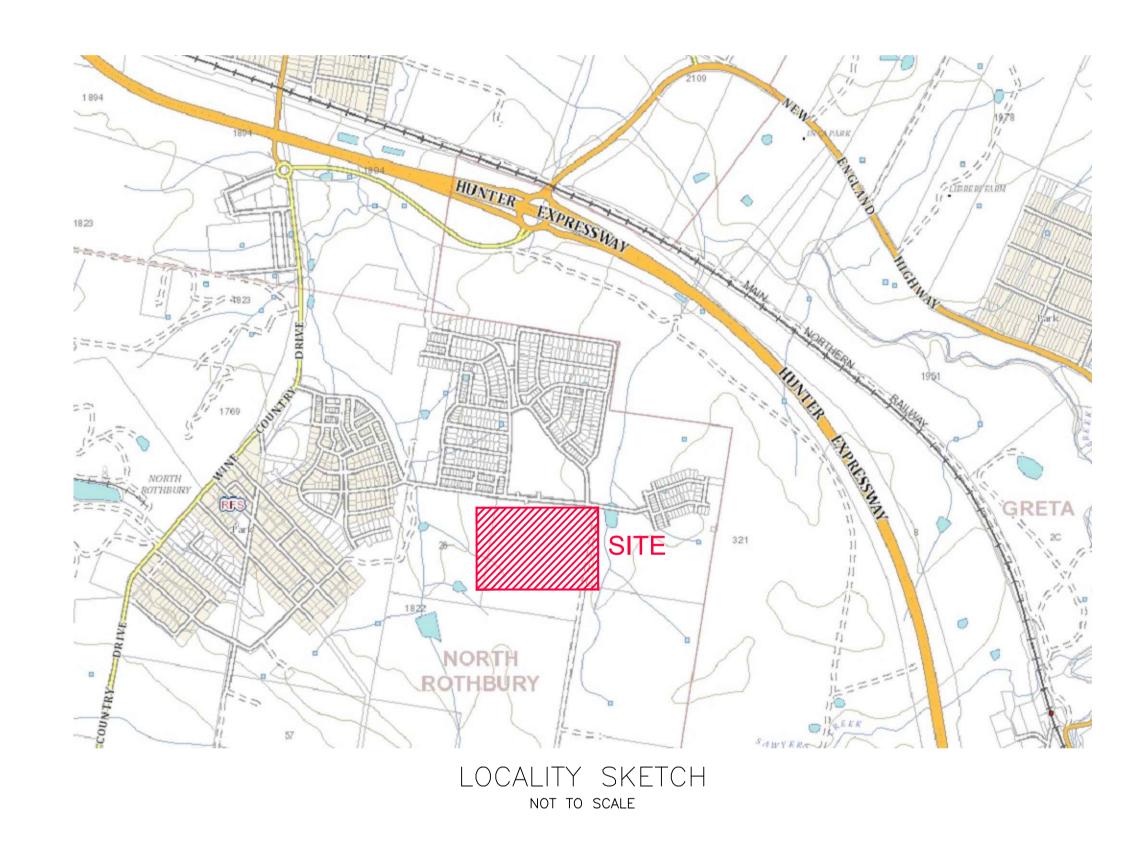


# PROPOSED SUBDIVISION STAGE 24 HUNTLEE



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# WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 25/03/2022 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 MATHEW DAVID LONDON mand DATE 30/03/2022 SIGNED

DATE ....../....... CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS Co-Ord System: MGA Ground MGA Datum: GDA94 MGA Zone: 56 E: 345 612. 942 N: 6 382 878. 917

RL: 77.675m

REGISTERED SURVEYOR

APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd

Date Approved:07/07/2021

RE	V. [	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY SCALES			CLIENT	PROPERTY DESCRIPTION		PROJECT POTABLE W	ATER, RECYCLED W	ATER AND	
А	29.	.03.2021	PRELIMINARY ISSUE	G.S.	C.B.	T.S.	C.B.		Hunter Office				PRESSU	RE SEWER RETICUL	ATION	
- <b>  </b> B			FOR APPROVAL	G.S.	C.B.	T.S.	C.B.		Unit 7/335 Hillsborough Rd		PROPOSED	SUBDIVISION	PLAN TITLE			
<b> </b> C			SURFACE AND SEWER POT DETAILS UPDATE	G.S.	C.B.	T.S.	C.B.		Warners Bay N.S.W. 2282	altogothor	STAC			R SHEET, LOCALITY I	ΟΙ ΔΝΙ	
			CONSTRUCTION ISSUE	G.S.	C.B.	T.S.	C.B.		Phone: (02) 4978 5100 Fax: (02) 4978 5199	attogether.		TLEE		& DRAWING INDEX	LAN	
			WASTE WATER COLLECTION TANK LEVEL DETAILS UPDATE	G.S.	C.B.	1.S.	C.B.	<b>uuw</b>	email: hunter@adwjohnson.com.au		TION	1666		& DRAWING INDEX		
<b>∃</b>			POT SIZE ALTERATION (SHEET 015 - LOT 2439)	G.S.	C.B.	1.5. T.C	C.B.		www.adwiohnson.com.au							
<b>1</b>	30.0	03.2022	WORK AS CONSTRUCTED	1.0.	3.3.	1.5.	C.B.	<b>johnson</b>			SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
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#### PRESSURE SEWER NOTES

REQUIREMENTS.

CLEARANCE TABLE ADJACENT.

- 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.
- 2. 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 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.
- 5. ALL POLYETHYLENE MAINS ≤ DN200 SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS ALL POLYETHYLENE MAINS ≥ DN200 SHALL BE JOINED USING BUTTWELD JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS
- 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
- MAINS CROSSING UNDER EXISTING DRIVEWAYS (SEALED, PAVED OR DECORATIVE) SHALL BE CONDUCTED BY UNDER BORING ONLY UNLESS PERMISSION IS GRANTED BY THE AFFECTED PROPERTY OWNER.
- 8. MAINS WITHIN 2.0m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE ALTOGETHER REPRESENTATIVE).
- ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSAA PRODUCT SPECIFICATION WSA-PS350 AND WSA-PS351.
- 10. ALL BENDS SHALL BE ELECTROFUSION OR BUTT WELD SWEEP BENDS. FABRICATED BENDS SHALL NOT BE USED IN LIEU. KNUCKLE ELBOWS ARE NOT PERMITTED.
- 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).
- 12. ALL HOUSE SERVICE LATERALS SHALL BE DN40 (PE100 PN16).
- 13. FLUSHING PITS SHALL CONFORM WITH ALTOGETHER STANDARD DRAWINGS. REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION.

MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS.

- SMALL MAINS (≤ DN110) <u> http://information.altogethergroup.com.au/governance/Land Housing/PSS-1017A-FS.pdf</u>
- LARGE MAINS (> DN110)
- http://information.altogethergroup.com.au/governance/Land\_Housing/PSS-1017B-FS.pdf
- 14. LOCALISED DEEPENING OF MAINS MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION. THE CONTRACTOR SHALL ENSURE THAT THE AIR VALVE OFFTAKE IS LOCATED AT A HIGH POINT (NATURAL OR ARTIFICIAL) IN THE MAIN (i.e. MAIN SHALL GRADE DOWNWARDS EITHER SIDE OF THE AIR VALVE).
- 15. DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
- 16. ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- 17. DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
- 18. ALL VALVES SHALL BE RESILIENT SEATED SLUICE VALVES (ANTI-CLOCKWISE CLOSING). SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207 AND SHALL COMPLY WITH ALTOGETHER STANDARD DRAWING PSS-1015-FS.
- 19. ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 07-2007 VERSION 1.1.
- 20. FOR LOTS WITH TANKS IN THE REAR.
- 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).
- 21. 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.
- 22. UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
- 23. PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE
- 24. BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED
- 25. THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE PRESSURE SEWER CODE OF AUSTRALIA (CLAUSE 21.3.4) 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.
- 26. 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.
- 27. 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.
- 28. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- 29. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
- 30. ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.
- 31. PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
- 32. WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.

#### POTABLE WATER AND RECYCLED WATER NOTES:

- 1. 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).
- 2. POTABLE WATER SHALL BE UTILISED FOR FIRE FIGHTING PURPOSES.
- 3. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, SHALL CONFORM TO THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.
- 4. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO 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.
- 5. THE CONSTRUCTOR SHALL VERIFY WITH THE SITE SUPERVISOR THE POSITION AND LEVEL OF ALL EXISTING AND PROPOSED BOUNDARIES PERTINENT TO THE INFRASTRUCTURE INSTALLATIONS.
- 6. MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. 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.
- 7. ALL POTABLE WATERMAINS TO BE BLUE PVC-M (PN16).

PER THE CLEARANCE TABLE ADJACENT.

ALL RECYCLED WATERMAINS 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.

THE CONTRACTOR SHALL ENSURE THAT ALL RECYCLED WATER MAINS AND PRESSURE SEWER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS

- RECYCLED WATER MAINS SHALL ALWAYS BE LOWER THAN POTABLE WATER MAINS. 150mm VERTICAL CLEARANCE BETWEEN POTABLE WATER AND RECYCLED WATER MAINS SHALL BE PROVIDED.
- 8. MAXIMUM JOINT DEFLECTIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- 9. LOCALLY LOWER PIPEWORK IN VICINITY OF STOP VALVES TO ENSURE SUFFICIENT COVER IS MAINTAINED OVER VALVES. 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/TRENCHFILL TYPE AND THE NED FOR TRENCH DRAINAGE/BULKHEADS.
- 11. DURING CONSTRUCTION, ALL OPEN ENDS OF PIPES SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
- 12. HYDRANTS, STOP VALVES AND ALL OTHER FITTINGS TO BE THE SAME SIZE AS THE THROUGH WATER MAIN AND ANTI CLOCKWISE CLOSING.
- 13. HYDRANTS MUST NOT BE INSTALLED IN POTENTIAL DRIVEWAY LOCATIONS. 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.
- 14. THRUST BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH WAT-1205.
- 15. ALL PROPERTY (MAIN TO METER) SERVICE CONNECTIONS SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH ALTOGETHER REQUIREMENTS. REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION. SINGLE SERVICE: <a href="http://information.altogethergroup.com.au/governance/Land\_Housing/WAT-1854-FS.pdf">http://information.altogethergroup.com.au/governance/Land\_Housing/WAT-1854-FS.pdf</a>
- http://information.altogethergroup.com.au/governance/Land\_Housing/WAT-1855-FS.pdf 16. PROPERTY SERVICE CONNECTION IS SHALL BE FLUSHED AND LOCKED (BY THE ALTOGETHER REPRESENTATIVE) FOLLOWING SUCCESSFUL PRESSURE
- 17. SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc. SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- 18. ALL MAINS SHALL BE PRESSURE TESTED TO 1500kPa IN ACCORDANCE WITH CLAUSE 19.4 OF WSA03-2011 (SYDNEY WATER EDITION 2014).
- ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- 20. WATER QUALITY TESTING SHALL BE IN ACCORDANCE WITH WSA 03-2011-3.1(SYDNEY WATER EDITION-2014. CLAUSE 19.7).
- 21. THE CONSTRUCTOR SHALL PROVIDE HUNTLEE WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE . CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE ALTOGETHER REPRESENTATIVE.
- 22. UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
- 23. PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE
- 24. BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED
- 25. MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY WSA03-2011 (SYDNEY WATER EDITION 2014) (CLAUSE 19.3.5):
  - <u>TRAFFICABLE</u> 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.
- 26. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
- 27. PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
- 28. WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.
- 29. WHERE THE PIPE GRADE EXCEEDS 5%, TRENCHSTOPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WAT-1209 AND WAT-1210 AT THE SPACING OF 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:

- 1. 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.
- 2. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORK AND SHALL REPAIR ANY DAMAGE CAUSED TO SUCH SERVICES DURING THE COURSE OF WORKS. 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.
- 4. SUITABLE PROTECTION TO EXISTING ROAD PAVEMENT, KERB AND GUTTER, FOOTPATHS AND ANY EXISTING FEATURES SHALL BE PROVIDED UNTIL THE CONSTRUCTION WORKS ARE COMPLETED.

