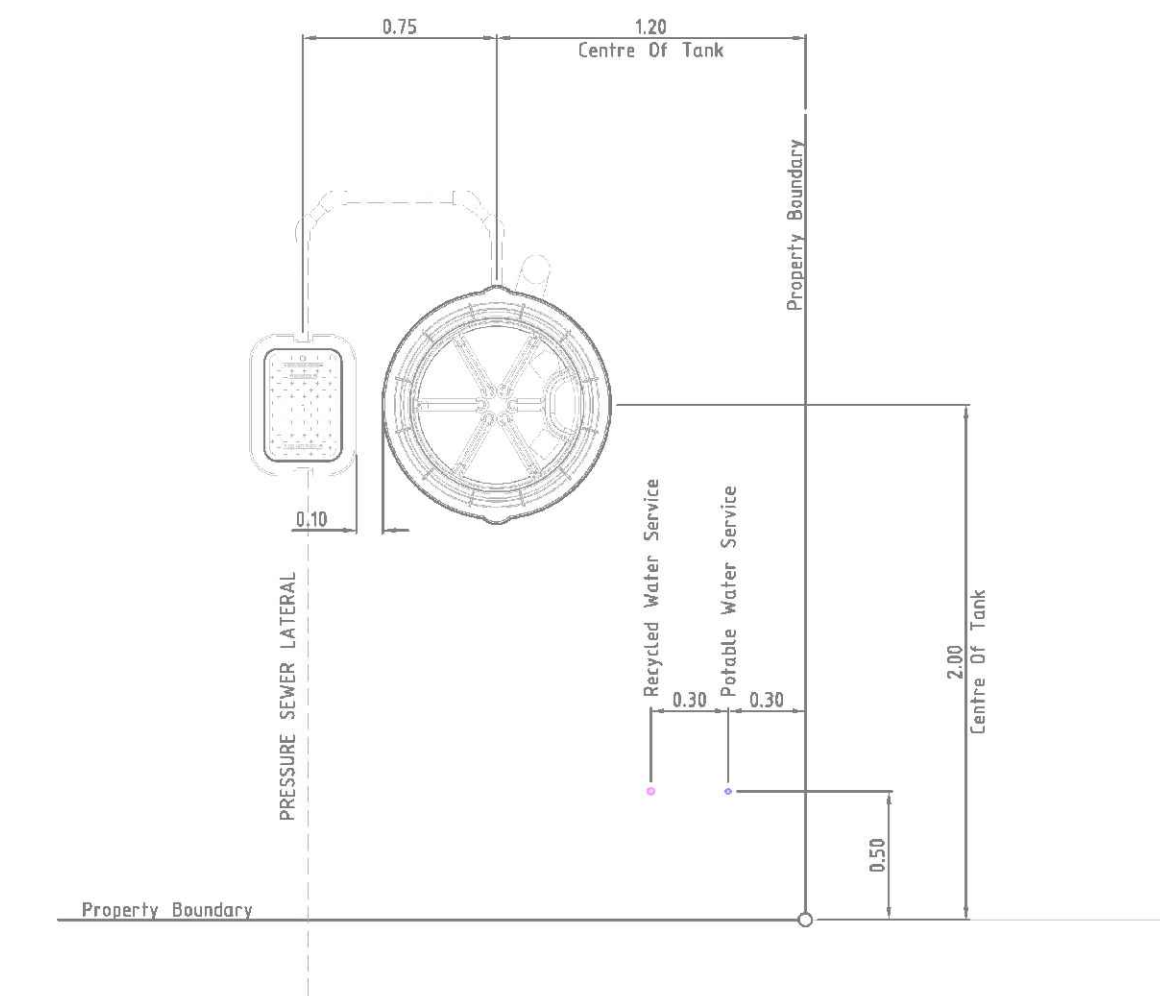
RAR (Infrastructure) Pty Ltd
 Date: 09 / 07 / 2020
ISSUED FOR CONSTRUCTION



