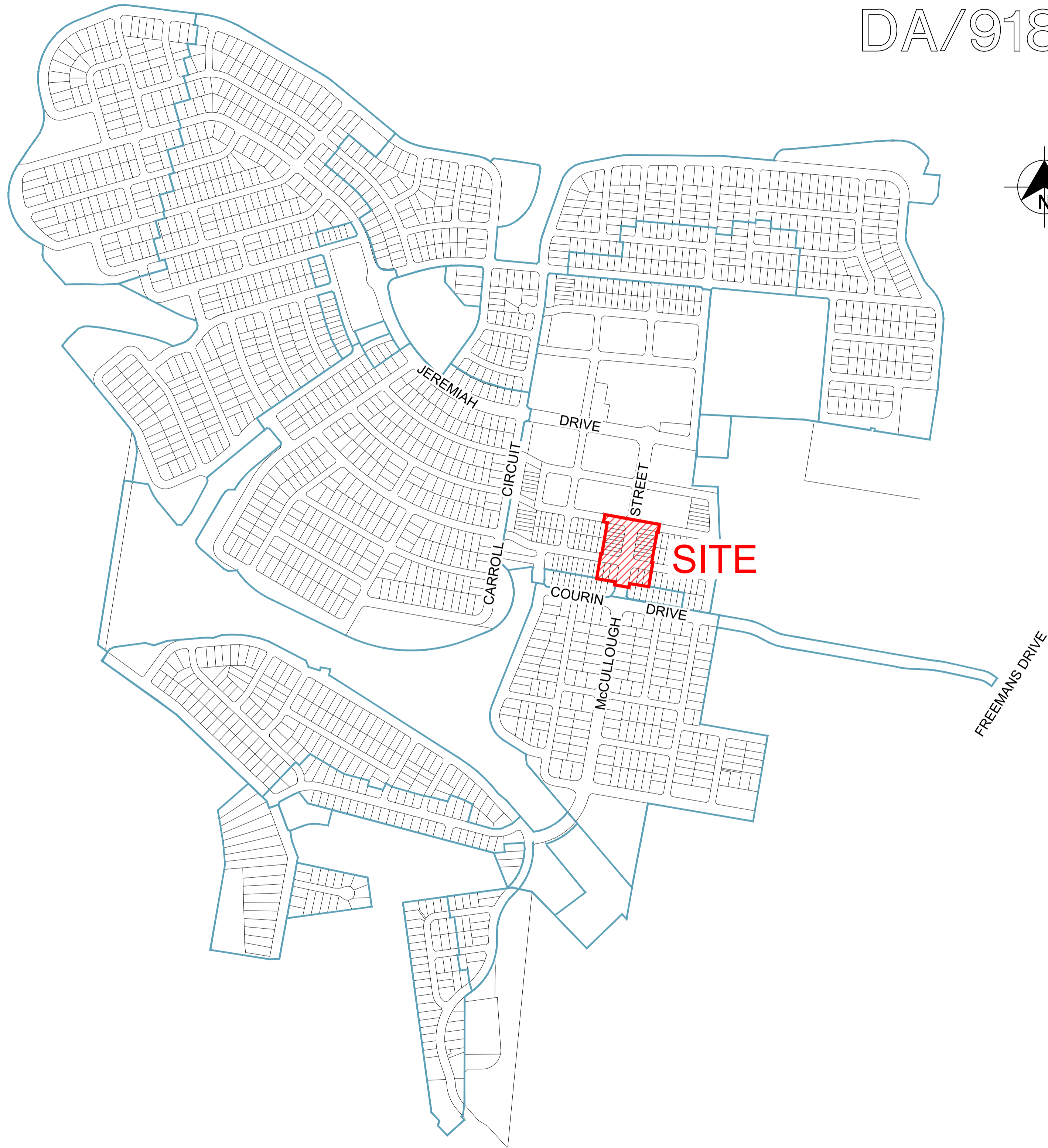


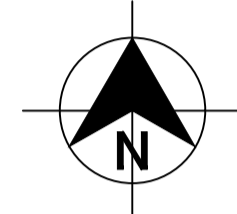
239078(8)3-WAC-001

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.

WATAGAN PARK PROPOSED SUBDIVISION PRECINCT NORTH E - STAGE 3 LOT 900, D.P.1301001 - 35 MCCULLOUGH STREET, COORANBONG DA/918/2023



LOCALITY SKETCH
NOT TO SCALE



DRAWING INDEX	
DRAWING NUMBER	DESCRIPTION
239078(8)3-WAC-001	COVER SHEET, LOCALITY PLAN, AND DRAWING INDEX
239078(8)3-WAC-002	GENERAL NOTES
239078(8)3-WAC-003	OVERALL SITE PLAN
239078(8)3-WAC-101	PORTABLE WATER DETAIL PLAN - SHEET 1
239078(8)3-WAC-102	PORTABLE WATER DETAIL PLAN - SHEET 2
239078(8)3-WAC-201	RECYCLED WATER DETAIL PLAN - SHEET 1
239078(8)3-WAC-202	RECYCLED WATER DETAIL PLAN - SHEET 2
239078(8)3-WAC-301	PRESSURE SEWER DETAIL PLAN - SHEET 1
239078(8)3-WAC-302	PRESSURE SEWER DETAIL PLAN - SHEET 2
239078(8)3-WAC-401	TYPICAL CROSS SECTIONS
239078(8)3-WAC-402	TYPICAL PIPEWORK TRENCHING DETAILS
239078(8)3-WAC-403	TYPICAL PROPERTY CONNECTION DETAILS
239078(8)3-WAC-404	WASTE WATER COLLECTION TANK LEVEL DETAILS
239078(8)3-WAC-405	THRUST BLOCK DETAILS
239078(8)3-WAC-406	FITTINGS TABLE

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 15/08/2025 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	BASS RANDALL	NAME	
SIGNED	<i>Bass Randall</i>	DATE	18/08/2025
	REGISTERED SURVEYOR	SIGNED	
		DATE/...../.....
			CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM	57533	Co-Ord System:	MGA Ground
E	355 423.957	MGA Datum:	GDA94
N	6 340 377.094	MGA Zone:	56
RL	20.139m		



WORK AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.				
A	10.05.2024	INITIAL ISSUE	G.S.	M.K.	M.K.	C.H.		 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		WATAGAN PARK PRECINCT NORTH E - STAGE 3 LOT 900, D.P.1301001 35 MCCULLOUGH STREET, COORANBONG DA/918/2023	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	COVER SHEET, LOCALITY PLAN & DRAWING INDEX	239078(8)3	WAC	-	001	02
B	18.10.2024	REVISED ISSUE	L.S.	M.K.	M.K.	C.H.											
C	25.11.2024	UPDATES TO PSS NETWORK HYDRAULICS	L.S.	M.K.	M.K.	C.H.											
O	19.03.2025	CONSTRUCTION ISSUE	D.N.	M.K.	M.K.	C.H.											
1	09.04.2025	CONSTRUCTION ISSUE AMENDED	I.B.	M.K.	M.K.	C.H.											
2	18.08.2025	WORK AS CONSTRUCTED	I.B.	M.K.	M.K.	C.H.											
DESIGN FILE N:\239078\239078(8)\DWG\Water & Sewer\WAT\Stage 3\X-239078(8)3-WAT-DESIGN.dwg ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE								SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 239078(8)3 - DISCIPLINE WAC - NUMBER 001 - REV. 02					

239078(8)3-WAC-002

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.

PRESSURE SEWER NOTES:

- 1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA, PRESSURE SEWERAGE CODE OF AUSTRALIA - WSA 07-2007 VERSION 1.1 AND POLYETHYLENE PIPELINE CODE WSA 01-2004.
2. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.
3. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.
4. PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007 AND ALTOGETHER SUPPLEMENTARY MANUAL TO WSA.
5. ALL POLYETHYLENE MAINS <= DN200 SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
6. MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS.
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 2.0m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE ALTOGETHER REPRESENTATIVE).
9. ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION WSA-PS350 AND WSA-PS351.
10. ALL BENDS SHALL BE ELECTROFUSION OR BUTT WELD 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.
12. ALL HOUSE SERVICE LATERALS SHALL BE DN40 (PE100 PN16).
13. FLUSHING PITS SHALL CONFORM WITH ALTOGETHER STANDARD DRAWINGS.
14. LOCALISED DEEPENING OF MAINS MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION.
15. DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
16. ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. 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 (ANTI-CLOCKWISE CLOSING), SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207 AND SHALL COMPLY WITH ALTOGETHER 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.
21. THE CONSTRUCTOR SHALL PROVIDE ALTOGETHER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE.
22. UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
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 AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE.
25. THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE PRESSURE SEWER CODE OF AUSTRALIA (CLAUSE 21.3.4) ARE:
26. BOUNDARY KITS (COMPLETE) SHALL BE NOV SUPPLIED (NOV PSS-BK4).
27. ALL MAINS (UP TO THE BOUNDARY KIT) SHALL BE PRESSURE TESTED TO 1600 kPa.
28. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
29. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
30. ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.
31. PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
32. WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.
33. ELECTRICAL GLAND CONNECTION SUPPLIED LOOSE WITH EACH SEWER POT IS TO BE INSTALLED BY THE CIVIL CONTRACTOR AND ELECTRICAL CONDUIT ATTACHED TO THE TANK FOR FUTURE ELECTRICAL WIRING.

POTABLE WATER AND RECYCLED WATER NOTES:

- 1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA AND WSA 03-2011-3.1 (SYDNEY WATER EDITION 2014).
2. POTABLE WATER SHALL BE UTILISED FOR FIRE FIGHTING PURPOSES.
3. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, SHALL CONFORM TO THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.
4. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.
5. THE CONSTRUCTOR SHALL VERIFY WITH THE SITE SUPERVISOR THE POSITION AND LEVEL OF ALL EXISTING AND PROPOSED BOUNDARIES PERTINENT TO THE INFRASTRUCTURE INSTALLATIONS.
6. MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS.
7. ALL POTABLE WATER MAINS TO BE BLUE PVC-M (PN16).
8. MAXIMUM JOINT DEFLECTIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
9. LOCALLY LOWER PIPEWORK IN VICINITY OF STOP VALVES TO ENSURE SUFFICIENT COVER IS MAINTAINED OVER VALVES.
10. ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION PS-350, 368 AND 369.
11. DURING CONSTRUCTION, ALL OPEN ENDS OF PIPES SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
12. HYDRANTS, STOP VALVES AND ALL OTHER FITTINGS TO BE THE SAME SIZE AS THE THROUGH WATER MAIN AND ANTI CLOCKWISE CLOSING.
13. HYDRANTS MUST NOT BE INSTALLED IN POTENTIAL DRIVEWAY LOCATIONS.
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 WITH ALTOGETHER REQUIREMENTS.
16. PROPERTY SERVICE CONNECTION IS SHALL BE FLUSHED AND LOCKED (BY THE ALTOGETHER REPRESENTATIVE) FOLLOWING SUCCESSFUL PRESSURE TESTING.
17. SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc. SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
18. ALL MAINS SHALL BE PRESSURE TESTED TO 1500kPa IN ACCORDANCE WITH CLAUSE 19.4 OF WSA03-2011 (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 03-2011-3.1(SYDNEY WATER EDITION-2014, CLAUSE 19.7).
21. THE CONSTRUCTOR SHALL PROVIDE HUNTLEE WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE.
22. UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
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 AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE.
25. MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY WSA03-2011 (SYDNEY WATER EDITION 2014) (CLAUSE 19.3.5):
26. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
27. PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
28. WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.
29. WHERE THE PIPE GRADE EXCEEDS 5% , TRENCHSTOPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WAT-1209 AND WAT-1210 AT THE SPACING OF 100/M GRADE%.
ALTOGETHER STANDARD DRAWINGS CAN BE FOUND AT THE FOLLOWING ADDRESS:
https://askus.altogethergroup.com.au/hc/en-us/articles/900004827263-Standard-drawings-for-land-developers-

GENERAL NOTES:

- 1. THIS DRAWING SET SHALL BE READ IN CONJUNCTION WITH CESSNOCK CITY COUNCIL STANDARDS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA AND OTHER ASSOCIATED DRAWINGS AND TECHNICAL SPECIFICATIONS.
2. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORK AND SHALL REPAIR ANY DAMAGE CAUSED TO SUCH SERVICES DURING THE COURSE OF WORKS.
3. MAKE SMOOTH TRANSITION TO EXISTING WORKS (i.e. ROAD PAVEMENT AND FOOTPATHS) TO P.C.A. AND SUPERINTENDENT'S REQUIREMENTS.
4. SUITABLE PROTECTION TO EXISTING ROAD PAVEMENT, KERB AND GUTTER, FOOTPATHS AND ANY EXISTING FEATURES SHALL BE PROVIDED UNTIL THE CONSTRUCTION WORKS ARE COMPLETED.

CLEARANCES BETWEEN PIPELINES AND UNDERGROUND SERVICES

Table with 4 columns: UTILITY (EXISTING OR PROPOSED SERVICE), MINIMUM HORIZONTAL CLEARANCE (mm), NEW MAIN SIZE (≤ DN200, ≥ DN200), MINIMUM VERTICAL CLEARANCE (mm). Rows include Water Mains, Gas Mains, Telecommunication Conduits, Electricity Conduits, Stormwater Drains, Sewers, and Kerbs.

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.
2. WATER MAINS INCLUDES MAINS SUPPLYING BOTH POTABLE AND RECYCLED WATER.
3. FOR AREAS WITH EXISTING WATER RETICULATION, CLEARANCES CAN BE FURTHER REDUCED TO 600mm WITH THE APPROVAL OF THE WATER AUTHORITY.
4. CLEARANCES CAN BE FURTHER REDUCED TO 150mm FOR DISTANCES UP TO 2.0m WHEN PASSING INSTALLATIONS SUCH AS POLES, PITS, AND SMALL STRUCTURES.
5. CLEARANCES FROM KERBS SHALL BE MEASURED FROM THE NEAREST POINT OF THE KERB.
6. WHERE A PARALLEL SEWER IS AT MINIMUM VERTICAL CLEARANCE LOWER THAN THE WATER MAIN (500mm), MAINTAIN A MINIMUM HORIZONTAL OF 1000mm.
7. 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.
8. AN ADDITIONAL CLEARANCE FROM HIGH VOLTAGE ELECTRICAL INSTALLATIONS SHOULD BE MAINTAINED ABOVE THE CONDUITS OR CABLES TO ALLOW FOR A PROTECTIVE BARRIER AND MARKING TO BE PROVIDED.
9. WATER MAINS SHOULD ALWAYS CROSS OVER SEWERS AND STORMWATER DRAINS. FOR CASES WHERE THERE IS NO ALTERNATIVE AND THE MAIN MUST CROSS UNDER THE SEWER, THE DESIGN SHALL NOMINATE 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 ALTOGETHER REPRESENTATIVE IN WRITING.