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#### CLEARANCES BETWEEN PIPELINES AND UNDERGROUND SERVICES

UTILITY	MINIMUM H CLEARA	MINIMUM VERTICAL	
(EXISTING OR PROPOSED SERVICE)	NEW MA	CLEARANCE (mm)	
	≤ DN200	≥ DN200	
WATER MAINS > DN375	600	60	300
WATER MAINS < DN375	300 4	600	150
GAS MAINS	300 4	600	150
TELECOMMUNICATION CONDUITS AND CABLES	300 4	600	150
ELECTRICITY CONDUITS AND CONDUITS	200	1000	225 <sup>8</sup>
STORMWATER DRAINS	300 4	600	150 %
SEWERS (GRAVITY)	1000 6 / 600	1000 <sup>6</sup> / 600	500 °
SEWERS (PRESSURE AND VACUUM)	600	600	300 9
KERBS	150	600 <sup>5</sup>	150 (WHERE POSSIBLE)

- 1. VERTICAL CLEARANCES APPLY WHERE PIPELINES CROSS OTHER UTILITY SERVICES, EXCEPT IN THE CASE OF WATER/SEWER MAINS WHEN A VERTICAL SEPARATION SHALL ALWAYS BE MAINTAINED, EVEN WHEN THE PRESSURE SEWER AND WATER MAIN ARE PARALLEL. THE PRESSURE SEWER SHOULD ALWAYS BE LOCATED BELOW THE WATER MAIN TO MINIMISE THE POSSIBILITY OF BACKFLOW CONTAMINATION IN THE EVENT OF A PRESSURE MAIN BREAK.
- WATER MAINS INCLUDES MAINS SUPPLYING BOTH POTABLE AND RECYCLED WATER.
- 3. FOR AREAS WITH EXISTING WATER RETICULATION, CLEARANCES CAN BE FURTHER REDUCED TO 600mm WITH THE APPROVAL OF THE WATER AUTHORITY.
- 4. CLEARANCES CAN BE FURTHER REDUCED TO 150mm FOR DISTANCES UP TO 2.0m WHEN PASSING INSTALLATIONS SUCH AS POLES, PITS, AND SMALL STRUCTURES, PROVIDING THE STRUCTURE IS NOT DE-STABILISED IN THE PROCESS.
- 5. 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.
- 6. 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.
- 7. FOR PRESSURE SEWER LATERALS, MINIMUM VERTICAL CLEARANCES MAY BE REDUCED TO 150mm PROVIDING THERE IS NO JOINT IN THE LATERAL WITHIN 500mm OF EITHER SIDE OF THE SERVICE BEING
- 8. AN ADDITIONAL CLEARANCE FROM HIGH VOLTAGE ELECTRICAL INSTALLATIONS SHOULD BE MAINTAINED ABOVE THE CONDUITS OR CABLES TO ALLOW FOR A PROTECTIVE BARRIER AND MARKING TO BE PROVIDED.
- 9. WATER MAINS SHOULD ALWAYS CROSS OVER SEWERS AND STORMWATER DRAINS. FOR CASES WHERE THERE IS NO ALTERNATIVE AND THE MAIN MUST CROSS UNDER THE SEWER, THE DESIGN SHALL NOMINATE AN APPROPRIATE PROTECTION TREATMENT (JOINT-FREE IN THE VICINITY OF THE SEWER).

SHOULD THE RECOMMENDED CLEARANCES NOT BE ACHIEVED. NOTIFICATION SHALL BE CONVEYED TO THE ALTOGETHER REPRESENTATIVE IN WRITING.

#### WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 25/03/2022 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 ADWJohnson Pty Ltd NAME MATHEW DAVID LONDON Man DATE 30/03/2022 SIGNED

DATE ....../...../.... CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS Co-Ord System: MGA Ground 345 612. 942 MGA Datum: GDA94 6 382 878. 917 MGA Zone: 56 77.675m

REGISTERED SURVEYOR

APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd Date Approved:07/07/2021

_ RE	EV. DATE A 29.03.2021	AMENDMENT PRELIMINARY ISSUE	DRAWN CHECK DESIGN G.S. C.B. T.S.	VERIFY SCALES C.B.		Hunter Office	CLIENT	PROPERTY DESCRIPTION			VATER, RECYCLED WATER, RECYCLED WATER, RECYCLED WA		
- C C C 1 1 2	06.06.2021 07.07.2021 1 24.08.2021 24.09.2021	FOR APPROVAL SURFACE AND SEWER POT DETAILS UPDATE CONSTRUCTION ISSUE WASTE WATER COLLECTION TANK LEVEL DETAILS UPDATE POT SIZE ALTERATION (SHEET 015 — LOT 2439)	G.S. C.B. T.S. G.S. C.B. T.S. G.S. C.B. T.S. C.B. T.S. C.B. T.S.	C.B.	adw	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	altogether.	STA	SUBDIVISION GE 24 ITLEE	PLAN TITLE	GENERAL NOTES		
DES	30.03.2022 SIGN FILE N: \	WORK AS CONSTRUCTED	I.B. S.S. T.S.	C.B.  ALL DIMENSIONS ARE IN METER	iohnson	www.adwjohnson.com.au ABN 62 129 445 398		SURVEYED  DALY.SMITH Pty Ltd	DATUM MGA56 GDA94 — A.H.D.	PROJECT No. 240037(24)	DISCIPLINE  - WAC -	NUMBER 002	RE'







THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 25/03/2022 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 MATHEW DAVID LONDON NAME

MATHEW DAVID LONDON NAME

Mand DATE 30/03/2022 SIGNED DATE ...../....../......

REGISTERED SURVEYOR CONSTRUCTION MANAGER

## ORIGIN OF W.A.C. LEVELS

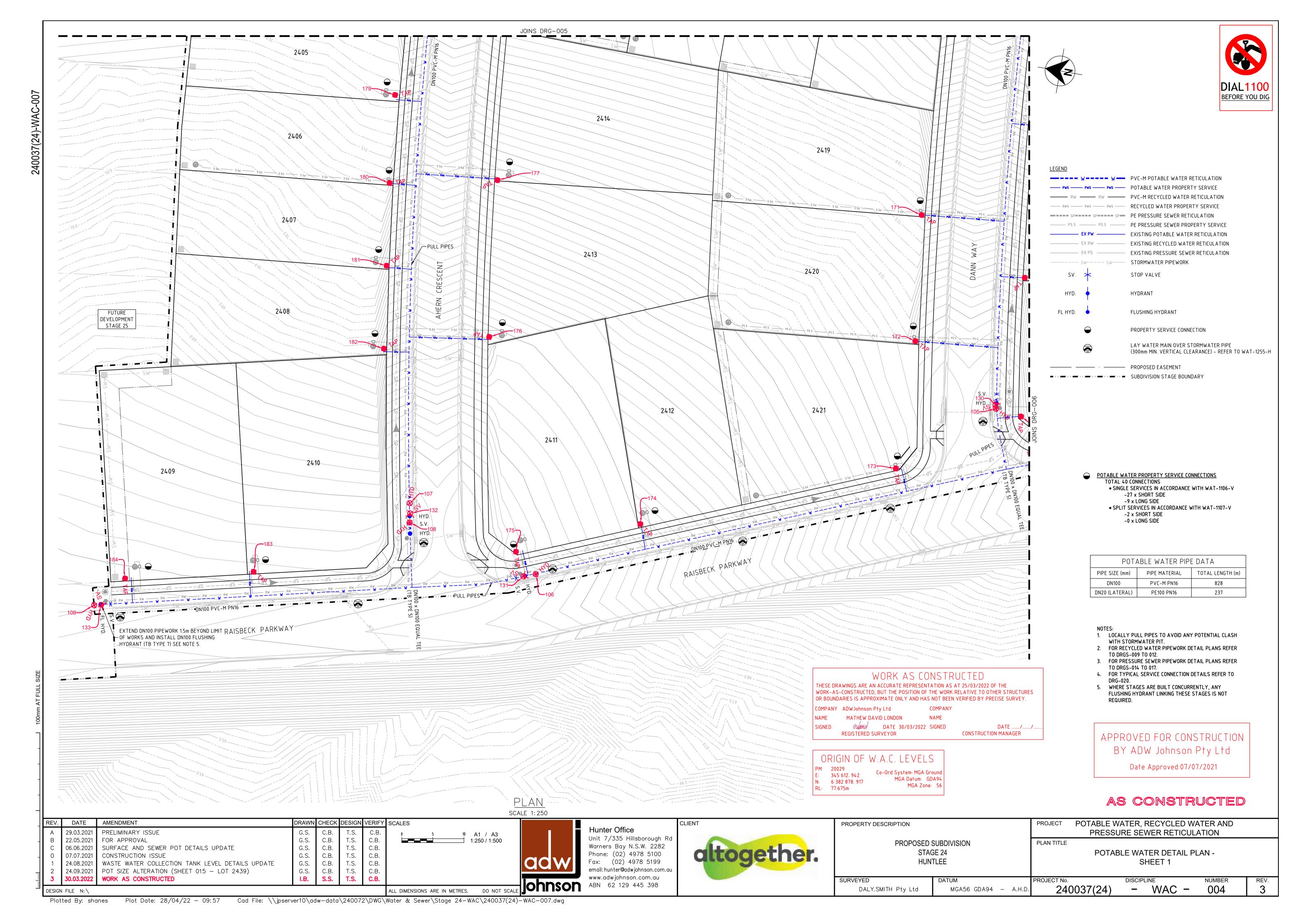
PM 20029
E: 345 612. 942
N: 6 382 878. 917
RL: 77.675m

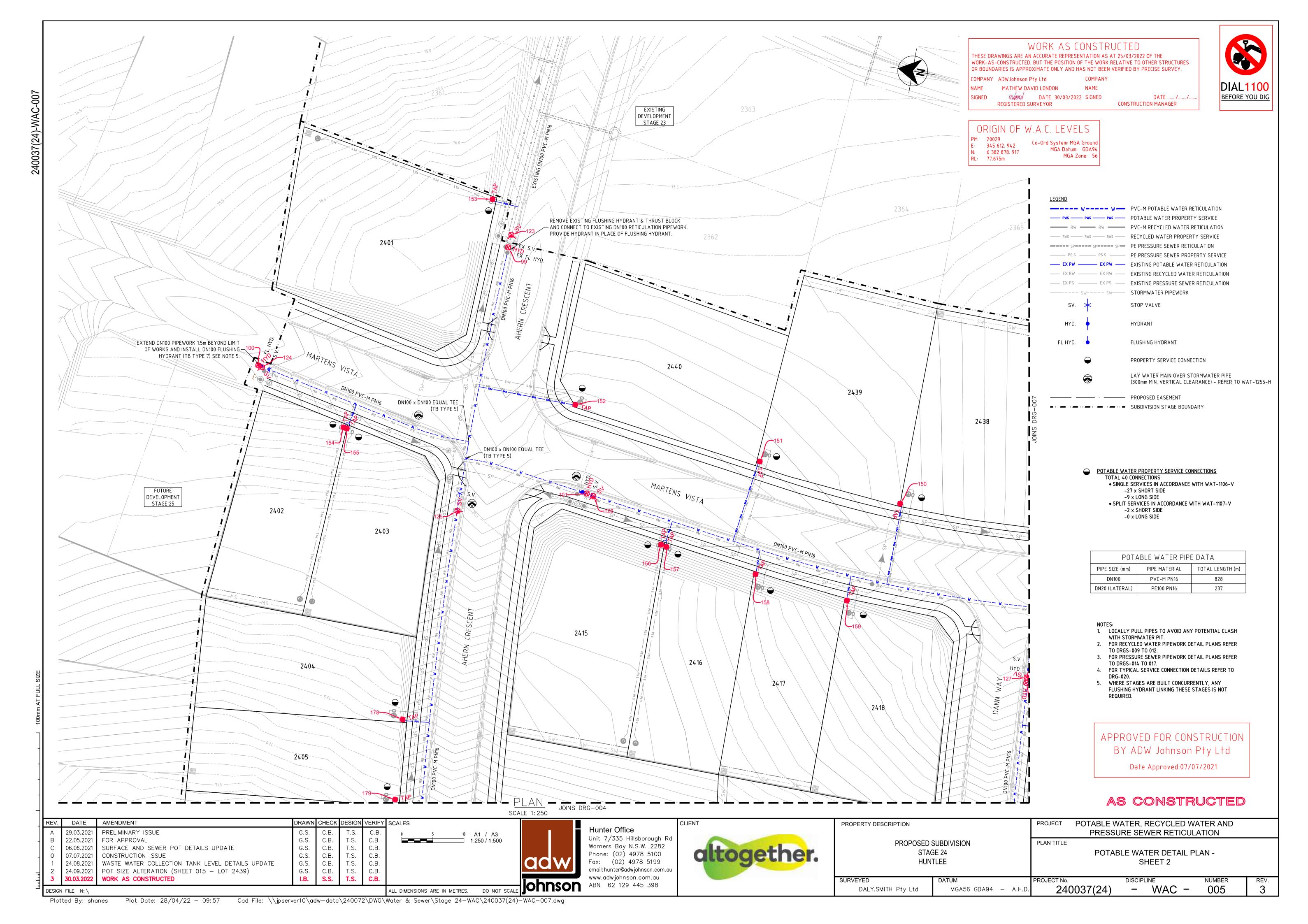
Co-Ord System: MGA Ground
MGA Datum: GDA94
MGA Zone: 56