ROSE ATKINS RIMMER (Infrastructure) Pty. Ltd. WATER RELATED INFRASTRUCTURE DESIGN AND MANAGEMENT 142 SUNNYHOLT ROAD, BLACKTOWN P.O. BOX 6745, BLACKTOWN N.S.W. 2148 PH: (02) 9853 0200 FAX: (02) 9671 7399	PRESSURE SEWER DETAIL PLAN	SHEET 3 OF 6 02	39/23357/16
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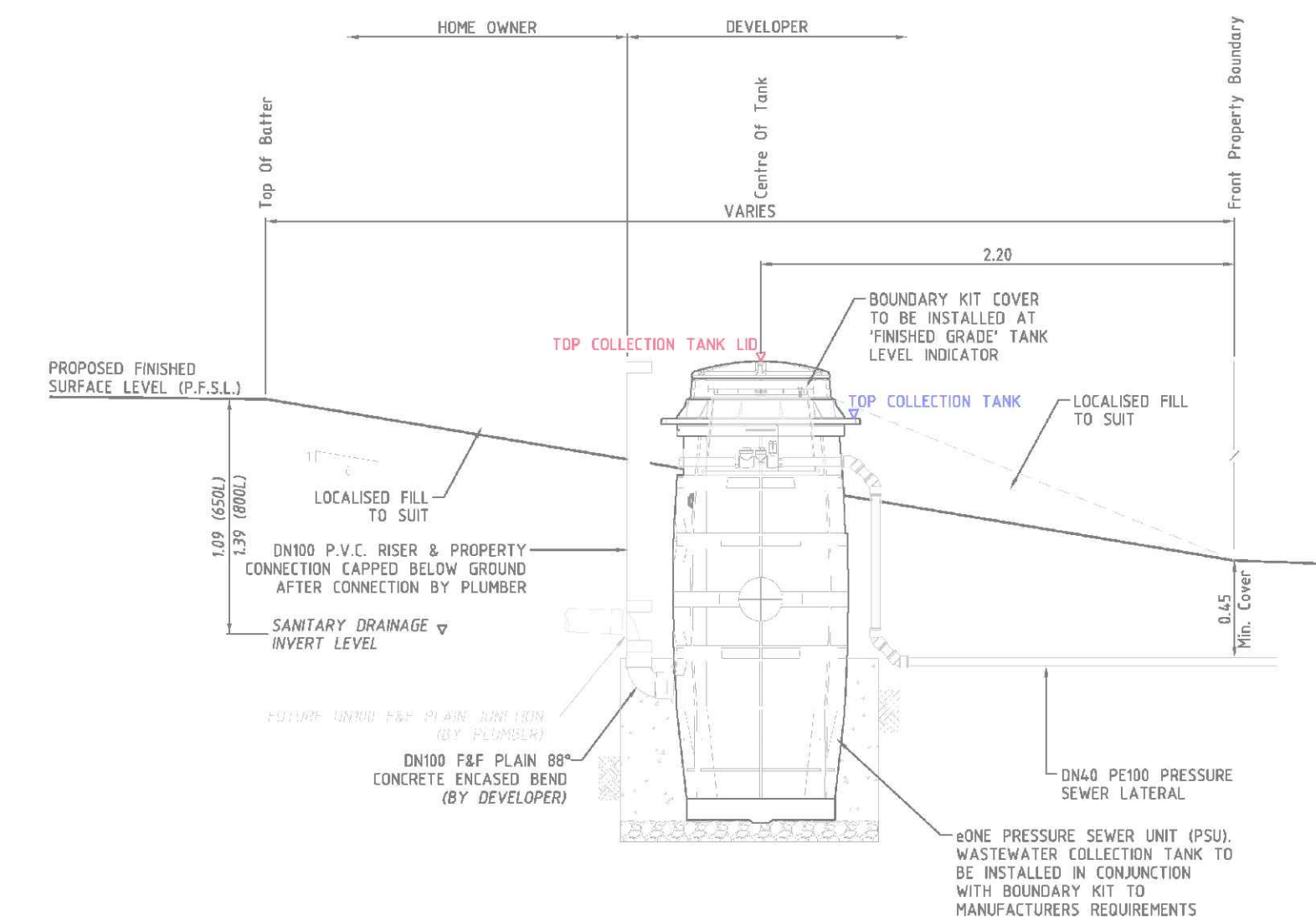
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	18-11-2020	WORKS AS CONSTRUCTED	SS/RC	CB		ML		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	WINE COUNTRY DRIVE NORTH ROTHBURY	HUNTLEE - PRECINCT 2 (STAGE 16)	240072(16)	WAC	001	A