WORK AS CONSTRUCTED

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COMPANY ADW Johnson Pty Ltd COMPANY
NAME BASS RANDALL NAME
SIGNED [Signature] DATE 18/08/2025 SIGNED [Signature] DATE [Signature]
REGISTERED SURVEYOR CONSTRUCTION MANAGER

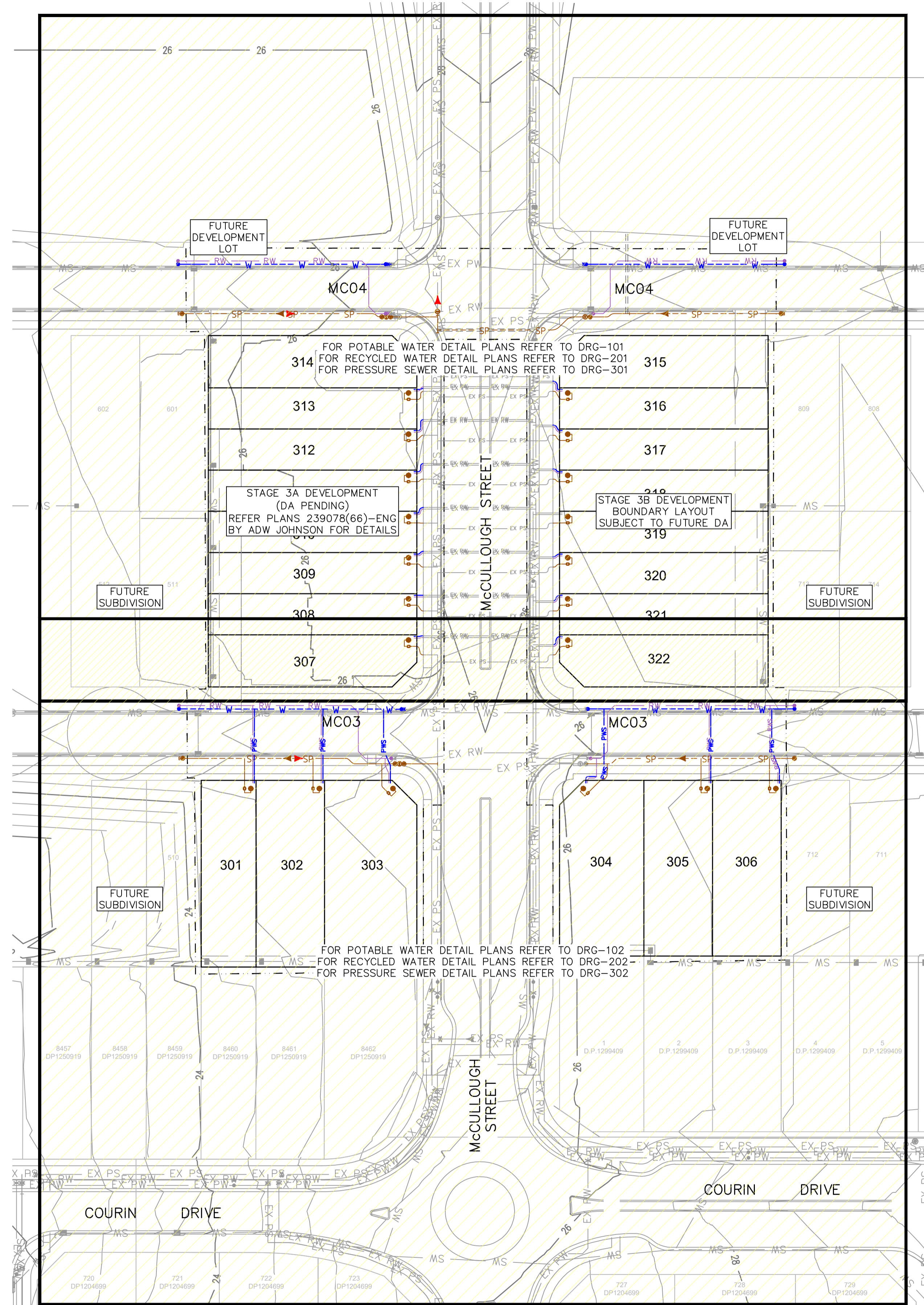
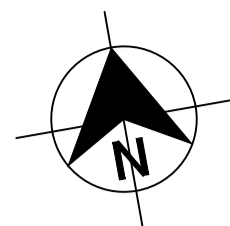
ORIGIN OF W.A.C. LEVELS

PM 57533 Co-Ord System: MGA Ground
E: 355 423.957 MGA Datum: GDA94
N: 6 340 377.094 MGA Zone: 56
RL: 20.139m



WORK AS CONSTRUCTED

Table with 5 main columns: REV. (A, B, C, O, 1, 2), DATE, AMENDMENT, DRAWN/CHECK/DESIGN/VERIFY, SCALES, CLIENT (Hunter Office, Johnson Property Group), PROPERTY DESCRIPTION (WATAGAN PARK, STAGE 3), PROJECT (POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION), PLAN TITLE (GENERAL NOTES), SURVEYED (ADW Johnson), DATUM (GDA94 M.G.A. ZONE 56 A.H.D.), PROJECT No. (239078(8)3), DISCIPLINE (WAC), NUMBER (002), REV. (02)



PLAN
SCALE 1:500

WORK AS CONSTRUCTED
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 COMPANY ADW Johnson Pty Ltd COMPANY
 NAME BASS RANDALL NAME
 SIGNED *Bass Randall* DATE 18/08/2025 SIGNED _____ DATE _____
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
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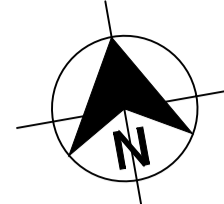
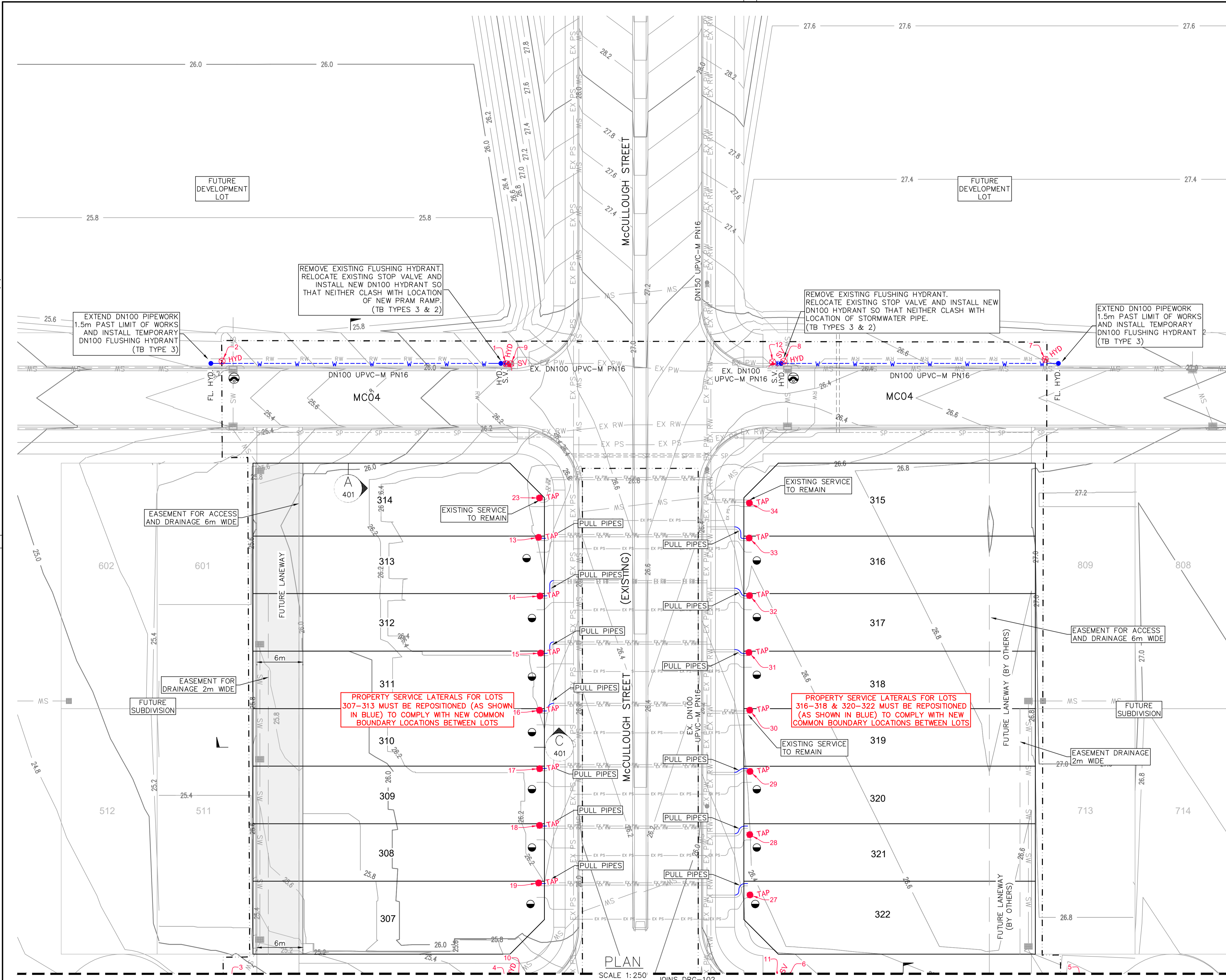


WORK AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	10.05.2024	INITIAL ISSUE	G.S.	M.K.	M.K.	C.H.		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	WATAGAN PARK PRECINCT NORTH E - STAGE 3 LOT 900, D.P.1301001 35 MCCULLOUGH STREET, COORANBONG DA/918/2023	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	OVERALL SITE PLAN	ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	239078(8)3 - WAC - 003	02		
B	18.10.2024	REVISED ISSUE	L.S.	M.K.	M.K.	C.H.											
C	25.11.2024	UPDATES TO PSS NETWORK HYDRAULICS	L.S.	M.K.	M.K.	C.H.											
0	19.03.2025	CONSTRUCTION ISSUE	D.N.	M.K.	M.K.	C.H.											
1	09.04.2025	CONSTRUCTION ISSUE AMENDED	I.B.	M.K.	M.K.	C.H.											
2	18.08.2025	WORK AS CONSTRUCTED	I.B.	M.K.	M.K.	C.H.											
DESIGN FILE N:\239078(8)\DWG\Water & Sewer\WAT\Stage 3\X-239078(8)3-WAT-DESIGN.dwg							CONTOUR INTERVAL: 0.5m	ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE									
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239078(8)3-WAC-102

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.



LEGEND

W	PVC-M POTABLE WATER RETICULATION
PWS	PE POTABLE WATER PROPERTY SERVICE
RW	PVC-M RECYCLED WATER RETICULATION
SP	PE PRESSURE SEWER RETICULATION
EX PW	EXISTING POTABLE WATER RETICULATION
EX RW	EXISTING RECYCLED WATER RETICULATION
EX PS	EXISTING PRESSURE SEWER RETICULATION
SW	STORMWATER PIPEWORK
S.V.	STOP VALVE
HYD.	HYDRANT
FL. HYD.	FLUSHING HYDRANT
(Symbol)	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
(Symbol)	PROPERTY SERVICE CONNECTION
(Symbol)	PROPOSED EASEMENT
(Symbol)	LIMIT OF WORKS
(Symbol)	UNDRAINABLE AREA

POTABLE WATER PROPERTY SERVICE CONNECTIONS

TOTAL 19 CONNECTIONS

- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 13 x SHORT SIDE (ADJUSTED)
 - 6 x LONG SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 0 x SHORT SIDE
 - 0 x LONG SIDE

POTABLE WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	155

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 202.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 302.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-403 & 404.
 - LOTS 307-322 ARE SUBJECT TO FUTURE REDEVELOPMENT APPLICATION AND SUBDIVISION WORKS CERTIFICATE.

PROPERTY SERVICE LATERALS FOR LOTS 307-313 MUST BE REPOSITIONED (AS SHOWN IN BLUE) TO COMPLY WITH NEW COMMON BOUNDARY LOCATIONS BETWEEN LOTS

PROPERTY SERVICE LATERALS FOR LOTS 316-318 & 320-322 MUST BE REPOSITIONED (AS SHOWN IN BLUE) TO COMPLY WITH NEW COMMON BOUNDARY LOCATIONS BETWEEN LOTS

WORK AS CONSTRUCTED

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	BASS RANDALL	NAME	
SIGNED	<i>Bass Randall</i>	SIGNED	
REGISTERED SURVEYOR	DATE 18/08/2025	CONSTRUCTION MANAGER	DATE

ORIGIN OF W.A.C. LEVELS

PM	57533	Co-Ord System	MGA Ground
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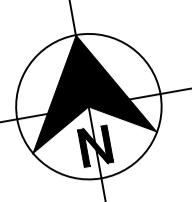
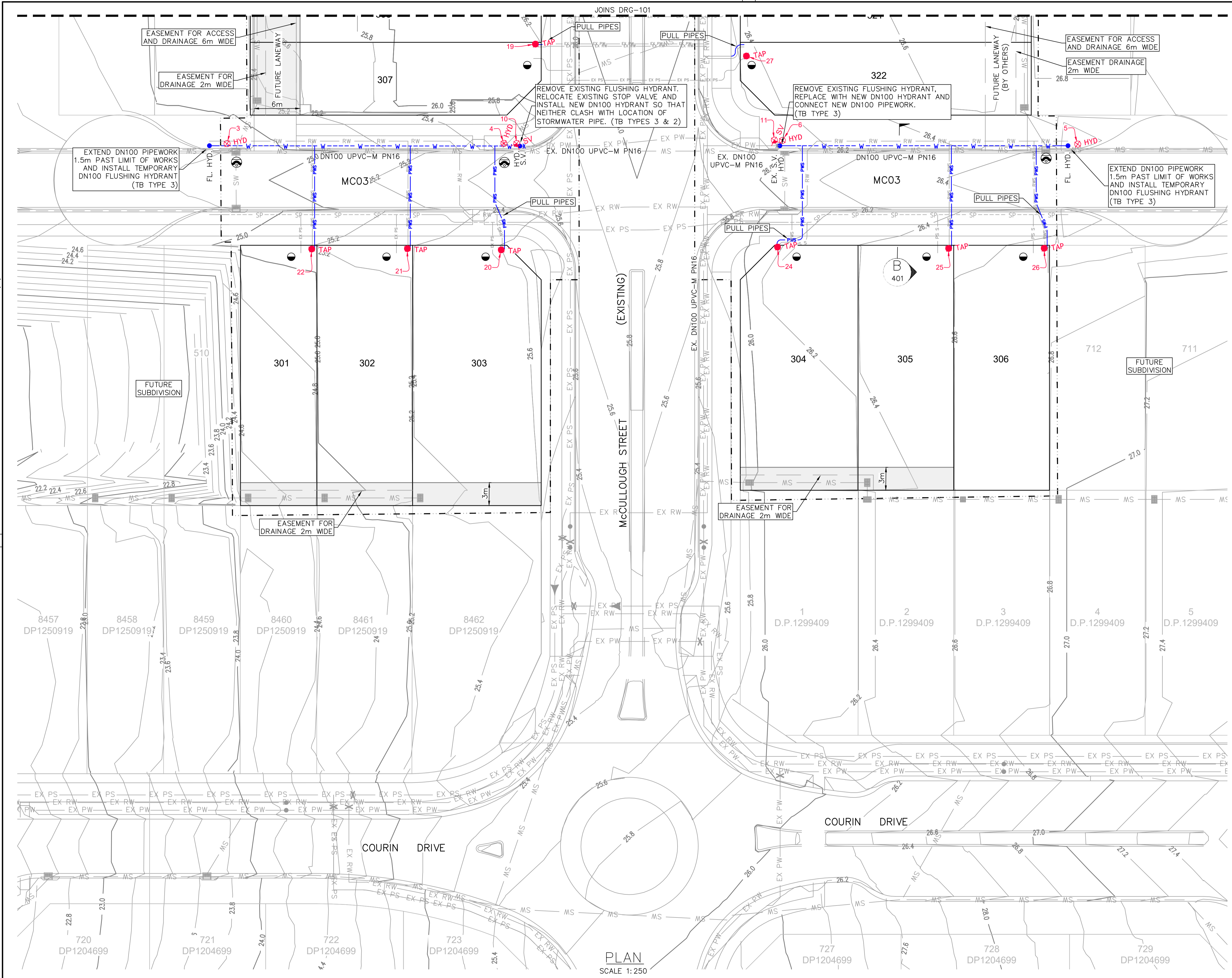