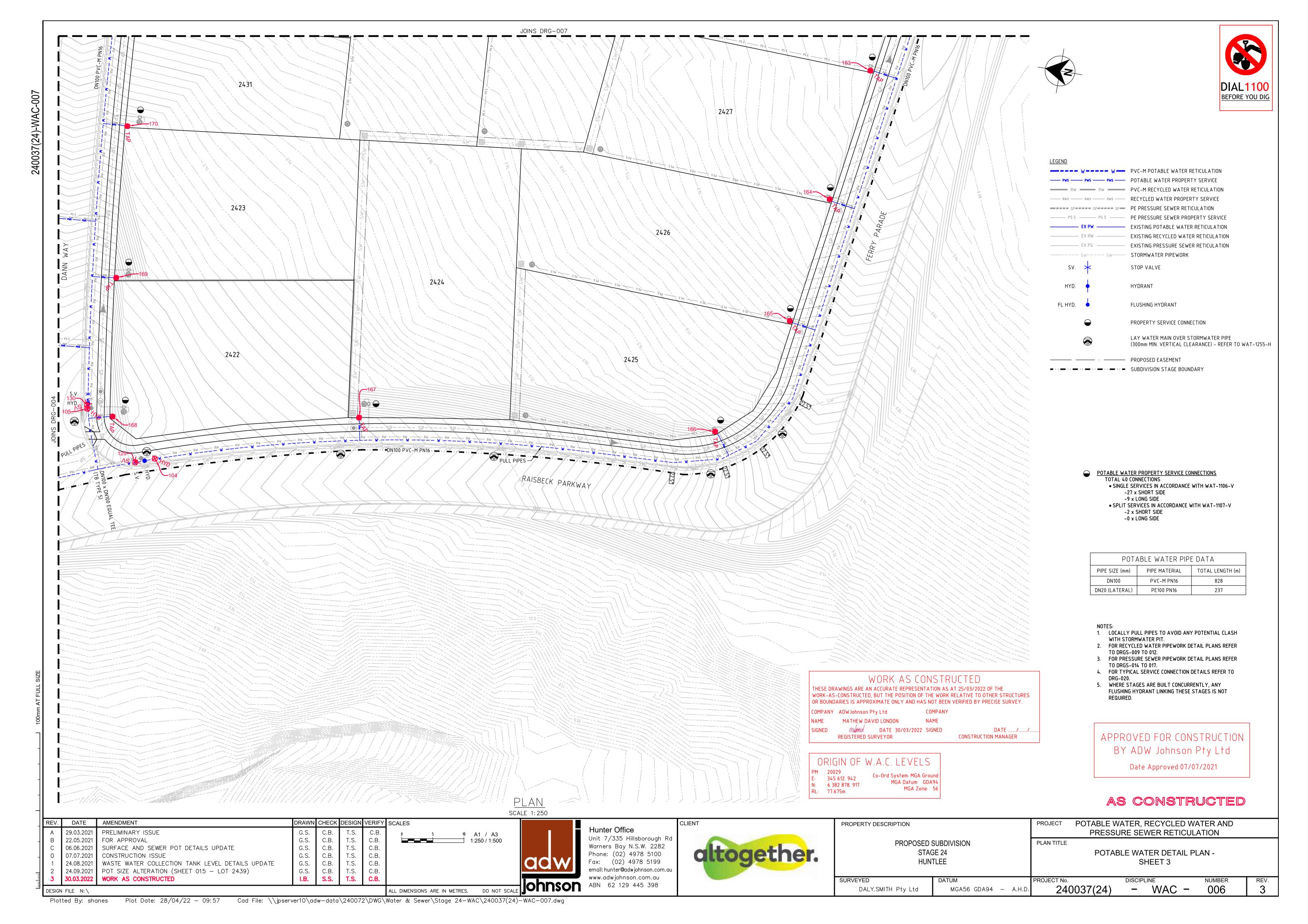
APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd

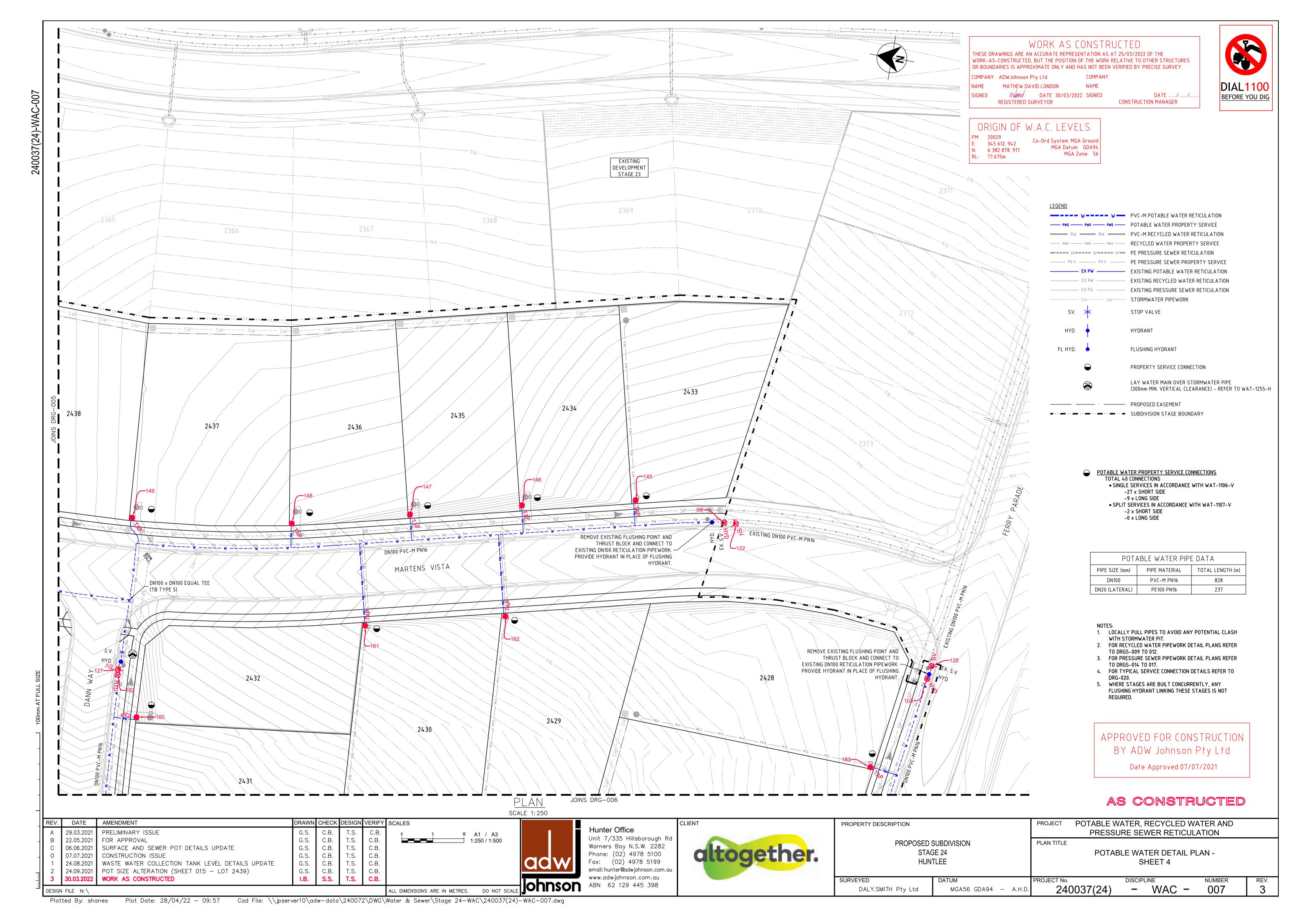
Date Approved:07/07/2021

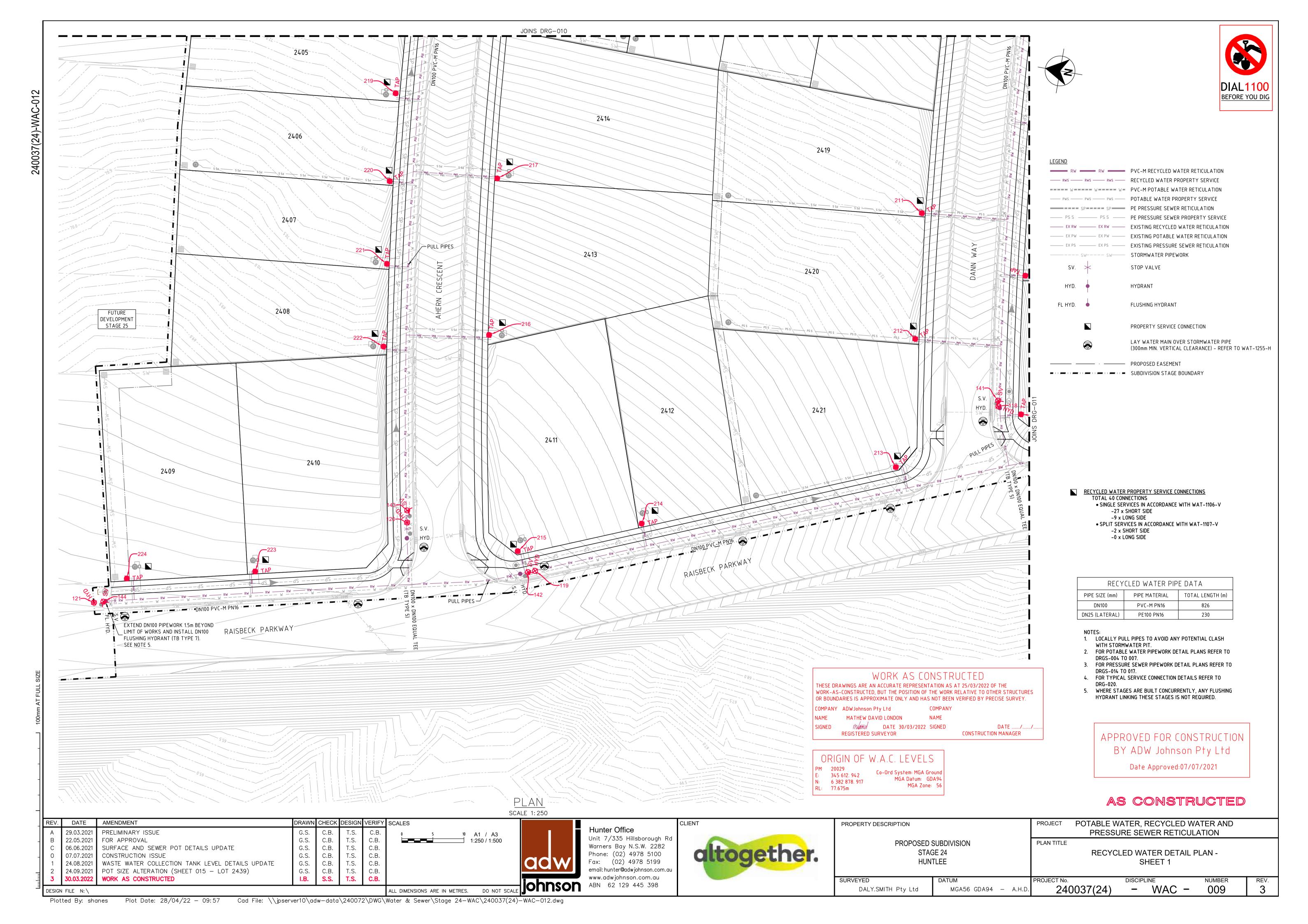
	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIG	N VER	FY SCALES			CLIENT	PROPERTY DESCRIPTION	PROJECT POTABLE W	ATER, RECYCLED WAT	TER AND	
	А	29.03.2021	PRELIMINARY ISSUE	G.S.	C.B.	T.S.	C.	3. 0 10 20 30 40 A1 / A3		Hunter Office			PRESSU	JRE SEWER RETICULAT	TION	
-	В	22.05.2021	FOR APPROVAL	G.S.	C.B.	T.S.	C.E	1:1000 / 1:2000		Unit 7/335 Hillsborough Rd		PROPOSED SUBDIVISION	PLAN TITLE			
			SURFACE AND SEWER POT DETAILS UPDATE	G.S.	C.B.	T.S.	C.E			Warners Bay N.S.W. 2282	alle a a the au	STAGE 24	. 2,			
- 1			CONSTRUCTION ISSUE	G.S.	C.B.	T.S.	C.E			Phone: (02) 4978 5100	altogether.			GENERAL NOTES		
			WASTE WATER COLLECTION TANK LEVEL DETAILS UPDATE	G.S.	C.B.	T.S.	C.E		aawi	Fax: (02) 4978 5199		HUNTLEE				
닠			POT SIZE ALTERATION (SHEET 015 - LOT 2439)	G.S.	C.B.	T.S.	C.E			email: hunter@adwjohnson.com.au						
릛	3	30.03.2022	WORK AS CONSTRUCTED	I.B.	S.S.	T.S.	C.E	•	Johnson	www.adwjohnson.com.au ABN 62 129 445 398		SURVEYED DATUM	PROJECT No.	2.00 22	NUMBER	REV.
3	DESIGN	FILE N:\						ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	johnson	ADN 02 129 443 390		DALY.SMITH Pty Ltd MGA56 GDA94 — A.H.D	240037(24)	- WAC -	003	3
•	Plott	ed By: sha	nes         Plot Date: 28/04/22 — 09:56          Cad File: \\jpser	ver10\a	dw-dat/	a\2400	72\DV	G\Water & Sewer\Stage 24-WAC\240037(24)-	-WAC-001.dwg						-	