PRESSURE SEWER COLLECTION TANK LEVEL DETAILS									
HUNTLEE DEVELOPMENT - STAGE 16									
LOT NUMBER	COLLECTION TANK LOCATION	TANK SIZE	PFSL AT TANK LOCATION	TOP OF COLLECTION TANK	DESIGN SANITARY DRAINAGE INVERT LEVEL	TOP OF COLLECTION TANK LID	CALCULATED SANITARY DRAINAGE INVERT LEVEL	WAC v's DESIGN INVERT LEVEL COMPARISON	
	[FRONT / REAR]	[650L / 800L]		[Design R.L.]	[Design R.L.]	[Work-As-Constructed]	[Work-As-Constructed]	[- LOWER / + HIGHER]	
1601	FRONT FLAT	650L	58.70	58.66	57.66	58.90	57.64	-0.02	
1602	FRONT FLAT	650L	57.90	57.86	56.86	58.09	56.83	-0.03	
1603	FRONT FLAT	650L	57.40	57.36	56.36	57.55	56.29	-0.08	
1604	FRONT FLAT	650L	56.60	56.56	55.56	56.77	55.51	-0.05	
1605	FRONT FLAT	650L	56.10	56.06	55.06	56.29	55.03	-0.04	
1606	FRONT FLAT	650L	55.60	55.56	54.56	55.82	54.56	-0.01	
1607	FRONT FLAT	800L	55.10	55.06	53.76	55.28	53.72	-0.04	
1608	FRONT FLAT	800L	54.10	54.06	52.76	54.27	52.71	-0.05	
1609	FRONT FLAT	800L	55.20	55.16	53.86	55.44	53.88	0.02	
1610	FRONT FLAT	650L	55.70	55.66	54.66	55.91	54.65	-0.02	
1611	FRONT FLAT	650L	56.70	56.66	55.66	56.91	55.65	-0.02	
1612	FRONT FLAT	800L	57.20	57.16	55.86	57.41	55.85	-0.02	
1613	FRONT FLAT	800L	58.00	57.96	56.66	58.22	56.66	0.00	
1614	FRONT FLAT	800L	58.50	58.46	57.16	58.71	57.15	-0.01	
1615	FRONT FLAT	800L	59.00	58.96	57.66	59.21	57.65	-0.01	
1616	FRONT FLAT	800L	59.50	59.46	58.16	59.72	58.16	0.00	
1617	FRONT FLAT	800L	60.40	60.36	59.06	60.63	59.07	0.01	
1618	FRONT FLAT	650L	60.86	60.82	59.82	61.04	59.78	-0.05	
1619	FRONT BATTER	650L	60.11	60.11	59.11	60.34	59.08	-0.03	
1620	FRONT BATTER	800L	59.41	59.41	58.21	59.74	58.18	-0.03	
1621	FRONT BATTER	800L	58.78	58.77	57.47	59.03	57.47	0.00	
1622	FRONT BATTER	800L	57.94	58.20	56.90	58.41	56.85	-0.05	
1623	FRONT FLAT	650L	56.57	56.53	55.53	56.74	55.48	-0.05	
1624	FRONT FLAT	650L	56.94	56.90	55.90	57.12	55.86	-0.05	
1625	FRONT FLAT	650L	57.09	57.05	56.05	57.27	56.01	-0.04	
1626	FRONT FLAT	650L	57.47	57.43	56.43	57.64	56.38	-0.05	
1627	FRONT FLAT	650L	58.07	58.03	57.03	58.26	57.00	-0.04	
1628	REAR	650L	59.39	59.35	58.35	59.56	58.30	-0.05	
1629	FRONT BATTER	800L	56.73	56.91	55.61	57.13	55.57	-0.04	
1630	FRONT BATTER	800L	58.60	58.71	57.41	58.90	57.34	-0.07	
1631	FRONT FLAT	650L	59.98	59.94	58.94	60.13	58.87	-0.07	



TYPICAL INFRASTRUCTURE SETOUT DIMENSIONS

SCALE 1:25



COLLECTION TANK SECTIONAL ELEVATION

SCALE 1:25

COLLECTION TANK NOTES

- DESIGN SURFACE LEVELS WERE ELECTRONICALLY EXTRACTED FROM DIGITAL DATA SUPPLIED BY NORTHROP CONSULTING ENGINEERS 27/3/20 (200327_NL150007_ST16_DESIGN_DATA.12d.dwg) and 23/8/18 (180726_EXISTING_DATA - STAGE 16B.12d.dwg).
- DESIGN LEVELS CAN ONLY BE ASSUMED AS CURRENT AT TIME OF EXTRACTION. ALL LEVELS SHALL BE CONFIRMED WITH THE SITE SUPERINTENDENT PRIOR TO INSTALLATION OF TANKS. SHOULD THE PROPOSED FINISHED SURFACE LEVEL (P.F.S.L.) DIFFER FROM DESIGN BY MORE THAN 100mm, THE CONSTRUCTOR SHALL CONTACT THE DESIGNER IMMEDIATELY.
- COLLECTION TANK SETOUT SHALL BE COMPLIANT WITH FSI-1000-FS & FSI-SK03A-FS. COLLECTION TANK INSTALLATION LEVELS DOCUMENTED ADJACENT SHALL SUPERSEDE ANY LEVELS ADVISED ON DRAWING FSI-SK03A-FS.
- R.A.R. ACCEPT NO RESPONSIBILITY FOR INCONSISTENCIES IN EXTRACTED LEVELS RESULTING FROM CHANGES TO THE MODEL (SURFACE LEVEL) INFORMATION POST DATA EXTRACTION DATE.

