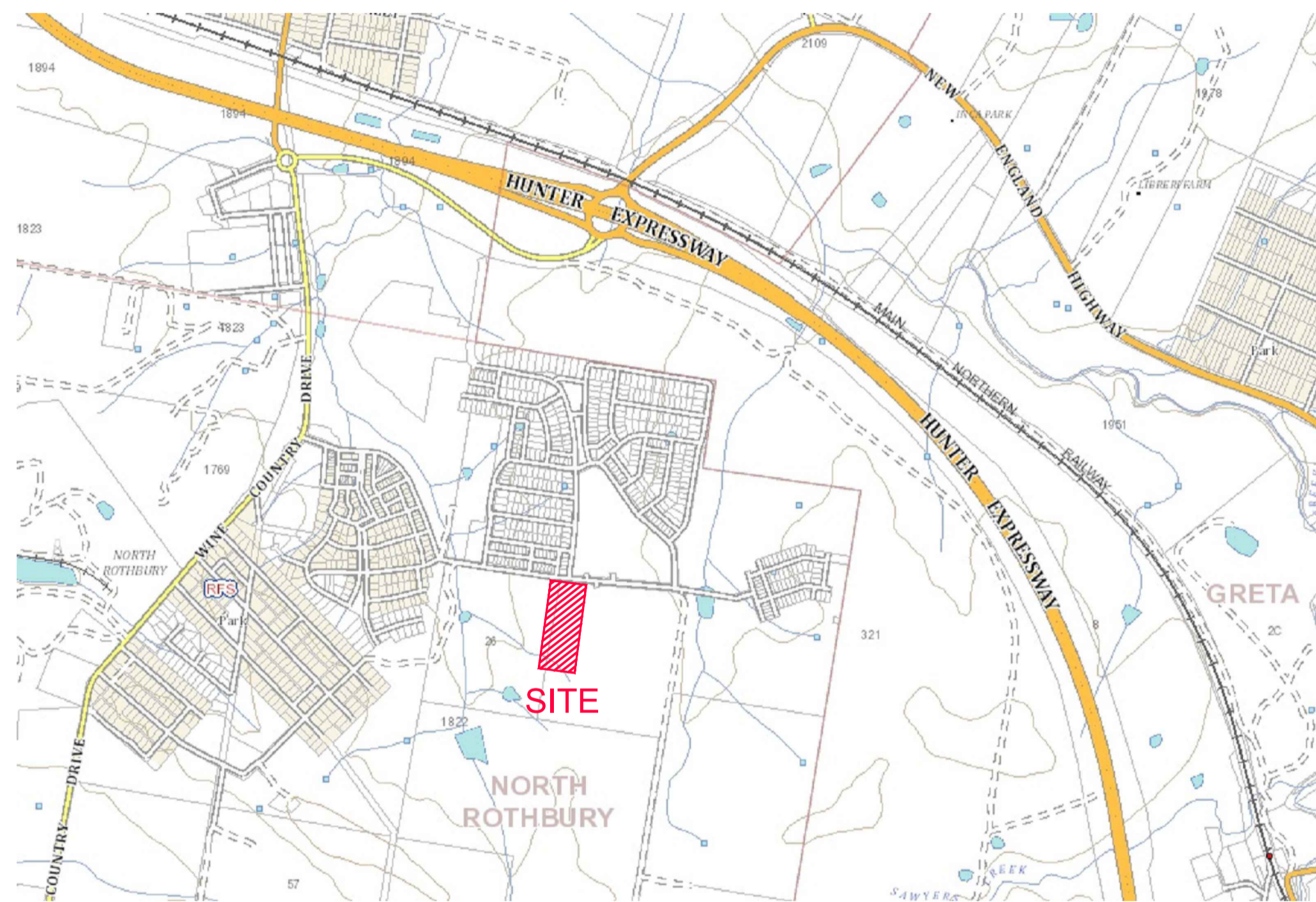
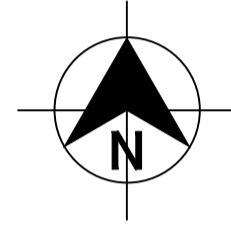




# PROPOSED SUBDIVISION STAGE 43 HUNTLEE

240037(43)-WAC-003



LOCALITY SKETCH  
NOT TO SCALE

DRAWING INDEX	
DRAWING NUMBER	DRAWING TITLE
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240037(43)-WAC-002	GENERAL NOTES
240037(43)-WAC-003	OVERALL SITE PLAN
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240037(43)-WAC-102	POTABLE WATER DETAIL PLAN - SHEET 2
240037(43)-WAC-103	POTABLE WATER DETAIL PLAN - SHEET 3
240037(43)-WAC-104	POTABLE WATER DETAIL PLAN - SHEET 4
240037(43)-WAC-105	POTABLE WATER DETAIL PLAN - SHEET 5
240037(43)-WAC-201	RECYCLED WATER DETAIL PLAN - SHEET 1
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240037(43)-WAC-403	TYPICAL PROPERTY CONNECTION DETAILS
240037(43)-WAC-404	WASTE WATER COLLECTION TANK LEVEL DETAILS
240037(43)-WAC-405	THRUST BLOCK DETAILS
240037(43)-WAC-406	FITTINGS DETAILS
240037(43)-WAC-407	FITTINGS DETAILS

**WORK AS CONSTRUCTED**  
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 16/02/2024 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 EWEN B. RANDALL      NAME  
 SIGNED *E. Randall* DATE      SIGNED      DATE

REGISTERED SURVEYOR      CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM 20029      Co-Ord System: MGA Ground  
 E: 345612.942      MGA Datum: GDA94  
 N: 6382878.917      MGA Zone: 56  
 RL: 77.675m

APPROVED FOR CONSTRUCTION  
 BY ADW Johnson Pty Ltd  
 Date Approved: 23/05/2023

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.	
E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.	
0	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	
1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	
2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	
3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.	
4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.	

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 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
 STAGE 43  
 HUNTLEE

SURVEYED  
 Daly Smith Pty Ltd

DATUM  
 GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE  
 COVER SHEET, LOCALITY PLAN & DRAWING INDEX

PROJECT No. 240037(43) - DISCIPLINE WAC - NUMBER 001 - REV. 4

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:**

- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA, PRESSURE SEWERAGE CODE OF AUSTRALIA - WSA 07-2007 VERSION 1.1 AND POLYETHYLENE PIPELINE CODE WSA 01-2004.
- ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW AND SHALL COMPLY WITH ALTOGETHER 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.
- 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. THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL 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.
- PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007 AND ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA.
- ALL POLYETHYLENE MAINS ≤ DN200 SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ALL POLYETHYLENE MAINS ≥ DN200 SHALL BE JOINED USING BUTTWELD JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- 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 AND WATER MAINS. MINIMUM PIPE COVER SHALL BE 800mm IN FOOTWAYS AND 1000mm IN ROADWAYS. MAXIMUM PIPE COVER SHALL GENERALLY BE 1500mm, WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL PRESSURE SEWER AND RECYCLED WATER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
- 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.
- MAINS WITHIN 2.0m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE ALTOGETHER REPRESENTATIVE).
- ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSAA PRODUCT SPECIFICATION WSA-PS350 AND WSA-PS351.
- ALL BENDS SHALL BE **ELECTROFUSION OR BUTT WELD SWEEP BENDS**. FABRICATED BENDS SHALL NOT BE USED IN LIEU. KNUCKLE ELBOWS ARE NOT PERMITTED.
- MINIMUM** BENDING RADIUS FOR PN16 PE100 (SDR11) SHALL BE 20 x DN. (i.e. DN400 : R8.0m, DN250 : R5.0m, DN200 : R4.0m, DN160 : R3.2m, DN125 : R2.5m, DN90 : R1.8m, DN75 : R1.5m, DN63 : R1.3m, DN50 : R1.0m, DN40 : R0.8m).
- ALL HOUSE SERVICE LATERALS SHALL BE DN40 (PE100 PN16).
- FLUSHING PITS SHALL CONFORM WITH ALTOGETHER STANDARD DRAWINGS. REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION. SMALL MAINS (< DN110) [http://information.altogethergroup.com.au/governance/Land\\_Housing/PSS-1017A-FS.pdf](http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017A-FS.pdf) LARGE MAINS (> DN110) [http://information.altogethergroup.com.au/governance/Land\\_Housing/PSS-1017B-FS.pdf](http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017B-FS.pdf)
- 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 (i.e. MAIN SHALL GRADE DOWNWARDS EITHER SIDE OF THE AIR VALVE).
- DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
- ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
- 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.
- ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 07-2007 VERSION 1.1.
- FOR LOTS WITH TANKS IN THE REAR.** 1 x ø25mm INSTRUMENTATION CONDUIT (ORANGE) AND 1 x ø25mm 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 ALTOGETHER STANDARD DRAWINGS FOR SETOUT DIMENSIONS).
- THE CONSTRUCTOR SHALL PROVIDE ALTOGETHER 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 AND CONFIRMATION IS PROVIDED BY THE ALTOGETHER REPRESENTATIVE.
- UPON COMPLETION OF WORKS , ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
- PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
- BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
- THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE PRESSURE SEWER CODE OF AUSTRALIA (CLAUSE 213.4) ARE:  
TRAFFICABLE  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING.  
NON-TRAFFICABLE  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900mm OF FILL AND EACH 100 LINEAL METRES OF PIPE.
- BOUNDARY KITS (COMPLETE) SHALL BE NOV SUPPLIED (NOV PSS-BK4). e one COLLECTION TANK (ESD 20-0032/ESD 20-0033) SHALL BE INSTALLED WITH BOUNDARY KIT (REFER ALTOGETHER STANDARD DRAWINGS PSS-1112-FS AND PSS-1113-FS), PUMP TO BE INSTALLED BY OTHERS.
- ALL MAINS (UP TO THE BOUNDARY KIT) SHALL BE PRESSURE TESTED TO 1600 kPa. ALL LINES FROM THE WASTEWATER COLLECTION TANK TO THE MANUAL ISOLATION VALVE WITHIN THE BOUNDARY KIT TO BE PRESSURE TESTED TO 1000kPa.
- ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
- ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.
- PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
- WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.
- 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:**

- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA AND WSA 03-2011-3.1 (SYDNEY WATER EDITION 2014).
- POTABLE WATER SHALL BE UTILISED FOR FIRE FIGHTING PURPOSES.
- 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.
- 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. THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL 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.
- THE CONSTRUCTOR SHALL VERIFY WITH THE SITE SUPERVISOR THE POSITION AND LEVEL OF ALL EXISTING AND PROPOSED BOUNDARIES PERTINENT TO THE INFRASTRUCTURE INSTALLATIONS.
- 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 AND WATER MAINS. MINIMUM PIPE COVER SHALL BE 600mm IN FOOTWAYS (TYPE B EMBEDMENT: WAT-1202-V) AND 800mm IN ROADWAYS (TYPE L EMBEDMENT: WAT-1204-V). MAXIMUM PIPE COVER SHALL GENERALLY BE 1500mm, WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL RECYCLED WATER MAINS AND PRESSURE SEWER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
- ALL POTABLE WATER MAINS TO BE BLUE PVC-M (PN16). ALL RECYCLED WATER MAINS SHALL BE LILAC PVC-M (PN16). DIFFERENTIATION OF POTABLE AND RECYCLED WATER SYSTEMS SHALL BE AS PER TABLE 4.1 WSA03-2011 WITH BOTH SERVICES BEING CLASSIFIED AS WATER MAINS. RECYCLED WATER MAINS SHALL ALWAYS BE LOWER THAN POTABLE WATER MAINS. 150mm VERTICAL CLEARANCE BETWEEN POTABLE WATER AND RECYCLED WATER MAINS SHALL BE PROVIDED.
- MAXIMUM JOINT DEFLECTIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- LOCALLY LOWER PIPEWORK IN VICINITY OF STOP VALVES TO ENSURE SUFFICIENT COVER IS MAINTAINED OVER VALVES. LOWERING OF PIPEWORK SHALL BE ACHIEVED OVER A NUMBER OF PIPE LENGTHS EITHER SIDE OF VALVES TO ELIMINATE ANY SHARP DEFLECTIONS.
- ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSAA PRODUCT SPECIFICATION PS-350, 368 AND 369. GEOTECHNICAL CONDITIONS SHOULD BE ASSESSED DURING CONSTRUCTION BY THE CONTRACTOR IN ASSOCIATION WITH THE ALTOGETHER REPRESENTATIVE TO DETERMINE THE NEED TO MODIFY EMBEDMENT/TRENCH FILL TYPE AND THE NEED FOR TRENCH DRAINAGE/BULKHEADS.
- DURING CONSTRUCTION, ALL OPEN ENDS OF PIPES SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
- HYDRANTS , STOP VALVES AND ALL OTHER FITTINGS TO BE THE SAME SIZE AS THE THROUGH WATER MAIN AND ANTI CLOCKWISE CLOSING.
- HYDRANTS MUST NOT BE INSTALLED IN POTENTIAL DRIVEWAY LOCATIONS. HYDRANTS AND WATER SERVICES SHALL BE NOMINALLY AT LEAST 5.0m FROM EACH BOUNDARY OR ON BOUNDARIES. WHERE POSSIBLE, FITTINGS SHALL BE LOCATED BEHIND KERB INLET PITS.
- THRUST BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH WAT-1205.
- ALL PROPERTY (MAIN TO METER) SERVICE CONNECTIONS SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH ALTOGETHER REQUIREMENTS. REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION. SINGLE SERVICE: [http://information.altogethergroup.com.au/governance/Land\\_Housing/WAT-1854-FS.pdf](http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1854-FS.pdf) DUAL SERVICE: [http://information.altogethergroup.com.au/governance/Land\\_Housing/WAT-1855-FS.pdf](http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1855-FS.pdf)
- PROPERTY SERVICE CONNECTION IS SHALL BE FLUSHED AND LOCKED (BY THE ALTOGETHER REPRESENTATIVE) FOLLOWING SUCCESSFUL PRESSURE TESTING.
- SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- ALL MAINS SHALL BE PRESSURE TESTED TO 1500kPa IN ACCORDANCE WITH CLAUSE 19.4 OF WSA03-2011 (SYDNEY WATER EDITION 2014).
- ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- WATER QUALITY TESTING SHALL BE IN ACCORDANCE WITH WSA 03-2011-3.1(SYDNEY WATER EDITION-2014, CLAUSE 19.7).
- THE CONSTRUCTOR 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 AND CONFIRMATION IS PROVIDED BY THE ALTOGETHER REPRESENTATIVE.
- UPON COMPLETION OF WORKS , ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
- PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
- BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
- MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY WSA03-2011 (SYDNEY WATER EDITION 2014) (CLAUSE 19.3.5) :  
TRAFFICABLE  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING.  
NON-TRAFFICABLE  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900MM OF FILL AND EACH 100 LINEAL METERS OF PIPE.  
PROPERTY SERVICES  
TEST 1 OF EVERY 5 PROPERTY SERVICE TRENCHES.  
TESTING SHALL BE IN ACCORDANCE WITH TABLE 16.1 AND 17.1 OF THE WATER SUPPLY CODE OF AUSTRALIA.
- SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
- PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
- WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.
- WHERE THE PIPE GRADE EXCEEDS 5% , TRENCHSTOPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WAT-1209 AND WAT-1210 AT THE SPACING OF 100/GRADE%. WHERE PIPE GRADES EXCEED 15%, CONCRETE BULKHEADS WILL BE CONSTRUCTED AT SPACING AS PER TABLE 7.5 OF WSA03-2001 SYDNEY WATER EDITION 2014.

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:**

- THIS DRAWING SET SHALL BE READ IN CONJUNCTION WITH CESSNOCK CITY COUNCIL STANDARDS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA AND OTHER ASSOCIATED DRAWINGS AND TECHNICAL SPECIFICATIONS.
- 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. ANY SERVICE LOCATIONS SHOWN IN THIS DRAWING SET ARE INDICATIVE ONLY.
- MAKE SMOOTH TRANSITION TO EXISTING WORKS (i.e. ROAD PAVEMENT AND FOOTPATHS) TO P.C.A. AND SUPERINTENDENT'S REQUIREMENTS.
- 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**

UTILITY (EXISTING OR PROPOSED SERVICE)	MINIMUM HORIZONTAL CLEARANCE (mm)		MINIMUM VERTICAL CLEARANCE (mm)
	NEW MAIN SIZE		
	≤ DN200	≥ DN200	
WATER MAINS > DN375	600	600	300
WATER MAINS < DN375	300*	600	150
GAS MAINS	300*	600	150
TELECOMMUNICATION CONDUITS AND CABLES	300*	600	150
ELECTRICITY CONDUITS AND CONDUITS	200	1000	225*
STORMWATER DRAINS	300*	600	150*
SEWERS (GRAVITY)	1000* / 600	1000* / 600	500*
SEWERS (PRESSURE AND VACUUM)	600	600	300*
KERBS	150	600*	150 (WHERE POSSIBLE)

**NOTES:**

- 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 MINIMISE THE POSSIBILITY OF BACKFLOW CONTAMINATION IN THE EVENT OF A PRESSURE MAIN BREAK.
- WATER MAINS INCLUDES MAINS SUPPLYING BOTH POTABLE AND RECYCLED WATER.
- FOR AREAS WITH EXISTING WATER RETICULATION, CLEARANCES CAN BE FURTHER REDUCED TO 600mm WITH THE APPROVAL OF THE WATER AUTHORITY.
- CLEARANCES CAN BE FURTHER REDUCED TO 150mm FOR DISTANCES UP TO 2.0m WHEN PASSING INSTALLATIONS SUCH AS POLES, PITS, AND SMALL STRUCTURES, PROVIDING THE STRUCTURE IS NOT DE-STABILISED IN THE PROCESS.
- CLEARANCES FROM KERBS SHALL BE MEASURED FROM THE NEAREST POINT OF THE KERB. FOR WATER/SEWER - DN 375, CLEARANCES FROM KERBS CAN BE PROGRESSIVELY REDUCED UNTIL THE MINIMUM OF 150mm IS REACHED FOR WATER/SEWER - DN200.
- WHERE A PARALLEL SEWER IS AT MINIMUM VERTICAL CLEARANCE LOWER THAN THE WATER MAIN (500mm), MAINTAIN A MINIMUM HORIZONTAL OF 1000mm. THIS MINIMUM CLEARANCE CAN BE PROGRESSIVELY REDUCED TO 600mm AS THE VERTICAL CLEARANCE IS INCREASED TO 750mm.
- 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.
- 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.
- 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**

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 16/02/2024 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	EWEN B. RANDALL	NAME	
SIGNED	<i>[Signature]</i> DATE	SIGNED	DATE
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM	20029	Co-Ord System:	MGA Ground
E	345612.942	MGA Datum:	GDA94
N	6382878.917	MGA Zone:	56
RL	77.675m		

**APPROVED FOR CONSTRUCTION**  
BY ADW Johnson Pty Ltd  
Date Approved: 23/05/2023

**WORK AS CONSTRUCTED**

240037(43)-WAC-003

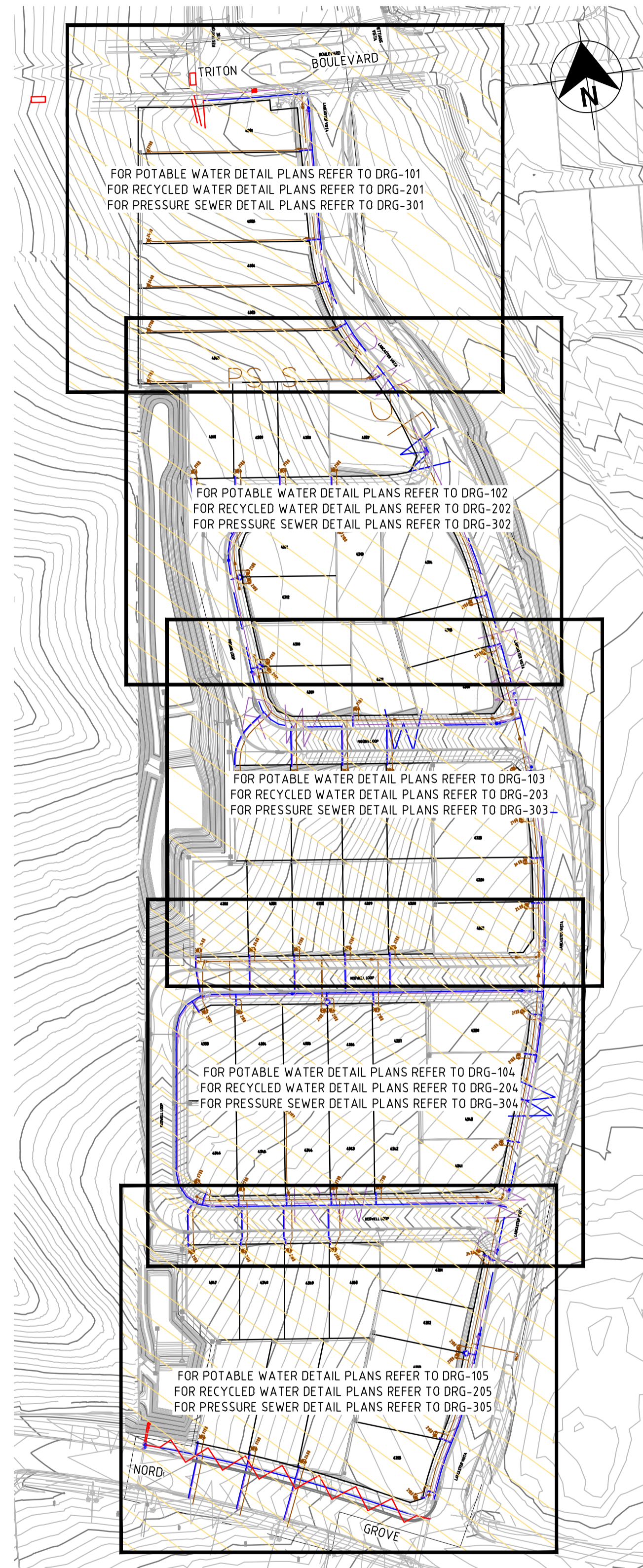
100mm AT FULL SIZE  
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.		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	PROPOSED SUBDIVISION STAGE 43 HUNTLEE	PLAN TITLE	GENERAL NOTES
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.					
E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.					
O	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.					
1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.					
2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.					
3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.					
4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.					

DESIGN FILE: N:\240037\DWG\Water & Sewer\Stage 43 Water and Sewer\240037(43)-huntlee-water.dwg  
ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE  
Plotted By: glenns Plot Date: 22/02/24 - 16:28 Cad File: N:\240072\DWG\Water & Sewer\Stage 43-WAC\240037(43)-WAC-003.dwg

240037(43)-WAC-003

100mm AT FULL SIZE  
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PLAN  
SCALE 1:1000

**WORK AS CONSTRUCTED**  
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COMPANY ADW Johnson Pty Ltd COMPANY  
NAME EWEN B. RANDALL NAME  
SIGNED *E. B. Randall* DATE DATE  
REGISTERED SURVEYOR CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
PM 20029 Co-Ord System: MGA Ground  
E: 345612.942 MGA Datum: GDA94  
N: 6382878.917 MGA Zone: 56  
RL: 77.675m

APPROVED FOR CONSTRUCTION  
BY ADW Johnson Pty Ltd  
Date Approved: 23/05/2023

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.	
E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.	
0	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	
1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	
2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	
3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.	
4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.	