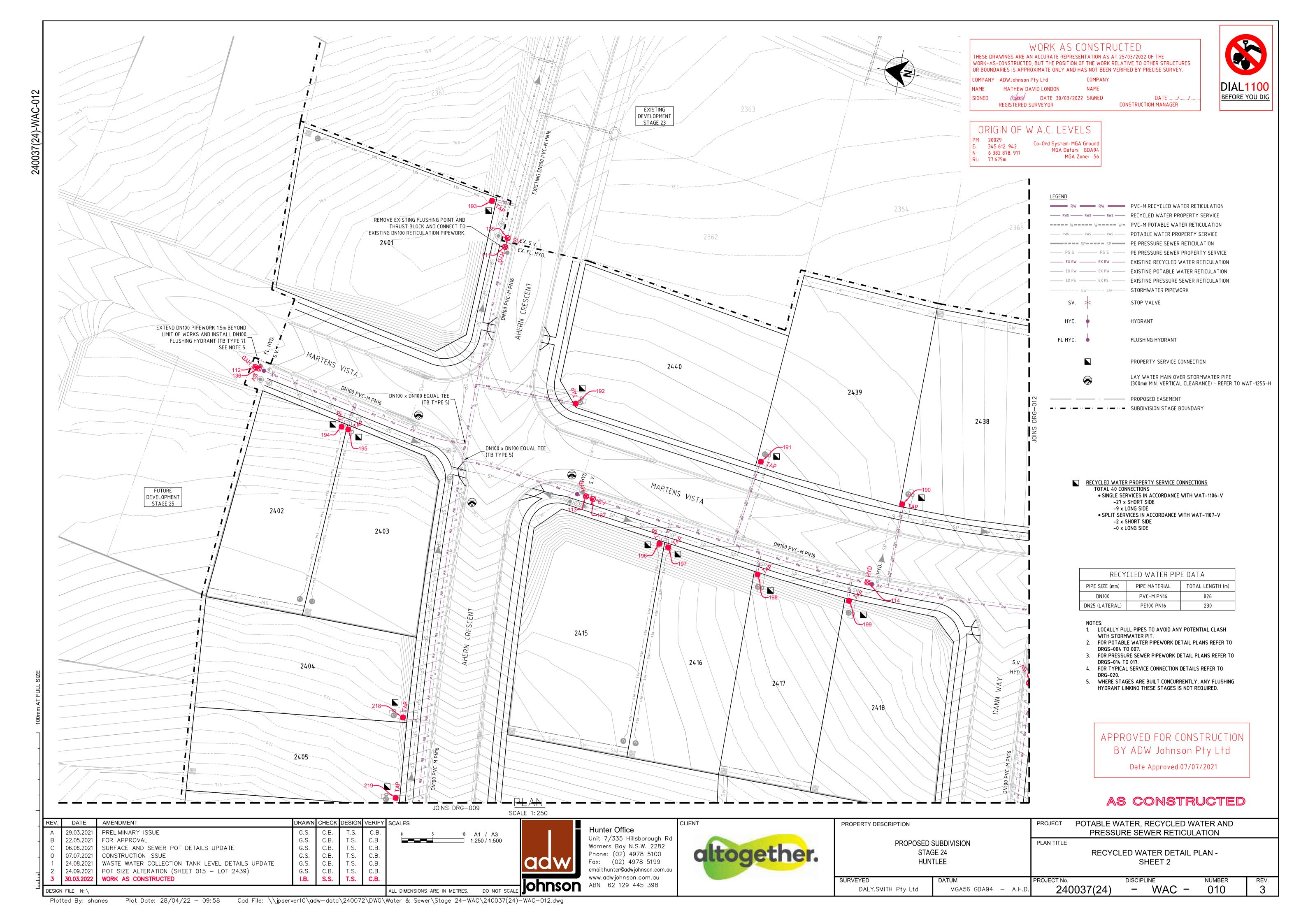


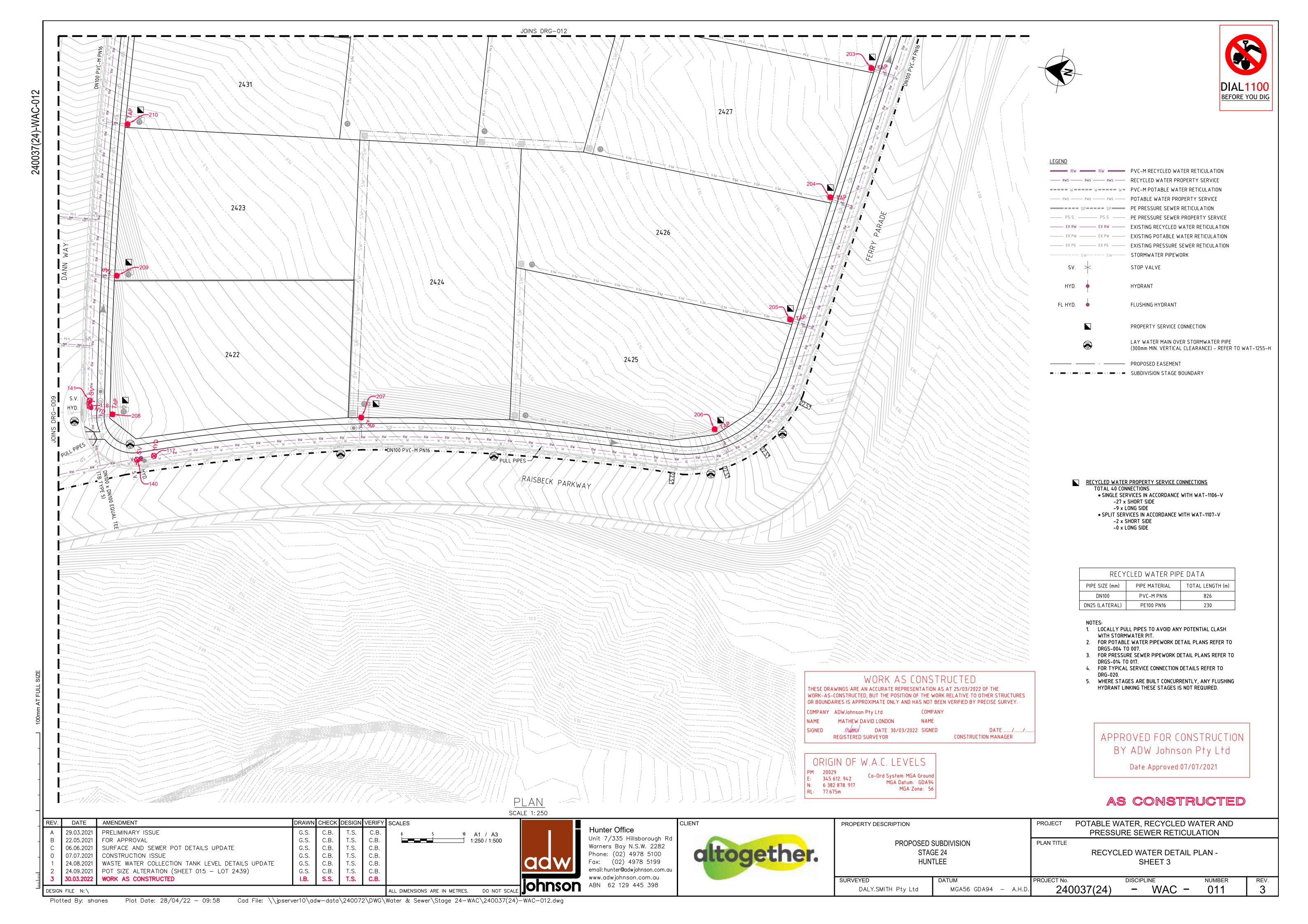


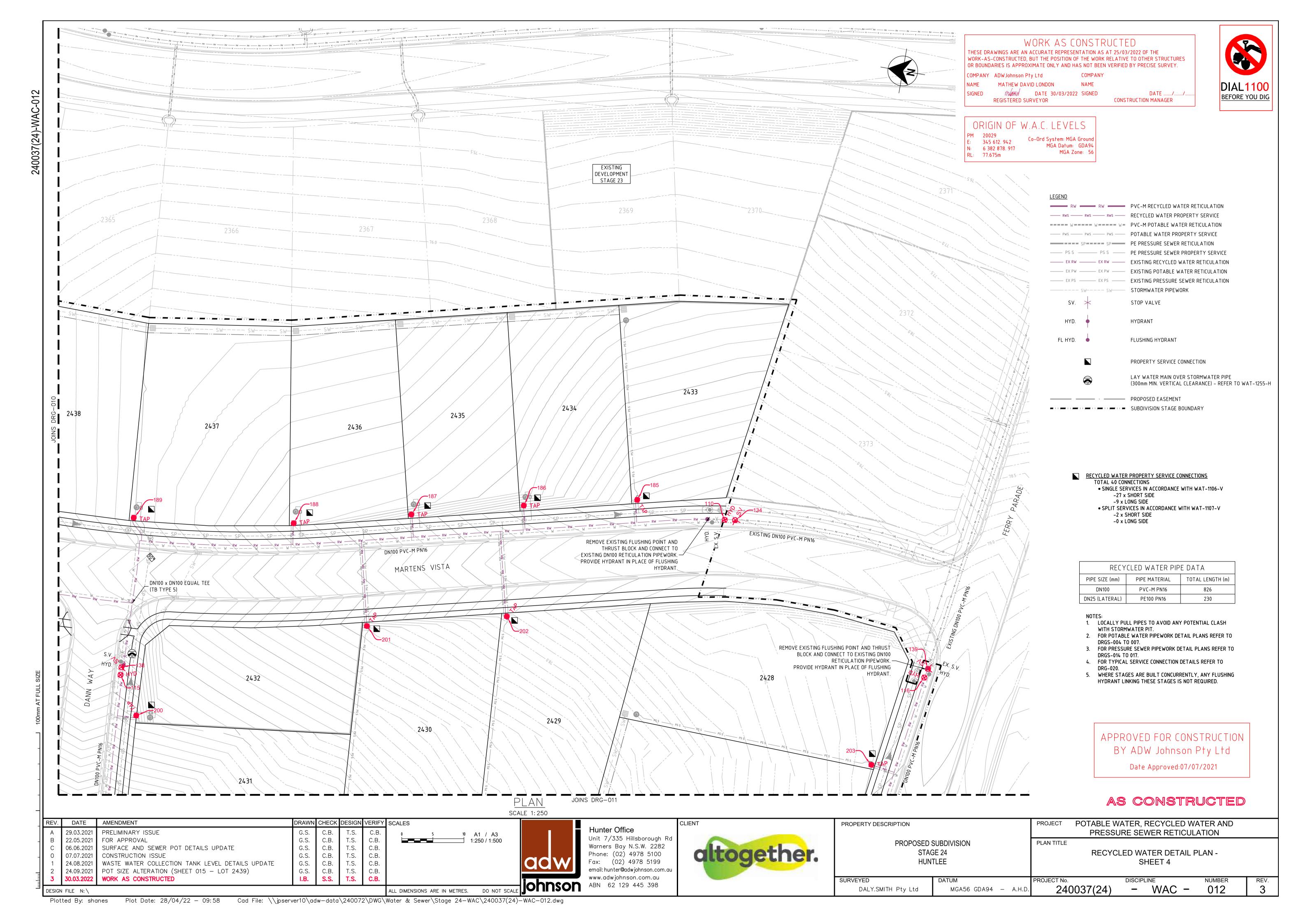


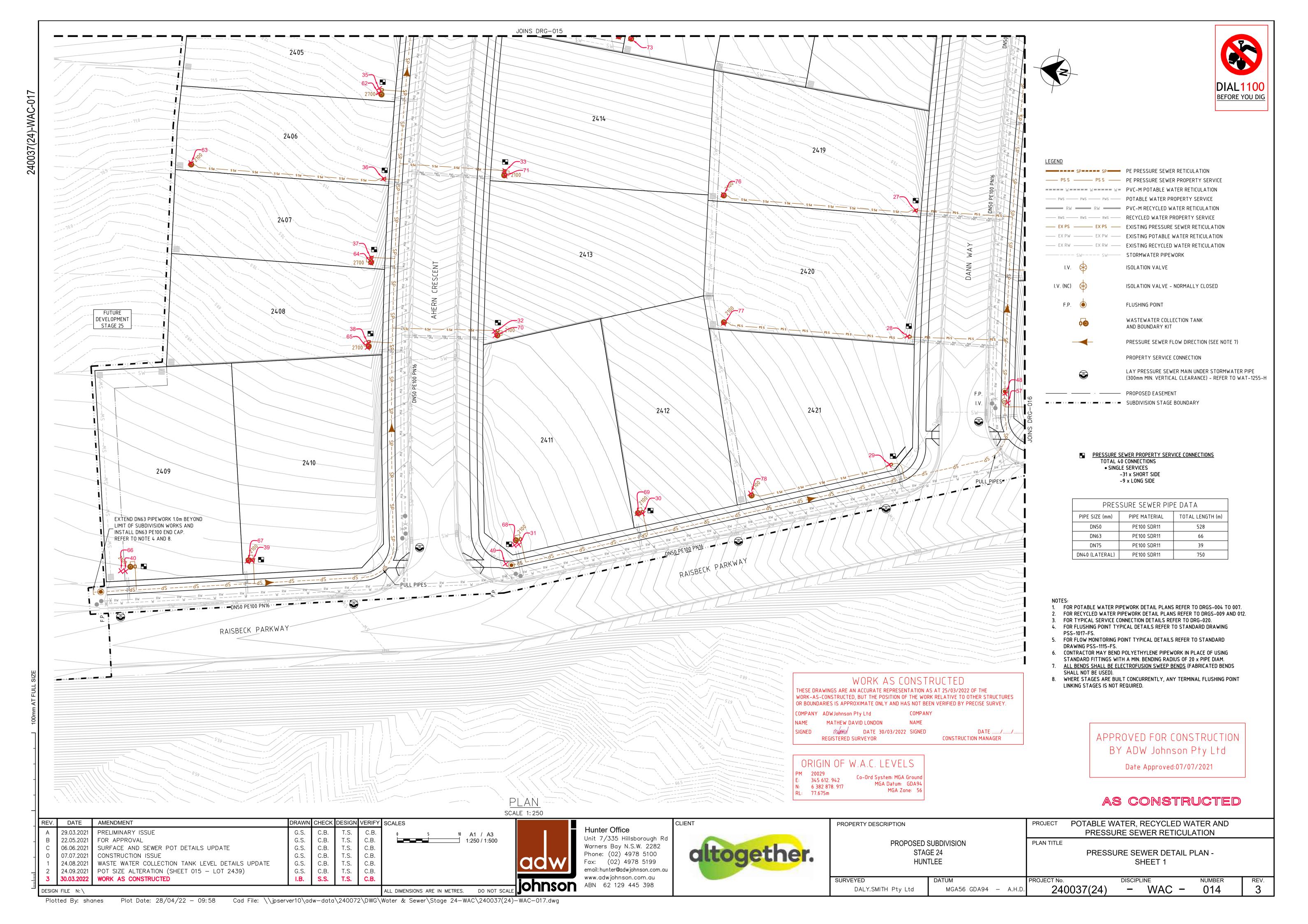


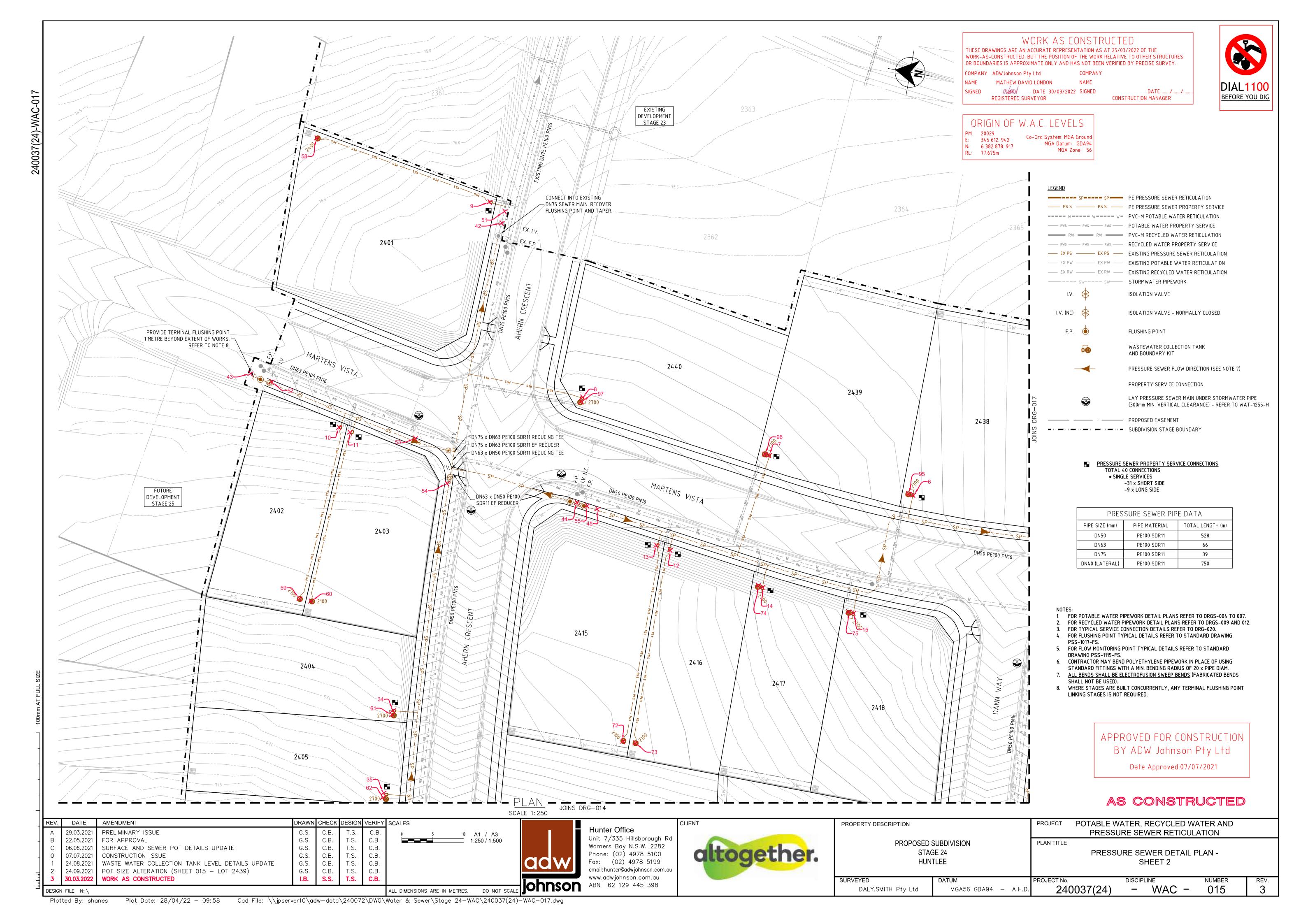


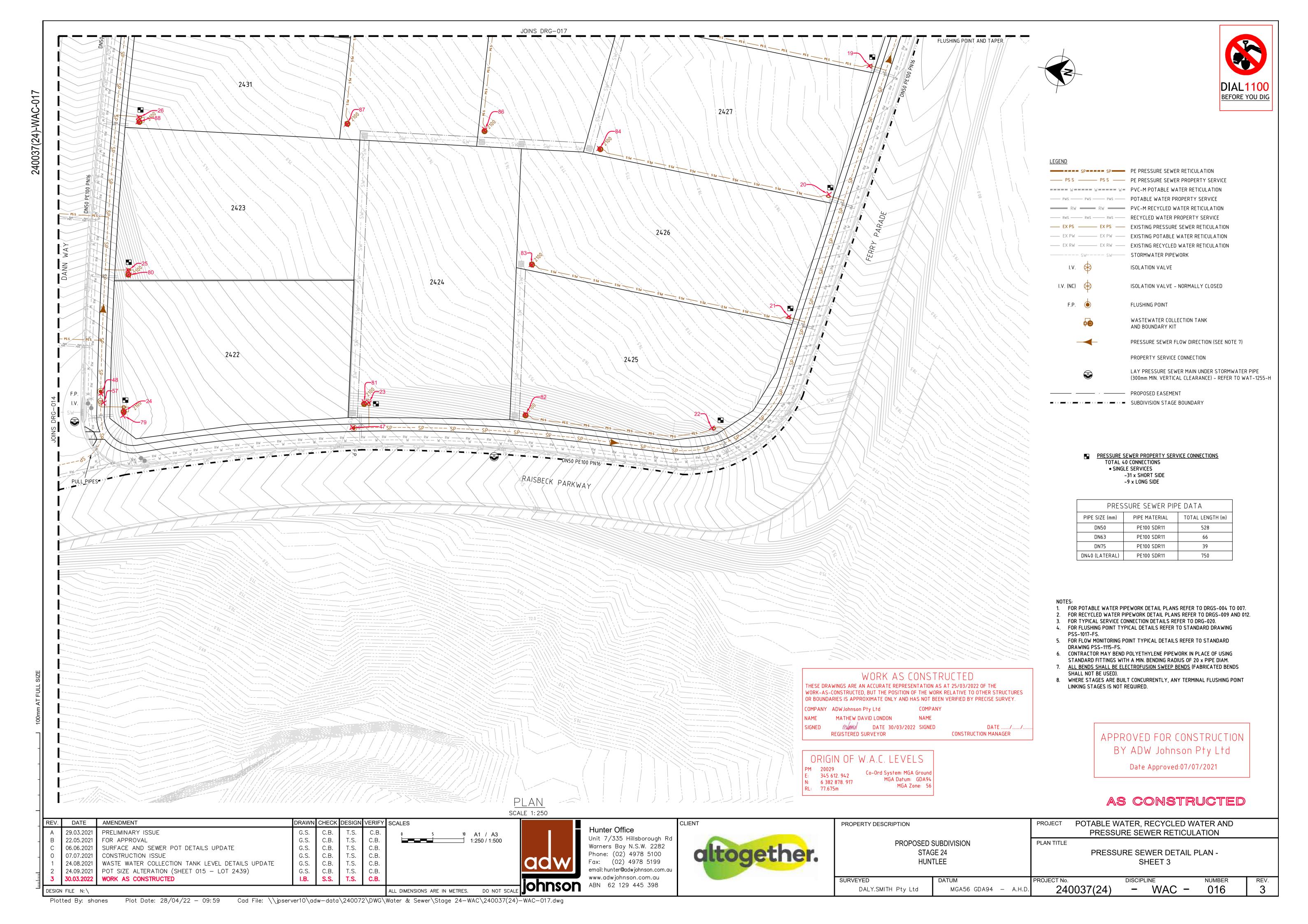


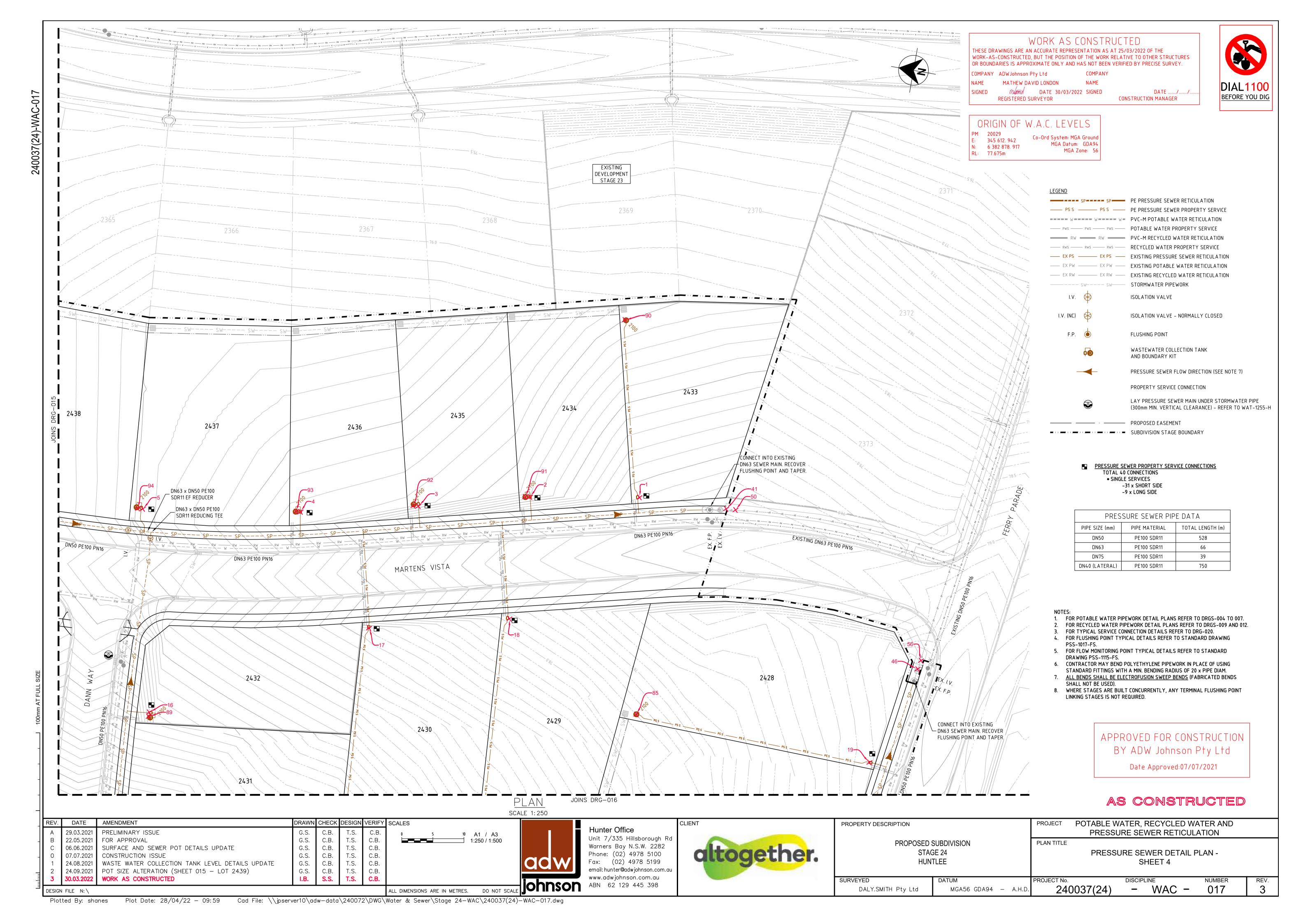












346257.31 | 6382371.12 | 77.30 | seBDYKIT 346253.13 | 6382389.61 | 77.12 | seBDYKIT 346249.19 | 6382414.67 | 76.52 | seBDYKIT 346248.77 | 6382437.15 | 75.78 | seBDYKIT 346251.05 6382461.08 75.36 seBDYKIT 346255.02 | 6382492.22 | 75.21 | seBDYKIT 346283.34 | 6382512.37 | 75.88 | seBDYKIT 346243.44 6382529.92 75.01 seBDYKIT 346242.96 | 6382528.09 | 74.95 | seBDYKIT 346233.30 | 6382474.08 | 74.93 | seBDYKIT 13 346233.62 | 6382476.40 | 74.94 | seBDYKIT 346230.00 | 6382458.43 | 74.85 | seBDYKIT 346228.42 | 6382443.33 | 75.17 | seBDYKIT 346217.16 | 6382408.00 | 75.59 | seBDYKIT 346236.64 6382375.53 77.43 seBDYKIT 18 346242.03 | 6382353.57 | 78.12 | seBDYKIT 346229.33 | 6382292.57 | 79.50 | seBDYKIT 20 346207.87 | 6382295.42 | 78.81 | seBDYKIT 346187.40 | 6382298.36 | 77.66 | seBDYKIT 22 346167.66 | 6382307.41 | 75.93 | seBDYKIT 6382362.42 73.43 seBDYKIT 346162.04 24 346153.89 | 6382400.93 | 71.47 | seBDYKIT 25 346176.26 | 6382404.21 | 72.52 | seBDYKIT 26 346200.77 | 6382406.80 | 74.12 | seBDYKIT 27 346182.50 | 6382424.39 | 72.60 | seBDYKIT 346162.34 6382422.14 71.27 seBDYKIT 29 346141.50 | 6382421.40 | 70.86 | seBDYKIT 346126.94 6382459.09 68.95 seBDYKIT 346118.55 | 6382477.82 | 68.20 | seBDYKIT 346151.59 | 6382487.60 | 69.27 | seBDYKIT 346177.26 | 6382490.49 | 71.30 | seBDYKIT 6382513.47 72.52 seBDYKIT 346186.86 6382512.67 71.89 seBDYKIT 346172.65 | 6382509.47 | 71.13 | seBDYKIT 