RAR (Infrastructure) Pty Ltd
Date: 09 / 07 / 2020
ISSUED FOR CONSTRUCTION

ORIGIN OF W.A.C. LEVELS
PM 20029
E: 345 613 420
N: 6 382 880 288
RL: 77.675
GDA 2020 GRID AHD

WORK AS CONSTRUCTED
THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 29/10/2020 OF THE WORK-AS-CONSTRUCTED AND HAS BEEN SURVEYED RELATIVE TO BOUNDARIES AND EASEMENTS.
COMPANY ADW Johnson Pty Ltd
NAME MATHEW DAVID LONDON
SIGNED [Signature] DATE 18/11/2020
REGISTERED SURVEYOR

ROSE ATKINS RIMMER (Infrastructure) Pty. Ltd.
WATER RELATED INFRASTRUCTURE DESIGN AND MANAGEMENT
142 SUNNYHOLT ROAD, BLACKTOWN
P.O. BOX 6745, BLACKTOWN N.S.W. 2148
PH: (02) 9853 0200 FAX: (02) 9671 7399

COLLECTION TANK LEVEL DETAILS				SHEET 4 OF 6		02
DESIGNED	K.GAG	CHECKED	K.GAG	REVISED	D.SHEATHER	DATE
DRAWN	DATE	CHECKED	DATE	DATE	DATE	DATE
				30/23357116		



CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohanson.com.au www.adwjohanson.com.au ABN 62 129 445 398</p>	CLIENT	PROPERTY DESCRIPTION	PROJECT
A	18-11-2020	WORKS AS CONSTRUCTED	SS/RC	CB		ML			WINE COUNTRY DRIVE NORTH ROTHBURY	HUNTLEE - PRECINCT 2 (STAGE 16)	
<p>DESIGN FILE N:\JOBNUMBER\Design\120\ ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE</p>											
Plotted By: shanes Plot Date: 19/11/20 - 15:05 Cad File: N:\240072\DWG\Water & Sewer\240072(16)-WAC-001-A.dwg			<p>PROJECT No. 240072(16) - DISCIPLINE WAC - NUMBER 001 - REV. A</p>								