**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

CLIENT  
**altogether.**

PROPERTY DESCRIPTION  
PROPOSED SUBDIVISION  
STAGE 43  
HUNTLEE

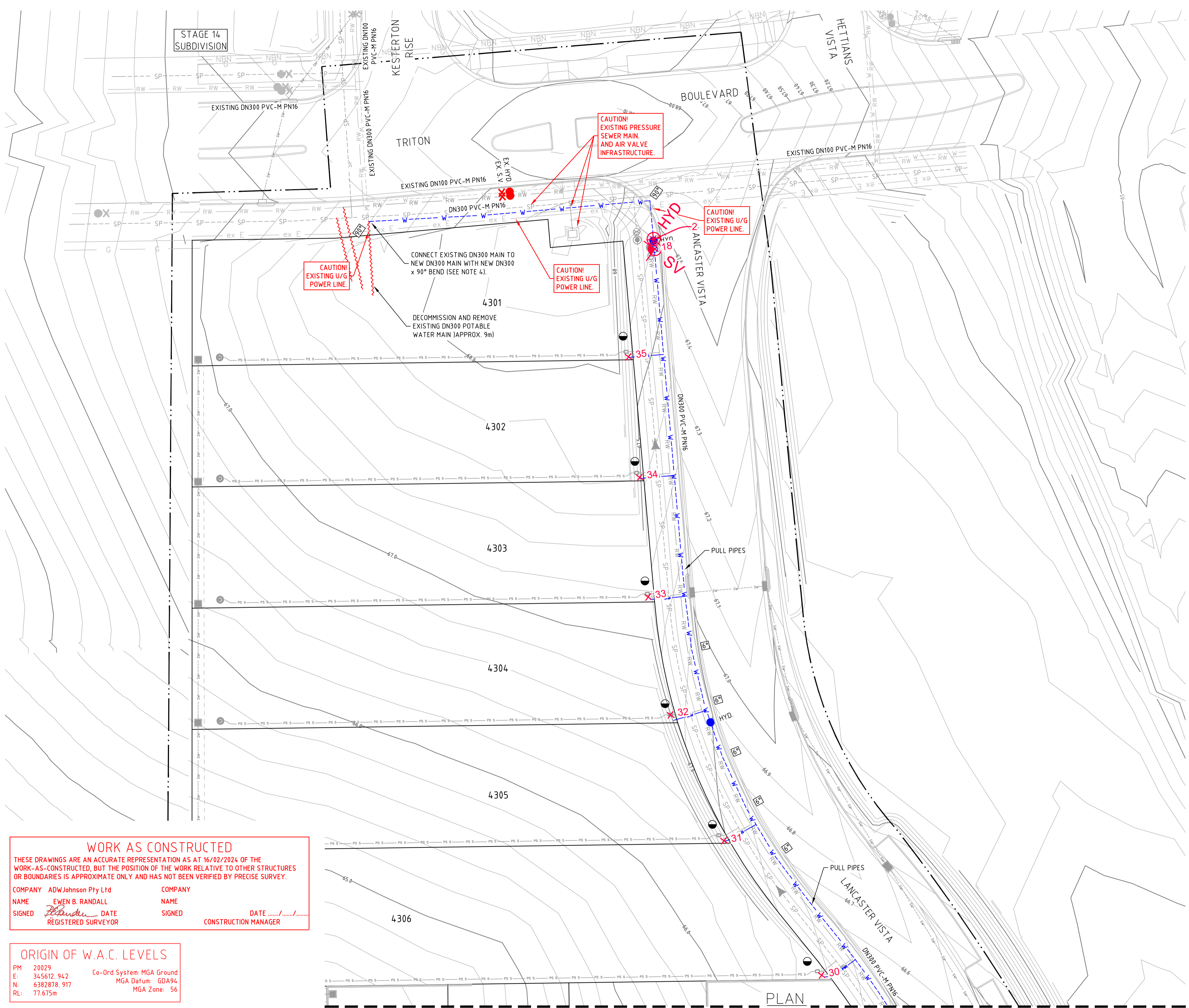
SURVEYED  
Daly, Smith Pty Ltd

DATUM  
GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	OVERALL SITE PLAN		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(43)	WAC	003	4

240037(43)-WAC-105

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 --- W --- W --- PVC-M POTABLE WATER RETICULATION
- PWS --- PWS --- PWS --- PE POTABLE WATER PROPERTY SERVICE
- RW --- RW --- RW --- PVC-M RECYCLED WATER RETICULATION
- RWS --- RWS --- RWS --- PE RECYCLED WATER PROPERTY SERVICE
- SP --- SP --- SP --- PE PRESSURE SEWER RETICULATION
- PS S --- PS S --- PS S --- PE PRESSURE SEWER PROPERTY SERVICE
- SW --- SW --- SW --- STORMWATER PIPEWORK
- NBN --- NBN --- NBN --- EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
- G --- G --- G --- EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
- ex E --- ex E --- EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)

- S.V. [Symbol] STOP VALVE
- S.V. N.C. [Symbol] STOP VALVE NORMALLY CLOSED
- HYD. [Symbol] HYDRANT
- FL. HYD. [Symbol] FLUSHING HYDRANT
- [Symbol] PROPERTY SERVICE CONNECTION
- [Symbol] LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- [Symbol] HORIZONTAL BEND ANGLE IN MAIN (112.5° 22.5° 65° 90°)
- --- LIMIT OF SUBDIVISION WORKS

**POTABLE WATER PROPERTY SERVICE CONNECTIONS**

- TOTAL 58 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - 30 x SHORT SIDE
  - 20 x LONG SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
  - 4 x SHORT SIDE
  - 0 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN300	PVC-M PN16	527
DN100	PVC-M PN16	520
DN20 (LATERAL)	PE PN16	462

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 205.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 305.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAILING:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
    - FLUSHING PLAN
  - SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**WORK AS CONSTRUCTED**  
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 16/02/2024 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	EWEN B. RANDALL	NAME	
SIGNED	<i>[Signature]</i> DATE	SIGNED	DATE
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM	20029	Co-Ord System:	MGA Ground
E	345612.942	MGA Datum:	GDA94
N	6382878.917	MGA Zone:	56
RL	77.675m		

APPROVED FOR CONSTRUCTION  
 BY ADW Johnson Pty Ltd  
 Date Approved: 23/05/2023

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	0 / 5 / 10 / A1 / A3	Hunter Office		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		240037(43)	WAC	101	4
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.	1:250 / 1:500	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	PROPOSED SUBDIVISION STAGE 43 HUNTLEE						
E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.		<b>altogether.</b>							
0	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.									
1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.									
2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.									
3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.									
4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.									

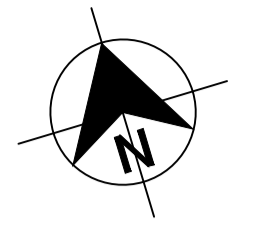


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COMPANY ADW Johnson Pty Ltd  
 NAME EWEN B. RANDALL  
 SIGNED [Signature] DATE [Blank] REGISTERED SURVEYOR

COMPANY [Blank]  
 NAME [Blank]  
 SIGNED [Blank] DATE [Blank] CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
 PM 20029 Co-Ord System: MGA Ground  
 E: 345612.942 MGA Datum: GDA94  
 N: 6382878.917 MGA Zone: 56  
 RL: 77.675m



- LEGEND**
- W --- W --- PVC-M POTABLE WATER RETICULATION
  - PWS --- PWS --- PE POTABLE WATER PROPERTY SERVICE
  - RW --- RW --- RW --- PVC-M RECYCLED WATER RETICULATION
  - RWS --- RWS --- RWS --- PE RECYCLED WATER PROPERTY SERVICE
  - SP --- SP --- SP --- PE PRESSURE SEWER RETICULATION
  - PS S --- PS S --- PE PRESSURE SEWER PROPERTY SERVICE
  - SW --- SW --- SW --- STORMWATER PIPEWORK
  - NBN --- NBN --- EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
  - G --- G --- EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
  - ex E --- ex E --- EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)

- S.V. [Symbol] STOP VALVE
- S.V. N.C. [Symbol] STOP VALVE NORMALLY CLOSED
- HYD. [Symbol] HYDRANT
- FL. HYD. [Symbol] FLUSHING HYDRANT
- [Symbol] PROPERTY SERVICE CONNECTION
- [Symbol] LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- [Symbol] HORIZONTAL BEND ANGLE IN MAIN (112.5°, 22.5°, 65°, 90°)
- [Symbol] LIMIT OF SUBDIVISION WORKS

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 58 CONNECTIONS
  - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 30 x SHORT SIDE
    - 20 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 4 x SHORT SIDE
    - 0 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN300	PVC-M PN16	527
DN100	PVC-M PN16	520
DN20 (LATERAL)	PE PN16	462

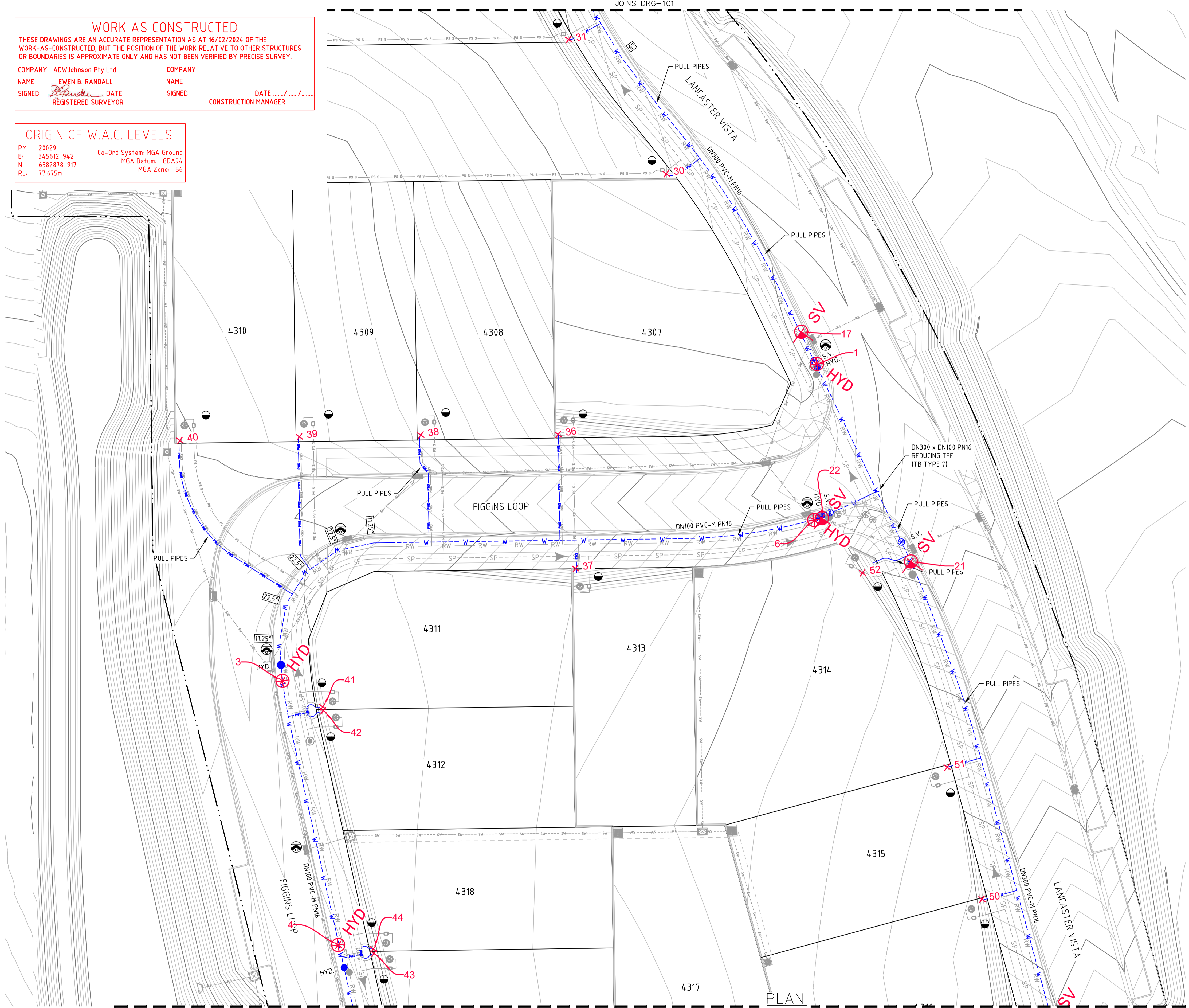
- NOTES:**
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 205.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 305.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  4. CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAILING:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
    - FLUSHING PLAN
  5. SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

APPROVED FOR CONSTRUCTION  
 BY ADW Johnson Pty Ltd  
 Date Approved: 23/05/2023

**WORK AS CONSTRUCTED**

240037(43)-WAC-105

100mm AT FULL SIZE  
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REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.	
E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.	
0	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	
1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	
2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	
3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.	
4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.	

DESIGN FILE: N:\240037\DWG\Water & Sewer\Stage 43 Water and Sewer\240037(43)-huntlee-water.dwg  
 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@adwjohnson.com.au  
 www.adwjohnson.com.au  
 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
 STAGE 43  
 HUNTLEE

SURVEYED  
 Daly Smith Pty Ltd

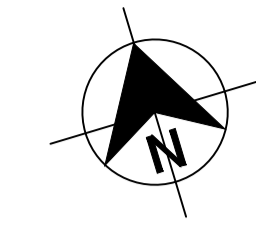
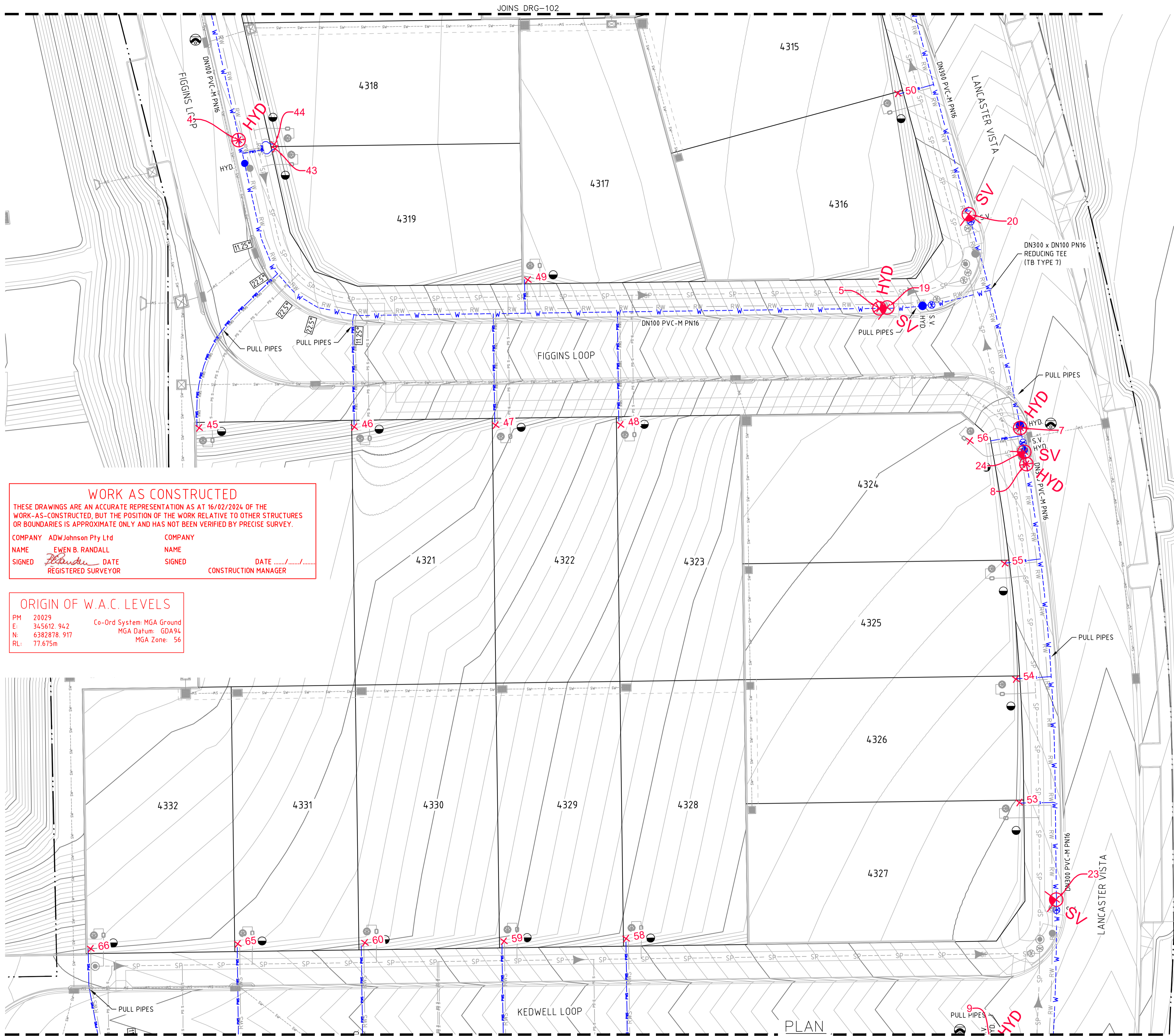
DATUM  
 GDA94 M.G.A. ZONE 56

A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 2		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(43)	WAC	102	4

240037(43)-WAC-105

100mm AT FULL SIZE  
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**LEGEND**

W	PVC-M POTABLE WATER RETICULATION
PWS	PE POTABLE WATER PROPERTY SERVICE
RW	PVC-M RECYCLED WATER RETICULATION
RWS	PE RECYCLED WATER PROPERTY SERVICE
SP	PE PRESSURE SEWER RETICULATION
PS	PE PRESSURE SEWER PROPERTY SERVICE
SW	STORMWATER PIPEWORK
NBN	EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
G	EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
ex E	EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)

S.V.	STOP VALVE
S.V.N.C.	STOP VALVE NORMALLY CLOSED
HYD.	HYDRANT
FL HYD.	FLUSHING HYDRANT
●	PROPERTY SERVICE CONNECTION
○	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
112.5° 22.5° 65° 90°	HORIZONTAL BEND ANGLE IN MAIN
- - -	LIMIT OF SUBDIVISION WORKS

**WORK AS CONSTRUCTED**  
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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	EWEN B. RANDALL	NAME	
SIGNED	<i>E. Randall</i>	DATE	...../...../.....
	REGISTERED SURVEYOR	SIGNED	...../...../.....
		DATE	...../...../.....
		CONSTRUCTION MANAGER	

**ORIGIN OF W.A.C. LEVELS**

PM	20029	Co-Ord System	MGA Ground
E	345612.942	MGA Datum	GDA94
N	6382878.917	MGA Zone	56
RL	77.675m		

**POTABLE WATER PROPERTY SERVICE CONNECTIONS**

TOTAL 58 CONNECTIONS

- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - 30 x SHORT SIDE
  - 20 x LONG SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
  - 4 x SHORT SIDE
  - 0 x LONG SIDE

**POTABLE WATER PIPE DATA**

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN300	PVC-M PN16	527
DN100	PVC-M PN16	520
DN20 (LATERAL)	PE PN16	462

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 205.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 305.
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  - SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

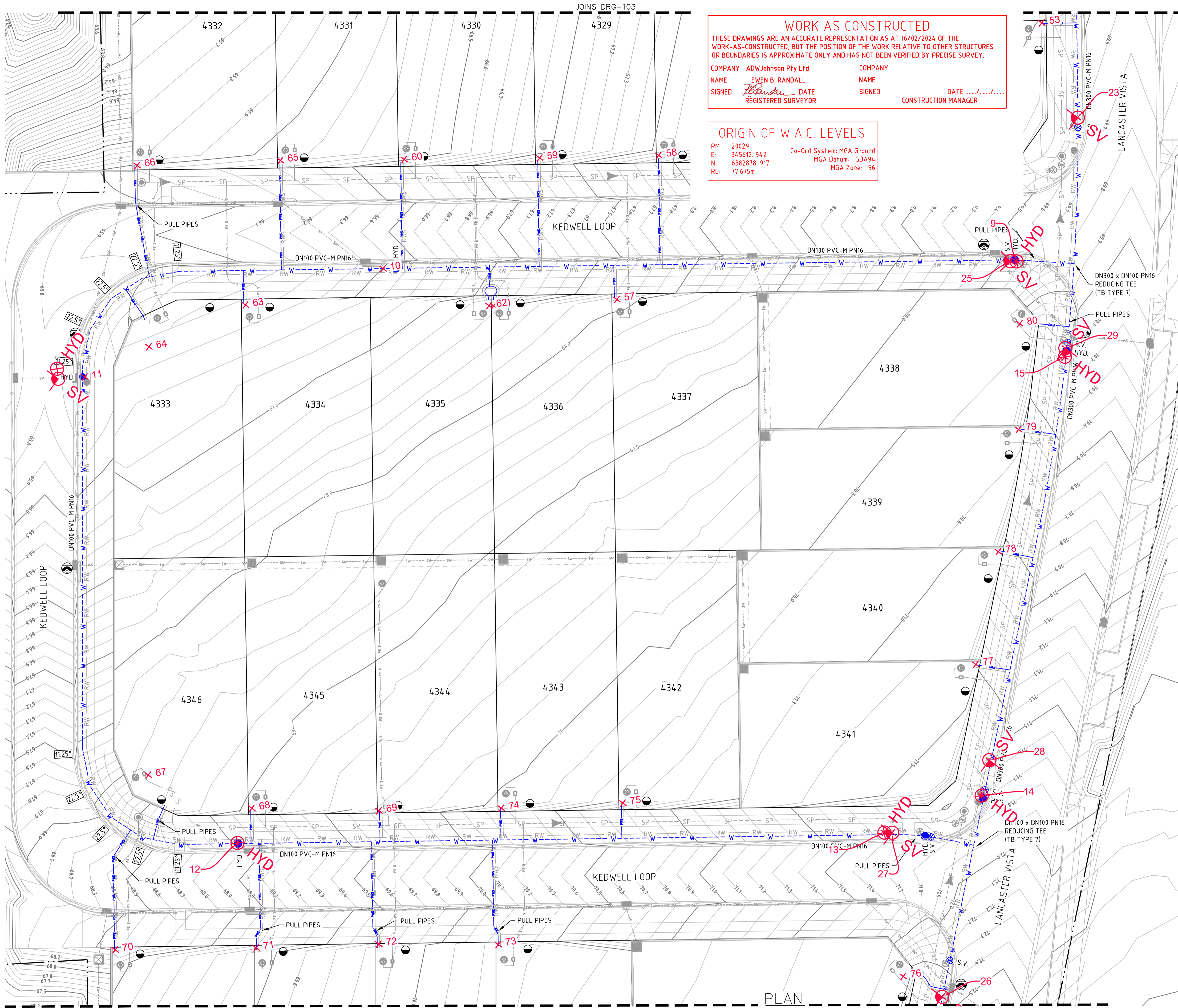
**APPROVED FOR CONSTRUCTION**  
 BY ADW Johnson Pty Ltd  
 Date Approved: 23/05/2023

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		<b>Hunter Office</b> 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	<b>CLIENT</b> 	<b>PROPERTY DESCRIPTION</b> PROPOSED SUBDIVISION STAGE 43 HUNTLEE	<b>PROJECT</b> POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	<b>PLAN TITLE</b> POTABLE WATER DETAIL PLAN - SHEET 3	<b>PROJECT No.</b> 240037(43)	<b>DISCIPLINE</b> WAC	<b>NUMBER</b> 103	<b>REV.</b> 4	
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	0 5 10 A1 / A3 1:250 / 1:500											
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.												
E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.												
0	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.												
1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.												
2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.												
3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.												
4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.												

240037(43)-WAC-105

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.