346159.81 6382509.22 70.26 seBDYKIT 346146.26 | 6382507.32 | 69.21 | seBDYKIT 6382519.55 68.11 seBDYKIT 346108.58 346103.35 6382539.35 67.93 seBDYKIT 40 seFP 346265.47 | 6382322.33 | 78.71 346280.34 | 6382509.87 | 75.70 | seFP 42 43 346249.51 6382545.44 75.67 seFP 44 346238.19 6382490.17 75.02 seFP 45 346237.76 | 6382486.77 | 75.02 seFP 346245.45 | 6382287.56 | 79.52 47 346157.63 | 6382364.32 | 72.82 seFP 48 346156.02 6382405.03 seFP 49 346115.11 6382479.37 68.19 seFP 6382320.82 78.76 seSV 346265.56 346282.27 | 6382509.75 | 75.74 | seSV 52 346248.80 6382541.85 75.67 53 346243.85 | 6382517.56 | 75.09 seSV 54 346237.61 6382511.27 74.96 seSV 55 346237.99 | 6382488.47 | 75.02 seSV 56 346246.89 | 6382287.26 | 79.45 | seSV 346154.64 6382404.37 58 346288.61 | 6382541.53 | 75.48 | seTANK2401 346215.27 | 6382531.42 | 74.23 | seTANK2402

Point Table

346264.87 | 6382336.36 | 78.64 | seBDYKIT

346261.88 | 6382353.72 | 77.77 | seBDYKIT

Point # Eastings Northings Levels Codes

		Point Tabl		
Point #	Eastings	Northings	Levels	Codes
60	346215.14	6382529.51	74.23	seTANK2403
61	346199.42	6382513.53	72.62	seTANK2404
62	346186.10	6382512.63	71.99	seTANK2405
63	346169.74	6382540.41	70.57	seTANK2406
64	346159.02	6382509.08	70.39	seTANK2407
65	346145.50	6382507.25	69.30	seTANK2408
66	346103.23	6382540.08	68.07	seTANK2409
67	346108.33	6382520.27	68.22	seTANK2410
68	346118.32	6382478.52	68.33	seTANK2411
69	346126.72	6382459.89	69.12	seTANK2412
70	346150.96	6382487.32	69.46	seTANK2413
71	346176.54	6382490.27	71.28	seTANK2414
72	346201.68	6382476.19	73.83	seTANK2415
73	346201.75	6382474.20	73.84	seTANK2416
74	346230.14	6382459.21	74.98	seTANK2417
75	346228.46	6382444.14	75.28	seTANK2418