WORK AS CONSTRUCTED

<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT</th> <th>DRAWN</th> <th>CHECK</th> <th>DESIGN</th> <th>VERIFY</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>10.05.2024</td> <td>INITIAL ISSUE</td> <td>G.S.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> </tr> <tr> <td>B</td> <td>18.10.2024</td> <td>REVISED ISSUE</td> <td>L.S.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> </tr> <tr> <td>C</td> <td>25.11.2024</td> <td>UPDATES TO PSS NETWORK HYDRAULICS</td> <td>L.S.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> </tr> <tr> <td>0</td> <td>19.03.2025</td> <td>CONSTRUCTION ISSUE</td> <td>D.N.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> </tr> <tr> <td>1</td> <td>09.04.2025</td> <td>CONSTRUCTION ISSUE AMENDED</td> <td>I.B.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> </tr> <tr> <td>2</td> <td>18.08.2025</td> <td>WORK AS CONSTRUCTED</td> <td>I.B.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	A	10.05.2024	INITIAL ISSUE	G.S.	M.K.	M.K.	C.H.	B	18.10.2024	REVISED ISSUE	L.S.	M.K.	M.K.	C.H.	C	25.11.2024	UPDATES TO PSS NETWORK HYDRAULICS	L.S.	M.K.	M.K.	C.H.	0	19.03.2025	CONSTRUCTION ISSUE	D.N.	M.K.	M.K.	C.H.	1	09.04.2025	CONSTRUCTION ISSUE AMENDED	I.B.	M.K.	M.K.	C.H.	2	18.08.2025	WORK AS CONSTRUCTED	I.B.	M.K.	M.K.	C.H.	<p>DESIGN FILE N:\239078\239078(8)\DWG\Water & Sewer\WAT\Stage 3\X-239078(8)3-WAT-DESIGN.dwg</p> <p>Plotted By: iainb Plot Date: 18/08/25 - 14:33 Cad File: \\adw-svr4\adw-data\239078\239078(8)\DWG\Water & Sewer\WAT\Stage 3\stage 3 WAC\239078(8)3-WAC-102.dwg</p>	<p>SCALE 1:250</p> <p>CONTOUR INTERVAL: 0.2m</p> <p>ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE</p>	<p>adw Johnson</p> <p>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</p>	<p>CLIENT</p> <p>JOHNSON PROPERTY GROUP</p>	<p>PROPERTY DESCRIPTION</p> <p>WATAGAN PARK PRECINCT NORTH E - STAGE 3 LOT 900, D.P.1301001 35 MCCULLOUGH STREET, COORANBONG DA/918/2023</p>	<p>PROJECT</p> <p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p> <p>PLAN TITLE</p> <p>POTABLE WATER DETAIL PLAN - SHEET 1</p>	<table border="1"> <tr> <th>PROJECT No.</th> <th>DISCIPLINE</th> <th>NUMBER</th> <th>REV.</th> </tr> <tr> <td>239078(8)3</td> <td>WAC</td> <td>101</td> <td>02</td> </tr> </table>	PROJECT No.	DISCIPLINE	NUMBER	REV.	239078(8)3	WAC	101	02
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY																																																										
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239078(8)3	WAC	101	02																																																													

239078(8)3-WAC-102

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.



LEGEND

W	PVC-M POTABLE WATER RETICULATION
PWS	PE POTABLE WATER PROPERTY SERVICE
RW	PVC-M RECYCLED WATER RETICULATION
SP	PE PRESSURE SEWER RETICULATION
EX PW	EXISTING POTABLE WATER RETICULATION
EX RW	EXISTING RECYCLED WATER RETICULATION
EX PS	EXISTING PRESSURE SEWER RETICULATION
SW	STORMWATER PIPEWORK
S.V.	STOP VALVE
HYD.	HYDRANT
FL. HYD.	FLUSHING HYDRANT
(Symbol)	LAY WATER MAIN OVER STORMWATER PIPE (1300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
(Symbol)	PROPERTY SERVICE CONNECTION
(Symbol)	PROPOSED EASEMENT
(Symbol)	LIMIT OF WORKS
(Symbol)	UNDRAINABLE AREA

POTABLE WATER PROPERTY SERVICE CONNECTIONS

TOTAL 19 CONNECTIONS

- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 13 x SHORT SIDE (ADJUSTED)
 - 6 x LONG SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 0 x SHORT SIDE
 - 0 x LONG SIDE

POTABLE WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	155

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 202.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 302.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-403 & 404.
 - LOTS 307-322 ARE SUBJECT TO FUTURE REDEVELOPMENT APPLICATION AND SUBDIVISION WORKS CERTIFICATE.

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 15/08/2025 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	BASS RANDALL	NAME	
SIGNED	<i>Bass Randall</i>	SIGNED	
DATE	18/08/2025	DATE/...../.....
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM	57533	Co-Ord System	MGA Ground
E	355 423.957	MGA Datum	GDA94
N	6 340 377.094	MGA Zone	56
RL	20.139m		



WORK AS CONSTRUCTED

REV.	DATE	AMENDMENT
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0	19.03.2025	CONSTRUCTION ISSUE
1	09.04.2025	CONSTRUCTION ISSUE AMENDED
2	18.08.2025	WORK AS CONSTRUCTED

DRAWN	CHECK	DESIGN	VERIFY
G.S.	M.K.	M.K.	C.H.
L.S.	M.K.	M.K.	C.H.
L.S.	M.K.	M.K.	C.H.
D.N.	M.K.	M.K.	C.H.
I.B.	M.K.	M.K.	C.H.
I.B.	M.K.	M.K.	C.H.

SCALES

0 5 10 A1 / A3
1:250 / 1:500

CONTOUR INTERVAL: 0.2m

ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE

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@adwjohanson.com.au
www.adwjohanson.com.au
ABN 62 129 445 398

CLIENT

JOHNSON PROPERTY GROUP

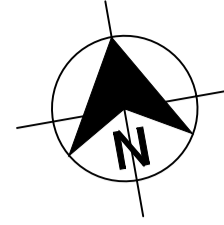
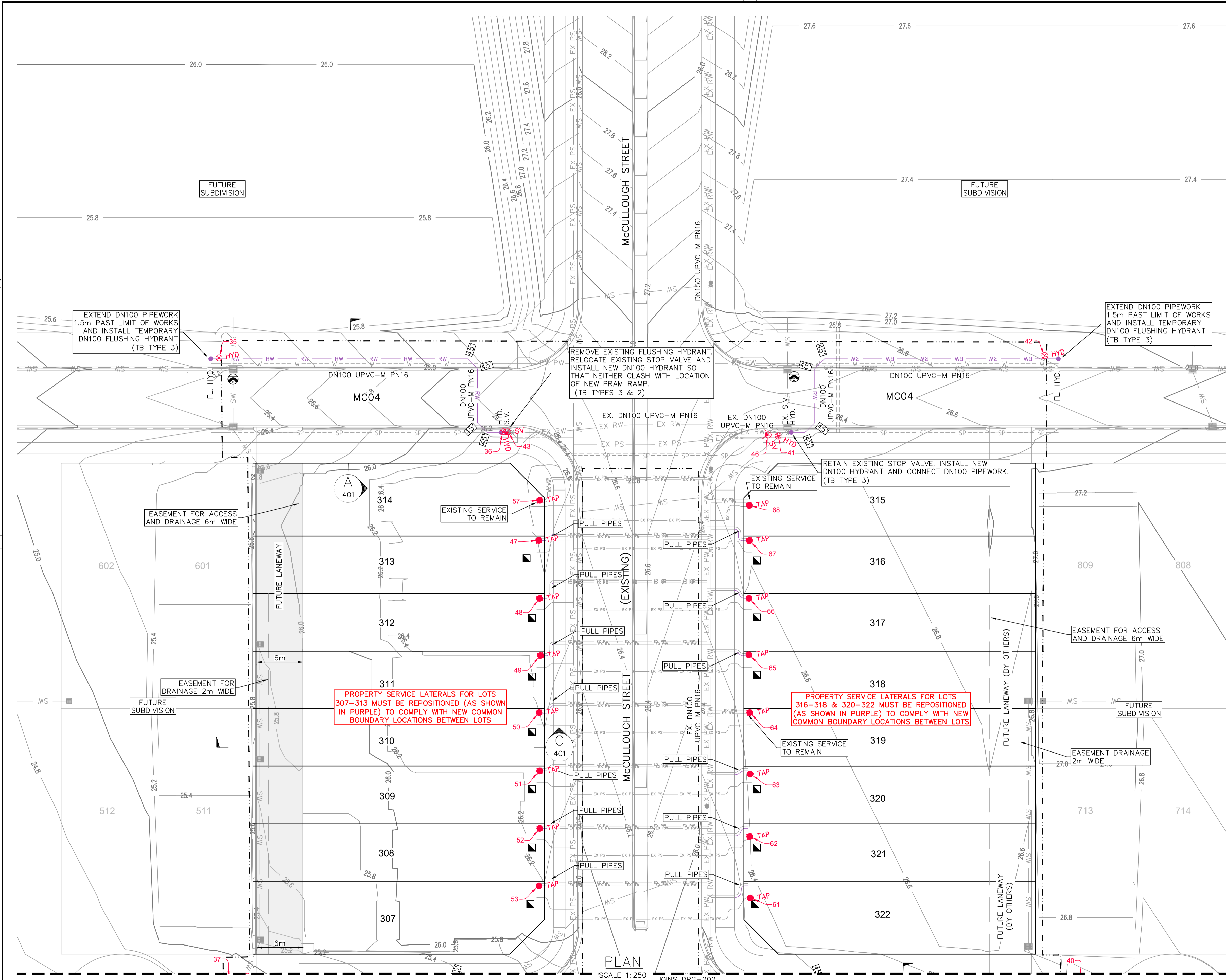
PROPERTY DESCRIPTION

WATAGAN PARK
PRECINCT NORTH E - STAGE 3
LOT 900, D.P.1301001
35 MCCULLOUGH STREET,
COORANBONG
DA/918/2023

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 2		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(8)3	WAC	102	02

239078(8)3-WAC-202

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.



LEGEND

- RW - PVC-M RECYCLED WATER RETICULATION
- RWS - PE RECYCLED WATER PROPERTY SERVICE
- W - PVC-M POTABLE WATER RETICULATION
- SP - PE PRESSURE SEWER RETICULATION
- EX PW - EXISTING POTABLE WATER RETICULATION
- EX RW - EXISTING RECYCLED WATER RETICULATION
- EX PS - EXISTING PRESSURE SEWER RETICULATION
- SW - STORMWATER PIPEWORK
- S.V. - STOP VALVE
- HYD. - HYDRANT
- FL. HYD. - FLUSHING HYDRANT
- LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- PROPERTY SERVICE CONNECTION
- PROPOSED EASEMENT
- LIMIT OF WORKS
- UNDRAINABLE AREA

RECYCLED WATER PROPERTY SERVICE CONNECTIONS

TOTAL 19 CONNECTIONS

- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 13 x SHORT SIDE (ADJUSTED)
 - 6 x LONG SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 0 x SHORT SIDE
 - 0 x LONG SIDE

RECYCLED WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	181

- NOTES**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 102.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 302.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-403 & 404.
 - LOTS 307-322 ARE SUBJECT TO FUTURE REDEVELOPMENT APPLICATION AND SUBDIVISION WORKS CERTIFICATE.

PROPERTY SERVICE LATERALS FOR LOTS 307-313 MUST BE REPOSITIONED (AS SHOWN IN PURPLE) TO COMPLY WITH NEW COMMON BOUNDARY LOCATIONS BETWEEN LOTS

PROPERTY SERVICE LATERALS FOR LOTS 316-318 & 320-322 MUST BE REPOSITIONED (AS SHOWN IN PURPLE) TO COMPLY WITH NEW COMMON BOUNDARY LOCATIONS BETWEEN LOTS

WORK AS CONSTRUCTED

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	BASS RANDALL	NAME	
SIGNED	<i>Bass Randall</i>	SIGNED	
REGISTERED SURVEYOR	DATE 18/08/2025	CONSTRUCTION MANAGER	DATE

ORIGIN OF W.A.C. LEVELS

PM	57533	Co-Ord System	MGA Ground
E	355 423.957	MGA Datum	GDA94
N	6 340 377.094	MGA Zone	56
RL	20.139m		



WORK AS CONSTRUCTED

REV.	DATE	AMENDMENT
A	10.05.2024	INITIAL ISSUE
B	18.10.2024	REVISED ISSUE
C	25.11.2024	UPDATES TO PSS NETWORK HYDRAULICS
0	19.03.2025	CONSTRUCTION ISSUE
1	09.04.2025	CONSTRUCTION ISSUE AMENDED
2	18.08.2025	WORK AS CONSTRUCTED

DRAWN	CHECK	DESIGN	VERIFY
G.S.	M.K.	M.K.	C.H.
L.S.	M.K.	M.K.	C.H.
L.S.	M.K.	M.K.	C.H.
D.N.	M.K.	M.K.	C.H.
I.B.	M.K.	M.K.	C.H.
I.B.	M.K.	M.K.	C.H.

adw Johnson

Hunter Office
Unit 7/335 Hillsborough Rd
Warners Bay N.S.W. 2282
Phone: (02) 4978 5100
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ABN 62 129 445 398

JOHNSON PROPERTY GROUP

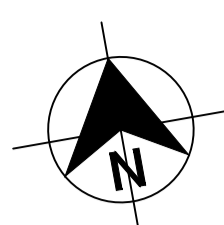
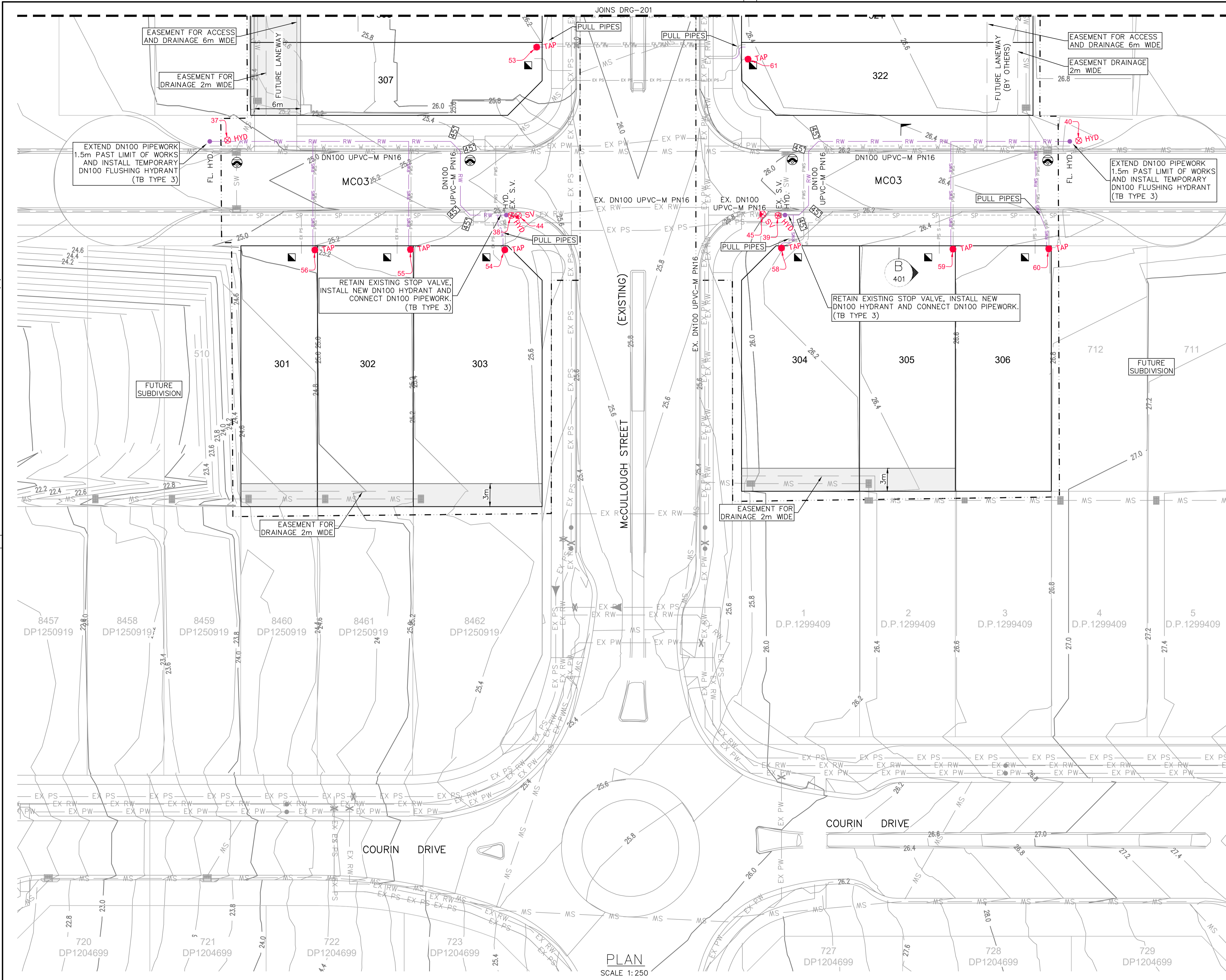
CLIENT

PROPERTY DESCRIPTION
WATAGAN PARK
PRECINCT NORTH E - STAGE 3
LOT 900, D.P.1301001
35 MCCULLOUGH STREET,
COORANBONG
DA/918/2023

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 1		
PROJECT No.	239078(8)3	DISCIPLINE	WAC
NUMBER	201	REV.	02

239078(8)3-WAC-202

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.