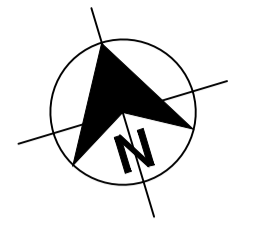


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COMPANY ADW Johnson Pty Ltd  
 NAME EWEN B. RANDALL  
 SIGNED *E. Randall* DATE REGISTERED SURVEYOR

COMPANY  
 NAME  
 SIGNED DATE  
 CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
 PM 20029 Co-Ord System: MGA Ground  
 E: 345612.942 MGA Datum: GDA94  
 N: 6382878.917 MGA Zone: 56  
 RL: 77.675m



- LEGEND**
- W --- W --- PVC-M POTABLE WATER RETICULATION
  - PWS --- PWS --- PE POTABLE WATER PROPERTY SERVICE
  - RW --- RW --- PVC-M RECYCLED WATER RETICULATION
  - RWS --- RWS --- PE RECYCLED WATER PROPERTY SERVICE
  - SP --- SP --- PE PRESSURE SEWER RETICULATION
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  - SW --- SW --- STORMWATER PIPEWORK
  - NBN --- NBN --- EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
  - G --- G --- EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
  - ex E --- ex E --- EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)

- S.V. STOP VALVE
- S.V.N.C. STOP VALVE NORMALLY CLOSED
- HYD. HYDRANT
- FL. HYD. FLUSHING HYDRANT
- PROPERTY SERVICE CONNECTION
- LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- 1125° 22.5° 65° 90° HORIZONTAL BEND ANGLE IN MAIN
- LIMIT OF SUBDIVISION WORKS

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 58 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 30 x SHORT SIDE
    - 20 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 4 x SHORT SIDE
    - 0 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN300	PVC-M PN16	527
DN100	PVC-M PN16	520
DN20 (LATERAL)	PE PN16	462

- NOTES:**
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 205.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 305.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  4. CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAILING:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
    - FLUSHING PLAN
  5. SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

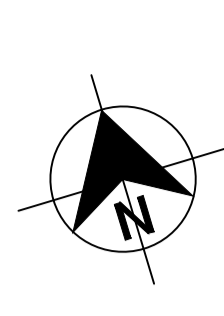
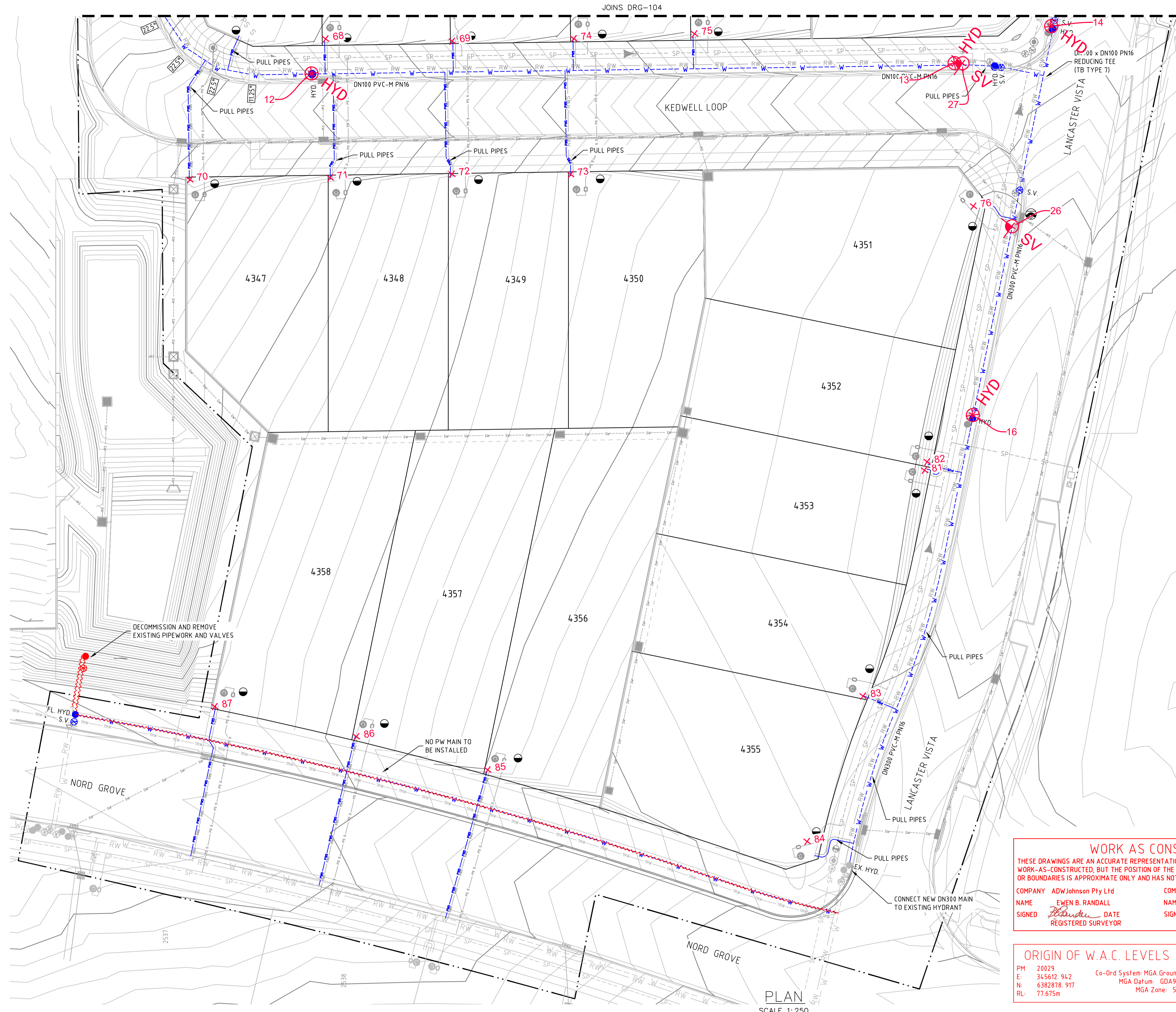
APPROVED FOR CONSTRUCTION  
 BY ADW Johnson Pty Ltd  
 Date Approved: 23/05/2023

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		<b>Hunter Office</b> 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	<b>CLIENT</b> 	<b>PROPERTY DESCRIPTION</b> PROPOSED SUBDIVISION STAGE 43 HUNTLEE	<b>PROJECT</b> POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	<b>PLAN TITLE</b> POTABLE WATER DETAIL PLAN - SHEET 4	<b>PROJECT No.</b> 240037(43)	<b>DISCIPLINE</b> WAC	<b>NUMBER</b> 104	<b>REV.</b> 4	
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	0 5 10 A1 / A3 1:250 / 1:500											
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.												
E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.												
0	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.												
1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.												
2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.												
3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.												
4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.												

240037(43)-WAC-105

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 --- W --- PVC-M POTABLE WATER RETICULATION
  - PWS --- PWS --- PE POTABLE WATER PROPERTY SERVICE
  - RW --- RW --- PVC-M RECYCLED WATER RETICULATION
  - RWS --- RWS --- PE RECYCLED WATER PROPERTY SERVICE
  - SP --- SP --- PE PRESSURE SEWER RETICULATION
  - PS S --- PS S --- PE PRESSURE SEWER PROPERTY SERVICE
  - SW --- SW --- STORMWATER PIPEWORK
  - NBN --- NBN --- EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
  - G --- G --- EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
  - ex E --- ex E --- EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
- 
- S.V. [Symbol] STOP VALVE
  - S.V. N.C. [Symbol] STOP VALVE NORMALLY CLOSED
  - HYD. [Symbol] HYDRANT
  - FL HYD. [Symbol] FLUSHING HYDRANT
  - [Symbol] PROPERTY SERVICE CONNECTION
  - [Symbol] LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - [Symbol] HORIZONTAL BEND ANGLE IN MAIN
  - --- LIMIT OF SUBDIVISION WORKS

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 58 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 30 x SHORT SIDE
    - 20 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 4 x SHORT SIDE
    - 0 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN300	PVC-M PN16	527
DN100	PVC-M PN16	520
DN20 (LATERAL)	PE PN16	462

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 205.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 305.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAILING:
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    - FLUSHING PLAN
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**WORK AS CONSTRUCTED**

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 16/02/2024 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	EWEN B. RANDALL	NAME	
SIGNED	<i>E. Randall</i>	SIGNED	
	REGISTERED SURVEYOR		DATE
			CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM 20029  
 E: 345612.942 Co-Ord System: MGA Ground  
 N: 6382878.917 MGA Datum: GDA94  
 RL: 77.675m MGA Zone: 56

**APPROVED FOR CONSTRUCTION**  
 BY ADW Johnson Pty Ltd  
 Date Approved: 23/05/2023

**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 PROPOSED SUBDIVISION STAGE 43 HUNTLEE	PROPERTY DESCRIPTION		PROJECT	
												POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		POTABLE WATER DETAIL PLAN - SHEET 5	
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.									
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.									
E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.									
0	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.									
1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.									
2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.									
3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.									
4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.									





240037(43)-WAC-205

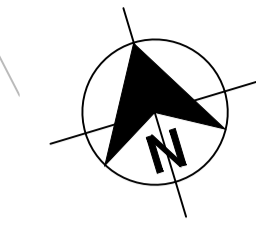
**WORK AS CONSTRUCTED**  
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COMPANY ADW Johnson Pty Ltd  
 NAME EWEN B. RANDALL  
 SIGNED *E. Randall* DATE \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
 REGISTERED SURVEYOR

COMPANY \_\_\_\_\_  
 NAME \_\_\_\_\_  
 SIGNED \_\_\_\_\_ DATE \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
 CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM 20029 Co-Ord System: MGA Ground  
 E: 345612.942 MGA Datum: GDA94  
 N: 6382878.917 MGA Zone: 56  
 RL: 77.675m



- LEGEND**
- RW — RW — RW — PVC-M RECYCLED WATER RETICULATION
  - RWS — RWS — RWS — PE RECYCLED WATER PROPERTY SERVICE
  - W — W — W — PVC-M POTABLE WATER RETICULATION
  - PWS — PWS — PWS — PE POTABLE WATER PROPERTY SERVICE
  - SP — SP — SP — PE PRESSURE SEWER RETICULATION
  - PS — S — PS — S — PE PRESSURE SEWER PROPERTY SERVICE
  - SW — SW — SW — STORMWATER PIPEWORK
  - NBN — NBN — NBN — EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
  - G — G — G — EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
  - ex E — ex E — EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
- S.V. STOP VALVE
  - S.V. N.C. STOP VALVE NORMALLY CLOSED
  - HYD. HYDRANT
  - FL. HYD. FLUSHING HYDRANT
  - PROPERTY SERVICE CONNECTION
  - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - 11.25° 72.5° 45° 90° HORIZONTAL BEND ANGLE IN MAIN
  - LIMIT OF SUBDIVISION WORKS
  - PROPERTY SERVICE CONNECTION. DENOTES PROPERTY LATERAL TO BE INSTALLED ON EXISTING MAIN. LATERAL CONNECTIONS TO EXISTING MAIN SHALL BE TREATED AS A NEW RETICULATION MAIN (i.e. ADVANCED NOTICE FOR CONNECTION, PRESSURE TESTING etc.). CONNECTION TO BE MADE TO EXISTING MAIN WITH PLASSON TAPPING SADDLE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS (REFER WAT-1108-V).

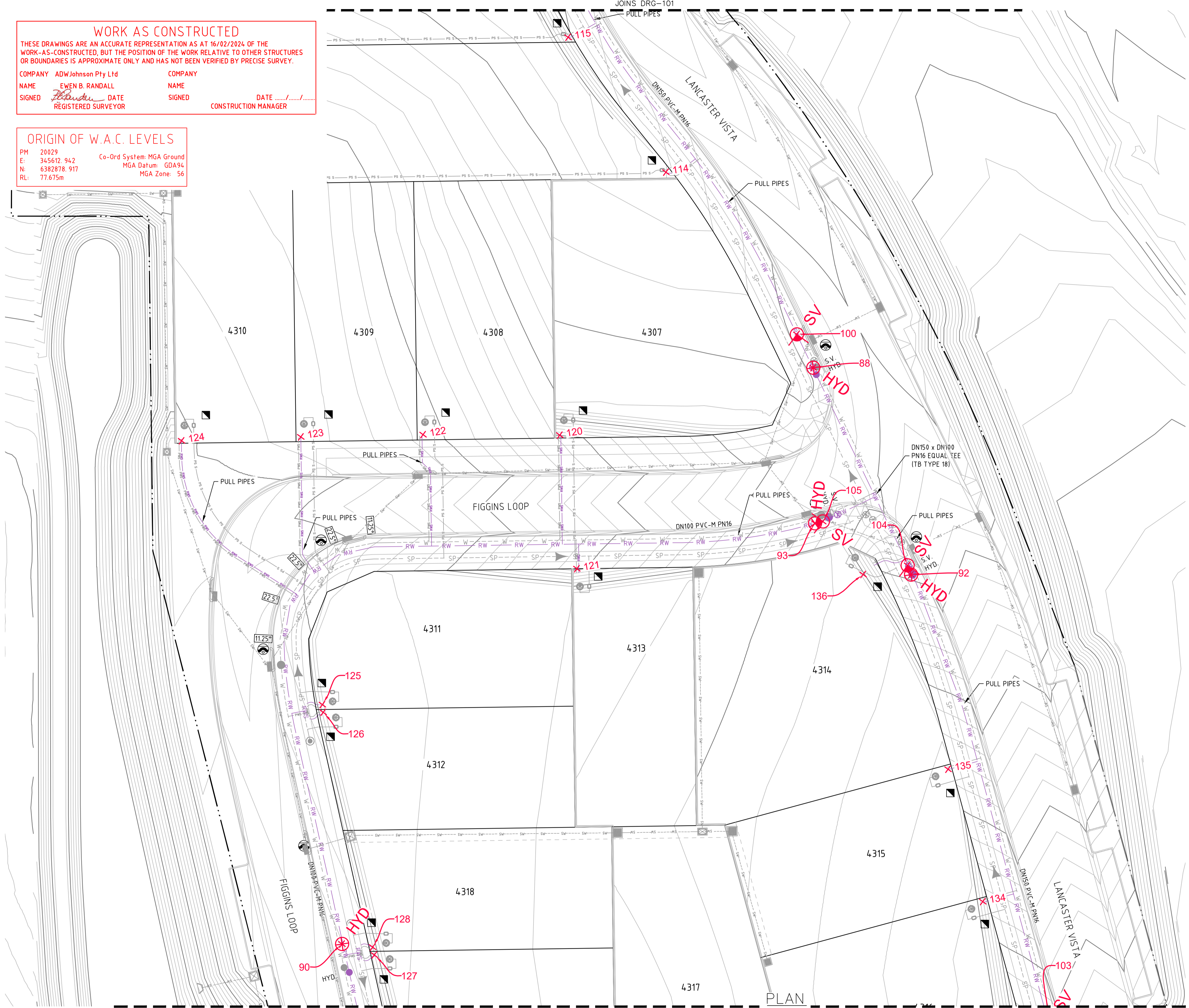
- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 58 CONNECTIONS
  - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 30 x SHORT SIDE
    - 20 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 4 x SHORT SIDE
    - 0 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	528
DN100	PVC-M PN16	515
DN25 (LATERAL)	PE PN16	463

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 105.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 305.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  4. CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAILING:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
    - FLUSHING PLAN
  5. SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**APPROVED FOR CONSTRUCTION**  
 BY ADW Johnson Pty Ltd  
 Date Approved: 23/05/2023

**WORK AS CONSTRUCTED**



PLAN  
 SCALE 1:250

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.

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	A1 / A3 1:250 / 1:500
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.	
E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.	
0	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	
1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	
2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	
3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.	
4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.	

DESIGN FILE: N:\240037\DWG\Water & Sewer\Stage 43 Water and Sewer\240037(43)-huntlee-water.dwg  
 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@adwjohnson.com.au  
 www.adwjohnson.com.au  
 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
 STAGE 43  
 HUNTLEE

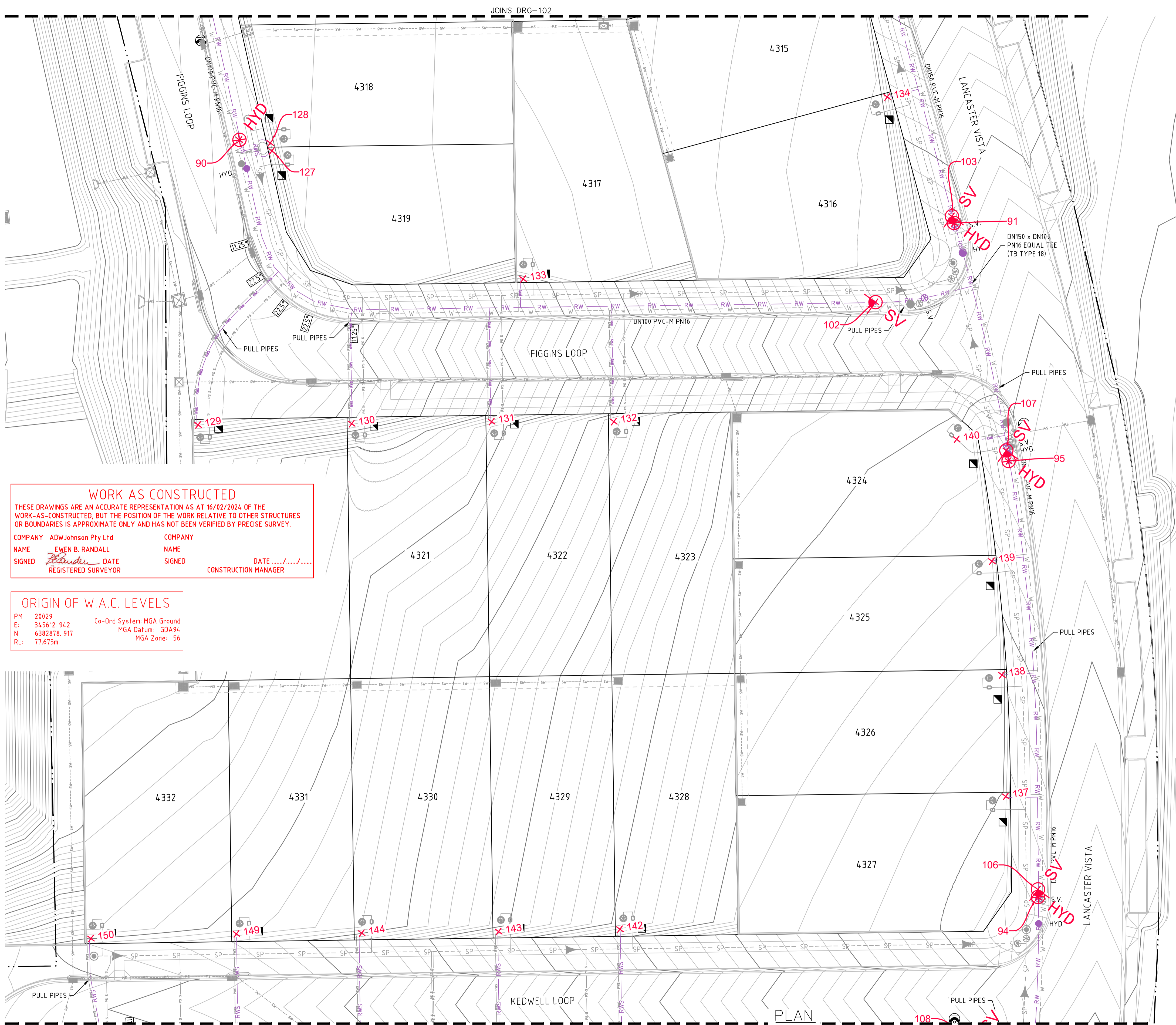
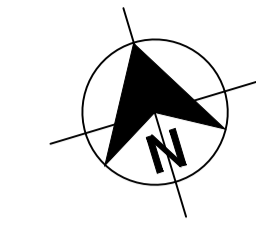
SURVEYED  
 Daly, Smith Pty Ltd

DATUM  
 GDA94 M.G.A. ZONE 56

A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 2		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(43)	WAC	202	4

240037(43)-WAC-205



- LEGEND**
- RW PVC-M RECYCLED WATER RETICULATION
  - RWS PE RECYCLED WATER PROPERTY SERVICE
  - W PVC-M POTABLE WATER RETICULATION
  - PWS PE POTABLE WATER PROPERTY SERVICE
  - SP PE PRESSURE SEWER RETICULATION
  - PS S PE PRESSURE SEWER PROPERTY SERVICE
  - SW STORMWATER PIPEWORK
  - NBN EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
  - G EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
  - ex E EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
  - S.V. STOP VALVE
  - S.V. N.C. STOP VALVE NORMALLY CLOSED
  - HYD. HYDRANT
  - FL. HYD. FLUSHING HYDRANT
  - PROPERTY SERVICE CONNECTION
  - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - 11.25° 22.5° 45° 90° HORIZONTAL BEND ANGLE IN MAIN
  - LIMIT OF SUBDIVISION WORKS
  - ⊗ PROPERTY SERVICE CONNECTION. DENOTES PROPERTY LATERAL TO BE INSTALLED ON EXISTING MAIN. LATERAL CONNECTIONS TO EXISTING MAIN SHALL BE TREATED AS A NEW RETICULATION MAIN (i.e. ADVANCED NOTICE FOR CONNECTION, PRESSURE TESTING etc.). CONNECTION TO BE MADE TO EXISTING MAIN WITH PLASSON TAPPING SADDLE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS (REFER WAT-1108-V).

**WORK AS CONSTRUCTED**  
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 16/02/2024 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  
 NAME EWEN B. RANDALL  
 SIGNED [Signature] DATE [Date]  
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
 PM 20029  
 E. 345612.942 Co-Ord System: MGA Ground  
 N. 6382878.917 MGA Datum: GDA94  
 RL: 77.675m MGA Zone: 56

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 58 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V  
 -30 x SHORT SIDE  
 -20 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V  
 -4 x SHORT SIDE  
 -0 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	528
DN100	PVC-M PN16	515
DN25 (LATERAL)	PE PN16	463

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 105.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 305.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR (INED CAMPBELL) AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAILING:
    - DURATION OF REQUIRED SHUTDOWN
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**APPROVED FOR CONSTRUCTION**  
 BY ADW Johnson Pty Ltd  
 Date Approved: 23/05/2023

**WORK AS CONSTRUCTED**

100mm AT FULL SIZE  
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REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.
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1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.
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3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.
4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.

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

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

**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

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
 STAGE 43  
 HUNTLEE

SURVEYED  
 Daly Smith Pty Ltd

DATUM  
 GDA94 M.G.A. ZONE 56

A.H.D.

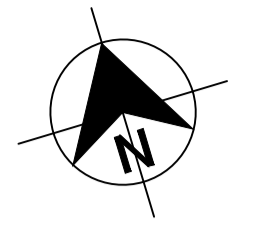
PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 3		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(43)	WAC	203	4

240037(43)-WAC-205

100mm AT FULL SIZE  
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 COMPANY ADW Johnson Pty Ltd  
 NAME EWEN B. RANDALL  
 SIGNED *E. Randall* DATE \_\_\_\_\_  
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
 PM 20029 Co-Ord System: MGA Ground  
 E: 345612.942 MGA Datum: GDA94  
 N: 6382878.917 MGA Zone: 56  
 RL: 77.675m



- LEGEND**
- RW — RW — RW — PVC-M RECYCLED WATER RETICULATION
  - RWS — RWS — RWS — PE RECYCLED WATER PROPERTY SERVICE
  - W — W — W — PVC-M POTABLE WATER RETICULATION
  - PWS — PWS — PWS — PE POTABLE WATER PROPERTY SERVICE
  - SP — SP — SP — PE PRESSURE SEWER RETICULATION
  - PS S — PS S — PS S — PE PRESSURE SEWER PROPERTY SERVICE
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  - G — G — G — EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
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  - S.V. STOP VALVE
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  - HYD. HYDRANT
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  - PROPERTY SERVICE CONNECTION
  - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - HORIZONTAL BEND ANGLE IN MAIN
  - LIMIT OF SUBDIVISION WORKS
  - PROPERTY SERVICE CONNECTION. DENOTES PROPERTY LATERAL TO BE INSTALLED ON EXISTING MAIN. LATERAL CONNECTIONS TO EXISTING MAIN SHALL BE TREATED AS A NEW RETICULATION MAIN (i.e. ADVANCED NOTICE FOR CONNECTION, PRESSURE TESTING etc.). CONNECTION TO BE MADE TO EXISTING MAIN WITH PLASSON TAPPING SADDLE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS (REFER WAT-1108-V).