76	346179.57	6382455.20	71.83	seTANK2419
77	346159.25	6382451.55	70.73	seTANK2420
78	346133.06	6382442.58	69.97	seTANK2421
79	346153.13	6382400.93	71.62	seTANK2422
80 81	346175.57 346161.97	6382404.00 6382363.20	72.72	seTANK2423 seTANK2424
82	346164.55	6382337.30	74.23	seTANK2424
83	346188.40	6382340.49	76.42	seTANK2426
84	346208.65	6382333.02	77.40	seTANK2427
85	346230.43	6382330.80	78.28	seTANK2428
86	346208.48	6382351.73	76.49	seTANK2429
87	346205.48	6382373.66	75.54	seTANK2430
88	346200.03	6382406.71	74.26	seTANK2431
89	346216.46	6382407.95	75.88	seTANK2432
90	346292.54	6382343.64	77.52	seTANK2433
91	346261.77	6382354.50	77.91	seTANK2434
92	346257.23	6382371.92	77.46	seTANK2435
93	346253.04	6382390.34	77.33	seTANK2436
94	346249.12	6382415.49	76.63	seTANK2437
95 ——— 96	346248.81 346251.09	6382437.95 6382461.77	75.88	seTANK2438
96	346251.09	6382461.77	75.43 75.25	seTANK2439 seTANK2440
98	346263.21	6382322.24	78.60	waHYD
99	346276.68	6382508.19	75.66	waHYD
100	346251.05	6382544.46	75.56	waHYD
101	346239.91	6382488.87	74.97	waHYD
102	346222.20	6382414.01	75.56	waHYD
103	346244.20	6382285.74	79.48	waHYD
104	346147.20	6382394.73	71.85	waHYD
105	346153.24	6382406.79	71.05	waHYD
106	346114.20	6382475.03	68.23	waHYD
107	346121.91	6382496.96	67.77	waHYD
108	346118.87	6382496.45	67.75	waHYD
109	346096.96	6382544.07	67.72	waHYD
110	346263.69	6382322.26	78.58	waHYDR
111	346276.67	6382508.69	75.65	waHYDR
112	346250.69	6382544.88	75.58	waHYDR
113	34.6233.68	6382488.93	74.98	waHYDR
114	346233.68 346222.28	6382441.95 6382413.57	75.54 75.57	waHYDR waHYDR
11□	1 7407777Q	UJUZ413.5 <i>1</i>	1 J.J.	wallink
115		6387784 25	79 1.7	Mahadd
115 116 117	346244.30 346147.63	6382286.25 6382394.96	79.47 71.84	waHYDR waHYDR