- LEGEND**
- RW — PVC-M RECYCLED WATER RETICULATION
 - RWS — PE RECYCLED WATER PROPERTY SERVICE
 - W — PVC-M POTABLE WATER RETICULATION
 - SP — PE PRESSURE SEWER RETICULATION
 - EX PW — EXISTING POTABLE WATER RETICULATION
 - EX RW — EXISTING RECYCLED WATER RETICULATION
 - EX PS — EXISTING PRESSURE SEWER RETICULATION
 - SW — STORMWATER PIPEWORK
 - S.V. — STOP VALVE
 - HYD. — HYDRANT
 - FL. HYD. — FLUSHING HYDRANT
 - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPERTY SERVICE CONNECTION
 - PROPOSED EASEMENT
 - LIMIT OF WORKS
 - UNDRAINABLE AREA

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 19 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 13 x SHORT SIDE (ADJUSTED)
 - 6 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 0 x SHORT SIDE
 - 0 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	181

- NOTES**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 102.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 302.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-403 & 404.
 4. LOTS 307-322 ARE SUBJECT TO FUTURE REDEVELOPMENT APPLICATION AND SUBDIVISION WORKS CERTIFICATE.

WORK AS CONSTRUCTED

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	BASS RANDALL	NAME	
SIGNED	<i>Bass Randall</i>	DATE	18/08/2025
	REGISTERED SURVEYOR	SIGNED	
		DATE/...../.....
			CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM	57533	Co-Ord System:	MGA Ground
E	355 423.957	MGA Datum:	GDA94
N	6 340 377.094	MGA Zone:	56
RL	20.139m		

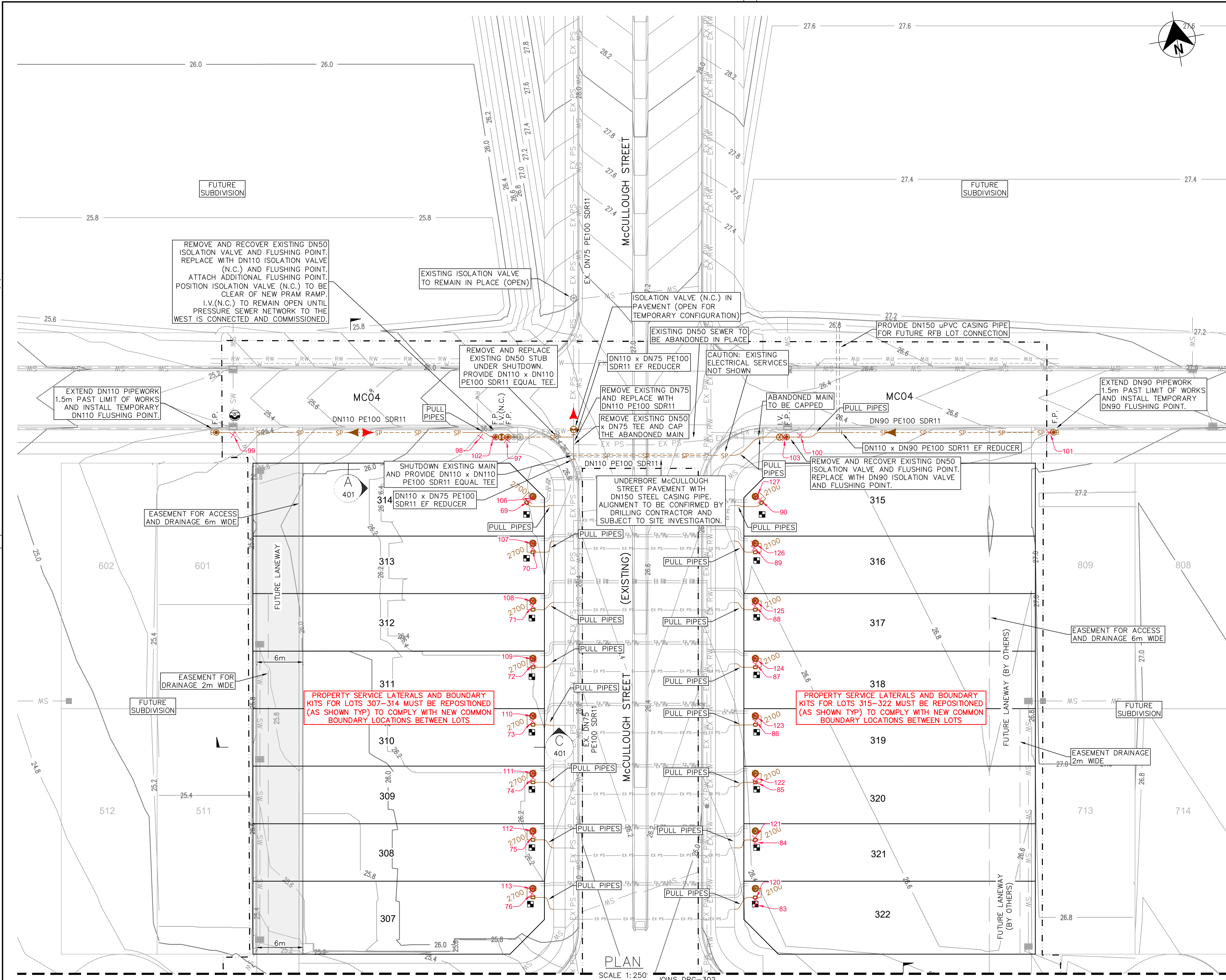


WORK AS CONSTRUCTED

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@adwjohanson.com.au www.adwjohanson.com.au ABN 62 129 445 398	JOHNSON PROPERTY GROUP	CLIENT WATAGAN PARK PRECINCT NORTH E - STAGE 3 LOT 900, D.P.1301001 35 MCCULLOUGH STREET, COORANBONG DA/918/2023	PROPERTY DESCRIPTION WATAGAN PARK PRECINCT NORTH E - STAGE 3 LOT 900, D.P.1301001 35 MCCULLOUGH STREET, COORANBONG DA/918/2023	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	PLAN TITLE POTABLE WATER DETAIL PLAN - SHEET 2	PROJECT No. 239078(8)3	DISCIPLINE WAC	NUMBER 202	REV. 02	
A	10.05.2024	INITIAL ISSUE	G.S.	M.K.	M.K.	C.H.	0 5 10 A1 / A3 1:250 / 1:500 CONTOUR INTERVAL: 0.2m												
B	18.10.2024	REVISED ISSUE	L.S.	M.K.	M.K.	C.H.													
C	25.11.2024	UPDATES TO PSS NETWORK HYDRAULICS	L.S.	M.K.	M.K.	C.H.													
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1	09.04.2025	CONSTRUCTION ISSUE AMENDED	I.B.	M.K.	M.K.	C.H.													
2	18.08.2025	WORK AS CONSTRUCTED	I.B.	M.K.	M.K.	C.H.													

239078(8)3-WAC-302

100mm AT FULL SIZE
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LEGEND

- SP PE PRESSURE SEWER RETICULATION
- PS S PE PRESSURE SEWER PROPERTY SERVICE
- W PVC-M POTABLE WATER RETICULATION
- RW PVC-M RECYCLED WATER RETICULATION
- EX PS EXISTING PRESSURE SEWER RETICULATION
- EX PW EXISTING POTABLE WATER RETICULATION
- EX RW EXISTING RECYCLED WATER RETICULATION
- SW STORMWATER PIPEWORK
- I.V. ISOLATION VALVE
- I.V. (N.C.) ISOLATION VALVE - NORMALLY CLOSED
- F.P. FLUSHING POINT
- BOUNDARY KIT
- PRESSURE SEWER FLOW DIRECTION (TEMP. - RED), (ULTIMATE)
- LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- PROPERTY SERVICE CONNECTION - STD CONNECTION
- PROPOSED EASEMENT
- LIMIT OF WORKS
- UNDRAINABLE AREA

PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 22 CONNECTIONS
 • SINGLE SERVICES
 - 22 x SHORT SIDE (16 ADJUSTED)
 - 0 x LONG SIDE

STEEL CASING PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	STEEL WALL THICKNESS 5mm (NOTE 9)	33

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 SDR11	87
DN90	PE100 SDR11	29
DN110	PE100 SDR11	88

- NOTES.**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 102.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 202.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-404.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
 - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
 - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIA.
 - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
 - LOTS 307-322 ARE SUBJECT TO FUTURE REDEVELOPMENT APPLICATION AND SUBDIVISION WORKS CERTIFICATE.
 - ALTERNATE WALL THICKNESS MAY BE CONSIDERED SUBJECT TO SUPERINTENDENT'S APPROVAL PRIOR TO PROCUREMENT.

WORK AS CONSTRUCTED

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	BASS RANDALL	NAME	
SIGNED	<i>Bass Randall</i>	SIGNED	<i>[Signature]</i>
REGISTERED SURVEYOR	DATE 18/08/2025	CONSTRUCTION MANAGER	DATE

ORIGIN OF W.A.C. LEVELS

PM	57533	Co-Ord System:	MGA Ground
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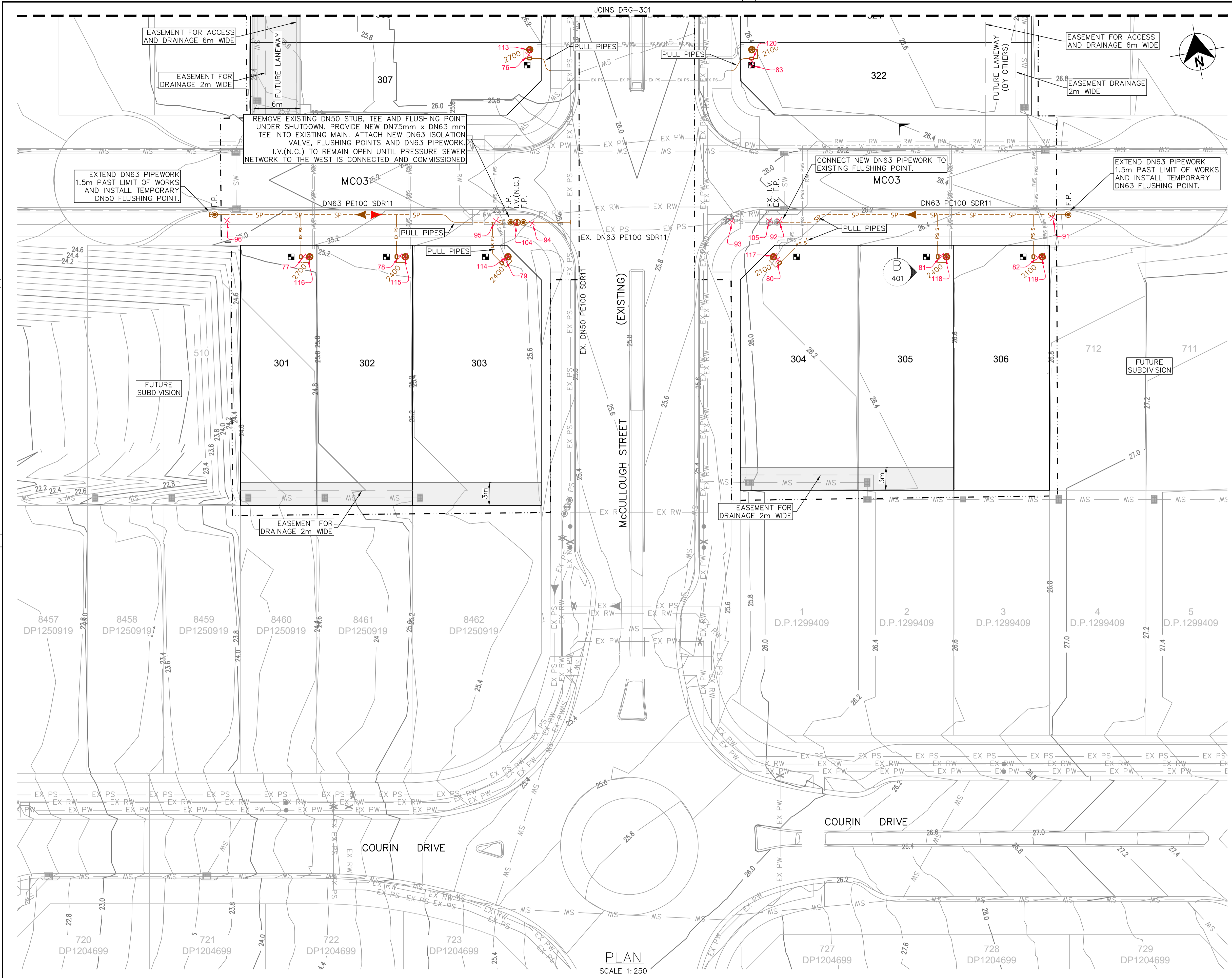


WORK AS CONSTRUCTED

<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT</th> <th>DRAWN</th> <th>CHECK</th> <th>DESIGN</th> <th>VERIFY</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>10.05.2024</td> <td>INITIAL ISSUE</td> <td>G.S.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> </tr> <tr> <td>B</td> <td>18.10.2024</td> <td>REVISED ISSUE</td> <td>L.S.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> </tr> <tr> <td>C</td> <td>25.11.2024</td> <td>UPDATES TO PSS NETWORK HYDRAULICS</td> <td>L.S.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> </tr> <tr> <td>O</td> <td>19.03.2025</td> <td>CONSTRUCTION ISSUE</td> <td>D.N.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> </tr> <tr> <td>1</td> <td>09.04.2025</td> <td>CONSTRUCTION ISSUE AMENDED</td> <td>I.B.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> </tr> <tr> <td>2</td> <td>18.08.2025</td> <td>WORK AS CONSTRUCTED</td> <td>I.B.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	A	10.05.2024	INITIAL ISSUE	G.S.	M.K.	M.K.	C.H.	B	18.10.2024	REVISED ISSUE	L.S.	M.K.	M.K.	C.H.	C	25.11.2024	UPDATES TO PSS NETWORK HYDRAULICS	L.S.	M.K.	M.K.	C.H.	O	19.03.2025	CONSTRUCTION ISSUE	D.N.	M.K.	M.K.	C.H.	1	09.04.2025	CONSTRUCTION ISSUE AMENDED	I.B.	M.K.	M.K.	C.H.	2	18.08.2025	WORK AS CONSTRUCTED	I.B.	M.K.	M.K.	C.H.	<p>DESIGN FILE N:\239078\239078(8)\DWG\Water & Sewer\WAT\Stage 3\X-239078(8)3-WAT-DESIGN.dwg</p> <p>Plotted By: iainb Plot Date: 18/08/25 - 14:33 Cad File: \\adw-svr4\adw-data\239078\239078(8)\DWG\Water & Sewer\WAT\Stage 3\stage 3 WAC\239078(8)3-WAC-302.dwg</p>	<p>SCALE 1:250</p> <p>CONTOUR INTERVAL: 0.2m</p> <p>ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE</p>	<p>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</p>	<p>CLIENT</p> <p>JOHNSON PROPERTY GROUP</p>	<p>PROPERTY DESCRIPTION</p> <p>WATAGAN PARK PRECINCT NORTH E - STAGE 3 LOT 900, D.P.1301001 35 MCCULLOUGH STREET, COORANBONG DA/918/2023</p>	<p>PROJECT</p> <p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p> <p>PLAN TITLE</p> <p>POTABLE WATER DETAIL PLAN - SHEET 1</p>	<p>PROJECT No. 239078(8)3 - DISCIPLINE WAC - NUMBER 301 - REV. 02</p>
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239078(8)3-WAC-302

100mm AT FULL SIZE
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LEGEND

- SP PE PRESSURE SEWER RETICULATION
- PS S PE PRESSURE SEWER PROPERTY SERVICE
- W PVC-M POTABLE WATER RETICULATION
- RW PVC-M RECYCLED WATER RETICULATION
- EX PS EXISTING PRESSURE SEWER RETICULATION
- EX PW EXISTING POTABLE WATER RETICULATION
- EX RW EXISTING RECYCLED WATER RETICULATION
- SW STORMWATER PIPEWORK
- I.V. ISOLATION VALVE
- I.V. (N.C.) ISOLATION VALVE - NORMALLY CLOSED
- F.P. FLUSHING POINT
- BOUNDARY KIT
- PRESSURE SEWER FLOW DIRECTION (TEMP. - RED), (ULTIMATE)
- LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- PROPERTY SERVICE CONNECTION - STD CONNECTION
- PROPOSED EASEMENT
- LIMIT OF WORKS
- UNDRAINABLE AREA

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 22 CONNECTIONS
 • SINGLE SERVICES
 - 22 x SHORT SIDE (16 ADJUSTED)
 - 0 x LONG SIDE

STEEL CASING PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	STEEL WALL THICKNESS 5mm (NOTE 9)	33

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 SDR11	87
DN90	PE100 SDR11	29
DN110	PE100 SDR11	88

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 102.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 202.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-404.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
 - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
 - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIA.
 - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
 - LOTS 307-322 ARE SUBJECT TO FUTURE REDEVELOPMENT APPLICATION AND SUBDIVISION WORKS CERTIFICATE.
 - ALTERNATE WALL THICKNESS MAY BE CONSIDERED SUBJECT TO SUPERINTENDENT'S APPROVAL PRIOR TO PROCUREMENT.