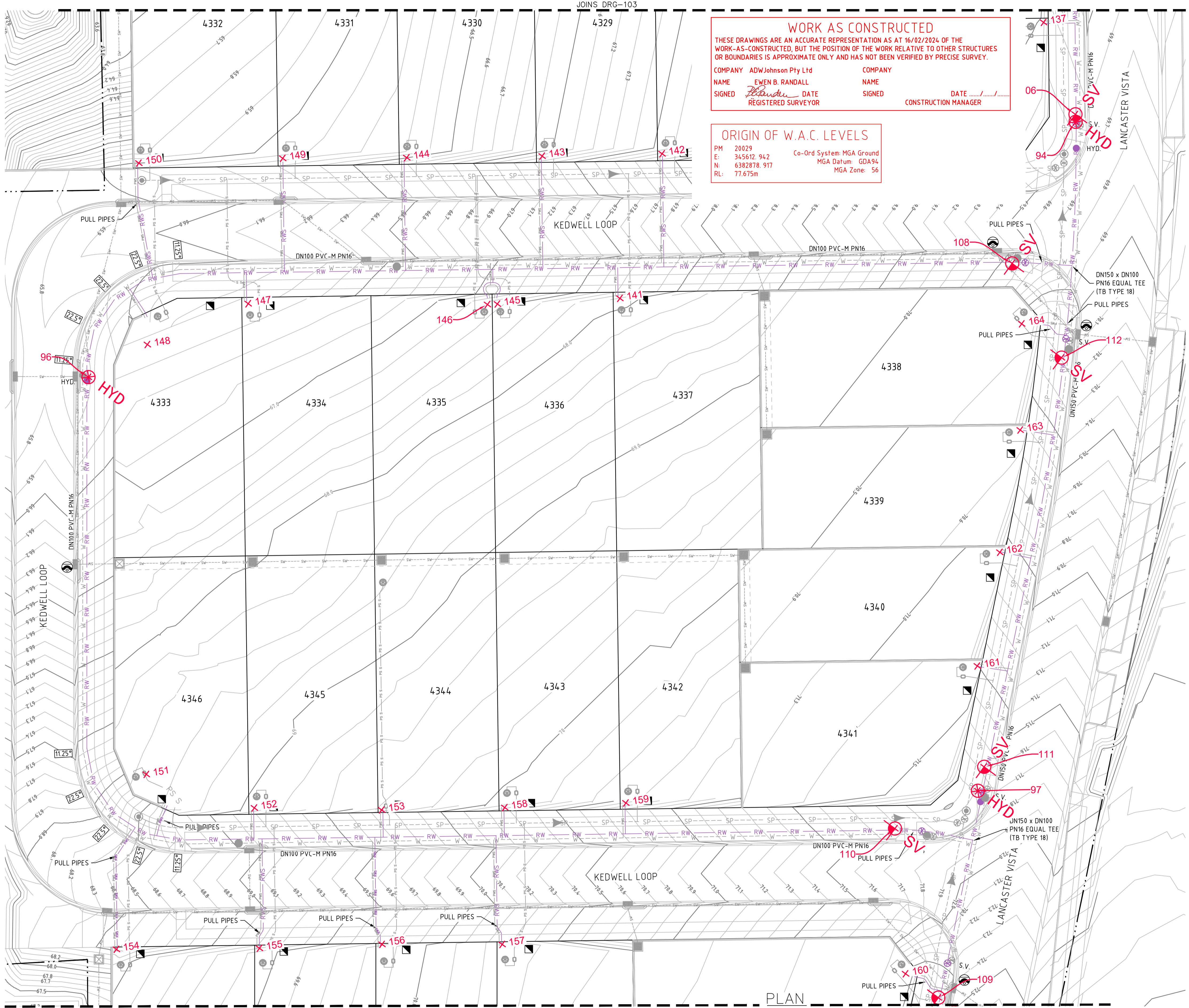
- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**  
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- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V  
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 -20 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V  
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 -0 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	528
DN100	PVC-M PN16	515
DN25 (LATERAL)	PE PN16	463

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 105.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 305.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
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    - ISOLATION VALVES TO BE CLOSED
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  5. SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

APPROVED FOR CONSTRUCTION  
 BY ADW Johnson Pty Ltd  
 Date Approved: 23/05/2023

**WORK AS CONSTRUCTED**

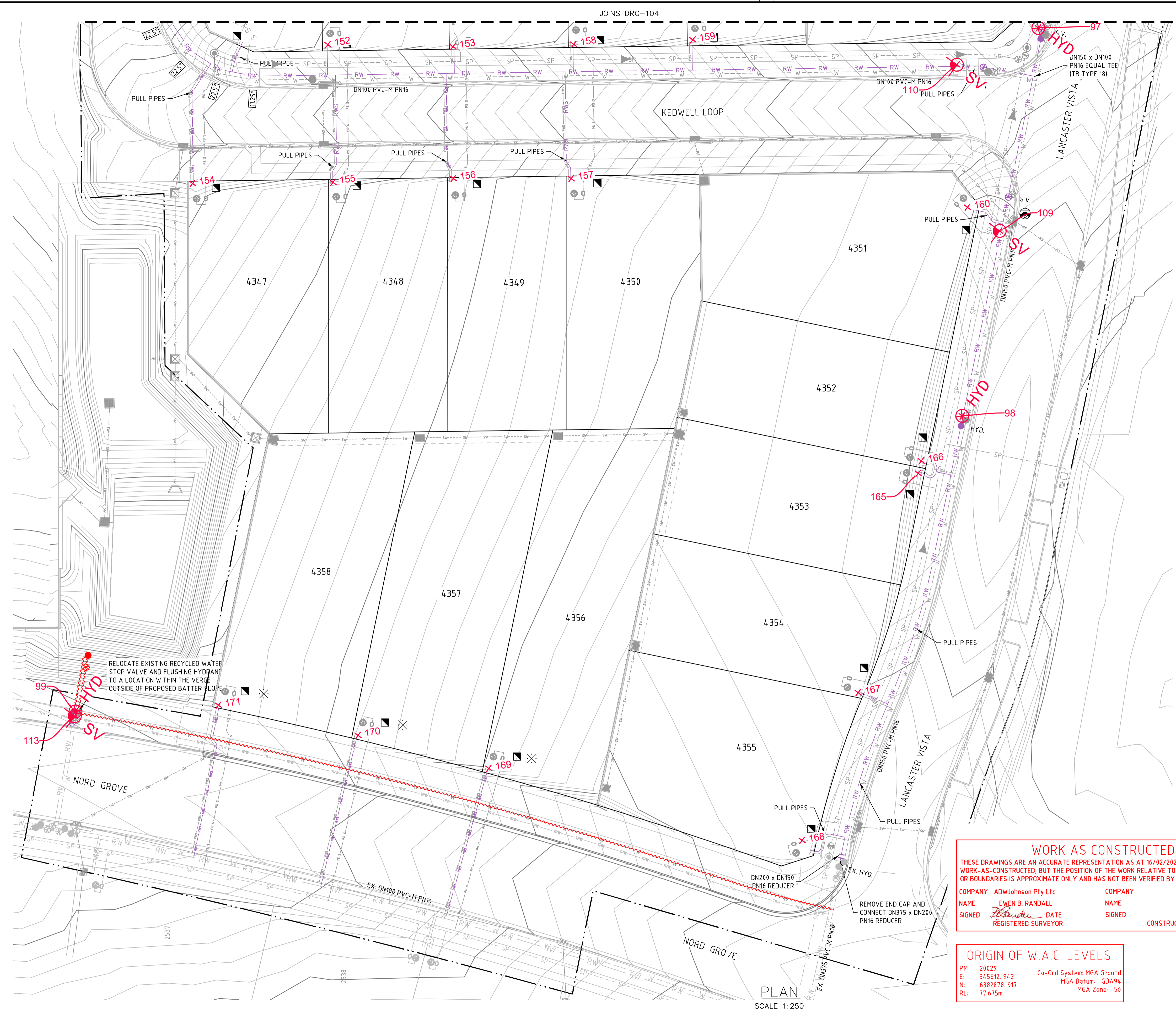


PLAN  
 SCALE 1:250

<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> <th>SCALES</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>17.08.2022</td> <td>INITIAL ISSUE</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td rowspan="4">             A1 / A3            1:250 / 1:500         </td> </tr> <tr> <td>D</td> <td>13.04.2023</td> <td>ALTOGETHER COMMENTS</td> <td>G.S.</td> <td>C.S.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>E</td> <td>18.05.2023</td> <td>CLIENT COMMENTS</td> <td>G.S.</td> <td>C.H.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>0</td> <td>23.05.2023</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.S.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>1</td> <td>09.06.2023</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.S.</td> <td>G.S.</td> <td>C.B.</td> <td rowspan="4">             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         </td> </tr> <tr> <td>2</td> <td>07.08.2023</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.S.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>3</td> <td>14.11.2023</td> <td>FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS</td> <td>G.S.</td> <td>C.H.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>4</td> <td>14.11.2024</td> <td>WORK AS CONSTRUCTED</td> <td>G.S.</td> <td>T.B.</td> <td>G.S.</td> <td>B.R.</td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	 A1 / A3 1:250 / 1:500	D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.	E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.	0	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	 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	2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.	4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.	<table border="1"> <tr> <td>CLIENT</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@adwjohanson.com.au            www.adwjohanson.com.au            ABN 62 129 445 398         </td> </tr> <tr> <td>PROPERTY DESCRIPTION</td> <td>PROPOSED SUBDIVISION STAGE 43 HUNTLEE</td> </tr> <tr> <td>SURVEYED</td> <td>Daly Smith Pty Ltd</td> </tr> <tr> <td>DATUM</td> <td>GDA94 M.G.A. ZONE 56</td> </tr> <tr> <td>A.H.D.</td> <td></td> </tr> </table>	CLIENT	 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	PROPERTY DESCRIPTION	PROPOSED SUBDIVISION STAGE 43 HUNTLEE	SURVEYED	Daly Smith Pty Ltd	DATUM	GDA94 M.G.A. ZONE 56	A.H.D.		<table border="1"> <tr> <td>PROJECT</td> <td colspan="3">POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</td> </tr> <tr> <td>PLAN TITLE</td> <td colspan="3">RECYCLED WATER DETAIL PLAN - SHEET 4</td> </tr> <tr> <td>PROJECT No.</td> <td>240037(43)</td> <td>DISCIPLINE</td> <td>WAC</td> </tr> <tr> <td>NUMBER</td> <td>204</td> <td>REV.</td> <td>4</td> </tr> </table>	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 4			PROJECT No.	240037(43)	DISCIPLINE	WAC	NUMBER	204	REV.	4
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240037(43)-WAC-205

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 — RW — RW — PVC-M RECYCLED WATER RETICULATION
  - RWS — RWS — RWS — PE RECYCLED WATER PROPERTY SERVICE
  - W — W — W — PVC-M POTABLE WATER RETICULATION
  - PWS — PWS — PWS — PE POTABLE WATER PROPERTY SERVICE
  - SP — SP — SP — PE PRESSURE SEWER RETICULATION
  - PS — PS — PS — PE PRESSURE SEWER PROPERTY SERVICE
  - SW — SW — SW — STORMWATER PIPEWORK
  - NBN — NBN — NBN — EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
  - G — G — G — EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
  - ex E — ex E — EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
  - S.V. — STOP VALVE
  - S.V.N.C. — STOP VALVE NORMALLY CLOSED
  - HYD. — HYDRANT
  - FL. HYD. — FLUSHING HYDRANT
  - — PROPERTY SERVICE CONNECTION
  - — LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - 11.25° 22.5° 45° 90° — HORIZONTAL BEND ANGLE IN MAIN
  - — LIMIT OF SUBDIVISION WORKS
  - ⊗ — PROPERTY SERVICE CONNECTION. DENOTES PROPERTY LATERAL TO BE INSTALLED ON EXISTING MAIN. LATERAL CONNECTIONS TO EXISTING MAIN SHALL BE TREATED AS A NEW RETICULATION MAIN (i.e. ADVANCED NOTICE FOR CONNECTION, PRESSURE TESTING etc.). CONNECTION TO BE MADE TO EXISTING MAIN WITH PLASSON TAPPING SADDLE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS (REFER WAT-1108-V).

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 58 CONNECTIONS
  - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 30 x SHORT SIDE
    - 20 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 4 x SHORT SIDE
    - 0 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	528
DN100	PVC-M PN16	515
DN25 (LATERAL)	PE PN16	463

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 105.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 305.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  4. CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAILING:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
    - FLUSHING PLAN
  5. SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**WORK AS CONSTRUCTED**

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 16/02/2024 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	EWEN B. RANDALL	NAME	
SIGNED	<i>E. Randall</i>	SIGNED	
	REGISTERED SURVEYOR	DATE	...../...../.....
		CONSTRUCTION MANAGER	

**ORIGIN OF W.A.C. LEVELS**

PM 20029  
 E: 345612.942 Co-Ord System: MGA Ground  
 N: 6382878.917 MGA Datum: GDA94  
 RL: 77.675m MGA Zone: 56

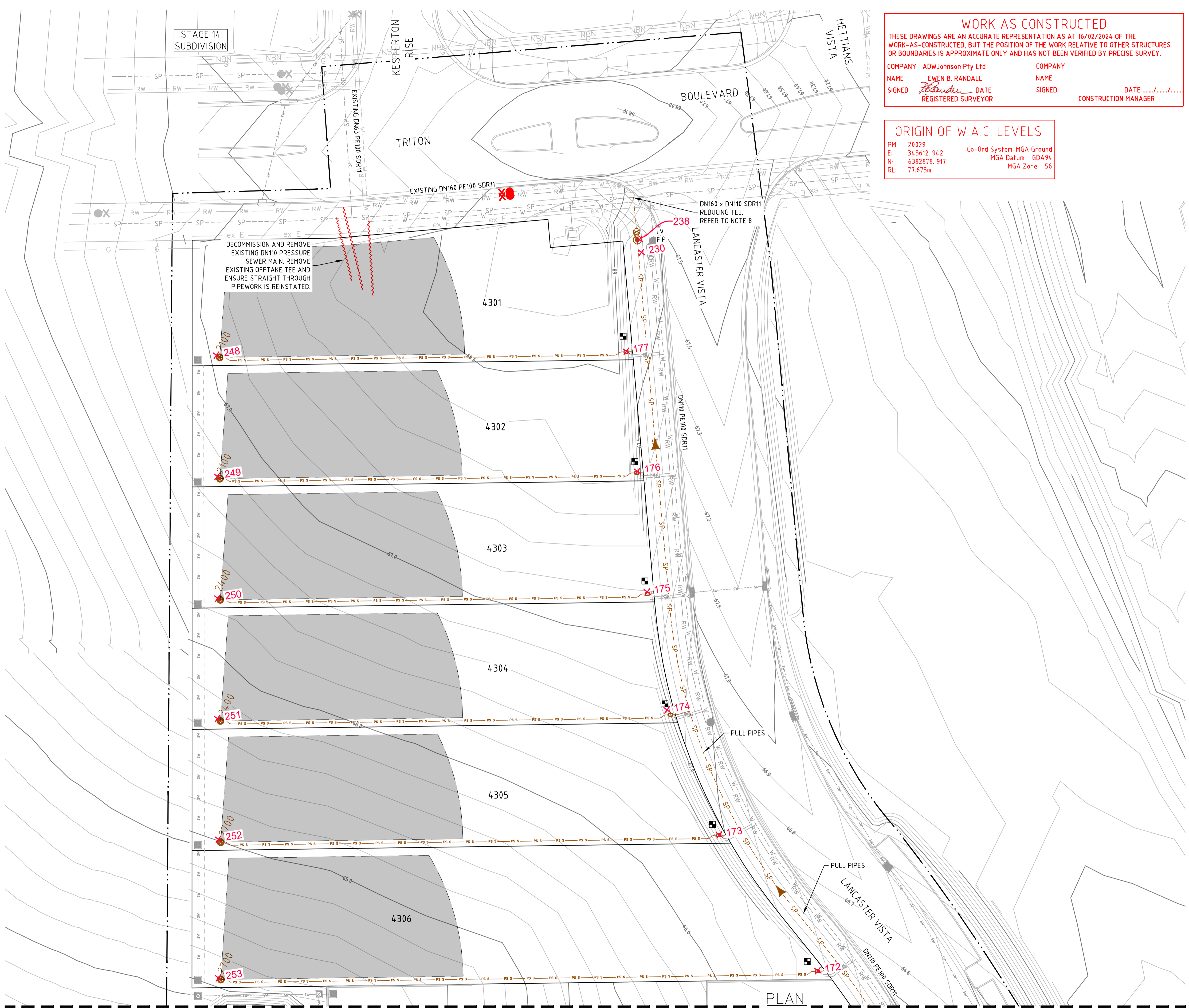
**APPROVED FOR CONSTRUCTION**  
 BY ADW Johnson Pty Ltd  
 Date Approved: 23/05/2023

**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	PROPERTY DESCRIPTION PROPOSED SUBDIVISION STAGE 43 HUNTLEE	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
PLAN TITLE		RECYCLED WATER DETAIL PLAN - SHEET 5		PROJECT No.	DISCIPLINE	NUMBER	REV.							
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	 A1 / A3 1:250 / 1:500				PROJECT No.	DISCIPLINE	NUMBER	REV.
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.					240037(43)	WAC	205	4
E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.								
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2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.								
3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.								
4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.								

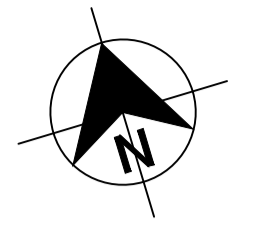
240037(43)-WAC-305

100mm AT FULL SIZE  
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 COMPANY ADW Johnson Pty Ltd  
 NAME EWEN B. RANDALL  
 SIGNED *E. Randall* DATE \_\_\_\_\_  
 REGISTERED SURVEYOR  
 COMPANY \_\_\_\_\_  
 NAME \_\_\_\_\_  
 SIGNED \_\_\_\_\_ DATE \_\_\_\_\_  
 CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
 PM 20029  
 E: 345612.942 Co-Ord System: MGA Ground  
 N: 6382878.917 MGA Datum: GDA94  
 RL: 77.675m MGA Zone: 56



**APPROVED FOR CONSTRUCTION**  
 BY ADW Johnson Pty Ltd  
 Date Approved: 23/05/2023



- LEGEND**
- SP --- SP --- PE PRESSURE SEWER RETICULATION
  - PS S --- PS S --- PE PRESSURE SEWER PROPERTY SERVICE
  - W --- W --- PVC-M POTABLE WATER RETICULATION
  - PWS --- PWS --- PE POTABLE WATER PROPERTY SERVICE
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  - NBN --- NBN --- EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
  - G --- G --- EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
  - ex E --- ex E --- EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
- I.V. ISOLATION VALVE
  - I.V. (N.C.) ISOLATION VALVE (NORMALLY CLOSED)
  - F.P. FLUSHING POINT
  - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
  - PRESSURE SEWER FLOW DIRECTION (& TEMP. FLOW DIRECTION - RED)
  - PROPERTY SERVICE CONNECTION
  - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - LIMIT OF SUBDIVISION WORKS
  - PROPERTY SERVICE CONNECTION. DENOTES PROPERTY LATERAL TO BE INSTALLED ON EXISTING MAIN. LATERAL CONNECTIONS TO EXISTING MAIN SHALL BE TREATED AS A NEW RETICULATION MAIN (i.e. ADVANCED NOTICE FOR CONNECTION, PRESSURE TESTING etc.). CONNECTION TO BE MADE TO EXISTING MAIN WITH PLASSON TAPPING SADDLE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS (REFER WAT-1108-V).
  - LIMIT OF POWER CABLE REACH FOR E-ONE TANKS, IF CABLE PATH IS STRAIGHT FROM THE TANK TO THE ELECTRICAL CONTROL BOX
- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 58 CONNECTIONS  
 • SINGLE SERVICES  
 - 38 x SHORT SIDE  
 - 20 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN110	PE PN16	224
DN90	PE PN16	83
DN75	PE PN16	83
DN63	PE PN16	409
DN50	PE PN16	104
DN40 (LATERAL)	PE PN16	876

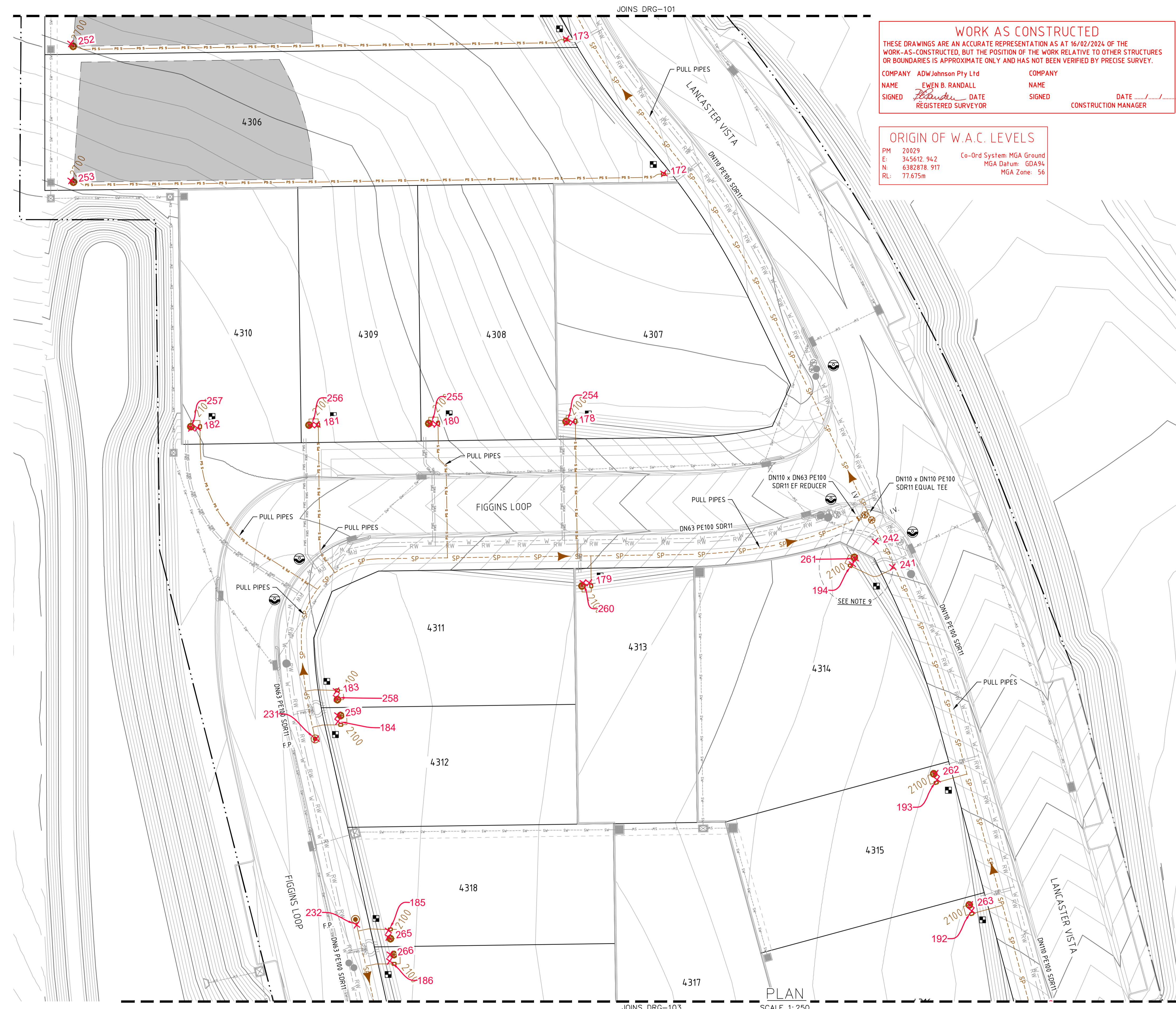
- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 105.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 205.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
  - FOR FLOW 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 DIAM.
  - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAIL:  
 - DURATION OF REQUIRED SHUTDOWN  
 - ISOLATION VALVES TO BE CLOSED
  - WHEN PRESSURE SEWER TANKS AND BOUNDARY KITS ARE LOCATED AT SPLAY CORNERS OF LOTS, THE INSTALLER IS TO CONFIRM ORIENTATION OF TANK AND BOUNDARY KIT WITH SUPERINTENDENT PRIOR TO INSTALLATION.