	Р	oint Table 		
Point #	Eastings	Northings	Levels	Codes
119	346114.70	6382475.24	68.24	waHYDR
120	346118.78	6382496.84	67.78	waHYDR
121	346097.36	6382544.17	67.72	waHYDR
122	346263.39	6382320.36	78.63	waSV
123	346278.76	6382508.02	75.64	waSV
124	346250.85	6382543.78	75.56	waSV
125	346233.56	6382508.86	74.82	waSV
126	346239.71	6382487.78	74.95	waSV
127	346223.08	6382414.12	75.67	waSV
128	346246.33	6382285.43	79.45	waSV
129	346146.06	6382397.74	71.71	waSV
130	346153.80	6382406.96	71.03	waSV
131	346113.48	6382476.91	68.13	waSV
132	346120.31	6382496.62	67.74	waSV
133	346097.20	6382542.97	67.75	waSV
134	346263.94	6382320.60	78.64	waSVR
135	346278.14	6382508.53	75.66	waSVR
136	346250.54	6382544.29	75.60	waSVR
137	346239.22	6382487.75	74.98	waSVR
138	346223.53	6382413.63	75.69	waSVR
139	346245.77	6382285.91	79.48	waSVR
140	346146.53	6382397.49	71.78	waSVR
141	346154.56	6382406.68	71.04	waSVR
142	346114.30	6382476.31	68.21	waSVR
143	346120.69	6382497.15	67.79	waSVR
144	346097.78	6382542.71	67.78	waSVR
145	346264.32	6382336.90	78.50	waTAP
146	346260.32	6382354.75	77.81	waTAP
147	346255.76	6382372.23	77.43	waTAP
148	346251.02	6382390.68	77.07	waTAP
149	346247.49	6382416.11	76.40	waTAP
150	346247.05	6382438.98	75.65	waTAP
151	346249.81	6382462.38	75.30	waTAP
152	346253.65	6382493.17	75.21	waTAP
153	346283.86	6382512.00	75.66	waTAP
154	346243.59	6382529.23	75.18	waTAP
155	346243.51	6382528.67	75.16	waTAP
156	346233.90	6382475.69	74.97	waTAP
157	346233.70	6382474.78	74.97	waTAP
158	346231.86	6382459.90	75.09	waTAP
159	346230.23	6382444.69	75.40	waTAP
160	346216.04	6382409.87	75.32	waTAP
161	346236.90	6382376.24	77.38	waTAP
162	346242.28	6382354.29	78.08	waTAP
163	346228.59	6382292.28	79.42	waTAP
164	346207.10	6382295.13	78.82	waTAP
165	346186.73	6382298.06	77.66	waTAP
166	346167.12	6382306.79	75.78	waTAP
167	346159.41	6382363.54	72.98	waTAP
168	346152.70	6382402.60	71.30	waTAP
169	346174.77	6382405.88	72.01	waTAP
170	346199.07	6382408.38	74.07	waTAP
171	346181.82	6382423.97	72.53	waTAP
172	346161.68	6382421.43	71.23	waTAP
173	346140.97	6382420.97	70.92	waTAP
174	346125.05	6382459.87	68.86	waTAP
175	346117.19	6382478.79	68.13	waTAP
176	346150.45	6382489.02	69.33	waTAP
			l	I - · · · ·

		UIII Table		
Point #	Eastings	Northings	Levels	Codes
178	346199.05	6382511.70	72.77	waTAP
179	346186.12	6382510.67	71.92	waTAP
180	346172.03	6382509.08	70.96	waTAP
181	346158.86	6382507.24	70.00	waTAP
182	346145.66	6382505.36	69.05	waTAP
183	346106.69	6382519.76	67.90	waTAP
184	346102.05	6382539.92	67.83	waTAP
185	346264.41	6382336.66	78.50	waTAPR
186	346260.35	6382354.46	77.79	waTAPR
187	346255.80	6382372.00	77.41	waTAPR
188	346251.13	6382390.39	77.06	waTAPR
189	346247.54	6382415.86	76.40	waTAPR
190	346247.01	6382438.66	75.68	waTAPR
191	346249.81	6382462.19	75.32	waTAPR
192	346253.84	6382493.15	75.20	waTAPR
193	346283.60	6382512.04	75.71	waTAPR
194	346243.65	6382529.54	75.19	waTAPR
195	346243.39	6382528.42	75.18	waTAPR
196	346233.98	6382475.97	74.94	waTAPR
197	346233.67	6382474.48	74.96	waTAPR
198	346231.86	6382459.57	75.09	waTAPR
199	346230.24	6382444.36	75.37	waTAPR
200	346216.30	6382409.95	75.35	waTAPR
201	346236.89	6382375.95	77.37	waTAPR
202	346242.32	6382354.05	78.07	waTAPR
203	346229.01	6382292.19	79.42	waTAPR
204	346207.43	6382295.10	78.83	waTAPR
205	346186.95	6382298.05	77.70	waTAPR
206	346167.48	6382306.92	75.82	waTAPR
207	346159.50	6382363.21	72.88	waTAPR
208	346153.04	6382402.66	71.28	waTAPR
209	346175.11	6382405.86	72.03	waTAPR
210	346199.38	6382408.39	74.08	waTAPR
211	346182.11	6382423.99	72.56	waTAPR
212	346162.02	6382421.51	71.21	waTAPR
213	346141.19	6382421.01	70.90	waTAPR
214	346125.15	6382459.67	68.90	waTAPR
215	346117.33	6382478.53	68.14	waTAPR
216	346150.76	6382489.09	69.34	waTAPR
217	346175.76	6382492.18	71.07	waTAPR
218	346199.33	6382511.73	72.81	waTAPR
219	346186.40	6382510.63	71.95	waTAPR
220	346172.32	6382509.11	70.98	waTAPR
221	346159.16	6382507.24	70.02	waTAPR
222	346145.98	6382505.48	69.04	waTAPR
		ı ———		I
223	346106.78	6382519.52	67.94	waTAPR

Point Table



WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 25/03/2022 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 COMPANY ADWJohnson Pty Ltd

NAME MATHEW DAVID LONDON mand DATE 30/03/2022 SIGNED REGISTERED SURVEYOR

DATE ....../...../.... CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

E: 345 612. 942 N: 6 382 878. 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:07/07/2021

# AS CONSTRUCTED

3

]	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
	Α	29.03.2021	PRELIMINARY ISSUE	G.S.	C.B.	T.S.	C.B.	
4	В	22.05.2021	FOR APPROVAL	G.S.	C.B.	T.S.	C.B.	
	С	06.06.2021	SURFACE AND SEWER POT DETAILS UPDATE	G.S.	C.B.	T.S.	C.B.	
4	0	07.07.2021	CONSTRUCTION ISSUE	G.S.	C.B.	T.S.	C.B.	
	1	24.08.2021	WASTE WATER COLLECTION TANK LEVEL DETAILS UPDATE	G.S.	C.B.	T.S.	C.B.	
╛	2	24.09.2021	POT SIZE ALTERATION (SHEET 015 — LOT 2439)	G.S.	C.B.	T.S.	C.B.	
∄	3	30.03.2022	WORK AS CONSTRUCTED	I.B.	S.S.	T.S.	C.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

**Hunter Office** ABN 62 129 445 398

er.	PROPERT
	SURVEYED

TY DESCRIPTION PROPOSED SUBDIVISION STAGE 24 HUNTLEE

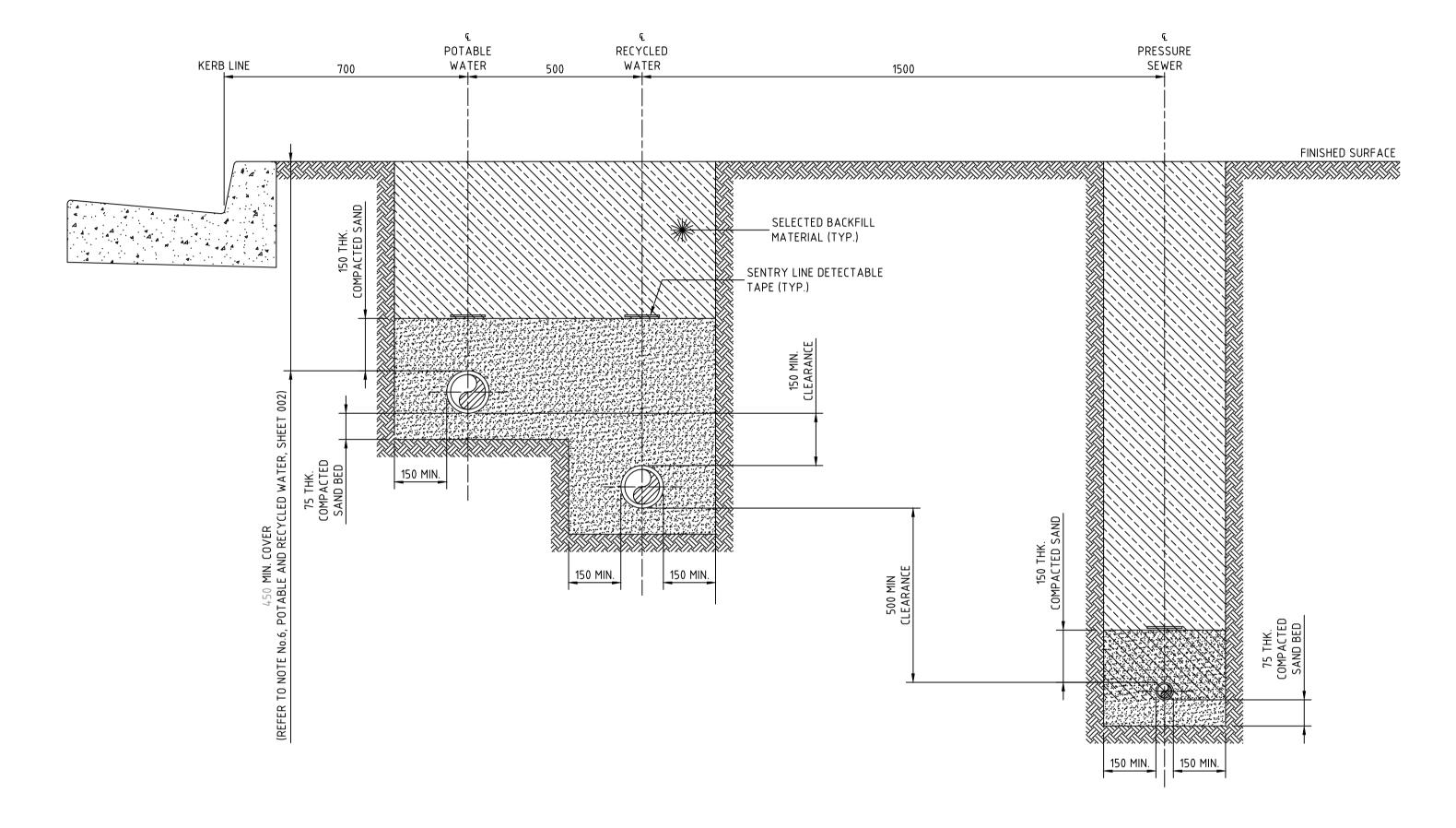
DALY.SMITH Pty Ltd

POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PLAN TITLE

FITTINGS TABLE

240037(24) - WAC -018 MGA56 GDA94 - A.H.D.





STREET PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10

NOTES:

MATERIAL REMOVED FROM
THE EXCAVATION OR IMPORTED
MATERIAL CONTAINING NOT MORE
THAN 20% BY MASS OF STONES

FINISHED SURFACE

SENTRY LINE
DETECTABLE TAPE

SOIL FREE FROM ORGANICS OR
OTHER DELETERIOUS MATERIAL
TO AS 2566.1 TABLES 3.1 & 3.2
(EXCLUDES SOILS WITH LL-50%)

SAND

100 MIN.
100 MIN.

PRIVATE PROPERTY PRESSURE MAIN
TYPICAL DETAIL

DATE ...../..../...