WORK AS CONSTRUCTED
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COMPANY **ADW Johnson Pty Ltd** COMPANY
 NAME **BASS RANDALL** NAME
 SIGNED *Bass Randall* DATE 18/08/2025 SIGNED _____ DATE _____
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
 PM 57533
 E: 355 423.957 Co-Ord System: MGA Ground
 N: 6 340 377.094 MGA Datum: GDA94
 RL: 20.139m MGA Zone: 56

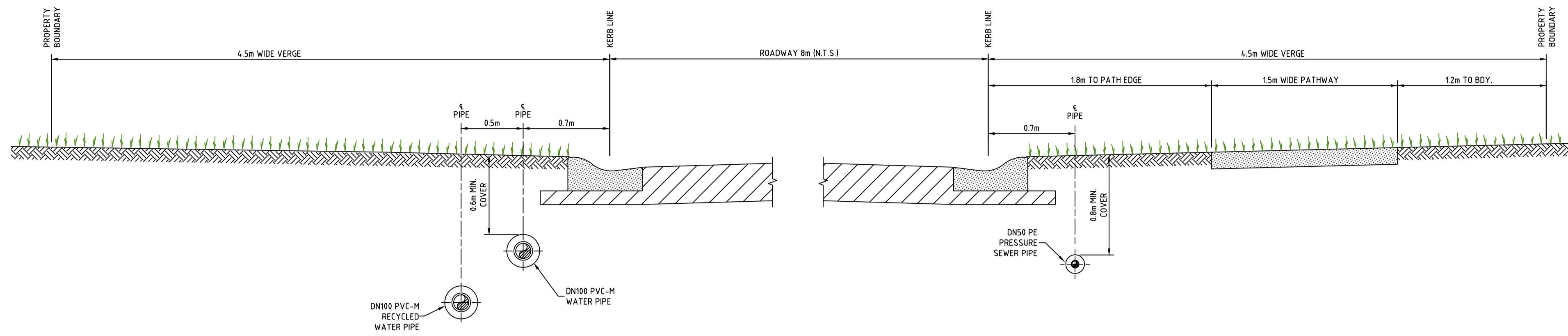


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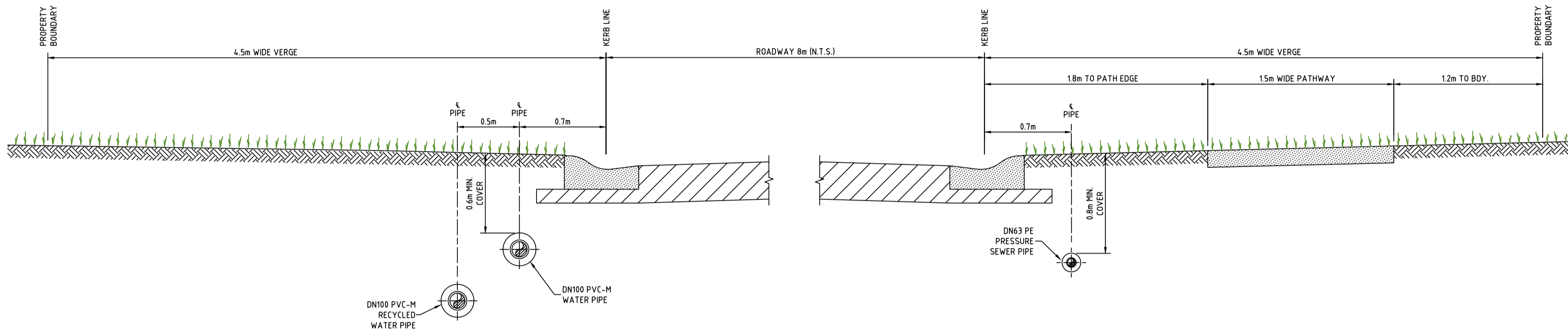
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239078(8)3-WAC-401

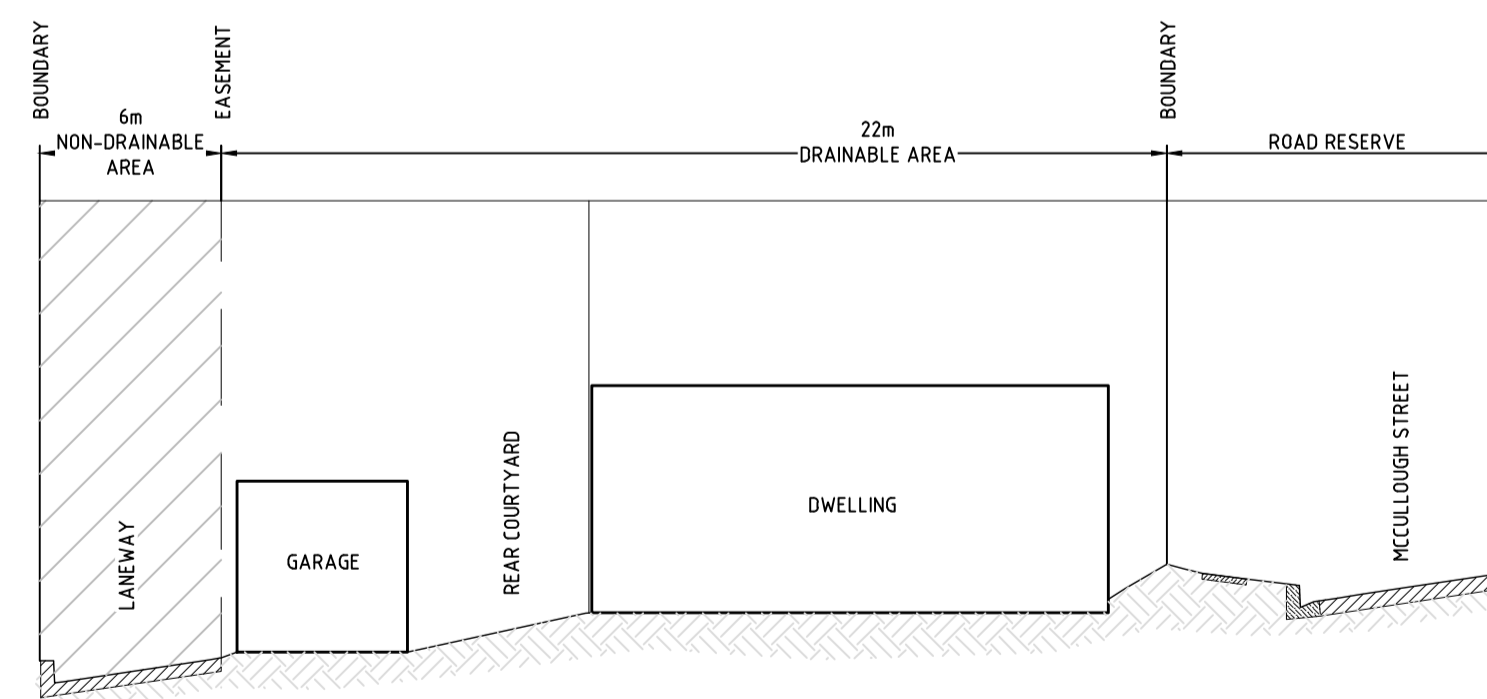
100mm AT FULL SIZE
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MC04
SECTION A-A-A
SCALE 1:25



MC03
SECTION B-B-B
SCALE 1:25



TYPICAL SECTION (LOTS 307 TO 314) - FUTURE REAR - ACCESS DWELLING

SECTION C-C-C
SCALE HORIZONTAL: 1:250
SCALE VERTICAL: 1:50

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COMPANY ADW Johnson Pty Ltd COMPANY
NAME BASS RANDALL NAME
SIGNED *Bass Randall* DATE 18/08/2025 SIGNED _____ DATE _____
REGISTERED SURVEYOR CONSTRUCTION MANAGER

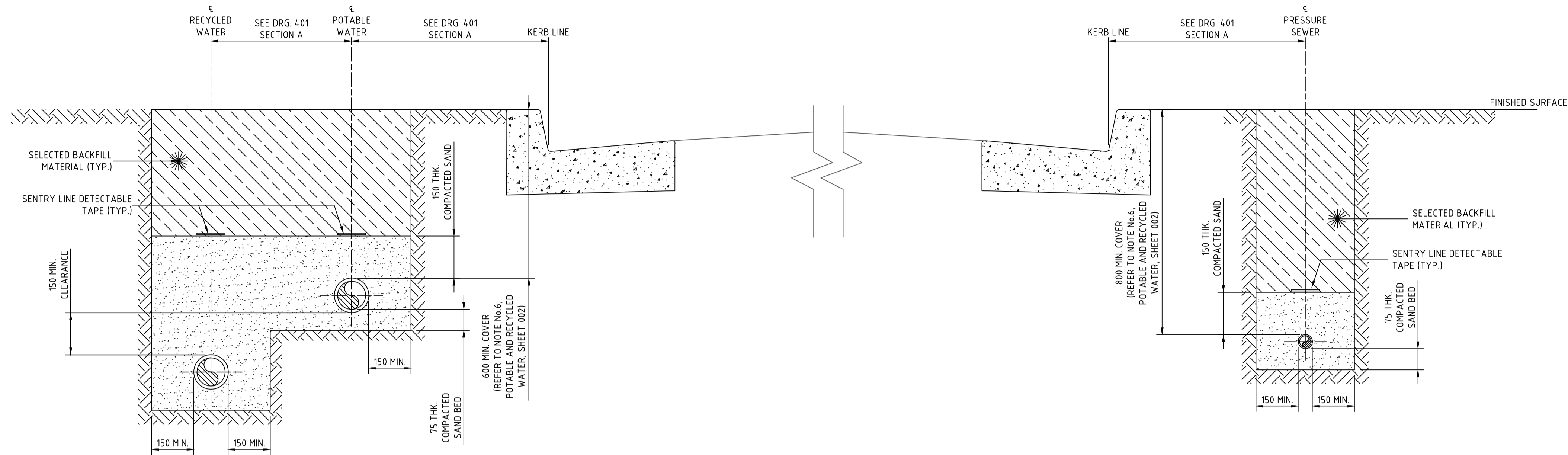
ORIGIN OF W.A.C. LEVELS
PM 57533 Co-Ord System: MGA Ground
E: 355 423.957 MGA Datum: GDA94
N: 6 340 377.094 MGA Zone: 56
RL: 20.139m



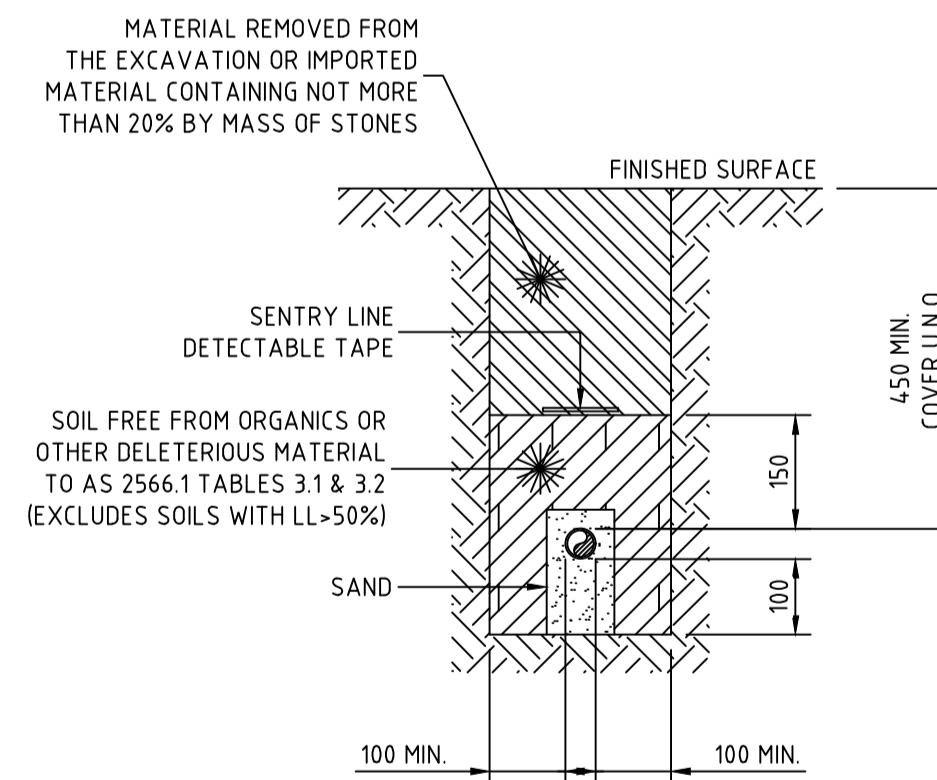
WORK AS CONSTRUCTED

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 JOHNSON PROPERTY GROUP	PROPERTY DESCRIPTION WATAGAN PARK PRECINCT NORTH E - STAGE 3 LOT 900, D.P.1301001 35 MCCULLOUGH STREET, COORANBONG DA/918/2023	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
A	10.05.2024	INITIAL ISSUE	G.S.	M.K.	M.K.	C.H.	0 0.5 1 A1 / A3 1:25 / 1:50				PLAN TITLE	TYPICAL CROSS SECTIONS		
B	18.10.2024	REVISED ISSUE	L.S.	M.K.	M.K.	C.H.	0 5 10 A1 / A3 1:250 / 1:500	DESIGN FILE N:\239078\239078(8)\DWG\Water & Sewer\WAT\Stage 3\X-239078(8)3-WAT-DESIGN.dwg ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE Plotted By: iainb Plot Date: 18/08/25 - 14:33 Cad File: \\adw-svr4\adw-data\239078\239078(8)\DWG\Water & Sewer\WAT\Stage 3\stage 3 WAC\239078(8)3-WAC-401.dwg	PROJECT No.			DISCIPLINE	NUMBER	REV.
C	25.11.2024	UPDATES TO PSS NETWORK HYDRAULICS	L.S.	M.K.	M.K.	C.H.	0 1 2 A1 / A3 1:50 / 1:100		239078(8)3 -			WAC	401	02
O	19.03.2025	CONSTRUCTION ISSUE	D.N.	M.K.	M.K.	C.H.			ADW Johnson			GDA94 M.G.A. ZONE 56 A.H.D.		
1	09.04.2025	CONSTRUCTION ISSUE AMENDED	I.B.	M.K.	M.K.	C.H.								
2	18.08.2025	WORK AS CONSTRUCTED	I.B.	M.K.	M.K.	C.H.								