100mm AT FULL SIZE. This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

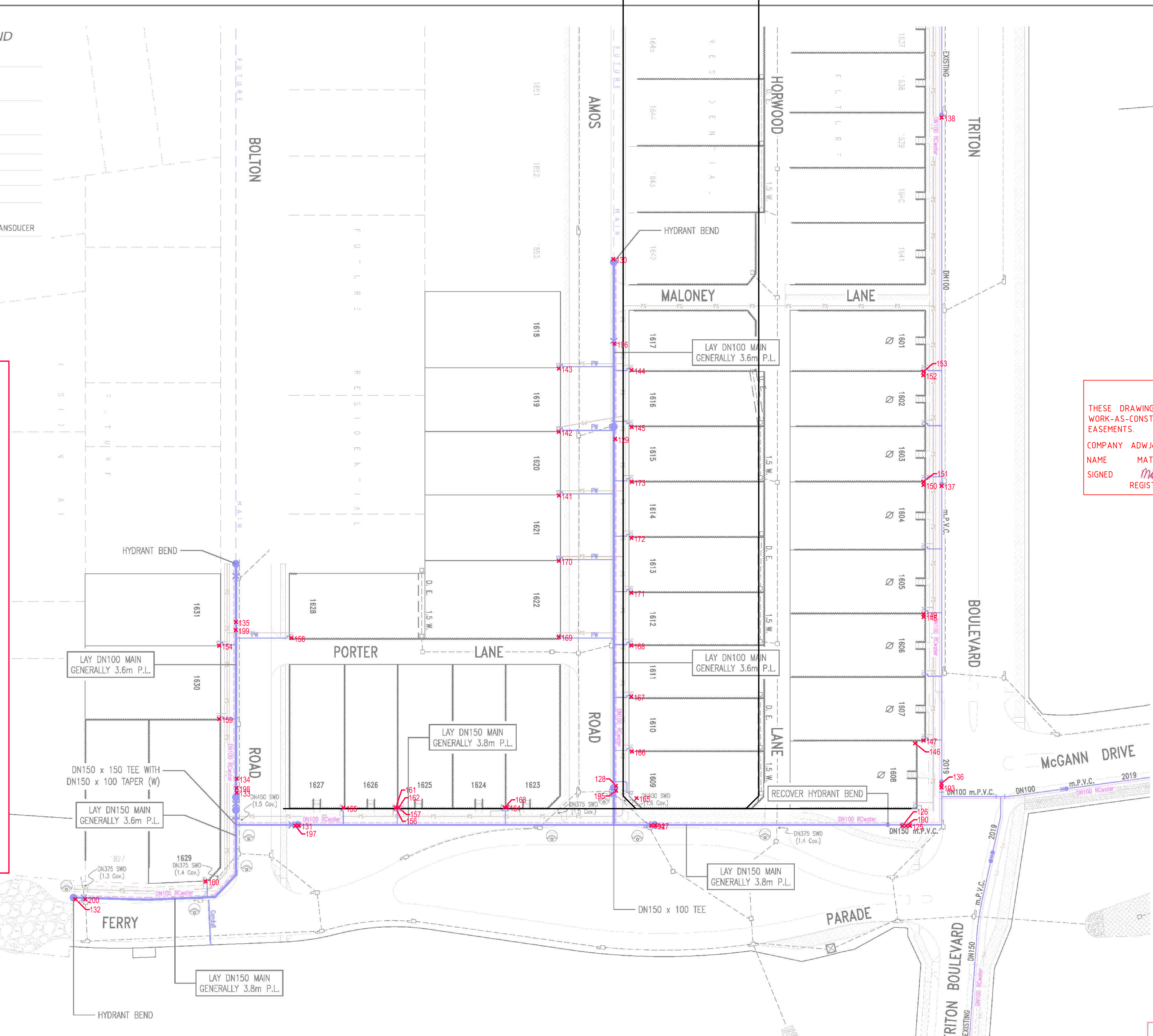
240072(16)-WAC-001-A

100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

POTABLE WATER LEGEND

	PROPOSED MAIN
	EXISTING MAIN
	FUTURE MAIN
	STOP VALVE
	HYDRANT
	TAPER
	WATER SERVICE CONNECTION
	FLOW METER
	AIR VALVE
	VERTICAL DEFLECTION
	REMOTE MONITORED PRESSURE TRANSDUCER

Points	Easting	Northing	Full Description
125	346635.29	6383116.54	HYDRANT
126	346635.20	6383116.80	HYDRANT
127	346630.52	6383058.65	HYDRANT
128	346620.52	6383050.12	HYDRANT
129	346538.81	6383056.26	HYDRANT
130	346496.38	6383059.11	HYDRANT
131	346624.06	6382974.75	HYDRANT
132	346637.34	6382920.81	HYDRANT
133	346615.20	6382960.73	HYDRANT
134	346611.92	6382960.98	HYDRANT
135	346575.00	6382963.63	HYDRANT
136	346625.92	6383126.78	HYDRANT
137	346555.81	6383122.24	HYDRANT
138	346469.05	6383138.96	HYDRANT
139	346392.39	6383145.36	HYDRANT
140	346380.77	6383135.32	HYDRANT
141	346551.11	6383041.97	TAP
142	346536.09	6383043.07	TAP
143	346521.18	6383044.25	TAP
144	346522.89	6383061.38	TAP
145	346536.31	6383060.34	TAP
146	346615.96	6383121.29	TAP
147	346615.43	6383123.32	TAP
148	346586.33	6383125.59	TAP
149	346585.72	6383125.64	TAP
150	346555.25	6383127.98	TAP
151	346554.52	6383128.06	TAP
152	346529.41	6383129.94	TAP
153	346528.58	6383130.07	TAP
154	346580.28	6382959.23	TAP
155	346620.72	6382985.57	TAP
156	346621.66	6382997.86	TAP
157	346621.72	6382998.58	TAP
158	346579.78	6382976.42	TAP
159	346597.52	6382957.94	TAP
160	346635.52	6382951.75	TAP
161	346621.67	6382997.86	TAP
162	346621.68	6382998.61	TAP
163	346623.54	6383023.52	TAP
164	346623.59	6383024.11	TAP
165	346623.79	6383054.74	TAP
166	346612.73	6383054.49	TAP
167	346599.78	6383055.34	TAP
168	346587.74	6383056.28	TAP
169	346584.38	6383039.38	TAP
170	346566.50	6383040.75	TAP
171	346575.34	6383057.25	TAP
172	346562.41	6383058.28	TAP
173	346549.24	6383059.39	TAP
190	346635.23	6383117.69	STOP VALVE
191	346380.51	6383136.73	STOP VALVE
192	346391.11	6383145.44	STOP VALVE
193	346626.82	6383126.70	STOP VALVE
194	346630.46	6383057.69	STOP VALVE
195	346621.64	6383050.04	STOP VALVE
196	346516.36	6383057.79	STOP VALVE
197	346624.02	6382973.89	STOP VALVE
198	346614.15	6382960.76	STOP VALVE
199	346576.89	6382963.44	STOP VALVE
200	346637.51	6382923.08	STOP VALVE