**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 	PROPERTY DESCRIPTION		PROJECT		
DESIGN FILE: N:\240037\DWG\Water & Sewer\Stage 43 Water and Sewer\240037(43)-huntlee-water.dwg		ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE		PROPOSED SUBDIVISION STAGE 43 HUNTLEE		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION										
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.										
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4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.										
PROJECT No. 240037(43) - DISCIPLINE WAC - NUMBER 301 - REV. 4																

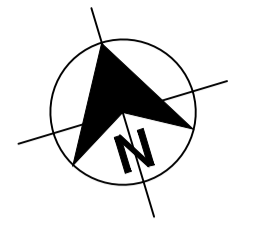
240037(43)-WAC-305

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 COMPANY ADW Johnson Pty Ltd  
 NAME EWEN B. RANDALL  
 SIGNED *E. Randall* DATE \_\_\_\_\_  
 REGISTERED SURVEYOR  
 COMPANY \_\_\_\_\_  
 NAME \_\_\_\_\_  
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 CONSTRUCTION MANAGER

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**APPROVED FOR CONSTRUCTION**  
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 Date Approved: 23/05/2023



- LEGEND**
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**■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 58 CONNECTIONS  
 • SINGLE SERVICES  
 - 38 x SHORT SIDE  
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PRESSURE SEWER PIPE DATA		
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  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 205.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - 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 DIAM.
  - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAIL:  
 - DURATION OF REQUIRED SHUTDOWN  
 - ISOLATION VALVES TO BE CLOSED
  - WHEN PRESSURE SEWER TANKS AND BOUNDARY KITS ARE LOCATED AT SPLAY CORNERS OF LOTS, THE INSTALLER IS TO CONFIRM ORIENTATION OF TANK AND BOUNDARY KIT WITH SUPERINTENDENT PRIOR TO INSTALLATION.

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.	
E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.	
0	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	
1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	
2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	
3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.	
4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.	

DESIGN FILE: N:\240037\DWG\Water & Sewer\Stage 43 Water and Sewer\240037(43)-huntlee-water.dwg  
 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@adwjohnson.com.au  
 www.adwjohnson.com.au  
 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION  
 PROPOSED SUBDIVISION  
 STAGE 43  
 HUNTLEE

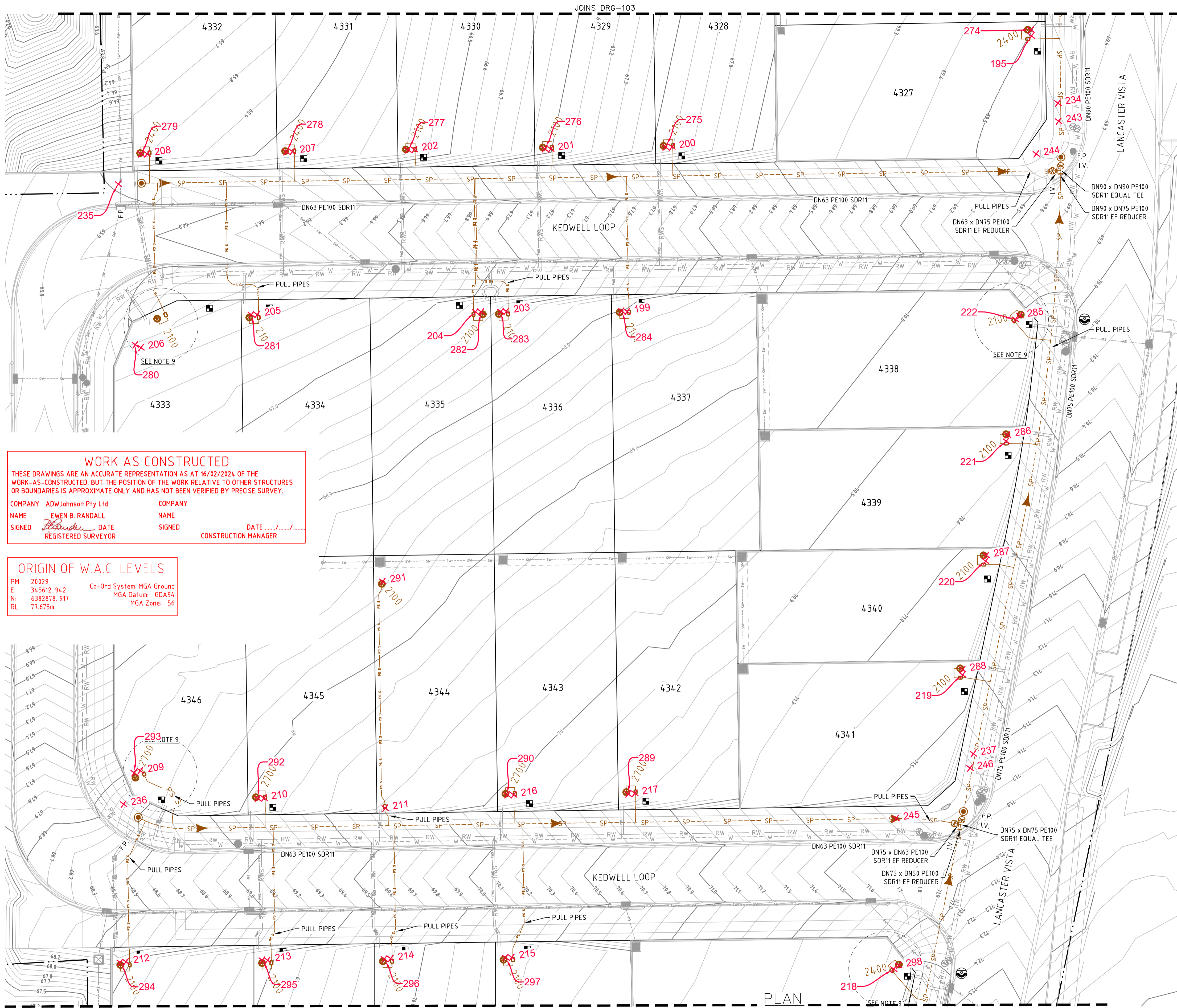
PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	PRESSURE SEWER DETAIL PLAN - SHEET 2		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(43)	WAC	302	4





240037(43)-WAC-305

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.



APPROVED FOR CONSTRUCTION  
BY ADW Johnson Pty Ltd  
Date Approved: 23/05/2023



- LEGEND**
- SP --- SP --- PE PRESSURE SEWER RETICULATION
  - PS S --- PS S --- PE PRESSURE SEWER PROPERTY SERVICE
  - W --- W --- PVC-M POTABLE WATER RETICULATION
  - PWS --- PWS --- PE POTABLE WATER PROPERTY SERVICE
  - RW --- RW --- PVC-M RECYCLED WATER RETICULATION
  - RWS --- RWS --- PE RECYCLED WATER PROPERTY SERVICE
  - SW --- SW --- STORMWATER PIPEWORK
  - NBN --- NBN --- EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
  - G --- G --- EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
  - ex E --- ex E --- EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
  - I.V. --- ISOLATION VALVE
  - I.V. (N.C.) --- ISOLATION VALVE (NORMALLY CLOSED)
  - F.P. --- FLUSHING POINT
  - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
  - PRESSURE SEWER FLOW DIRECTION (& TEMP. FLOW DIRECTION - RED)
  - PROPERTY SERVICE CONNECTION
  - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - LIMIT OF SUBDIVISION WORKS
  - ✕ --- PROPERTY SERVICE CONNECTION. DENOTES PROPERTY LATERAL TO BE INSTALLED ON EXISTING MAIN. LATERAL CONNECTIONS TO EXISTING MAIN SHALL BE TREATED AS A NEW RETICULATION MAIN (i.e. ADVANCED NOTICE FOR CONNECTION, PRESSURE TESTING etc.). CONNECTION TO BE MADE TO EXISTING MAIN WITH PLASSON TAPPING SADDLE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS (REFER WAT-1108-V).

**WORK AS CONSTRUCTED**  
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COMPANY ADW Johnson Pty Ltd  
NAME EWEN B. RANDALL  
SIGNED *E. Randall* DATE \_\_\_\_\_  
REGISTERED SURVEYOR CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
PM 20029 Co-Ord System MGA Ground  
E: 345612.942 MGA Datum: GDA94  
N: 6382878.917 MGA Zone: 56  
RL: 77.675m

**PROPERTY SERVICE CONNECTIONS**  
TOTAL 58 CONNECTIONS  
• SINGLE SERVICES  
-38 x SHORT SIDE  
-20 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN110	PE PN16	224
DN90	PE PN16	83
DN75	PE PN16	83
DN63	PE PN16	409
DN50	PE PN16	104
DN40 (LATERAL)	PE PN16	876

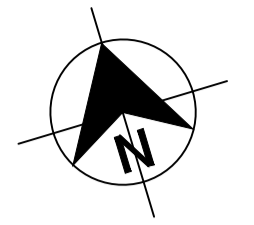
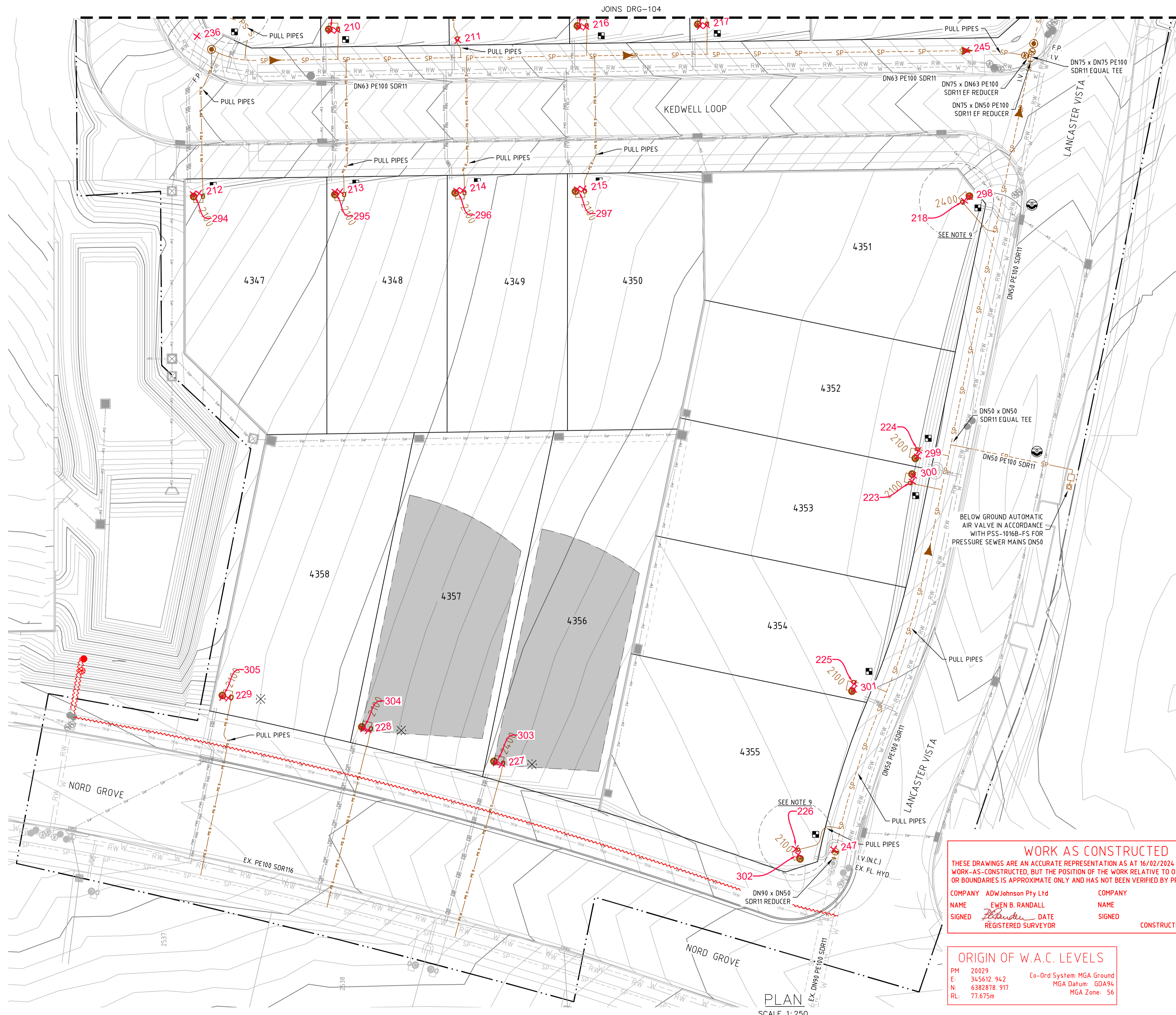
- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 105.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 205.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
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- DURATION OF REQUIRED SHUTDOWN  
- ISOLATION VALVES TO BE CLOSED
  - WHEN PRESSURE SEWER TANKS AND BOUNDARY KITS ARE LOCATED AT SPAY CORNERS OF LOTS, THE INSTALLER IS TO CONFIRM ORIENTATION OF TANK AND BOUNDARY KIT WITH SUPERINTENDENT PRIOR TO INSTALLATION.

**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> <th>SCALES</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>17.08.2022</td> <td>INITIAL ISSUE</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td rowspan="4"> </td> </tr> <tr> <td>D</td> <td>13.04.2023</td> <td>ALTOGETHER COMMENTS</td> <td>G.S.</td> <td>C.S.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>E</td> <td>18.05.2023</td> <td>CLIENT COMMENTS</td> <td>G.S.</td> <td>C.H.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>0</td> <td>23.05.2023</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.S.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>1</td> <td>09.06.2023</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.S.</td> <td>G.S.</td> <td>C.B.</td> <td rowspan="4"> </td> </tr> <tr> <td>2</td> <td>07.08.2023</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.S.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>3</td> <td>14.11.2023</td> <td>FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS</td> <td>G.S.</td> <td>C.H.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>4</td> <td>14.11.2024</td> <td>WORK AS CONSTRUCTED</td> <td>G.S.</td> <td>T.B.</td> <td>G.S.</td> <td>B.R.</td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.		D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.	E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.	0	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.		2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.	4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.	<p>DESIGN FILE: N:\240037\DWG\Water &amp; Sewer\Stage 43 Water and Sewer\240037(43)-huntlee-water.dwg Plotted By: glenns Plot Date: 22/02/24 - 16:30 Cad File: N:\240072\DWG\Water &amp; Sewer\Stage 43-WAC\240037(43)-WAC-305.dwg</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>PROPERTY DESCRIPTION PROPOSED SUBDIVISION STAGE 43 HUNTLEE</p>	<p>PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p> <p>PLAN TITLE PRESSURE SEWER DETAIL PLAN - SHEET 4</p>	<p>SURVEYED Daly Smith Pty Ltd</p> <p>DATUM GDA94 M.G.A. ZONE 56</p> <p>A.H.D.</p>	<p>PROJECT No. 240037(43)</p> <p>DISCIPLINE WAC</p> <p>NUMBER 304</p> <p>REV. 4</p>
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240037(43)-WAC-305

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.



APPROVED FOR CONSTRUCTION  
BY ADW Johnson Pty Ltd  
Date Approved: 23/05/2023



- LEGEND**
- SP PE PRESSURE SEWER RETICULATION
  - PS S PE PRESSURE SEWER PROPERTY SERVICE
  - W PVC-M POTABLE WATER RETICULATION
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  - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - LIMIT OF SUBDIVISION WORKS
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  - LIMIT OF POWER CABLE REACH FOR E-ONE TANKS, IF CABLE PATH IS STRAIGHT FROM THE TANK TO THE ELECTRICAL CONTROL BOX

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
TOTAL 58 CONNECTIONS
- SINGLE SERVICES -38 x SHORT SIDE
  - 20 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN110	PE PN16	224
DN90	PE PN16	83
DN75	PE PN16	83
DN63	PE PN16	409
DN50	PE PN16	104
DN40 (LATERAL)	PE PN16	876

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    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
  - WHEN PRESSURE SEWER TANKS AND BOUNDARY KITS ARE LOCATED AT SP/AY CORNERS OF LOTS, THE INSTALLER IS TO CONFIRM ORIENTATION OF TANK AND BOUNDARY KIT WITH SUPERINTENDENT PRIOR TO INSTALLATION.

**WORK AS CONSTRUCTED**  
THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 16/02/2024 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  
NAME EWEN B. RANDALL  
SIGNED *[Signature]* DATE \_\_\_\_\_  
REGISTERED SURVEYOR

COMPANY \_\_\_\_\_  
NAME \_\_\_\_\_  
SIGNED \_\_\_\_\_ DATE \_\_\_\_\_  
CONSTRUCTION MANAGER

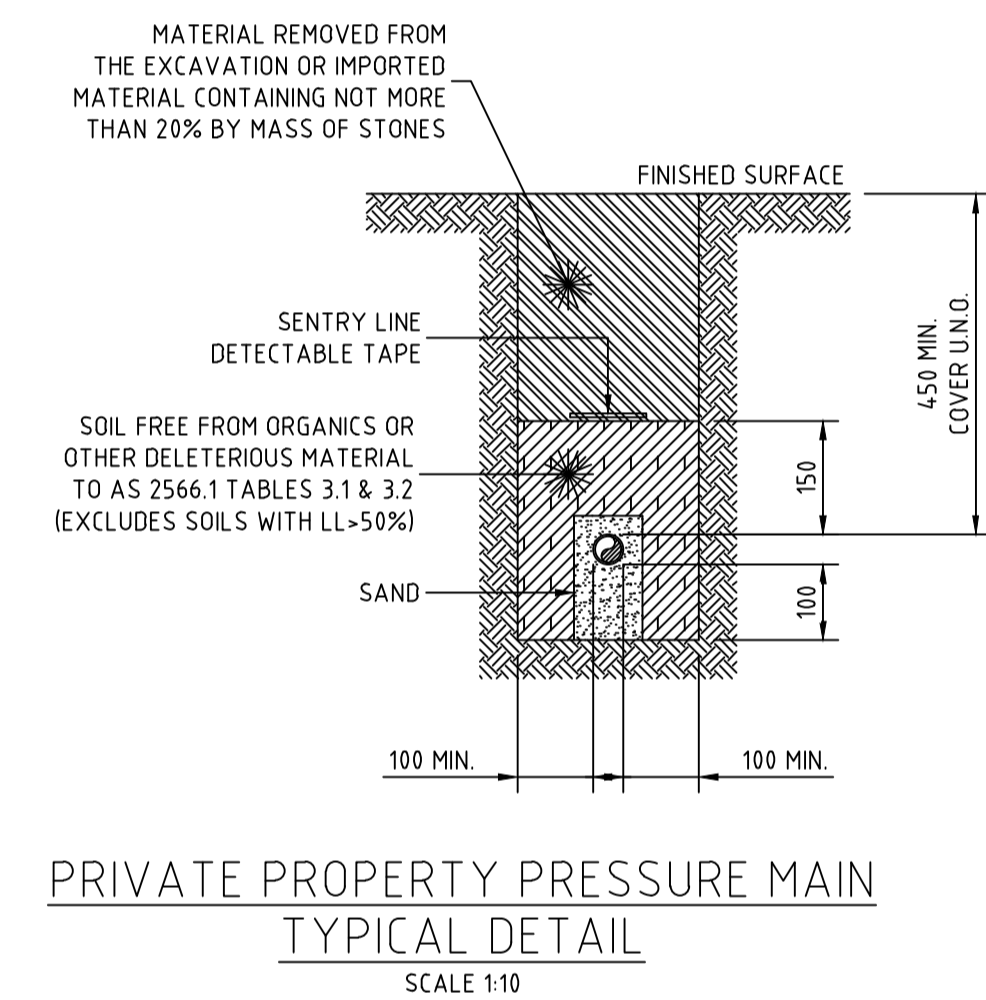
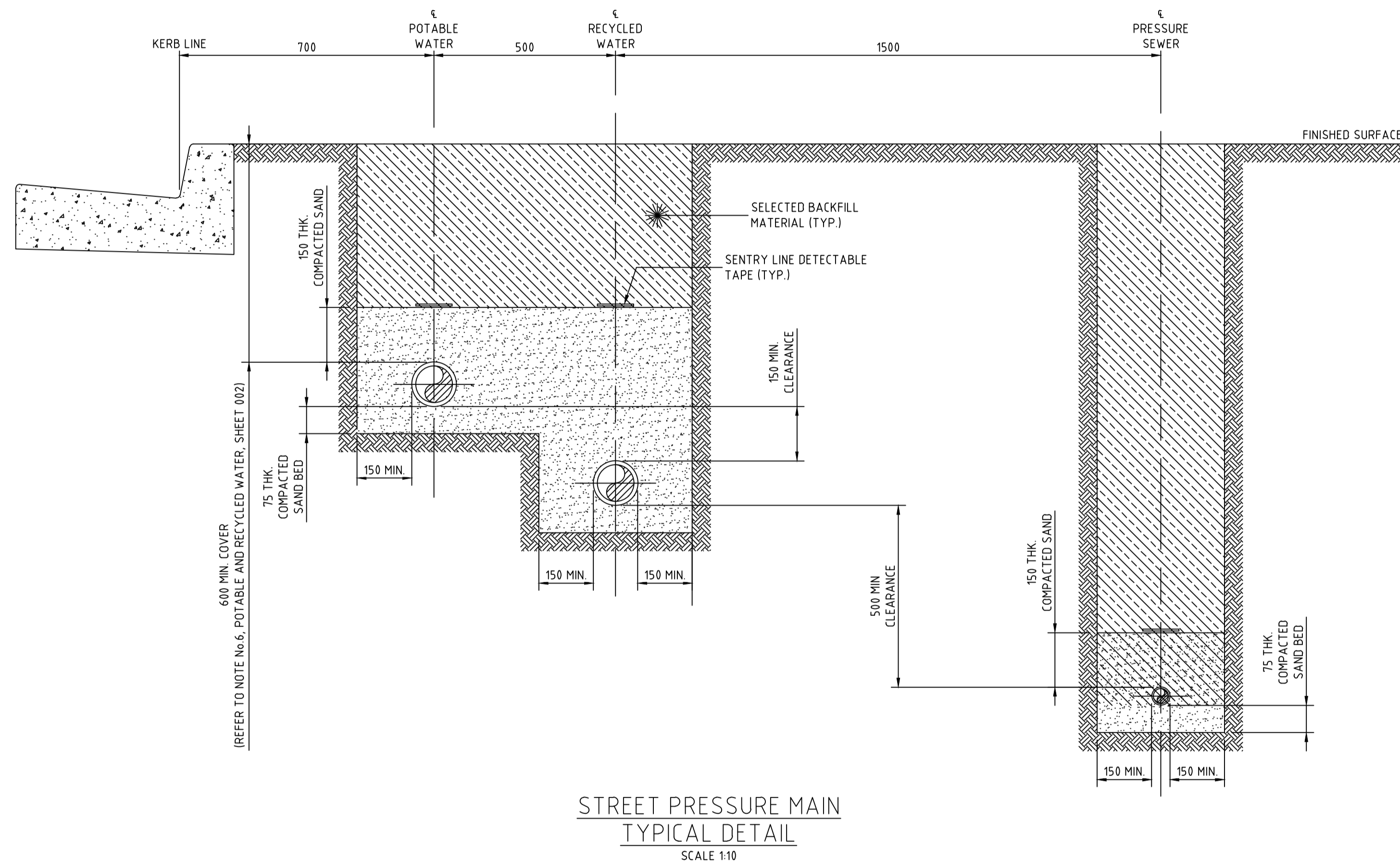
**ORIGIN OF W.A.C. LEVELS**  
PM 20029  
E: 34.5612 94.2  
N: 6382878 917  
RL: 77.675m  
Co-Ord System: MGA Ground  
MGA Datum: GDA94  
MGA Zone: 56

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		<b>Hunter Office</b> 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	<b>CLIENT</b> 	PROPERTY DESCRIPTION		PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
							0 5 10 A1 / A3 1:250 / 1:500				PROPOSED SUBDIVISION STAGE 43 HUNTLEE			PLAN TITLE PRESSURE SEWER DETAIL PLAN - SHEET 5		
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.		ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE.			SURVEYED Daly, Smith Pty Ltd	DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 240037(43)	DISCIPLINE WAC	NUMBER 305	REV. 4
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.										
E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.										
0	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.										
1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.										
2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.										
3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.										
4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.										