239078(8)3-WAC-402



STREET PRESSURE MAIN
TYPICAL DETAIL - SECTION A
SCALE 1:10



PRIVATE PROPERTY PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	BASS RANDALL	NAME	
SIGNED	<i>Bass Randall</i>	DATE	18/08/2025
	REGISTERED SURVEYOR	SIGNED	
		DATE/...../.....
			CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM	57533	Co-Ord System	MGA Ground
E	355 423.957	MGA Datum	GDA94
N	6 340 377.094	MGA Zone	56
RL	20.139m		



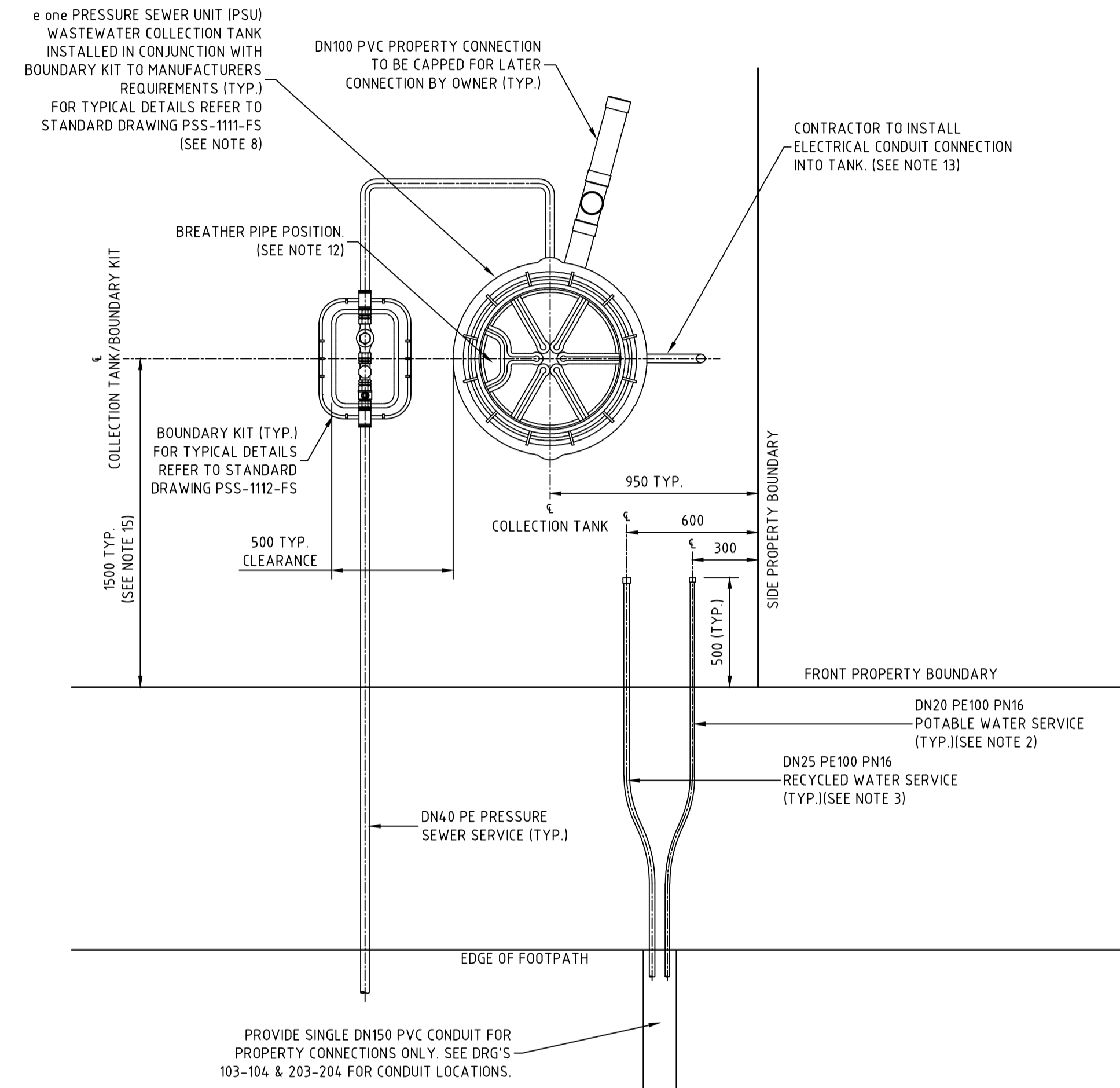
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A	10.05.2024	INITIAL ISSUE	G.S.	M.K.	M.K.	C.H.	0 0.1 0.2 0.3 0.4 A1 / A3				WATAGAN PARK PRECINCT NORTH E - STAGE 3 LOT 900, D.P.1301001 35 MCCULLOUGH STREET, COORANBONG DA/918/2023	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
B	18.10.2024	REVISED ISSUE	L.S.	M.K.	M.K.	C.H.	1:10 / 1:20				SURVEYED	DATUM	
C	25.11.2024	UPDATES TO PSS NETWORK HYDRAULICS	L.S.	M.K.	M.K.	C.H.					ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	
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1	09.04.2025	CONSTRUCTION ISSUE AMENDED	I.B.	M.K.	M.K.	C.H.							
2	18.08.2025	WORK AS CONSTRUCTED	I.B.	M.K.	M.K.	C.H.							

NOTES:

- PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION) (SUPPLEMENT TO WSA 03-2011).
- DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE TO BE OFFSET FROM THE PROPERTY BOUNDARY.
- WHERE SERVICE CONNECTIONS ARE LOCATED ADJACENT TO TELSTRA PITS/ELECTRICAL PILLARS, A MINIMUM CLEARANCE OF 200mm BETWEEN PITS AND SERVICE PIPEWORK IS TO BE MAINTAINED.
- MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
- ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
- PRESSURE SEWER UNIT (PSU) IS TO HAVE 500mm CLEARANCE FROM INTER ALLOTMENT DRAINAGE EASEMENT (IF PRESENT), REAR PROPERTY BOUNDARY RETAINING WALL (IF PRESENT) OR REAR PROPERTY BOUNDARY. PRESSURE SEWER UNIT (PSU) IS TO HAVE 2150mm CLEARANCE FROM BUILDING STRUCTURES.
- Ø25 ELECTRICAL CONDUIT IS TO EXTEND FROM CONNECTION WITH PRESSURE SEWER UNIT (PSU) TO NOM. 500mm INSIDE FRONT PROPERTY BOUNDARY AND BE CAPPED. ELECTRICAL CONDUIT IS TO BE HEAVY DUTY ORANGE. ALL CONDUIT BENDS ARE TO BE LARGE RADIUS SWEEP BENDS.
- FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-FS.
- FOR ALTERNATE TANK AND BOUNDARY CONFIGURATIONS, AND DETAILS FOR TANKS INSTALLED ON PROPERTIES WITH BATTERS AND RETAINING WALLS, REFER TO FLOW SYSTEMS STANDARD DRAWINGS FSI-SK03A-FS AND FSI-SK03B-FS.
- POSITION TANK LID SUCH THAT BREATHER PIPE LOCATION IS ON THE DOWNSLOPE SIDE OF THE BLOCK WHERE POSSIBLE.
- CONTRACTOR TO INSTALL ELECTRICAL CONDUIT CONNECTION (CONDUIT AT 90° FROM DISCHARGE PIPE) IN ACCORDANCE WITH AS3000 AT MIN 500mm COVER. ELECTRICAL GROMMET SUPPLIED WITH TANK AND LOCATED LOOSE WITHIN TANK. Ø25 CONDUIT TO BE PROVIDED WITH LONG RADIUS SWEEP BEND INTO THE VERTICAL POSITION AND LEFT CAPPED ABOVE GROUND LEVEL FOR FUTURE ELECTRICAL CONNECTION BY ELECTRICIAN ONCE DWELLING IS CONSTRUCTED.
- EXISTING BOUNDARY KITS ON LOTS 307-320 TO BE RELOCATED AS REQUIRED.



TYPICAL PROPERTY CONNECTION DETAIL - SMALL LOTS
SCALE 1:20

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	BASS RANDALL	NAME	
SIGNED	<i>Bass Randall</i>	DATE	18/08/2025
	REGISTERED SURVEYOR	SIGNED	
		DATE/...../.....
		CONSTRUCTION MANAGER	

ORIGIN OF W.A.C. LEVELS

PM	57533	Co-Ord System	MGA Ground
E	355 423 957	MGA Datum	GDA94
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RL	20.139m		



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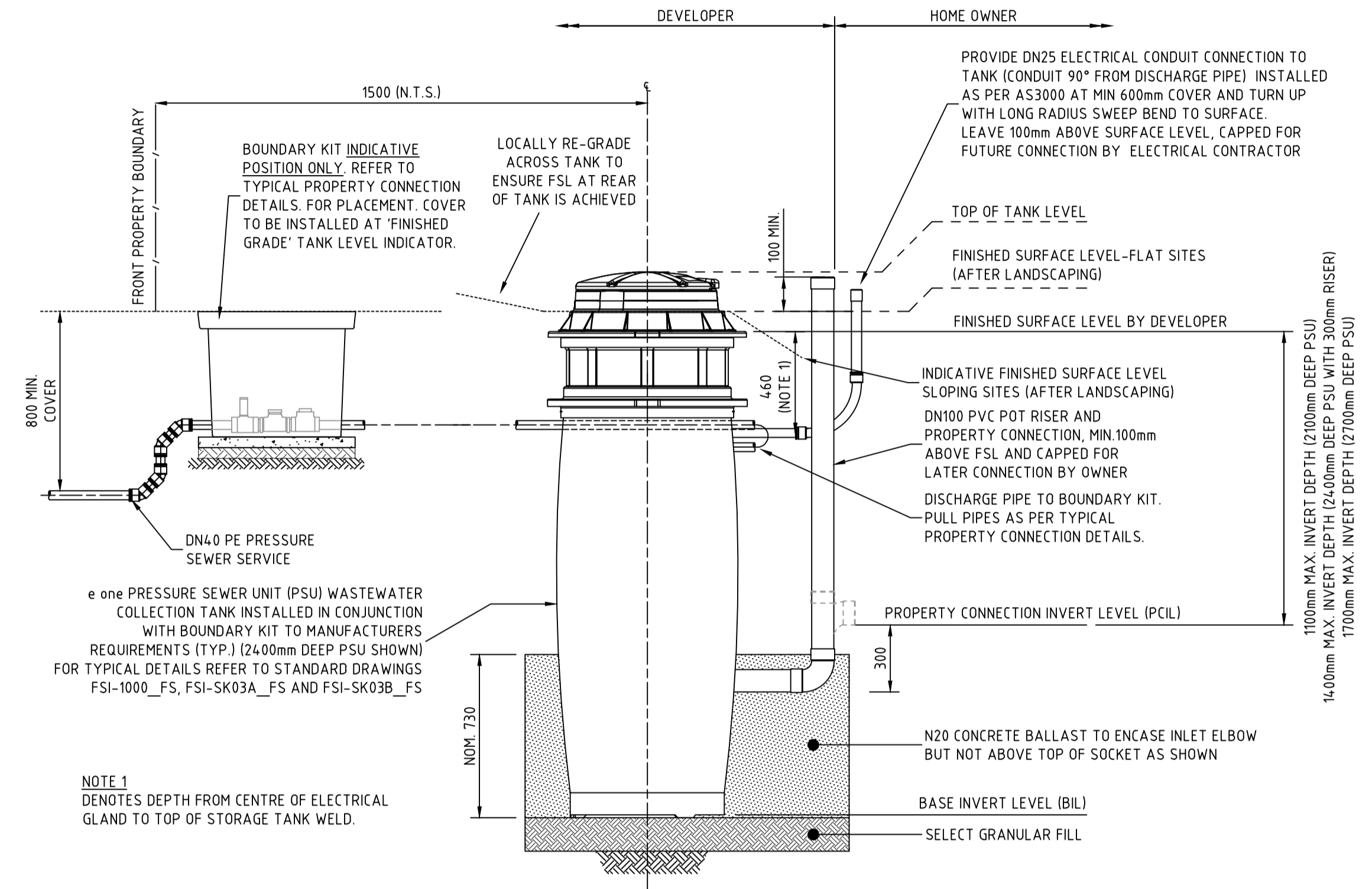
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O	19.03.2025	CONSTRUCTION ISSUE	D.N.	M.K.	M.K.	C.H.											
1	09.04.2025	CONSTRUCTION ISSUE AMENDED	I.B.	M.K.	M.K.	C.H.											
2	18.08.2025	WORK AS CONSTRUCTED	I.B.	M.K.	M.K.	C.H.											
DESIGN FILE N:\239078\239078(8)\DWG\Water & Sewer\WAT\Stage 3\X-239078(8)3-WAT-DESIGN.dwg			ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE			PROJECT No.			DISCIPLINE			NUMBER			REV.		
Plotted By: iainb Plot Date: 18/08/25 - 14:33 Cad File: \\adw-svr4\adw-data\239078\239078(8)\DWG\Water & Sewer\WAT\Stage 3\stage 3 WAC\239078(8)3-WAC-403.dwg						239078(8)3			- WAC			- 403			02		

WASTEWATER COLLECTION TANK DETAILS

LOT NUMBER	TOP OF TANK	TANK FSL	BASE IL	PROPERTY CONNECTION IL	TANK HEIGHT	TANK LOCATION	EASTING	NORTHING	TOP OF COLLECTION TANK LID	CALCULATED WAC SANITARY DRAINAGE INVERT LEVEL	WAC V'S DESIGN INVERT LEVEL COMPARISON
301	25.39	25.11	22.66	23.41	2700	FRONT	356287.00	6340695.38	25.317	23.34	-0.068
302	25.64	25.36	23.21	23.96	2400	FRONT	356299.30	6340693.20	25.594	23.92	-0.041
303	25.93	25.65	23.50	24.25	2400	FRONT	356312.51	6340690.86	25.859	24.18	-0.066
304	26.46	26.18	24.33	25.08	2100	FRONT	356346.66	6340684.82	26.409	25.03	-0.046
305	26.80	26.52	24.37	25.12	2400	FRONT	356368.91	6340680.88	26.752	25.08	-0.043
306	26.88	26.60	24.75	25.50	2100	FRONT	356381.21	6340678.70	26.845	25.47	-0.030
307	26.37	26.09	23.64	24.39	2700	FRONT	356320.02	6340711.01	26.336	24.36	-0.029
308	26.44	26.16	23.71	24.46	2700	FRONT	356321.33	6340724.39	26.377	24.40	-0.058
309	26.48	26.20	23.75	24.50	2700	FRONT	356322.64	6340731.78	26.414	24.44	-0.061
310	26.58	26.30	23.85	24.60	2700	FRONT	356323.94	6340739.16	26.570	24.60	-0.005
311	26.64	26.36	23.91	24.66	2700	FRONT	356325.25	6340746.55	26.611	24.64	-0.024
312	26.73	26.45	24.00	24.75	2700	FRONT	356326.56	6340753.93	26.659	24.68	-0.066
313	26.78	26.50	24.05	24.80	2700	FRONT	356327.86	6340761.32	26.752	24.78	-0.023
314	26.86	26.58	24.13	24.88	2700	FRONT	356328.93	6340767.33	26.834	24.86	-0.021
315	26.94	26.66	24.81	25.56	2100	FRONT	356357.48	6340762.27	26.917	25.54	-0.018
316	26.91	26.63	24.78	25.53	2100	FRONT	356356.42	6340756.26	26.826	25.45	-0.079
317	26.84	26.56	24.71	25.46	2100	FRONT	356355.11	6340748.87	26.727	25.35	-0.108
318	26.78	26.50	24.65	25.40	2100	FRONT	356353.81	6340741.49	26.711	25.34	-0.064
319	26.72	26.44	24.59	25.34	2100	FRONT	356352.50	6340734.10	26.752	25.38	0.037
320	26.70	26.42	24.57	25.32	2100	FRONT	356351.19	6340726.72	26.710	25.34	0.015
321	26.69	26.41	24.56	25.31	2100	FRONT	356349.88	6340719.33	26.661	25.29	-0.024
322	26.64	26.36	24.51	25.26	2100	FRONT	356348.58	6340711.95	26.643	25.27	0.008