WORK AS CONSTRUCTED
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 29/10/2020 OF THE WORK-AS-CONSTRUCTED AND HAS BEEN SURVEYED RELATIVE TO BOUNDARIES AND EASEMENTS.
 COMPANY: ADW Johnson Pty Ltd
 NAME: MATHEW DAVID LONDON
 SIGNED: [Signature] DATE: 18/11/2020
 REGISTERED SURVEYOR

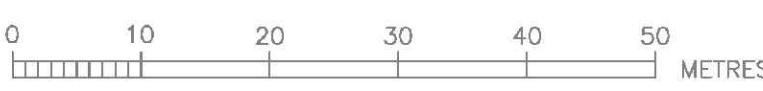
ORIGIN OF W.A.C. LEVELS
 PM: 20029
 E: 345 613.420
 N: 6 382 880.288
 RL: 77.675
 GDA 2020 GRID AHD

RAR (Infrastructure) Pty Ltd
 Date: 09 / 07 / 2020
 ISSUED FOR CONSTRUCTION

PIPE SCHEDULE

SIZE	TYPE	CLASS	LENGTH
DN150	m.P.V.C.	PN16	210
DN100	m.P.V.C.	PN16	195
TOTAL			405

Ø DENOTES PROPERTY SERVICE CONNECTION TO BE INSTALLED ON EXISTING MAIN



ROSE ATKINS RIMMER (Infrastructure) Pty. Ltd.
 WATER RELATED INFRASTRUCTURE DESIGN AND MANAGEMENT
 142 SUNNYHOLT ROAD, BLACKTOWN
 P.O. BOX 5745, BLACKTOWN N.S.W. 2148
 Ph: (02) 9853 0200 FAX: (02) 9631 7399

POTABLE WATER DETAIL PLAN

DESIGNED: K.GAO	DRAWN: K.GAO	CHECKED: D.SHEATHER	DATE OF ISSUE: 09/07/2020
SCALE: 1:500	DATE: 18/11/2020	DATE OF ISSUE: 09/07/2020	

Huntlee + Water

SHEET 5 OF 6
 39/23357/16



CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT											
A	18-11-2020	WORKS AS CONSTRUCTED	SS/RC	CB		ML		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	WINE COUNTRY DRIVE NORTH ROTHBURY	HUNTLEE - PRECINCT 2 (STAGE 16)											
<table border="1"> <tr> <td>DESIGNED</td> <td>ADW Johnson</td> <td>DATUM</td> <td>GDA2020 M.G.A. ZONE 56 A.H.D.</td> <td>PROJECT No.</td> <td>240072(16)</td> <td>DISCIPLINE</td> <td>WAC</td> <td>NUMBER</td> <td>001</td> <td>REV.</td> <td>A</td> </tr> </table>										DESIGNED	ADW Johnson	DATUM	GDA2020 M.G.A. ZONE 56 A.H.D.	PROJECT No.	240072(16)	DISCIPLINE	WAC	NUMBER	001	REV.	A
DESIGNED	ADW Johnson	DATUM	GDA2020 M.G.A. ZONE 56 A.H.D.	PROJECT No.	240072(16)	DISCIPLINE	WAC	NUMBER	001	REV.	A										