240037(43)-WAC-401



STREET PRESSURE MAIN  
TYPICAL DETAIL  
SCALE 1:10

PRIVATE PROPERTY PRESSURE MAIN  
TYPICAL DETAIL  
SCALE 1:10

- NOTES:
- ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.

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COMPANY ADW Johnson Pty Ltd  
NAME EWEN B. RANDALL  
SIGNED [Signature] DATE [Date]  
REGISTERED SURVEYOR

COMPANY [Blank]  
NAME [Blank]  
SIGNED [Blank] DATE [Blank]  
CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM 20029 Co-Ord System: MGA Ground  
E: 345612.942 MGA Datum: GDA94  
N: 6382878.917 MGA Zone: 56  
RL: 77.675m

**APPROVED FOR CONSTRUCTION**  
BY ADW Johnson Pty Ltd  
Date Approved: 23/05/2023

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.		Hunter Office	PROPOSED SUBDIVISION	POTABLE WATER, RECYCLED WATER AND		240037(43)	WAC	401	4
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.		Unit 7/335 Hillsborough Rd	STAGE 43	PRESSURE SEWER RETICULATION	TYPICAL PIPEWORK TRENCHING DETAIL				
E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.		Warners Bay N.S.W. 2282	HUNTLEE						
0	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.		Phone: (02) 4978 5100							
1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.		Fax: (02) 4978 5199							
2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.		email: hunter@adwjohnson.com.au							
3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.		www.adwjohnson.com.au							
4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.		ABN 62 129 445 398							

240037(43)-WAC-402

100mm AT FULL SIZE  
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**WORK AS CONSTRUCTED**

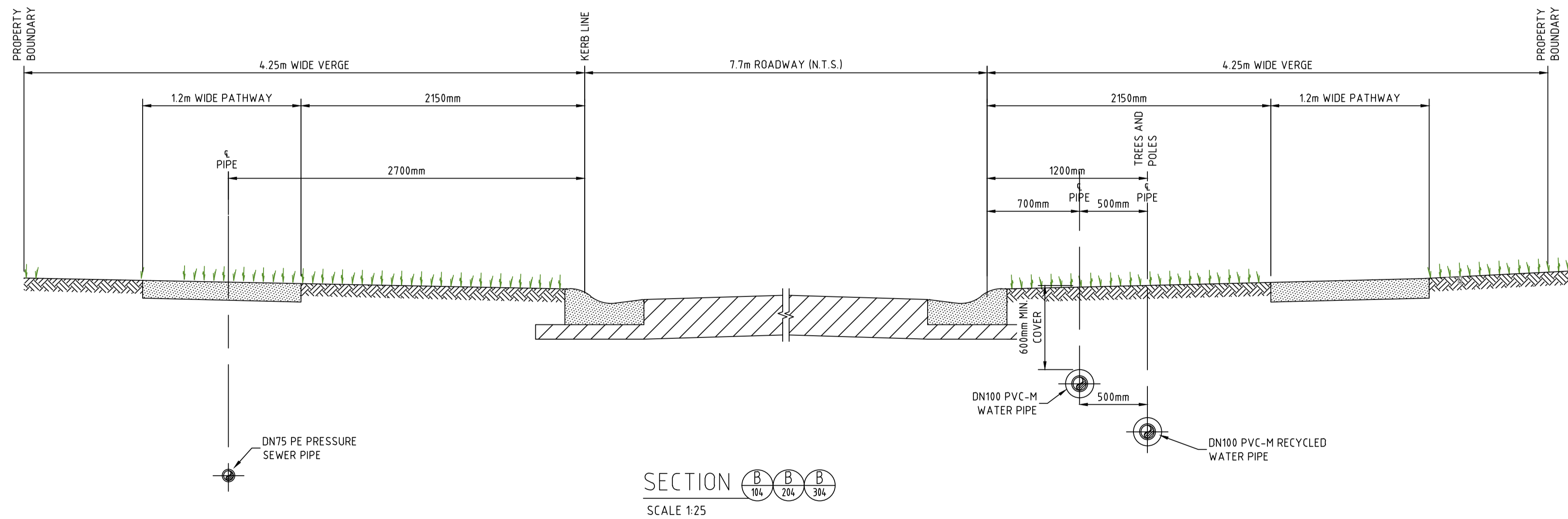
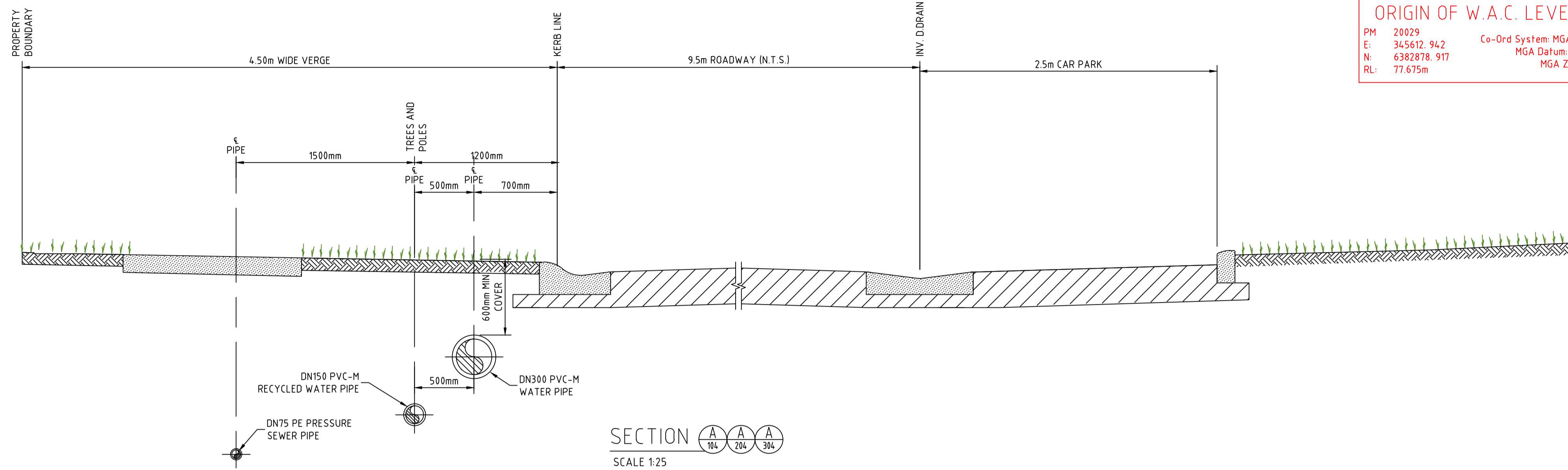
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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	EWEN B. RANDALL	NAME	
SIGNED		DATE	...../...../.....
	REGISTERED SURVEYOR	SIGNED	CONSTRUCTION MANAGER



**ORIGIN OF W.A.C. LEVELS**

PM	20029	Co-Ord System:	MGA Ground
E	345612.942	MGA Datum:	GDA94
N	6382878.917	MGA Zone:	56
RL	77.675m		



**NOTES:**

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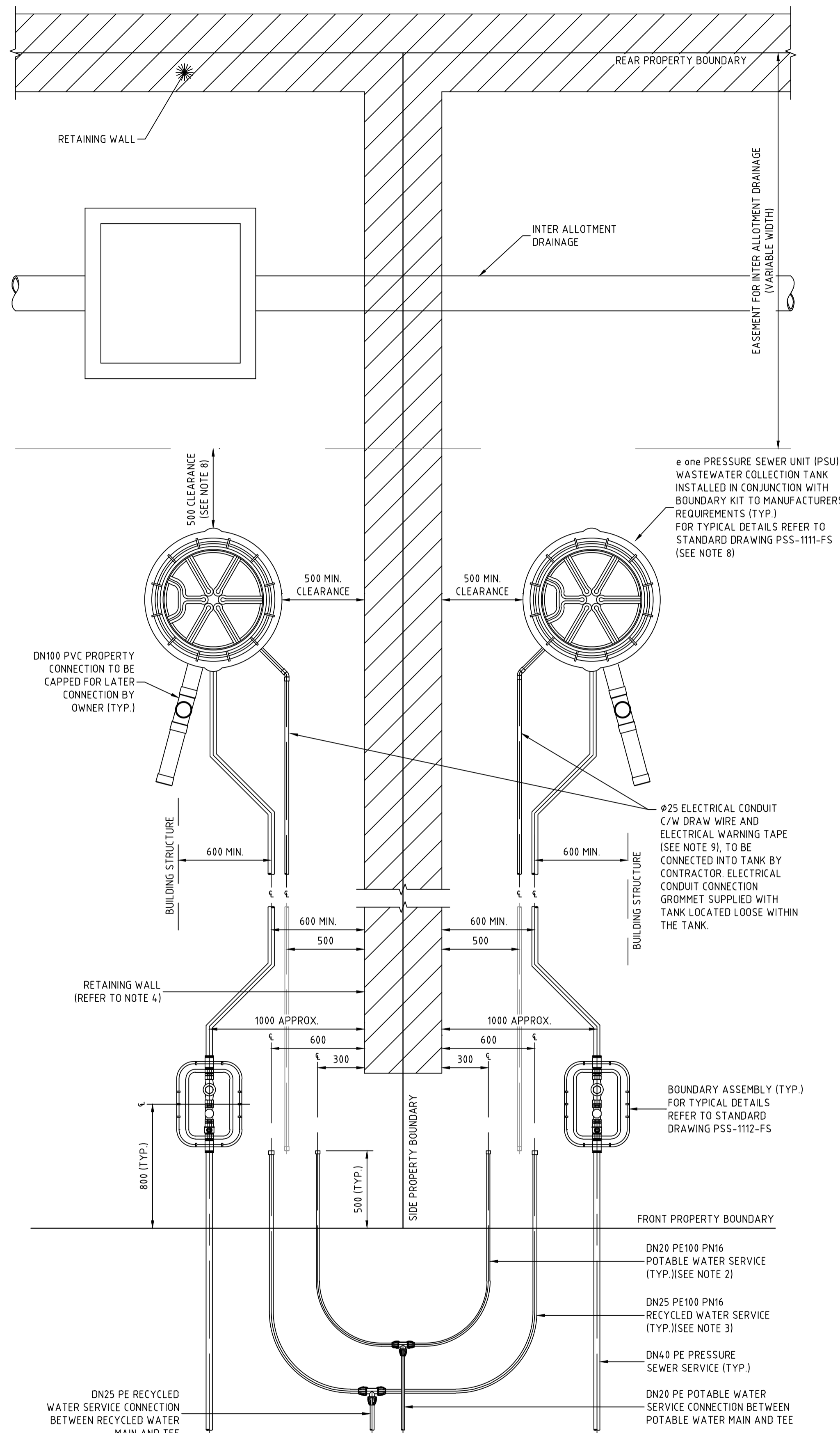
APPROVED FOR CONSTRUCTION  
BY ADW Johnson Pty Ltd  
Date Approved: 23/05/2023

**WORK AS CONSTRUCTED**

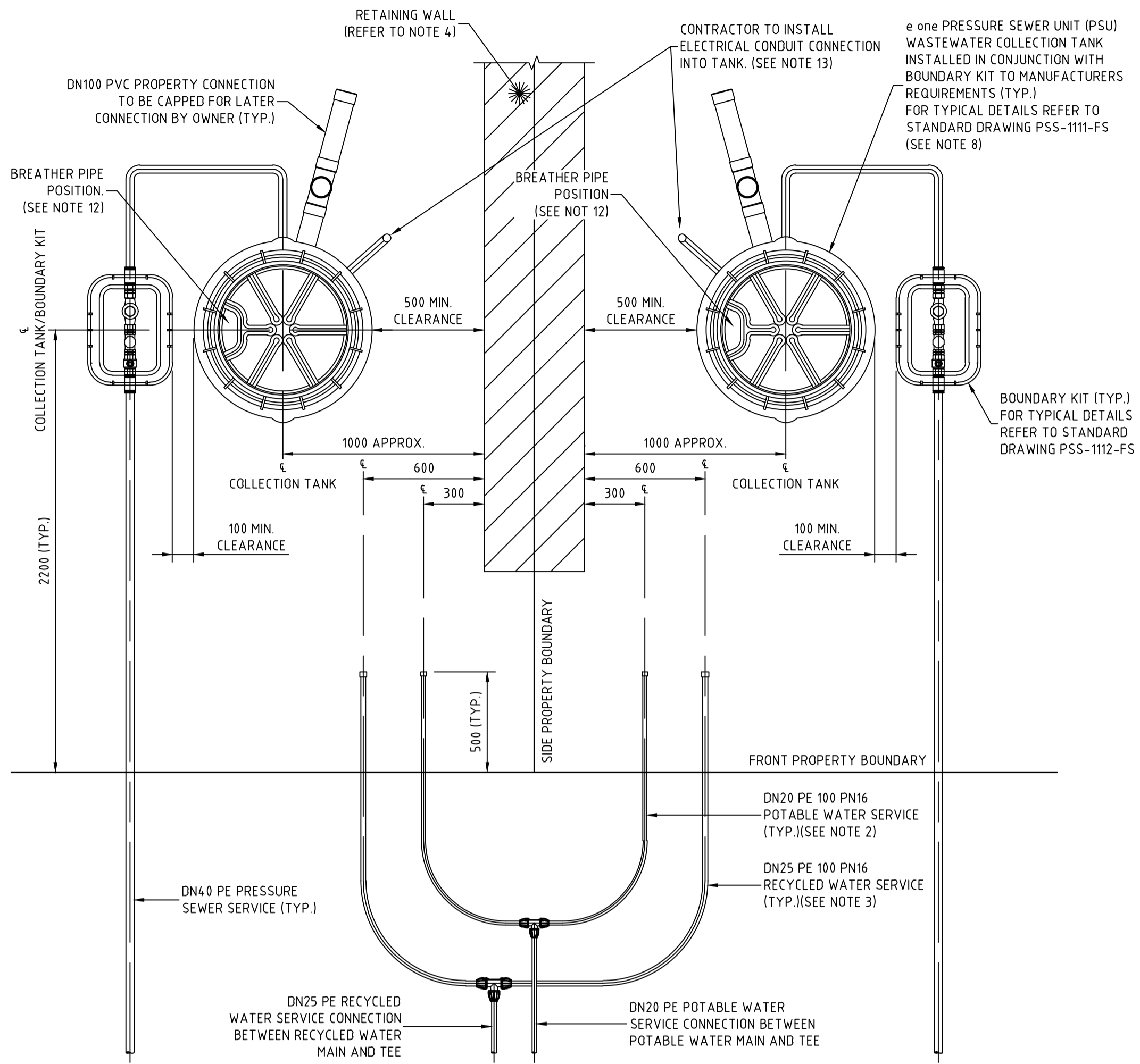
<b>REV.</b>	<b>DATE</b>	<b>AMENDMENT</b>	<b>DRAWN</b>	<b>CHECK</b>	<b>DESIGN</b>	<b>VERIFY</b>	<b>SCALES</b>	<b>CLIENT</b>	<b>PROPERTY DESCRIPTION</b>	<b>PROJECT</b>	
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.		<b>Hunter Office</b> Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	PROPOSED SUBDIVISION STAGE 43 HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.					TYPICAL ROAD CROSS-SECTIONS
E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.					
0	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.					
1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.					
2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.					
3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.					
4	14.11.2024	<b>WORK AS CONSTRUCTED</b>	G.S.	T.B.	G.S.	B.R.					
DESIGN FILE: N:\240037\DWG\Water & Sewer\Stage 43 Water and Sewer\240037(43)-huntlee-water.dwg ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE.											

240037(43)-WAC-403

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.



TYPICAL PROPERTY CONNECTION DETAIL  
(PRESSURE SEWER UNIT AT REAR)  
SCALE 1:20



TYPICAL PROPERTY CONNECTION DETAIL  
SCALE 1:20

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 INSTALLED IN ACCORDANCE WITH AS3000 AT MIN 500mm COVER. 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 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.

**WORK AS CONSTRUCTED**  
THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 16/02/2024 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  
NAME: EWEN B. RANDALL  
SIGNED: [Signature] DATE: [Date]  
REGISTERED SURVEYOR

COMPANY: [Blank]  
NAME: [Blank]  
SIGNED: [Blank] DATE: [Blank]  
CONSTRUCTION MANAGER



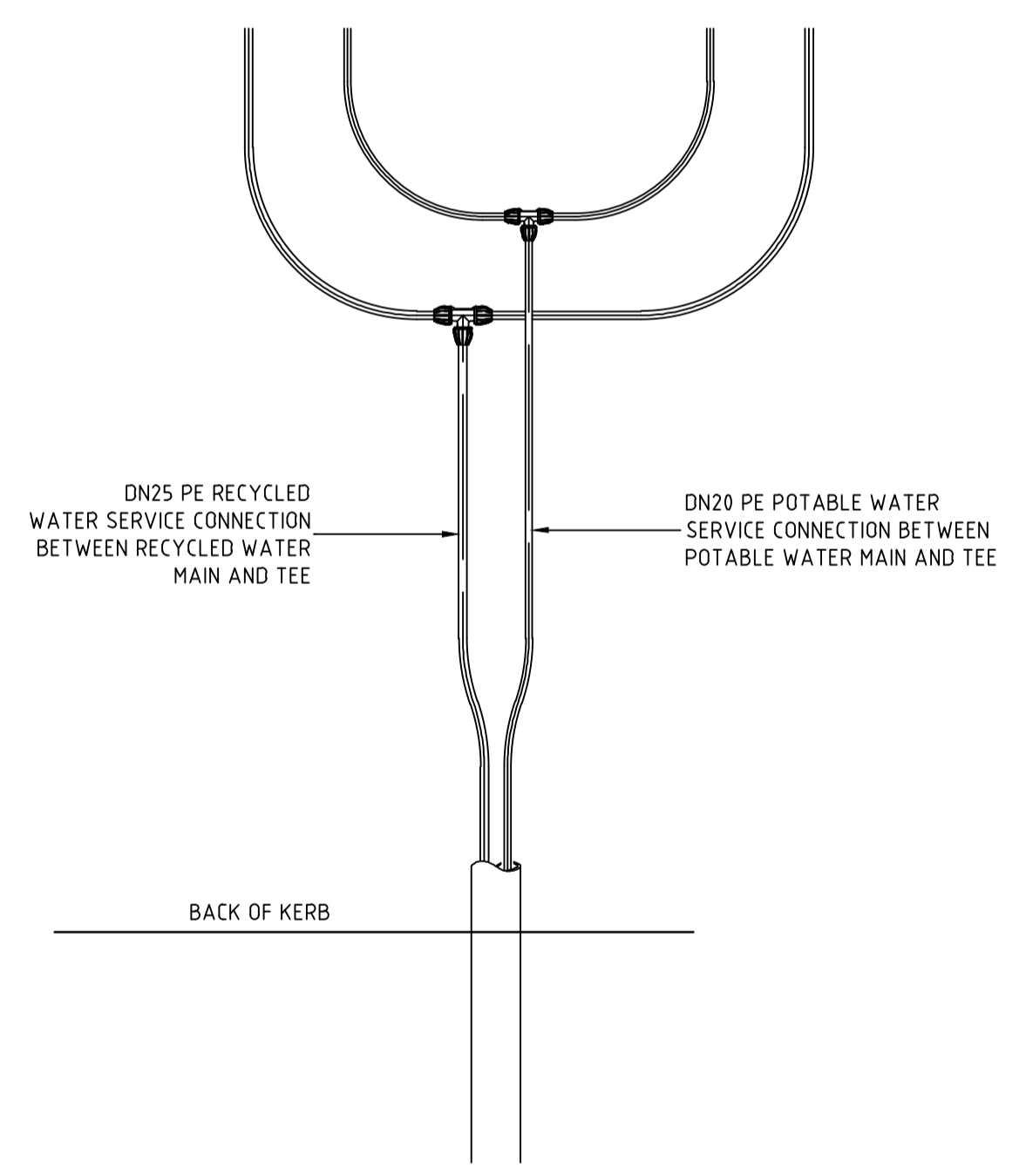
**ORIGIN OF W.A.C. LEVELS**

PM: 20029  
E: 345612.942  
N: 6382878.917  
RL: 77.675m

Co-Ord System: MGA Ground  
MGA Datum: GDA94  
MGA Zone: 56

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TYPICAL POTABLE WATER AND RECYCLED WATER CONDUIT DETAIL  
(LONG SIDE)  
SCALE 1:20

APPROVED FOR CONSTRUCTION  
BY ADW Johnson Pty Ltd  
Date Approved: 23/05/2023

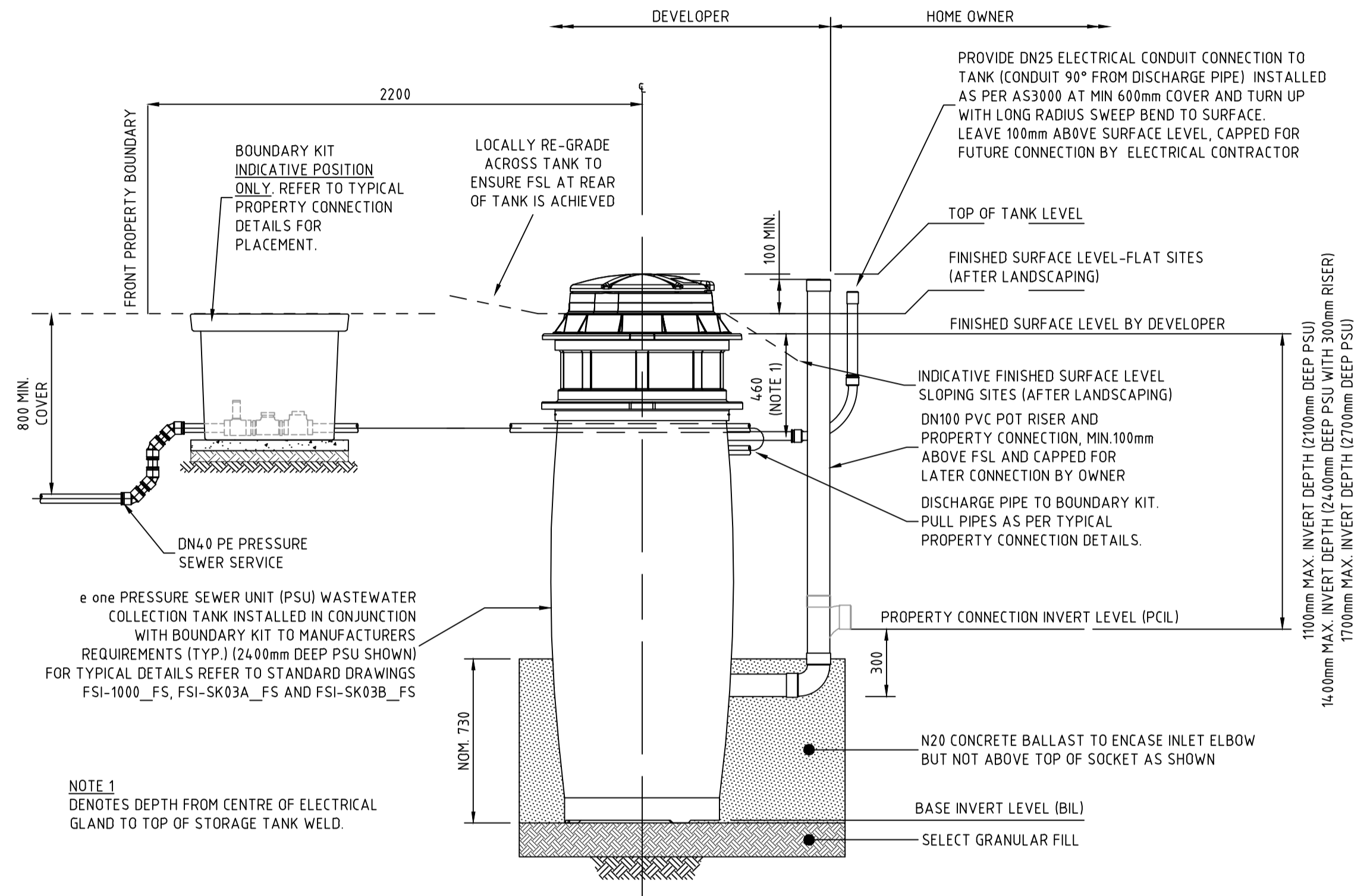
**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3	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	PROPOSED SUBDIVISION STAGE 43 HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	TYPICAL PROPERTY CONNECTION DETAILS	240037(43)	WAC	403	4
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.	0 0.4 0.8 A1 / A3								
E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.									
0	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.									
1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.									
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4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.									