WASTEWATER COLLECTION TANK COUNT (TOTAL)

TANK SIZE	NUMBER OF
2100	10
2400	3
2700	9



PRESSURE SEWER SERVICE CONNECTION
TYPICAL SECTIONAL ELEVATION
SCALE 1:20

WORK AS CONSTRUCTED

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COMPANY: ADW Johnson Pty Ltd
 NAME: BASS RANDALL
 SIGNED: [Signature] DATE: 18/08/2025
 COMPANY: [Name] REGISTERED SURVEYOR
 NAME: [Name] SIGNED: [Signature] DATE: [Date] CONSTRUCTION MANAGER

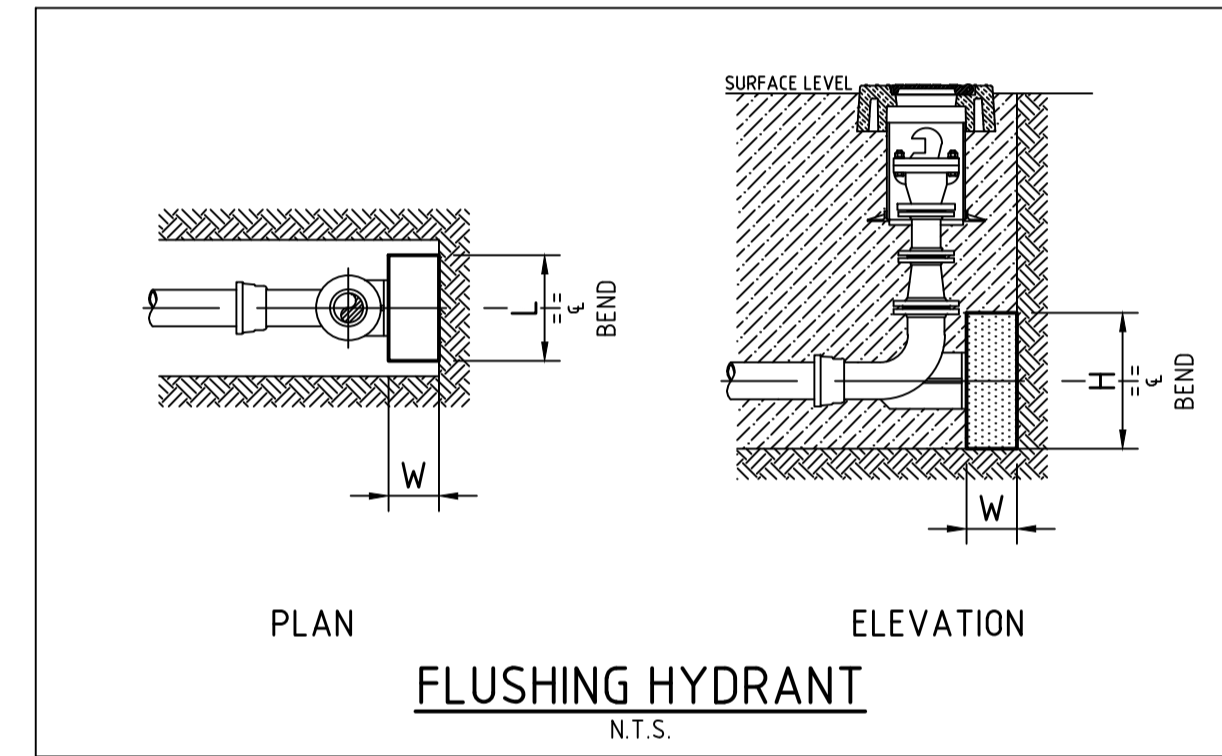
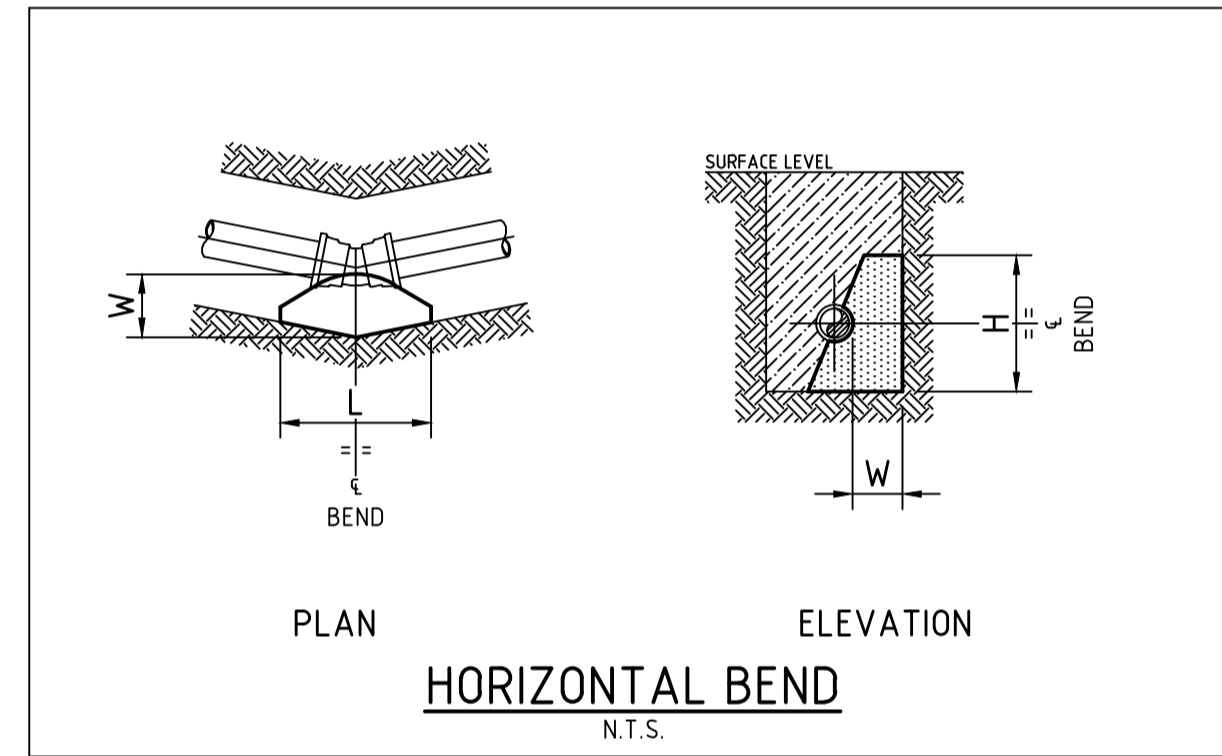
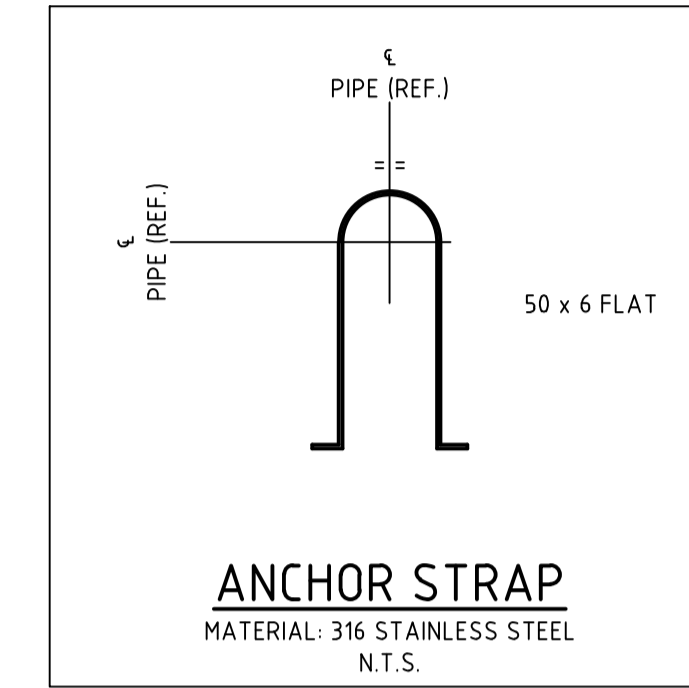
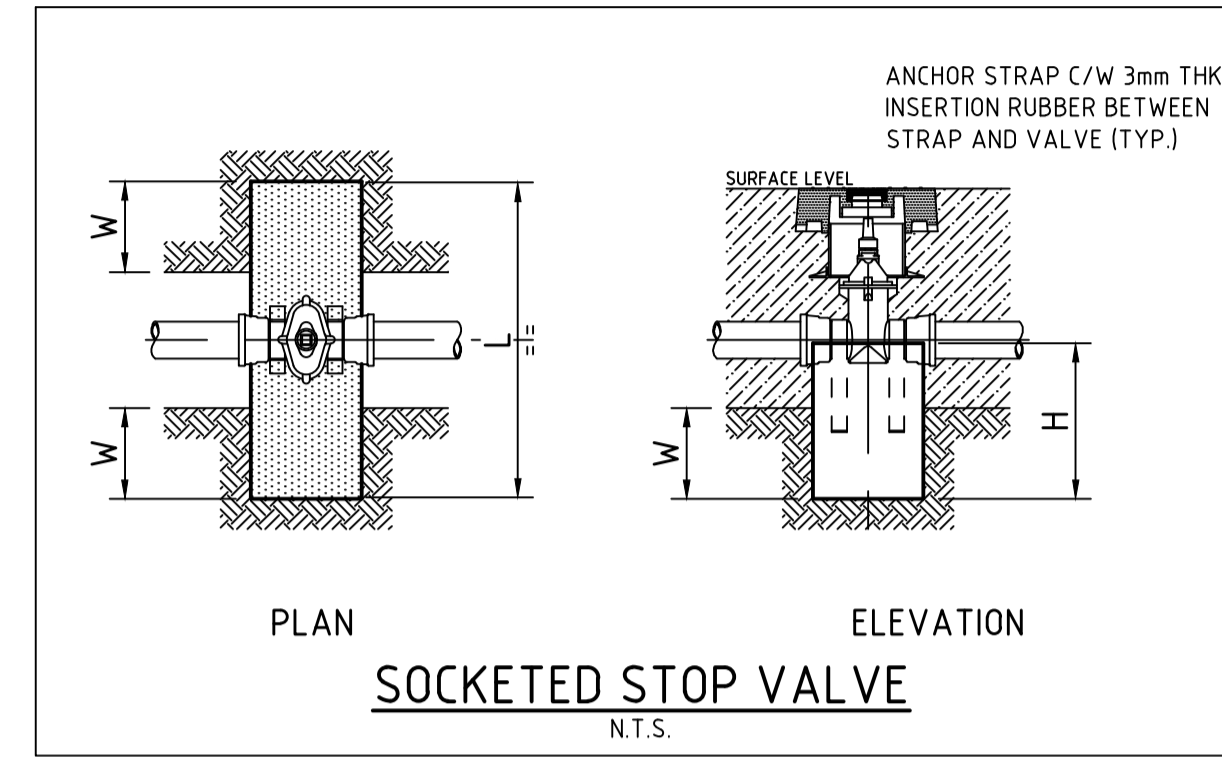
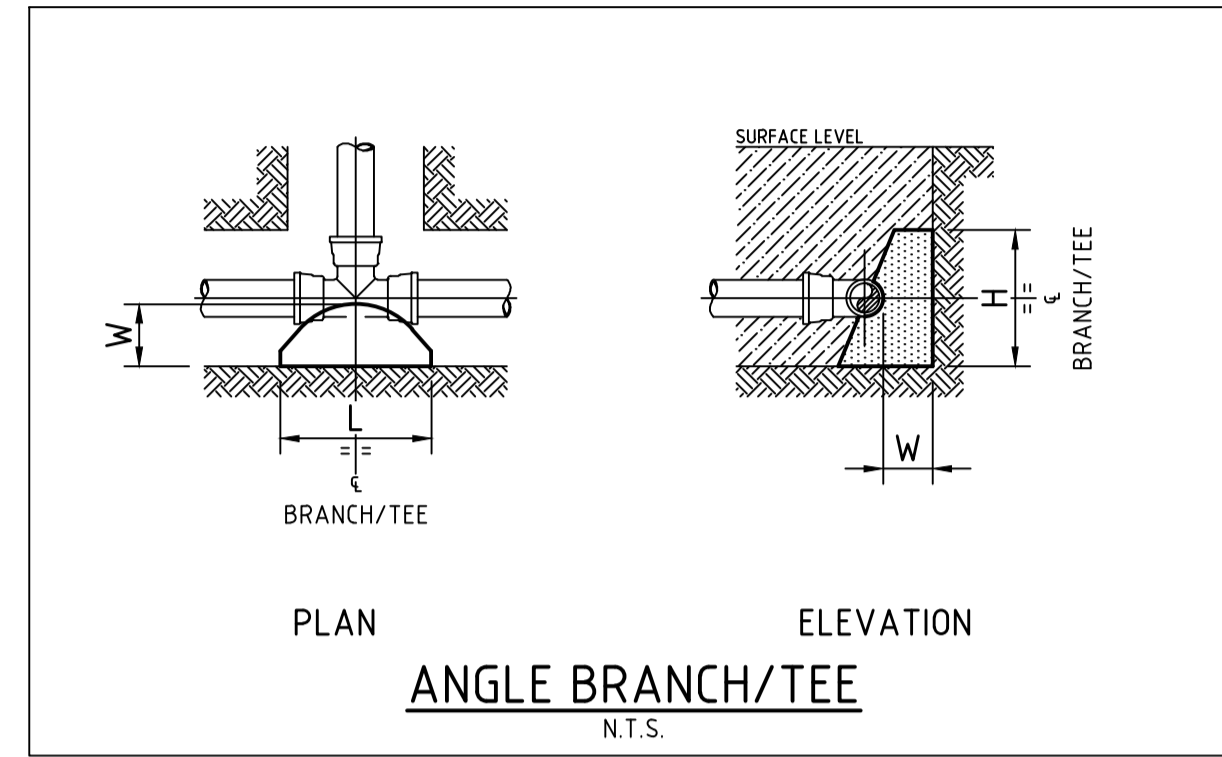
ORIGIN OF W.A.C. LEVELS

PM: 57533
 E: 355 423 957
 N: 6 340 377 094
 RL: 20.139m
 Co-Ord System: MGA Ground
 MGA Datum: GDA94
 MGA Zone: 56



WORK AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	10.05.2024	INITIAL ISSUE	G.S.	M.K.	M.K.	C.H.	<p>0 0.4 0.8 A1 / A3 1:20 / 1:40</p>	<p>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</p>	<p>JOHNSON PROPERTY GROUP</p>	<p>WATAGAN PARK PRECINCT NORTH E - STAGE 3 LOT 900, D.P.1301001 35 MCCULLOUGH STREET, COORANBONG DA/918/2023</p>	<p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>ADW Johnson</p>	<p>GDA94 M.G.A. ZONE 56 A.H.D.</p>	<p>239078(8)3</p>	<p>WAC</p>	<p>404</p>	<p>02</p>
B	18.10.2024	REVISED ISSUE	L.S.	M.K.	M.K.	C.H.											
C	25.11.2024	UPDATES TO PSS NETWORK HYDRAULICS	L.S.	M.K.	M.K.	C.H.											
O	19.03.2025	CONSTRUCTION ISSUE	D.N.	M.K.	M.K.	C.H.											
1	09.04.2025	CONSTRUCTION ISSUE AMENDED	I.B.	M.K.	M.K.	C.H.											
2	18.08.2025	WORK AS CONSTRUCTED	I.B.	M.K.	M.K.	C.H.											