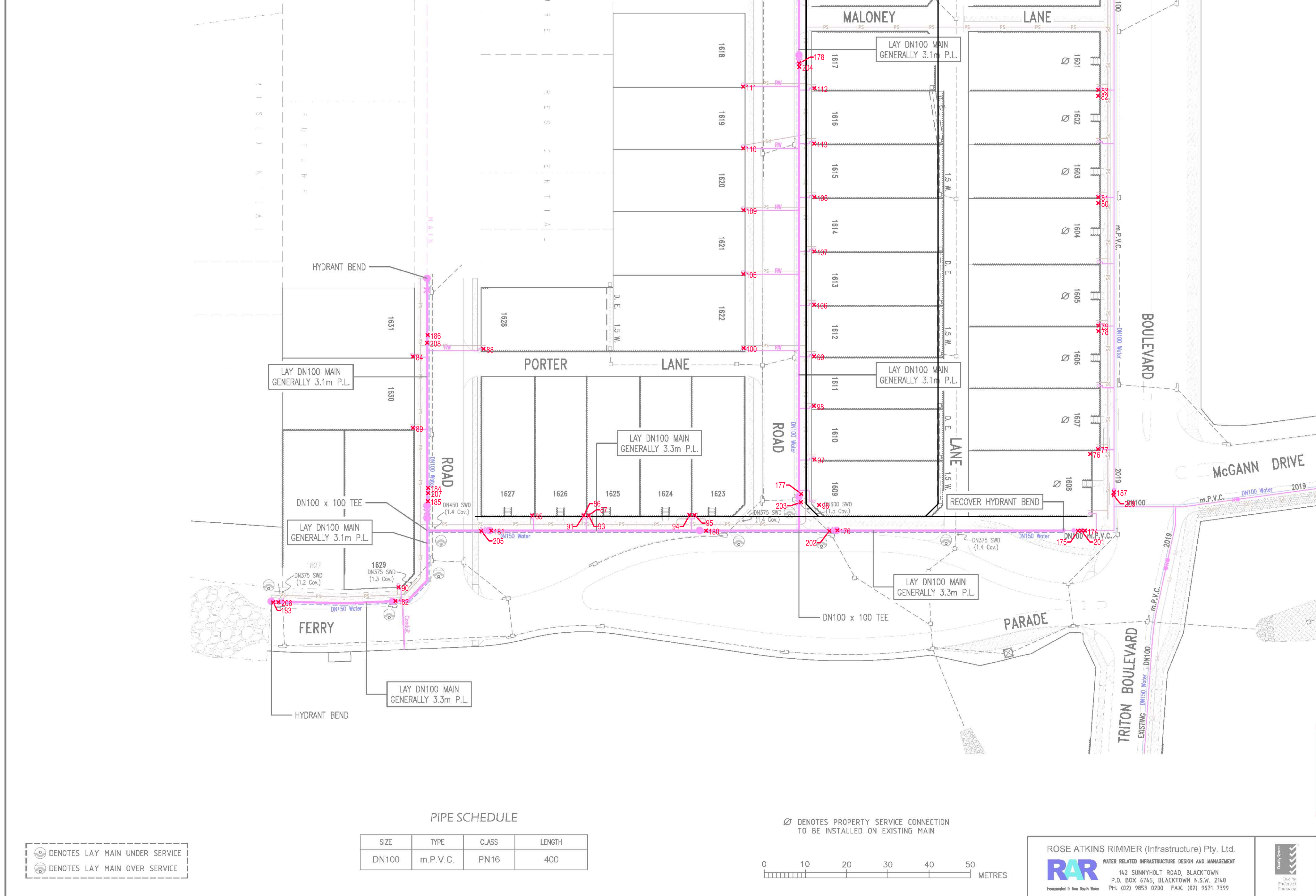
240072(16)-WAC-001-A

100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

A1

RECYCLED WATER LEGEND

- PROPOSED MAIN
- EXISTING MAIN
- FUTURE MAIN
- X STOP VALVE
- X STOP VALVE (BYPASS)
- HYDRANT
- CONTROL VALVE (HYDRANT)
- TAPER
- WATER SERVICE CONNECTION
- FLOW METER
- AIR VALVE
- VERTICAL DEFLECTION
- ⊙ REMOTE MONITORED PRESSURE TRANSDUCER