WASTEWATER COLLECTION TANK DETAILS

LOT NUMBER	TOP OF TANK	TANK FSL	BASE IL	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
4301	67.18	67.05	65.05	65.95	2100	REAR	346263.60	6383135.07	67.143	65.83	-0.12
4302	66.86	66.73	64.73	65.63	2100	REAR	346261.37	6383120.24	66.859	65.54	-0.09
4303-check	66.39	66.26	63.96	64.86	2400	REAR	346259.13	6383105.41	66.436	64.82	-0.04
4304-check	65.81	65.68	63.38	64.28	2400	REAR	346256.90	6383090.57	65.831	64.22	-0.06
4305-CHECK	65.13	65.00	62.40	63.30	2700	REAR	346254.66	6383075.74	65.139	63.22	-0.08
4306-CHECK	64.19	64.06	61.46	62.36	2700	REAR	346252.12	6383058.93	64.228	62.31	-0.05
4307	66.16	66.03	64.03	64.93	2100	FRONT BATTER	346308.60	6383020.01	66.159	64.84	-0.09
4308	65.09	64.96	62.96	63.86	2100	FRONT	346291.56	6383022.37	65.029	63.71	-0.15
4309	64.79	64.66	62.66	63.56	2100	FRONT	346276.70	6383024.43	64.748	63.43	-0.13
4310	64.61	64.48	62.48	63.38	2100	FRONT	346261.84	6383026.49	64.579	63.26	-0.12
4311	64.84	64.71	62.71	63.61	2100	FRONT	346275.03	6382989.93	64.809	63.49	-0.12
4312	64.84	64.71	62.71	63.61	2100	FRONT	346275.13	6382987.90	64.827	63.51	-0.10
4313	66.16	66.03	64.03	64.93	2100	FRONT	346307.45	6382999.37	66.176	64.86	-0.07
4314	67.60	67.47	65.47	66.37	2100	FRONT	346341.69	6382997.75	67.636	66.32	-0.05
4315	67.95	67.82	65.82	66.72	2100	FRONT	346347.44	6382969.49	67.901	66.59	-0.13
4316	68.08	67.95	65.95	66.85	2100	FRONT	346349.36	6382952.60	68.149	66.83	-0.02
4317	66.27	66.14	64.14	65.04	2100	FRONT	346303.73	6382939.72	66.293	64.98	-0.06
4318	64.84	64.71	62.71	63.61	2100	FRONT	346277.07	6382959.36	64.843	63.53	-0.08
4319	64.85	64.72	62.72	63.62	2100	FRONT	346277.21	6382957.32	64.886	63.57	-0.05
4320	64.73	64.60	62.60	63.50	2100	FRONT BATTER	346261.43	6382924.78	64.821	63.51	0.01
4321	65.33	65.20	63.20	64.10	2100	FRONT BATTER	346280.25	6382922.17	65.427	64.11	0.01
4322	66.07	65.94	63.94	64.84	2100	FRONT	346297.09	6382919.84	66.172	64.86	0.02
4323	66.84	66.71	64.71	65.61	2100	FRONT	346311.95	6382917.78	66.97	65.66	0.05
4324	69.17	69.04	67.04	67.94	2100	FRONT	346353.32	6382911.91	69.202	67.89	-0.05
4325	69.32	69.19	67.19	68.09	2100	FRONT	346353.36	6382895.08	69.397	68.08	-0.01
4326	69.50	69.37	67.37	68.27	2400	FRONT	346352.48	6382881.07	69.607	67.99	0.02
4327	69.62	69.49	67.49	68.39	2400	FRONT	346350.55	6382866.18	69.727	68.11	0.02
4328	67.69	67.56	65.56	66.46	2100	FRONT	346303.77	6382858.74	67.854	66.54	0.08
4329	67.08	66.95	64.95	65.85	2100	FRONT	346288.91	6382860.80	67.197	65.88	0.03
4330	66.40	66.27	64.27	65.17	2100	FRONT	346272.07	6382863.14	66.511	65.20	0.03
4331	66.20	66.07	64.07	64.97	2400	FRONT	346257.21	6382865.20	66.221	64.61	-0.06
4332	65.90	65.77	63.77	64.67	2400	FRONT	346239.38	6382867.67	66.073	64.46	0.09
4333	66.41	66.28	64.28	65.18	2100	FRONT BATTER	346238.37	6382847.01	66.42	65.11	0.08
4334	66.47	66.34	64.34	65.24	2100	FRONT	346249.70	6382845.44	66.451	65.14	-0.10
4335	67.47	67.34	65.34	66.24	2100	FRONT	346278.43	6382841.46	67.455	66.14	-0.10
4336	67.56	67.43	65.43	66.33	2100	FRONT	346280.41	6382841.18	67.548	66.23	-0.10
4337	68.14	68.01	66.01	66.91	2100	FRONT	346295.26	6382839.13	68.164	66.85	-0.06
4338	70.15	70.02	68.02	68.92	2100	FRONT	346344.48	6382831.32	70.141	68.83	-0.09
4339	70.63	70.50	68.50	69.40	2100	FRONT	346340.43	6382816.91	70.642	69.33	-0.07
4340	71.13	71.00	69.00	69.90	2100	FRONT	346335.38	6382802.47	71.153	69.84	-0.06
4341	71.57	71.44	69.44	70.34	2100	FRONT	346330.39	6382789.03	71.117	70.40	0.06
4342	70.65	70.52	68.52	69.42	2700	FRONT	346287.08	6382780.09	70.836	68.92	0.10
4343	70.16	70.03	68.03	68.93	2700	FRONT	346272.22	6382782.15	70.34	68.43	0.10
4344	68.70	68.57	66.57	67.47	2100	REAR	346260.98	6382810.25	68.704	67.39	-0.08
4345	69.17	69.04	67.04	67.94	2700	FRONT	346241.52	6382786.40	69.242	67.33	-0.01
4346	68.55	68.42	66.42	67.32	2700	FRONT	346226.85	6382791.22	68.528	66.61	-0.11
4347	69.11	68.98	66.98	67.88	2100	FRONT BATTER	346221.53	6382768.38	69.124	67.81	-0.07
4348	69.60	69.47	67.47	68.37	2100	FRONT	346239.16	6382765.93	69.433	68.12	-0.25
4349	70.00	69.87	67.87	68.77	2100	FRONT	346254.02	6382763.87	70.033	68.72	-0.05
4350	70.38	70.25	68.25	69.15	2100	FRONT	346268.88	6382761.81	70.38	69.07	-0.09
4351	72.58	72.45	70.45	71.35	2400	FRONT	346317.33	6382753.80	72.624	71.01	-0.04
4352	72.62	72.49	70.49	71.39	2100	FRONT	346305.72	6382722.52	72.58	71.27	-0.13
4353	72.62	72.49	70.49	71.39	2100	FRONT	346305.03	6382720.65	72.553	71.24	-0.15
4354	72.49	72.36	70.36	71.26	2100	FRONT	346293.55	6382695.04	72.486	71.17	-0.09
4355	72.30	72.17	70.17	71.07	2100	FRONT	346284.00	6382675.37	72.34	71.03	-0.04
4356	70.65	70.52	68.52	69.42	2400	FRONT	346248.11	6382693.13	70.768	69.15	0.03
4357	70.24	70.11	68.11	69.01	2100	FRONT	346232.47	6382699.86	70.246	68.93	-0.08
4358	69.85	69.72	67.72	68.62	2100	FRONT	346215.90	6382706.36	69.788	68.47	-0.15



PRESSURE SEWER SERVICE CONNECTION  
TYPICAL SECTIONAL ELEVATION  
SCALE 1:20

WASTEWATER COLLECTION TANK COUNT

TANK SIZE	NUMBER OF
2100	44
2400	8
2700	6

**WORK AS CONSTRUCTED**  
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COMPANY: ADW Johnson Pty Ltd  
NAME: EWEN B. RANDALL  
SIGNED: [Signature] DATE: [Date]  
REGISTERED SURVEYOR

COMPANY: [Blank]  
NAME: [Blank]  
SIGNED: [Blank] DATE: [Blank]  
CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM: 20029  
E: 345612.942  
N: 6382878.917  
RL: 77.675m

Co-Ord System: MGA Ground  
MGA Datum: GDA94  
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A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3	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	PROPOSED SUBDIVISION STAGE 43 HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	WASTE WATER COLLECTION TANK LEVEL DETAILS	240037(43)	WAC	404	4
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3								
E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3								
0	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3								
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2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3								
3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3								
4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.	0 0.1 0.2 0.3 0.4 A1 / A3								

240037(43)-WAC-404

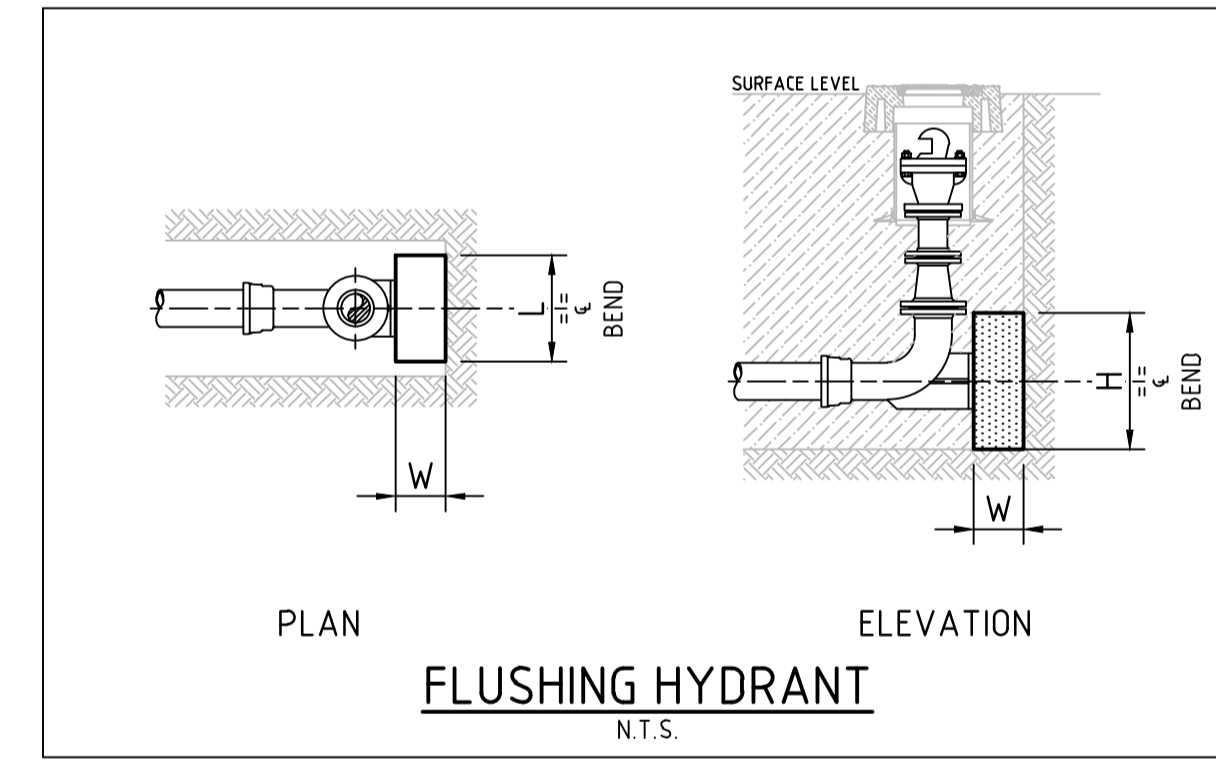
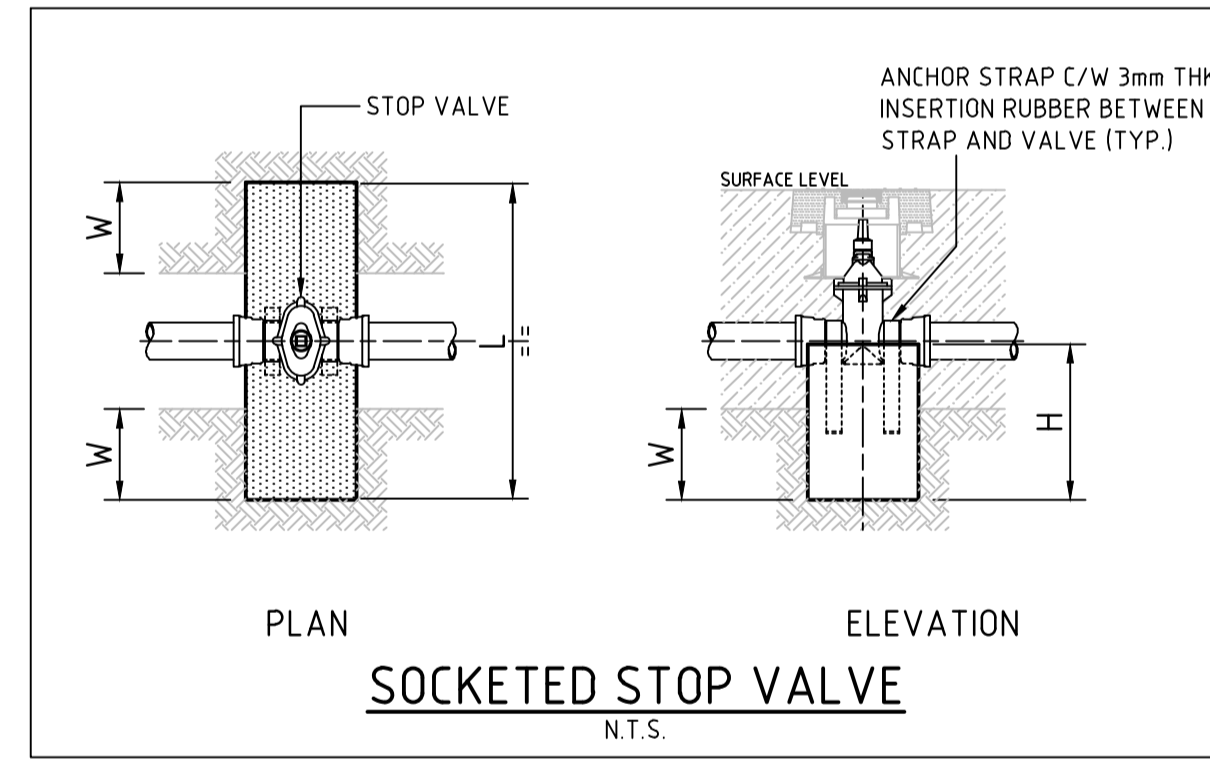
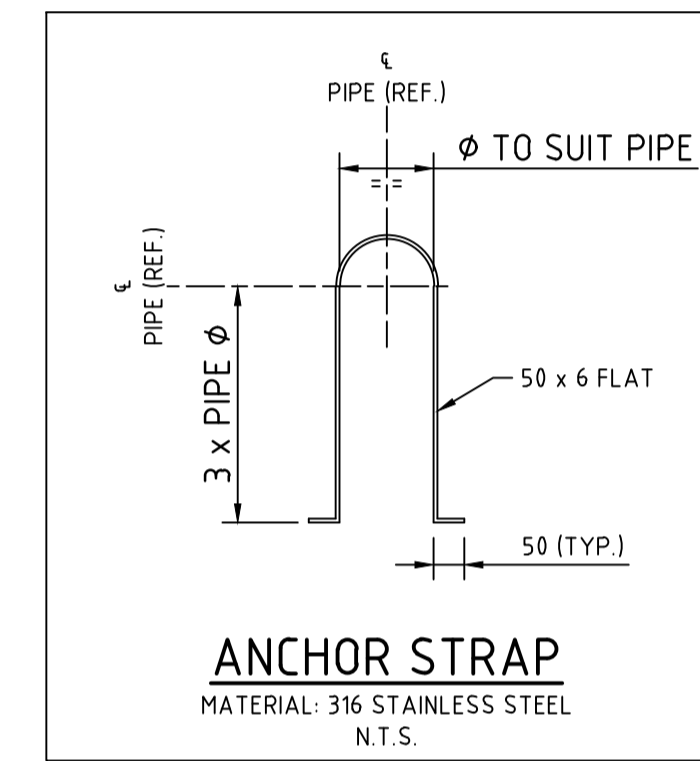
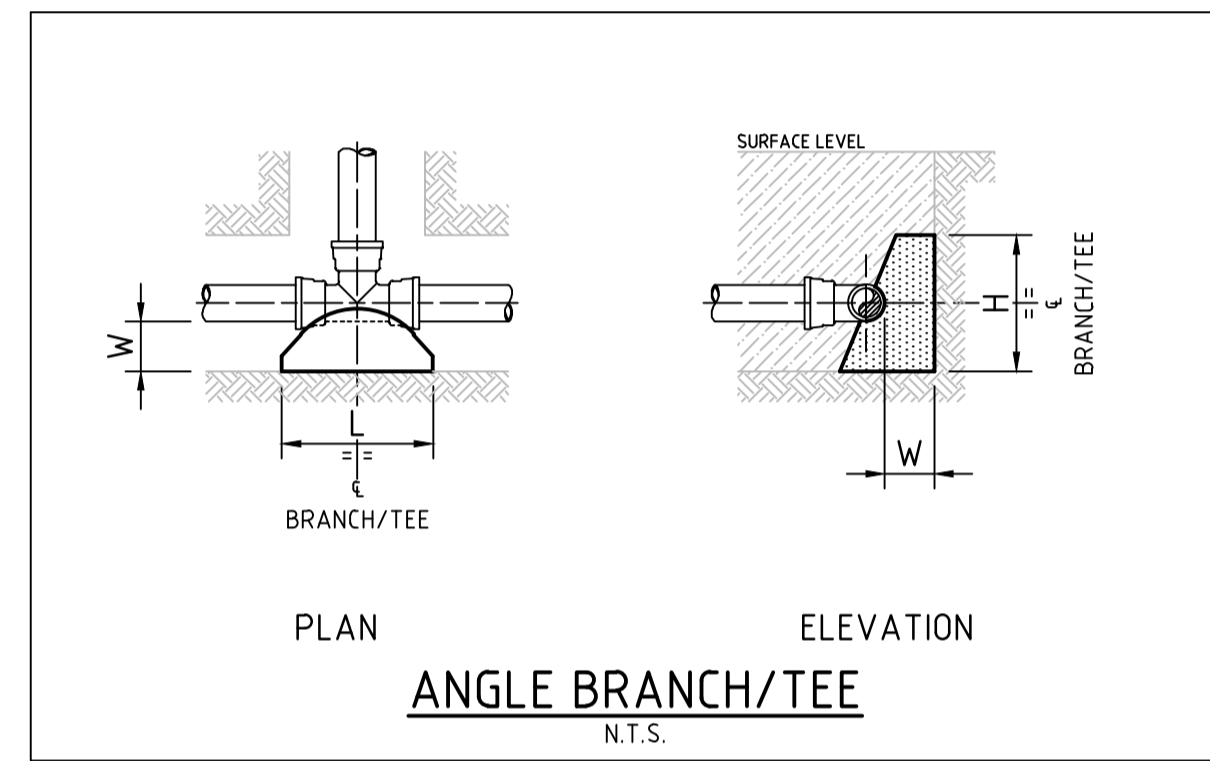
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured red.



**THRUST BLOCK NOTES:**

- "N" DENOTES NOMINAL THRUST AREA TO BE ACHIEVED BY POURING CONCRETE THE FULL LENGTH OF THE FITTING AND EXTENDING FROM THE FLOOR OF THE TRENCH TO NOM. 100mm ABOVE THE FITTING.
- CONCRETE THRUST BLOCKS ARE TO BE PROVIDED FOR ALL FITTINGS IN ACCORDANCE WITH TABLE.
- 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.
- THRUST BLOCKS ARE TO BE CONSTRUCTED SUCH THAT THEY TRANSFER THE THRUST ONTO UNDISTURBED GROUND. THRUST BLOCKS ARE NOT TO INTERFERE WITH OTHER SERVICES.
- 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. MAXIMUM ENCASEMENT TO BE 180°.
- CONCRETE FOR THE THRUST BLOCKS TO BE GRADE S25 USING CEMENT TYPE "SR" TO AS3972. CONCRETE TO BE MECHANICALLY VIBRATED.
- CONCRETE THRUST BLOCKS ARE TO BE CURED FOR A MINIMUM OF 7 DAYS BEFORE BEING SUBJECTED TO ANY THRUST LOAD.
- REFER TO WAT-1205-V FOR GENERAL FITTING THRUST BLOCK ARRANGEMENTS.
- REFER TO WAT-1207-V FOR GENERAL VALVE AND VERTICAL BEND THRUST BLOCK ARRANGEMENTS.
- THRUST BLOCK TO EXTEND 300mm MINIMUM INTO BASE AND SIDE WALLS OF TRENCH.
- PROVIDE 3mm THK. INSERTION RUBBER BETWEEN ANCHOR STRAP AND PIPE BARREL.