TYPE	FITTING	Soil AHBP (kpa)	Design STP (kpa)	Thrust	TA (m2)	Length (L)	Height (H)	Width (w)
1	DN100 x DN100 EQUAL TEE	100	1500	18.00	0.18	0.45	0.40	0.30
2	DN100 SOCKETED STOP VALVE	100	1500	18.00	0.18	1.05	0.44	0.30
3	DN100 FLUSHING HYDRANT	100	1500	18.00	0.18	0.45	0.40	0.30
4	DN100 END CAP	100	1500	18.00	0.18	0.45	0.40	0.30
5	DN100 x 45° HORIZONTAL BEND	100	1500	7.50	0.08	N	N	0.30

THRUST BLOCK NOTES:

1. CONCRETE THRUST BLOCKS ARE TO BE PROVIDED FOR ALL FITTINGS IN ACCORDANCE WITH TABLE.
2. THRUST BLOCK DIMENSIONS ARE BASED ON THE MINIMUM ALLOWABLE HORIZONTAL BEARING PRESSURES OF THE SOIL AS SHOWN. IF GROUND CONDITIONS ENCOUNTERED INDICATE THAT THESE BEARING PRESSURES MAY NOT BE ACHIEVED, THRUST BLOCK DESIGN IS TO BE REVISED.
3. THRUST BLOCKS ARE TO BE CONSTRUCTED SUCH THAT THEY TRANSFER THE THRUST ONTO UNDISTURBED GROUND. THRUST BLOCKS ARE NOT TO INTERFERE WITH OTHER SERVICES.
4. FINISH THRUST BLOCKS APPROXIMATELY 100mm ABOVE THE TOP OF THE FITTING OR BEARING PAD AND EXTEND TO THE FLOOR OF THE TRENCH OR DEEPER IF NECESSARY TO ACHIEVE THE REQUIRED THRUST AREA (N). MAXIMUM ENCASEMENT TO BE 180°.
5. CONCRETE FOR THE THRUST BLOCKS TO BE GRADE S25 USING CEMENT TYPE "SR" TO AS3972. CONCRETE TO BE MECHANICALLY VIBRATED.
6. CONCRETE THRUST BLOCKS ARE TO BE CURED FOR A MINIMUM OF 7 DAYS BEFORE BEING SUBJECTED TO ANY THRUST LOAD.
7. REFER TO WAT-1205-V FOR GENERAL FITTING THRUST BLOCK ARRANGEMENTS.
8. REFER TO WAT-1207-V FOR GENERAL VALVE AND VERTICAL BEND THRUST BLOCK ARRANGEMENTS.

WORK AS CONSTRUCTED

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	BASS RANDALL	NAME	
SIGNED	<i>Bass Randall</i>	DATE	18/08/2025
	REGISTERED SURVEYOR	SIGNED	
		DATE/...../.....
			CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM	57533	Co-Ord System	MGA Ground
E	355 423.957		LOT 900, D.P.1301001
N	6 340 377.094		MGA Datum: GDA94
RL	20.139m		MGA Zone: 56



WORK AS CONSTRUCTED

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT</th> <th>DRAWN</th> <th>CHECK</th> <th>DESIGN</th> <th>VERIFY</th> <th>SCALES</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>10.05.2024</td> <td>INITIAL ISSUE</td> <td>G.S.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> <td></td> </tr> <tr> <td>B</td> <td>18.10.2024</td> <td>REVISED ISSUE</td> <td>L.S.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> <td></td> </tr> <tr> <td>C</td> <td>25.11.2024</td> <td>UPDATES TO PSS NETWORK HYDRAULICS</td> <td>L.S.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> <td></td> </tr> <tr> <td>0</td> <td>19.03.2025</td> <td>CONSTRUCTION ISSUE</td> <td>D.N.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> <td></td> </tr> <tr> <td>1</td> <td>09.04.2025</td> <td>CONSTRUCTION ISSUE AMENDED</td> <td>I.B.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> <td></td> </tr> <tr> <td>2</td> <td>18.08.2025</td> <td>WORK AS CONSTRUCTED</td> <td>I.B.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> <td></td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	10.05.2024	INITIAL ISSUE	G.S.	M.K.	M.K.	C.H.		B	18.10.2024	REVISED ISSUE	L.S.	M.K.	M.K.	C.H.		C	25.11.2024	UPDATES TO PSS NETWORK HYDRAULICS	L.S.	M.K.	M.K.	C.H.		0	19.03.2025	CONSTRUCTION ISSUE	D.N.	M.K.	M.K.	C.H.		1	09.04.2025	CONSTRUCTION ISSUE AMENDED	I.B.	M.K.	M.K.	C.H.		2	18.08.2025	WORK AS CONSTRUCTED	I.B.	M.K.	M.K.	C.H.		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">adw Johnson</td> <td> 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 </td> </tr> </table>	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 border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">JOHNSON PROPERTY GROUP</td> <td> CLIENT WATAGAN PARK PRECINCT NORTH E - STAGE 3 LOT 900, D.P.1301001 35 MCCULLOUGH STREET, COORANBONG DA/918/2023 </td> </tr> </table>	JOHNSON PROPERTY GROUP	CLIENT WATAGAN PARK PRECINCT NORTH E - STAGE 3 LOT 900, D.P.1301001 35 MCCULLOUGH STREET, COORANBONG DA/918/2023	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"> PROPERTY DESCRIPTION WATAGAN PARK PRECINCT NORTH E - STAGE 3 LOT 900, D.P.1301001 35 MCCULLOUGH STREET, COORANBONG DA/918/2023 </td> <td style="width: 50%;"> PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION </td> </tr> <tr> <td colspan="2" style="text-align: center;"> PLAN TITLE THRUST BLOCK DETAILS </td> </tr> <tr> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">SURVEYED</td> <td style="width: 33%;">DATUM</td> <td style="width: 33%;">PROJECT No.</td> </tr> <tr> <td>ADW Johnson</td> <td>GDA94 M.G.A. ZONE 56 A.H.D.</td> <td>239078(8)3</td> </tr> </table> </td> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">DISCIPLINE</td> <td style="width: 33%;">NUMBER</td> <td style="width: 33%;">REV.</td> </tr> <tr> <td>WAC</td> <td>405</td> <td>02</td> </tr> </table> </td> </tr> </table>	PROPERTY DESCRIPTION WATAGAN PARK PRECINCT NORTH E - STAGE 3 LOT 900, D.P.1301001 35 MCCULLOUGH STREET, COORANBONG DA/918/2023	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	PLAN TITLE THRUST BLOCK DETAILS		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">SURVEYED</td> <td style="width: 33%;">DATUM</td> <td style="width: 33%;">PROJECT No.</td> </tr> <tr> <td>ADW Johnson</td> <td>GDA94 M.G.A. ZONE 56 A.H.D.</td> <td>239078(8)3</td> </tr> </table>	SURVEYED	DATUM	PROJECT No.	ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	239078(8)3	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">DISCIPLINE</td> <td style="width: 33%;">NUMBER</td> <td style="width: 33%;">REV.</td> </tr> <tr> <td>WAC</td> <td>405</td> <td>02</td> </tr> </table>	DISCIPLINE	NUMBER	REV.	WAC	405	02
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239078(8)3-WAC-406

10mm 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.

Point Table				
Point #	Eastings	Northings	Levels	Codes
1	356328.51	6340784.97	26.28	waHYD
2	356292.08	6340791.76	25.26	waHYD
3	356278.95	6340711.81	24.87	waHYD
4	356314.56	6340705.53	25.51	waHYD
5	356388.34	6340692.38	26.84	waHYD
6	356350.43	6340699.57	26.10	waHYD
7	356397.82	6340773.28	26.80	waHYD
8	356364.19	6340778.96	26.47	waHYD
9	356329.08	6340784.85	26.28	waSV
10	356316.21	6340705.22	25.57	waSV
11	356349.41	6340699.80	26.08	waSV
12	356362.76	6340779.14	26.48	waSV
13	356328.72	6340761.94	26.57	waTAP
14	356327.57	6340754.39	26.48	waTAP
15	356326.34	6340747.05	26.44	waTAP
16	356324.91	6340739.74	26.35	waTAP
17	356323.60	6340732.23	26.27	waTAP
18	356322.30	6340724.96	26.25	waTAP
19	356320.87	6340717.59	26.12	waTAP
20	356311.79	6340691.90	25.56	waTAP
21	356299.75	6340694.20	25.29	waTAP
22	356287.43	6340696.32	25.06	waTAP
23	356329.73	6340766.99	26.63	waTAP
24	356347.39	6340685.97	26.19	waTAP
25	356369.36	6340681.90	26.50	waTAP
26	356381.66	6340679.74	26.56	waTAP
27	356347.74	6340711.25	26.33	waTAP
28	356349.08	6340719.00	26.30	waTAP
29	356350.54	6340727.09	26.36	waTAP
30	356351.90	6340734.97	26.41	waTAP
31	356353.10	6340742.40	26.46	waTAP
32	356354.47	6340749.69	26.63	waTAP
33	356355.73	6340757.08	26.65	waTAP
34	356356.56	6340761.57	26.72	waTAP
35	356291.77	6340792.25	25.28	waHYDR
36	356326.57	6340776.32	26.28	waHYDR
37	356279.04	6340712.28	24.88	waHYDR
38	356313.76	6340696.18	25.56	waHYDR
39	356348.02	6340690.10	26.07	waHYDR
40	356388.32	6340692.87	26.80	waHYDR
41	356361.78	6340769.52	26.45	waHYDR
42	356397.85	6340773.78	26.80	waHYDR
43	356327.15	6340776.19	26.27	waSVR
44	356314.65	6340696.00	25.57	waSVR
45	356346.08	6340690.62	25.96	waSVR
46	356360.52	6340769.89	26.47	waSVR
47	356328.67	6340761.57	26.52	waTAPR
48	356327.47	6340754.10	26.50	waTAPR
49	356326.28	6340746.74	26.45	waTAPR
50	356324.82	6340739.43	26.36	waTAPR
51	356323.55	6340731.94	26.34	waTAPR
52	356322.27	6340724.57	26.27	waTAPR
53	356320.85	6340717.20	26.18	waTAPR
54	356312.14	6340691.90	25.59	waTAPR
55	356300.04	6340694.09	25.25	waTAPR

Point Table				
Point #	Eastings	Northings	Levels	Codes
56	356287.76	6340696.21	25.05	waTAPR
57	356329.71	6340766.69	26.66	waTAPR
58	356347.72	6340685.85	26.22	waTAPR
59	356369.71	6340681.81	26.47	waTAPR
60	356382.01	6340679.67	26.53	waTAPR
61	356347.71	6340710.86	26.34	waTAPR
62	356349.04	6340718.74	26.30	waTAPR
63	356350.50	6340726.77	26.40	waTAPR
64	356351.86	6340734.65	26.43	waTAPR
65	356353.06	6340742.11	26.46	waTAPR
66	356354.35	6340749.34	26.58	waTAPR
67	356355.72	6340756.74	26.70	waTAPR
68	356356.50	6340761.26	26.72	waTAPR
69	356328.27	6340766.80	26.71	seBDYKIT
70	356327.73	6340760.63	26.66	seBDYKIT
71	356326.38	6340753.24	26.56	seBDYKIT
72	356325.17	6340745.80	26.54	seBDYKIT
73	356323.74	6340738.48	26.50	seBDYKIT
74	356322.51	6340731.20	26.33	seBDYKIT
75	356321.21	6340723.78	26.28	seBDYKIT
76	356319.78	6340716.36	26.27	seBDYKIT
77	356286.24	6340695.53	25.20	seBDYKIT
78	356298.65	6340693.39	25.50	seBDYKIT
79	356312.03	6340690.55	25.78	seBDYKIT
80	356347.12	6340684.31	26.33	seBDYKIT
81	356368.27	6340681.07	26.68	seBDYKIT
82	356380.65	6340678.69	26.73	seBDYKIT
83	356348.25	6340709.87	26.54	seBDYKIT
84	356349.58	6340717.83	26.55	seBDYKIT
85	356351.04	6340725.62	26.60	seBDYKIT
86	356352.40	6340733.43	26.65	seBDYKIT
87	356353.71	6340740.75	26.57	seBDYKIT
88	356354.94	6340748.21	26.54	seBDYKIT
89	356356.15	6340755.68	26.71	seBDYKIT
90	356358.01	6340761.68	26.82	seBDYKIT
91	356383.46	6340683.50	26.50	seFP
92	356348.27	6340689.36	26.08	seFP
93	356342.09	6340690.33	25.89	seFP
94	356316.36	6340694.63	25.69	seFP
95	356311.83	6340695.76	25.50	seFP
96	356277.20	6340701.93	24.94	seFP
97	356326.82	6340775.22	26.28	seFP
98	356323.57	6340776.14	26.19	seFP
99	356291.82	6340782.07	25.32	seFP
100	356364.62	6340769.13	26.40	seFP
101	356396.70	6340763.81	26.85	seFP
102	356325.24	6340775.74	26.24	seSV
103	356362.57	6340769.14	26.48	seSV
104	356314.26	6340694.91	25.58	seSV
105	356346.98	6340689.52	26.05	seSV
106	356328.81	6340767.14	26.83	seTANK314
107	356327.85	6340761.31	26.75	seTANK313
108	356326.51	6340753.88	26.66	seTANK312
109	356325.32	6340746.43	26.61	seTANK311
110	356323.95	6340739.12	26.57	seTANK310

Point Table				
Point #	Eastings	Northings	Levels	Codes
111	356322.66	6340731.84	26.41	seTANK309
112	356321.35	6340724.41	26.38	seTANK308
113	356319.93	6340717.00	26.34	seTANK307
114	356312.50	6340690.94	25.86	seTANK303
115	356299.30	6340693.26	25.59	seTANK302
116	356286.88	6340695.39	25.32	seTANK301
117	356346.76	6340684.85	26.41	seTANK304
118	356368.90	6340680.93	26.75	seTANK305
119	356381.27	6340678.75	26.84	seTANK306
120	356348.30	6340710.52	26.64	seTANK322
121	356349.71	6340718.47	26.66	seTANK321
122	356351.10	6340726.21	26.71	seTANK320
123	356352.49	6340734.10	26.75	seTANK319
124	356353.79	6340741.44	26.71	seTANK318
125	356355.04	6340748.91	26.73	seTANK317
126	356356.25	6340756.34	26.83	seTANK316
127	356357.63	6340762.23	26.92	seTANK315

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 15/08/2025 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	BASS RANDALL	NAME	
SIGNED	<i>Bass Randall</i>	SIGNED	
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER
DATE	18/08/2025	DATE/...../.....

ORIGIN OF W.A.C. LEVELS

PM	57533	Co-Ord System	MGA	GDA94
E	355 423.957	MGA Datum	GDA94	
N	6 340 377.094	MGA Zone	56	
RL	20.139m			



WORK AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	10.05.2024	INITIAL ISSUE	G.S.	M.K.	M.K.	C.H.		<p>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</p>	<p>WATAGAN PARK PRECINCT NORTH E - STAGE 3 LOT 900, D.P.1301001 35 MCCULLOUGH STREET, COORANBONG DA/918/2023</p>	<p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>FITTINGS TABLE</p>	<p>239078(8)3</p>	<p>WAC</p>	<p>406</p>	<p>02</p>
B	18.10.2024	REVISED ISSUE	L.S.	M.K.	M.K.	C.H.									
C	25.11.2024	UPDATES TO PSS NETWORK HYDRAULICS	L.S.	M.K.	M.K.	C.H.									
0	19.03.2025	CONSTRUCTION ISSUE	D.N.	M.K.	M.K.	C.H.									
1	09.04.2025	CONSTRUCTION ISSUE AMENDED	I.B.	M.K.	M.K.	C.H.									
2	18.08.2025	WORK AS CONSTRUCTED	I.B.	M.K.	M.K.	C.H.									