Points	Easting	Northing	Full Description
76	346616.25	6383121.27	RECYCLED WATER TAP
77	346615.21	6383123.30	RECYCLED WATER TAP
78	346586.68	6383125.56	RECYCLED WATER TAP
79	346585.32	6383125.67	RECYCLED WATER TAP
80	346555.69	6383127.94	RECYCLED WATER TAP
81	346554.27	6383128.05	RECYCLED WATER TAP
82	346529.75	6383129.90	RECYCLED WATER TAP
83	346528.30	6383130.06	RECYCLED WATER TAP
84	346580.00	6382959.30	RECYCLED WATER TAP
85	346620.68	6382985.20	RECYCLED WATER TAP
86	346621.63	6382997.64	RECYCLED WATER TAP
87	346621.73	6382998.83	RECYCLED WATER TAP
88	346579.46	6382975.52	RECYCLED WATER TAP
89	346597.28	6382997.96	RECYCLED WATER TAP
90	346635.55	6382951.49	RECYCLED WATER TAP
91	346621.59	6382997.62	RECYCLED WATER TAP
93	346621.74	6382998.86	RECYCLED WATER TAP
94	346623.52	6383023.22	RECYCLED WATER TAP
95	346623.63	6383024.45	RECYCLED WATER TAP
96	346623.50	6383054.74	RECYCLED WATER TAP
97	346612.42	6383054.49	RECYCLED WATER TAP
98	346599.46	6383055.35	RECYCLED WATER TAP
99	346587.46	6383056.31	RECYCLED WATER TAP
100	346584.14	6383039.43	RECYCLED WATER TAP
105	346566.24	6383040.76	RECYCLED WATER TAP
106	346574.98	6383057.29	RECYCLED WATER TAP
107	346562.10	6383058.35	RECYCLED WATER TAP
108	346548.97	6383059.40	RECYCLED WATER TAP
109	346550.78	6383041.99	RECYCLED WATER TAP
110	346535.81	6383043.09	RECYCLED WATER TAP
111	346520.89	6383044.23	RECYCLED WATER TAP
112	346522.61	6383061.42	RECYCLED WATER TAP
113	346535.99	6383060.34	RECYCLED WATER TAP
174	346634.70	6383118.57	RECYCLED HYDRANT
175	346634.62	6383116.89	RECYCLED HYDRANT
176	346630.01	6383058.68	RECYCLED HYDRANT
177	346620.50	6383050.62	RECYCLED HYDRANT
178	346516.30	6383058.21	RECYCLED HYDRANT
179	346496.35	6383059.55	RECYCLED HYDRANT
180	346627.61	6383026.93	RECYCLED HYDRANT
181	346623.58	6382974.97	RECYCLED HYDRANT
182	346638.79	6382950.49	RECYCLED HYDRANT
183	346636.86	6382920.91	RECYCLED HYDRANT
184	346612.06	6382960.51	RECYCLED HYDRANT
185	346615.27	6382960.21	RECYCLED HYDRANT
186	346575.06	6382963.25	RECYCLED HYDRANT
187	346625.92	6383126.33	RECYCLED HYDRANT
188	346592.26	6383144.87	RECYCLED HYDRANT
189	346381.28	6383135.50	RECYCLED HYDRANT
201	346634.62	6383117.73	RECYCLED STOP VALVE
202	346629.99	6383056.75	RECYCLED STOP VALVE
203	346622.48	6383050.43	RECYCLED STOP VALVE
204	346517.13	6383058.16	RECYCLED STOP VALVE
205	346623.48	6382972.56	RECYCLED STOP VALVE
206	346636.92	6382922.15	RECYCLED STOP VALVE
207	346613.31	6382960.42	RECYCLED STOP VALVE
208	346576.92	6382962.96	RECYCLED STOP VALVE
209	346626.71	6383126.14	RECYCLED STOP VALVE
210	346391.09	6383144.97	RECYCLED STOP VALVE
211	346380.98	6383136.85	RECYCLED STOP VALVE

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 29/10/2020 OF THE WORK-AS-CONSTRUCTED AND HAS BEEN SURVEYED RELATIVE TO BOUNDARIES AND EASEMENTS.

COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED	<i>Mat</i>	SIGNED	
REGISTERED SURVEYOR		DATE	18/11/2020
		DATE	18/11/2020
		CONSTRUCTION MANAGER	

ORIGIN OF W.A.C. LEVELS

PM 20029
E: 345 613.420
N: 6 382 880.288
RL: 77.675

GDA 2020 GRID AHD

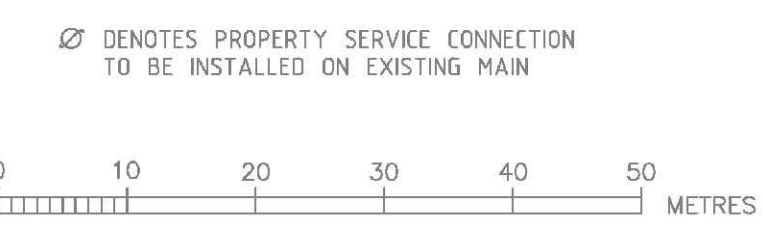
RAR (Infrastructure) Pty Ltd
Date: 09 / 07 / 2020
ISSUED FOR CONSTRUCTION

Huntlee + Water



PIPE SCHEDULE

SIZE	TYPE	CLASS	LENGTH
DN100	m.P.V.C.	PN16	400



ROSE ATKINS RIMMER (Infrastructure) Pty Ltd.
WATER RELATED INFRASTRUCTURE DESIGN AND MANAGEMENT
162 SUNNYHOLT ROAD, BLACKTOWN
P.O. BOX 6745, BLACKTOWN N.S.W. 2148
PH: (02) 9653 0200 FAX: (02) 9671 7399

RECYCLED WATER DETAIL PLAN				SHEET 6 OF 6	02
DESIGNED	K.GAO	DRAWN	K.GAO	CHECKED	D.SHEATHER
DATE	1:000	DATE	DATE	DATE	DATE

39/23357/16

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	18-11-2020	WORKS AS CONSTRUCTED	SS/RC	CB		ML				WINE COUNTRY DRIVE NORTH ROTHBURY	HUNTLEE - PRECINCT 2 (STAGE 16)	PLAN SHOWING WORKS AS CONSTRUCTED POTABLE WATER, RECYCLED WATER & PRESSURE SEWER	240072(16)	WAC	001	A