TYPE	FITTING	SOIL AHBP (kPa)	DESIGN STP (kPa)	THRUST	TA (m <sup>2</sup> )	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 x (45°, 22.5°, 11.25° & 6°) HORIZONTAL BENDS	100	1500	7.50	0.08	N	N	0.30
3	DN100 SOCKETED STOP VALVE	100	1500	18.00	0.18	1.05	0.44	0.30
4	DN100 FLUSHING HYDRANT	100	1500	18.00	0.18	0.45	0.40	0.30
5	DN100 x 90° HORIZONTAL BEND	100	1500	25.50	0.26	0.55	0.47	0.30
6	DN200 x DN100 TAPER	100	1500	46.50	0.47	1.20	0.78	0.30
7	DN300 x DN100 REDUCING TEE	100	1500	18.00	0.18	0.40	0.45	0.40
8	DN300 FLUSHING HYDRANT	100	1500	161.00	1.41	1.00	1.41	0.40
9	DN300 SOCKETED STOP VALVE	100	1500	161.00	1.41	1.65	0.72	0.45
10	DN375 FLUSHING HYDRANT	100	1500	214.50	2.15	1.20	1.80	0.40
11	DN375 SOCKETED STOP VALVE	100	1500	214.50	2.15	2.00	0.86	0.55
12	DN375 x DN375 EQUAL TEE	100	1500	214.5	2.15	1.20	1.79	0.40
13	DN375 x DN200 REDUCING TEE	100	1500	64.50	0.65	0.67	0.96	0.40
14	DN375 x 90° HORIZONTAL BEND	100	1500	303.00	3.03	1.45	2.09	0.40
15	DN375 x DN200 TAPER	100	1500	150.00	1.50	1.60	1.03	0.35
16	DN300 x 90° HORIZONTAL BEND	100	1500	199.50	2.00	1.20	1.67	0.40
17	DN150 x DN150 WYE	100	1500	37.50	0.38	0.50	0.75	0.30
18	DN150 x DN100 REDUCING TEE	100	1500	18.00	0.18	0.40	0.45	0.30
19	DN200 x DN150 TAPER	100	1500	27.00	0.27	1.20	0.78	0.30



**WORK AS CONSTRUCTED**  
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COMPANY ADWJohnson Pty Ltd  
NAME EWEN B. RANDALL  
SIGNED [Signature] DATE [Date]  
REGISTERED SURVEYOR

COMPANY [Blank]  
NAME [Blank]  
SIGNED [Blank] DATE [Blank]  
CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
PM 20029  
E: 345612.942  
N: 6382878.917  
RL: 77.675m

Co-Ord System: MGA Ground  
MGA Datum: GDA94  
MGA Zone: 56

**APPROVED FOR CONSTRUCTION**  
BY ADW Johnson Pty Ltd  
Date Approved: 23/05/2023

**WORK AS CONSTRUCTED**

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.

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.	
E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.	
0	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	
1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	
2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.	
3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.	
4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.	

**adw Johnson**  
Hunter Office  
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www.adwjohnson.com.au  
ABN 62 129 445 398

**altogether.**

PROPERTY DESCRIPTION  
PROPOSED SUBDIVISION  
STAGE 43  
HUNTLEE

SURVEYED  
Daly,Smith Pty Ltd

DATUM  
GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT  
POTABLE WATER, RECYCLED WATER AND  
PRESSURE SEWER RETICULATION

PLAN TITLE  
THRUST BLOCK DETAILS

PROJECT No. 240037(43) - DISCIPLINE WAC - NUMBER 405 - REV. 4



240037(43)-WAC-406

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.

Point Table				
Point #	Eastings	Northings	Levels	Codes
1	346340.61	6383022.16	66.38	waHYD
2	346318.92	638314.145	67.50	waHYD
3	346269.27	6382993.38	64.29	waHYD
4	346271.15	6382960.02	64.15	waHYD
5	346344.65	6382928.23	68.19	waHYD
6	346337.36	6383003.11	66.19	waHYD
7	346359.30	6382911.36	69.10	waHYD
8	346359.39	6382906.93	69.16	waHYD
9	346344.83	6382837.85	69.54	waHYD
10	346267.00	6382848.84	66.55	waHYD
11	346228.37	6382841.13	65.81	waHYD
12	346238.36	6382781.11	69.00	waHYD
13	346317.91	6382770.26	71.71	waHYD
14	346330.53	6382773.00	71.77	waHYD
15	346348.95	6382825.25	70.25	waHYD
16	346313.52	6382726.51	72.80	waHYD
17	346339.30	6383026.39	66.38	waSV
18	346318.88	638314.019	67.50	waSV
19	346345.63	6382928.18	68.25	waSV
20	346357.06	6382937.83	68.62	waSV
21	346348.41	6382996.23	66.93	waSV
22	346338.35	6383003.20	66.25	waSV
23	346355.02	6382854.35	69.68	waSV
24	346359.37	6382908.44	69.17	waSV
25	346344.07	6382837.99	69.52	waSV
26	346321.93	6382749.04	72.54	waSV
27	346318.88	6382770.09	71.73	waSV
28	346332.13	6382777.18	71.63	waSV
29	346349.18	6382826.30	70.23	waSV
30	346325.74	6383048.24	66.68	waTAP
31	346316.30	6383066.50	66.82	waTAP
32	346312.10	6383082.90	67.01	waTAP
33	346311.56	6383097.74	67.18	waTAP
34	346312.78	6383112.54	67.49	waTAP
35	346313.66	6383127.50	67.53	waTAP
36	346307.64	6383018.38	65.50	waTAP
37	346307.24	6383001.64	65.48	waTAP
38	346290.80	6383020.87	64.91	waTAP
39	346275.92	6383022.91	64.52	waTAP
40	346261.20	6383024.71	64.19	waTAP

Point Table				
Point #	Eastings	Northings	Levels	Codes
41	346273.71	6382989.45	64.53	waTAP
42	346273.71	6382988.98	64.44	waTAP
43	346275.39	6382958.31	64.40	waTAP
44	346275.38	6382958.87	64.32	waTAP
45	346261.21	6382926.36	64.24	waTAP
46	346279.76	6382923.64	64.97	waTAP
47	346296.70	6382921.28	65.84	waTAP
48	346311.61	6382919.06	66.68	waTAP
49	346303.20	6382938.04	65.82	waTAP
50	346350.81	6382953.59	68.06	waTAP
51	346349.03	6382970.39	67.82	waTAP
52	346342.30	6382995.74	67.44	waTAP
53	346352.39	6382866.65	69.60	waTAP
54	346354.23	6382881.47	69.45	waTAP
55	346354.99	6382895.46	69.31	waTAP
56	346353.08	6382910.76	69.12	waTAP
57	346295.08	6382840.68	67.91	waTAP
58	346302.92	6382857.56	67.76	waTAP
59	346288.27	6382859.47	67.19	waTAP
60	346271.63	6382861.83	66.28	waTAP
61	346279.84	6382842.21	67.28	waTAP
62	346279.28	6382842.30	67.22	waTAP
63	346249.42	6382846.95	66.22	waTAP
64	346236.79	6382843.64	66.21	waTAP
65	346256.41	6382864.02	66.06	waTAP
66	346238.75	6382866.10	65.87	waTAP
67	346228.69	6382791.10	68.47	waTAP
68	346240.77	6382785.10	69.04	waTAP
69	346256.34	6382782.42	69.59	waTAP
70	346221.36	6382770.30	68.63	waTAP
71	346238.70	6382767.89	69.11	waTAP
72	346253.81	6382766.05	69.71	waTAP
73	346268.44	6382763.77	70.16	waTAP
74	346271.39	6382780.44	70.14	waTAP
75	346286.38	6382778.78	70.66	waTAP
76	346317.55	6382752.28	72.46	waTAP
77	346332.28	6382789.20	71.38	waTAP
78	346337.16	6382802.60	71.00	waTAP
79	346341.93	6382817.20	70.46	waTAP
80	346344.05	6382830.16	70.02	waTAP

Point Table				
Point #	Eastings	Northings	Levels	Codes
81	346306.53	6382720.60	72.65	waTAP
82	346307.02	6382721.61	72.72	waTAP
83	346294.72	6382693.92	72.35	waTAP
84	346285.06	6382677.04	72.23	waTAP
85	346247.00	6382691.90	70.58	waTAP
86	346231.43	6382698.46	70.13	waTAP
87	346214.50	6382704.85	69.60	waTAP
88	346340.10	6383021.77	66.37	waHYDR
89	346318.38	638314.149	67.53	waHYDR
90	346271.66	6382960.06	64.16	waHYDR
91	346356.63	6382936.78	68.64	waHYDR
92	346348.21	6382994.62	66.95	waHYDR
93	346337.41	6383002.70	66.23	waHYDR
94	346354.35	6382853.65	69.69	waHYDR
95	346358.86	6382906.97	69.17	waHYDR
96	346228.76	6382840.86	65.80	waHYDR
97	346329.91	6382773.62	71.78	waHYDR
98	346313.02	6382726.69	72.81	waHYDR
99	346196.86	6382706.71	69.43	waHYDR
100	346338.72	6383026.16	66.40	waSVR
101	346318.28	638314.028	67.50	waSVR
102	346345.67	6382928.65	68.26	waSVR
103	346356.50	6382937.64	68.64	waSVR
104	346347.95	6382995.82	66.94	waSVR
105	346338.39	6383002.78	66.27	waSVR
106	346354.48	6382854.57	69.70	waSVR
107	346358.77	6382908.29	69.16	waSVR
108	346343.96	6382837.50	69.54	waSVR
109	346321.21	6382749.04	72.58	waSVR
110	346319.05	6382770.55	71.74	waSVR
111	346331.12	6382776.43	71.69	waSVR
112	346348.25	6382825.06	70.27	waSVR
113	346196.68	6382706.15	69.43	waSVR
114	346325.71	6383048.46	66.69	waTAPR
115	346316.26	6383066.80	66.82	waTAPR
116	346312.11	6383083.16	67.01	waTAPR
117	346311.61	6383097.96	67.13	waTAPR
118	346312.82	6383112.76	67.54	waTAPR
119	346313.66	6383127.74	67.53	waTAPR
120	346307.80	6383018.26	65.51	waTAPR

Point Table				
Point #	Eastings	Northings	Levels	Codes
121	346307.41	6383001.60	65.46	waTAPR
122	346291.08	6383020.87	64.91	waTAPR
123	346276.07	6383022.89	64.53	waTAPR
124	346261.42	6383024.64	64.19	waTAPR
125	346273.73	6382989.73	64.51	waTAPR
126	346273.67	6382988.76	64.49	waTAPR
127	346275.39	6382958.11	64.40	waTAPR
128	346275.34	6382959.10	64.35	waTAPR
129	346261.39	6382926.32	64.28	waTAPR
130	346280.02	6382923.62	64.99	waTAPR
131	346296.99	6382921.28	65.85	waTAPR
132	346311.79	6382919.02	66.69	waTAPR
133	346303.44	6382937.97	65.80	waTAPR
134	346350.88	6382953.28	68.07	waTAPR
135	346349.11	6382970.13	67.82	waTAPR
136	346342.35	6382955.54	67.46	waTAPR
137	346352.32	6382866.43	69.63	waTAPR
138	346354.10	6382881.20	69.50	waTAPR
139	346354.98	6382895.15	69.39	waTAPR
140	346352.96	6382910.56	69.10	waTAPR
141	346295.30	6382840.58	67.92	waTAPR
142	346303.15	6382857.49	67.70	waTAPR
143	346288.42	6382859.42	67.20	waTAPR
144	346271.82	6382861.78	66.27	waTAPR
145	346280.18	6382842.16	67.28	waTAPR
146	346278.96	6382842.29	67.19	waTAPR
147	346249.68	6382846.86	66.23	waTAPR
148	346236.58	6382843.74	66.20	waTAPR
149	346256.63	6382864.00	66.08	waTAPR
150	346238.92	6382866.12	65.86	waTAPR
151	346228.43	6382791.18	68.41	waTAPR
152	346241.02	6382785.05	69.10	waTAPR
153	346256.58	6382782.41	69.65	waTAPR
154	346221.50	6382770.32	68.65	waTAPR
155	346239.03	6382767.78	69.15	waTAPR
156	346254.11	6382765.97	69.73	waTAPR
157	346268.80	6382763.71	70.19	waTAPR
158	346271.67	6382780.41	70.15	waTAPR
159	346286.60	6382778.71	70.60	waTAPR
160	346317.64	6382752.59	72.45	waTAPR

**WORK AS CONSTRUCTED**  
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COMPANY ADWJohnson Pty Ltd  
 NAME EWEN B. RANDALL  
 SIGNED *E. Randall* DATE REGISTERED SURVEYOR

COMPANY  
 NAME  
 SIGNED DATE CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
 PM 20029  
 E: 345612.942 Co-Ord System: MGA Ground  
 N: 6382878.917 MGA Datum: GDA94  
 RL: 77.675m MGA Zone: 56

**APPROVED FOR CONSTRUCTION**  
 BY ADW Johnson Pty Ltd  
 Date Approved: 23/05/2023

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.		 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	PROPOSED SUBDIVISION STAGE 43 HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	FITTINGS DETAILS	240037(43)	WAC	406	4
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.									
E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.									
0	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.									
1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.									
2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.									
3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.									
4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.									

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 43 Water and Sewer\240037(43)-huntlee-g.s.dwg ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE  
 Plotted By: glenns Plot Date: 22/02/24 - 16:30 Cad File: N:\240072\DWG\Water & Sewer\Stage 43-WAC\240037(43)-WAC-406.dwg





Point Table				
Point #	Eastings	Northings	Levels	Codes
161	346332.18	6382788.90	71.43	waTAPR
162	346337.05	6382802.40	71.01	waTAPR
163	346341.84	6382816.98	70.50	waTAPR
164	346344.01	6382829.94	70.07	waTAPR
165	346306.46	6382720.37	72.66	waTAPR
166	346307.07	6382721.86	72.75	waTAPR
167	346294.80	6382694.16	72.36	waTAPR
168	346284.99	6382676.81	72.22	waTAPR
169	346247.30	6382691.76	70.62	waTAPR
170	346231.63	6382698.38	70.10	waTAPR
171	346214.80	6382704.76	69.68	waTAPR
172	346325.37	6383048.86	66.75	seBDYKIT
173	346315.85	6383067.30	66.97	seBDYKIT
174	346311.78	6383083.58	67.02	seBDYKIT
175	346311.56	6383098.38	67.21	seBDYKIT
176	346312.62	6383113.32	67.72	seBDYKIT
177	346313.50	6383128.22	67.72	seBDYKIT
178	346309.38	6383019.82	66.17	seBDYKIT
179	346308.41	6382999.63	66.13	seBDYKIT
180	346292.50	6383022.14	65.01	seBDYKIT
181	346277.70	6383024.31	64.58	seBDYKIT
182	346262.81	6383026.19	64.36	seBDYKIT
183	346275.07	6382991.02	64.83	seBDYKIT
184	346274.69	6382987.21	64.81	seBDYKIT
185	346276.98	6382960.40	64.81	seBDYKIT
186	346276.57	6382956.59	64.82	seBDYKIT
187	346262.41	6382924.97	64.84	seBDYKIT
188	346281.20	6382922.38	65.35	seBDYKIT
189	346297.99	6382919.96	66.18	seBDYKIT
190	346312.94	6382917.77	66.97	seBDYKIT
191	346304.80	6382939.70	66.27	seBDYKIT
192	346349.57	6382951.80	68.18	seBDYKIT
193	346347.75	6382968.71	67.89	seBDYKIT
194	346341.32	6382996.96	67.64	seBDYKIT
195	346351.00	6382865.33	69.74	seBDYKIT
196	346352.59	6382879.94	69.57	seBDYKIT
197	346353.49	6382894.01	69.41	seBDYKIT
198	346352.89	6382911.49	69.18	seBDYKIT
199	346296.23	6382839.08	68.13	seBDYKIT
200	346304.78	6382858.47	67.66	seBDYKIT

Point Table				
Point #	Eastings	Northings	Levels	Codes
201	346289.88	6382860.47	67.03	seBDYKIT
202	346273.13	6382862.96	66.36	seBDYKIT
203	346281.38	6382841.37	67.54	seBDYKIT
204	346277.57	6382841.89	67.40	seBDYKIT
205	346250.72	6382845.64	66.45	seBDYKIT
206	346235.82	6382843.77	66.33	seBDYKIT
207	346258.12	6382865.00	66.22	seBDYKIT
208	346240.23	6382867.43	65.92	seBDYKIT
209	346227.81	6382791.82	68.50	seBDYKIT
210	346242.50	6382786.15	69.21	seBDYKIT
211	346257.19	6382782.64	69.64	seBDYKIT
212	346222.47	6382768.63	69.10	seBDYKIT
213	346239.89	6382766.16	69.39	seBDYKIT
214	346255.02	6382764.07	70.01	seBDYKIT
215	346269.92	6382761.94	70.37	seBDYKIT
216	346273.21	6382781.87	70.18	seBDYKIT
217	346288.10	6382779.80	70.68	seBDYKIT
218	346316.62	6382753.34	72.59	seBDYKIT
219	346330.59	6382788.17	71.71	seBDYKIT
220	346335.54	6382801.70	71.02	seBDYKIT
221	346340.31	6382816.06	70.61	seBDYKIT
222	346343.73	6382830.84	70.10	seBDYKIT
223	346304.91	6382719.73	72.56	seBDYKIT
224	346306.28	6382723.41	72.58	seBDYKIT
225	346293.92	6382695.90	72.44	seBDYKIT
226	346283.67	6382676.70	72.20	seBDYKIT
227	346248.97	6382692.61	70.63	seBDYKIT
228	346233.17	6382699.32	70.13	seBDYKIT
229	346216.57	6382705.94	69.75	seBDYKIT
230	346317.18	6383140.05	67.60	seFP
231	346271.66	6382985.45	64.41	seFP
232	346273.15	6382961.70	64.24	seFP
233	346354.98	6382938.69	68.72	seFP
234	346353.00	6382856.60	69.75	seFP
235	346236.14	6382864.26	66.02	seFP
236	346225.14	6382788.02	68.29	seFP
237	346330.42	6382778.30	71.75	seFP
238	346317.19	6383141.65	67.71	seSV
239	346353.14	6382932.11	68.83	seSV
240	346355.11	6382936.39	68.78	seSV

Point Table				
Point #	Eastings	Northings	Levels	Codes
241	346346.26	6382995.84	67.04	seSV
242	346344.60	6382999.32	66.68	seSV
243	346352.74	6382854.37	69.89	seSV
244	346349.39	6382850.76	69.82	seSV
245	346319.71	6382771.79	71.72	seSV
246	346329.74	6382776.60	71.82	seSV
247	346288.32	6382675.90	72.22	seSV
248	346263.23	6383135.40	67.14	seTANK4301
249	346261.08	6383120.56	66.86	seTANK4302
250	346258.86	6383105.63	66.44	seTANK4303
251	346256.58	6383090.90	65.83	seTANK4304
252	346254.44	6383076.13	65.14	seTANK4305
253	346251.87	6383059.17	64.23	seTANK4306
254	346308.63	6383019.88	66.16	seTANK4307
255	346291.80	6383022.26	65.03	seTANK4308
256	346276.97	6383024.36	64.75	seTANK4309
257	346262.03	6383026.30	64.58	seTANK4310
258	346274.95	6382990.18	64.81	seTANK4311
259	346274.79	6382988.00	64.83	seTANK4312
260	346307.67	6382999.72	66.18	seTANK4313
261	346341.78	6382997.60	67.64	seTANK4314
262	346347.67	6382969.48	67.90	seTANK4315
263	346349.47	6382952.59	68.15	seTANK4316
264	346304.05	6382939.82	66.29	seTANK4317
265	346276.85	6382959.58	64.84	seTANK4318
266	346276.75	6382957.42	64.89	seTANK4319
267	346261.72	6382925.04	64.82	seTANK4320
268	346280.42	6382922.46	65.43	seTANK4321
269	346297.28	6382920.03	66.17	seTANK4322
270	346312.20	6382917.86	66.97	seTANK4323
271	346353.47	6382911.92	69.20	seTANK4324
272	346353.53	6382894.77	69.40	seTANK4325
273	346352.69	6382880.81	69.61	seTANK4326
274	346351.05	6382866.09	69.73	seTANK4327
275	346303.98	6382858.57	67.85	seTANK4328
276	346289.13	6382860.60	67.20	seTANK4329
277	346272.33	6382863.04	66.51	seTANK4330
278	346257.33	6382865.09	66.22	seTANK4331
279	346239.46	6382867.56	66.07	seTANK4332
280	346235.21	6382844.23	66.42	seTANK4333

Point Table				
Point #	Eastings	Northings	Levels	Codes
281	346250.01	6382845.74	66.45	seTANK4334
282	346278.29	6382841.78	67.46	seTANK4335
283	346280.68	6382841.43	67.55	seTANK4336
284	346295.52	6382839.24	68.16	seTANK4337
285	346344.35	6382831.22	70.14	seTANK4338
286	346340.57	6382816.80	70.64	seTANK4339
287	346335.73	6382802.41	71.15	seTANK4340
288	346330.67	6382788.84	71.72	seTANK4341
289	346287.28	6382779.83	70.84	seTANK4342
290	346272.40	6382782.00	70.34	seTANK4343
291	346261.14	6382810.52	68.70	seTANK4344
292	346241.70	6382786.24	69.24	seTANK4345
293	346227.02	6382791.68	68.53	seTANK4346
294	346221.75	6382768.65	69.12	seTANK4347
295	346239.25	6382766.28	69.43	seTANK4348
296	346254.25	6382764.12	70.03	seTANK4349
297	346269.16	6382762.03	70.38	seTANK4350
298	346317.28	6382753.70	72.62	seTANK4351
299	346306.04	6382722.73	72.58	seTANK4352
300	346305.16	6382720.43	72.55	seTANK4353
301	346293.74	6382695.17	72.49	seTANK4354
302	346283.87	6382675.91	72.34	seTANK4355
303	346248.32	6382692.94	70.77	seTANK4356
304	346232.59	6382699.63	70.25	seTANK4357
305	346215.82	6382706.15	69.79	seTANK4358

240037(43)-WAC-407

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.

**WORK AS CONSTRUCTED**

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 16/02/2024 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	EWEN B. RANDALL	NAME	
SIGNED	<i>E. Randall</i>	SIGNED	
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM	20029	Co-Ord System	MGA Ground
E	345612.942		MGA Datum: GDA94
N	6382878.917		MGA Zone: 56
RL	77.675m		

APPROVED FOR CONSTRUCTION  
BY ADW Johnson Pty Ltd  
Date Approved: 23/05/2023

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	
A	17.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.		<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>		PROPOSED SUBDIVISION STAGE 43 HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
D	13.04.2023	ALTOGETHER COMMENTS	G.S.	C.S.	G.S.	C.B.					
E	18.05.2023	CLIENT COMMENTS	G.S.	C.H.	G.S.	C.B.					
0	23.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.					
1	09.06.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.					
2	07.08.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.					
3	14.11.2023	FOR CONSTRUCTION - LOT 4333 SERVICE RELOCATIONS	G.S.	C.H.	G.S.	C.B.					
4	14.11.2024	WORK AS CONSTRUCTED	G.S.	T.B.	G.S.	B.R.					