CONSTRUCTION MANAGER

# WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 25/03/2022 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 ADWJohnson Pty Ltd COMPANY

NAME MATHEW DAVID LONDON NAME

SIGNED DATE 30/03/2022 SIGNED REGISTERED SURVEYOR

ORIGIN OF W.A.C. LEVELS

PM 20029
E: 345 612. 942
N: 6 382 878. 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:07/07/2021

## AS CONSTRUCTED

DRAWN CHECK DESIGN VERIFY SCALES DATE AMENDMENT POTABLE WATER, RECYCLED WATER AND PROPERTY DESCRIPTION G.S. C.B. T.S. C **Hunter Office** PRESSURE SEWER RETICULATION PRELIMINARY ISSUE 0.1 0.2 0.3 0.4 A1 / A3 Unit 7/335 Hillsborough Rd 22.05.2021 FOR APPROVAL C.B. 1:10 / 1:20 PROPOSED SUBDIVISION PLAN TITLE Warners Bay N.S.W. 2282 06.06.2021 SURFACE AND SEWER POT DETAILS UPDATE C.B. STAGE 24 Phone: (02) 4978 5100 TYPICAL PIPEWORK C.B. 07.07.2021 CONSTRUCTION ISSUE HUNTLEE TRENCHING DETAILS G.S. C.B. Fax: (02) 4978 5199 T.S. T.S. 24.08.2021 C.B. WASTE WATER COLLECTION TANK LEVEL DETAILS UPDATE email: hunter@adwjohnson.com.au 24.09.2021 POT SIZE ALTERATION (SHEET 015 - LOT 2439) C.B. www.adwjohnson.com.au 30.03.2022 WORK AS CONSTRUCTED S.S. T.S. C.B. SURVEYED DISCIPLINE johnson ABN 62 129 445 398 240037(24) - WAC -019 3 DALY.SMITH Pty Ltd MGA56 GDA94 - A.H.D. DESIGN FILE N: \ ALL DIMENSIONS ARE IN METRES. DO NOT SCAL 

1. ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH

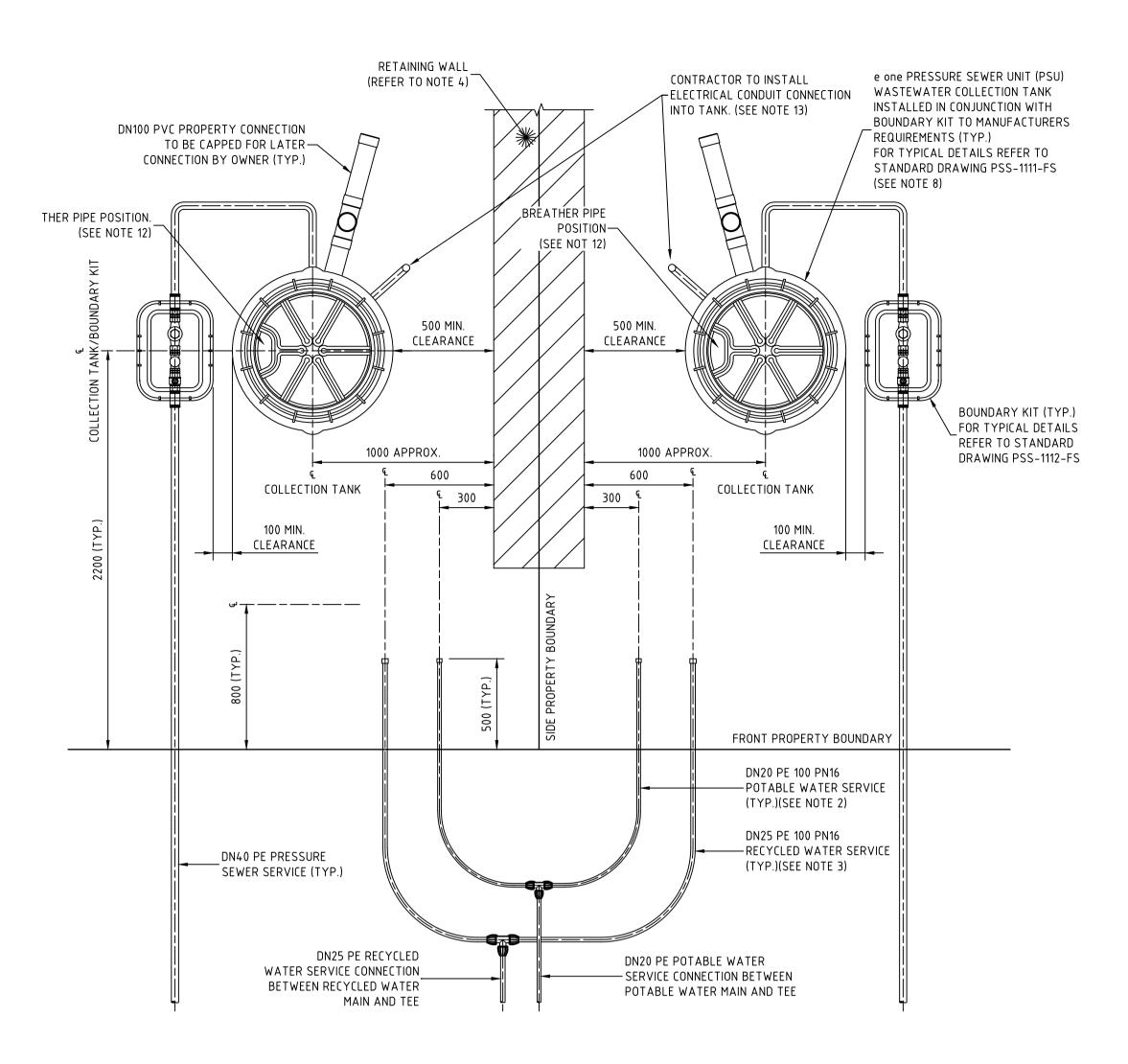
MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.

(PRESSURE SEWER UNIT AT REAR)

SCALE 1:20

Cad File: \\jpserver10\adw-data\240072\DWG\Water & Sewer\Stage 24-WAC\240037(24)-WAC-021.dwg

Plot Date: 28/04/22 - 09:59



# TYPICAL PROPERTY CONNECTION DETAIL

SCALE 1:20

#### NOTES:

- 1. PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION) (SUPPLEMENT TO WSA 03-2011).
- 2. DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- 3. DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- 4. FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE TO BE OFFSET FROM THE PROPERTY BOUNDARY.
- 5. 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.
- 6. MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
- 7. ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
- 8. 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.
- 9. \$\phi\_{25}\$ ELECTRICAL CONDUIT IS TO EXTEND FROM CONNECTION WITH PRESSURE SEWER UNIT (PSU) TO NOM. 500mm INSIDE FRONT PROPERTY BOUNDARY AND BE
- 10. FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-FS.
- 11. 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.
- 12. POSITION TANK LID SUCH THAT BREATHER PIPE LOCATION IS ON THE DOWNSLOPE SIDE OF THE BLOCK WHERE POSSIBLE.

CAPPED. ELECTRICAL CONDUIT IS TO BE HEAVY DUTY ORANGE. ALL CONDUIT BENDS ARE TO BE LARGE RADIUS SWEEP BENDS.

13. CONTRACTOR TO INSTALL ELECTRICAL CONDUIT CONNECTION. 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 25/03/2022 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 COMPAN NAME MATHEW DAVID LONDON NAME

ED Mand DATE 30/03/2022 SIGNED REGISTERED SURVEYOR

ORIGIN OF W.A.C. LEVELS

PM 20029
E: 345 612. 942
N: 6 382 878. 917
RL: 77.675m

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

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd

DATE ...../...../

CONSTRUCTION MANAGER

BEFORE YOU DIG

Date Approved:07/07/2021

REV		AMENDMENT PRELIMINARY ISSUE	DRAWN G.S.	C.B.	T.S. C	IFY SCALES  B. 0 0.1 0.2 0.3 0.4 A1 / A3		Hunter Office	CLIENT	PROPERTY DESCRIPTION	PROJECT	POTABLE WATER, RECYCLED WAT PRESSURE SEWER RETICULAT	
- B C O 1 1 2	06.06.2021 07.07.2021 24.08.2021	FOR APPROVAL SURFACE AND SEWER POT DETAILS UPDATE CONSTRUCTION ISSUE WASTE WATER COLLECTION TANK LEVEL DETAILS UPDATE POT SIZE ALTERATION (SHEET 015 — LOT 2439)	G.S. G.S. G.S. G.S.	C.B. C.B. C.B. C.B. C.B.	T.S. C. T.S. C. T.S. C. T.S. C. T.S. C.	1:10 / 1:20 3. 0 0.4 0.8 A1 / A3 3. 1:20 / 1:40 3. 3.	adw	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	altogether.	PROPOSED SUBDIVISION STAGE 24 HUNTLEE	PLAN TITLE	TYPICAL SERVICE CONNECTION DETAILS	
JESIC		WORK AS CONSTRUCTED	I.B.	S.S.	T.S. C.	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	johnsor	www.adwjohnson.com.au ABN 62 129 445 398		SURVEYED DATUM  DALY.SMITH Pty Ltd MGA56 GDA94 — A.H	PROJECT No.	no. DISCIPLINE 40037(24) - WAC -	NUMBER REV



LOT NUMBER         TOP OF TANK           2401         75.56           2402         74.29           2403         74.30           2404         72.76           2405         72.13           2406         70.65           2407         70.57           2408         69.47           2410         68.26           2411         68.46           2412         69.27           2413         69.60           2414         71.40           2415         73.92           2416         73.95           2417         75.03           2418         75.32           2419         71.94           2420         70.84           2421         70.04           2422         71.82           2423         72.79           2424         73.70	MBASE IL 73.43 72.16 72.17 70.03 69.40 68.52 67.84 66.74 66.01 66.13 66.03 67.14 67.47 69.27 71.79 71.82	/ A S T E W A T E R  CONNECTION IL  74.33  73.06  73.07  70.93  70.30  69.42  68.74  67.64  66.91  67.03  66.93  68.04  68.37  70.17	COLLECTION TANK HEIGHT 2100 2100 2100 2700 2700 2700 2700 2100 21	TANK DETAILS  TANK LOCATION REAR REAR REAR FRONT FRONT REAR FRONT	EASTING 346288.61 346215.21 346215.17 346199.40 346185.94 346169.55 346159.11 346145.72 346104.18 346108.50	NORTHING 6382541.36 6382531.34 6382529.34 6382513.23 6382512.12 6382540.30 6382509.08 6382507.11 6382538.69	TOP OF COLLECTION TANK LID  75.48 74.23 74.23 72.62 71.99 70.57 70.39 69.30	CALCULATED WAC SANITARY DRAINAGE INVERT LEVEL  74.17 72.91 72.91 70.71 70.07 69.26 68.47 67.39	WAC V'S DESIGN INVERT LEVEL COMPARISON  -0.16 -0.15 -0.16 -0.22 -0.23 -0.16 -0.27
2401       75.56         2402       74.29         2403       74.30         2404       72.76         2405       72.13         2406       70.65         2407       70.57         2408       69.47         2409       68.14         2410       68.26         2411       68.46         2412       69.27         2413       69.60         2414       71.40         2415       73.92         2416       73.95         2417       75.03         2418       75.32         2419       71.94         2420       70.84         2421       70.04         2422       71.82         2423       72.79	73.43 72.16 72.17 70.03 69.40 68.52 67.84 66.74 66.01 66.13 66.03 67.14 67.47 69.27 71.79	74.33 73.06 73.07 70.93 70.30 69.42 68.74 67.64 66.91 67.03 66.93 68.04 68.37	2100 2100 2100 2700 2700 2100 2700 2700 2100 2100 2100 2400 2100	REAR REAR REAR FRONT FRONT REAR FRONT FRONT FRONT FRONT FRONT FRONT FRONT FRONT FRONT	346288.61 346215.21 346215.17 346199.40 346185.94 346169.55 346159.11 346145.72 346104.18	6382541.36 6382531.34 6382529.34 6382513.23 6382512.12 6382540.30 6382509.08 6382507.11	74.23 74.23 72.62 71.99 70.57 70.39 69.30	72.91 72.91 70.71 70.07 69.26 68.47	-0.15 -0.16 -0.22 -0.23 -0.16 -0.27
2402       74.29         2403       74.30         2404       72.76         2405       72.13         2406       70.65         2407       70.57         2408       69.47         2409       68.14         2410       68.26         2411       68.46         2412       69.27         2413       69.60         2414       71.40         2415       73.92         2416       73.95         2417       75.03         2418       75.32         2419       71.94         2420       70.84         2421       70.04         2422       71.82         2423       72.79	72.16 72.17 70.03 69.40 68.52 67.84 66.74 66.01 66.13 66.03 67.14 67.47 69.27 71.79	73.06 73.07 70.93 70.30 69.42 68.74 67.64 66.91 67.03 66.93 68.04 68.37	2100 2100 2700 2700 2100 2700 2100 2100 2400 2100	REAR REAR FRONT FRONT REAR FRONT FRONT FRONT FRONT FRONT FRONT FRONT FRONT	346215.21 346215.17 346199.40 346185.94 346169.55 346159.11 346145.72 346104.18	6382531.34 6382529.34 6382513.23 6382512.12 6382540.30 6382509.08 6382507.11	74.23 74.23 72.62 71.99 70.57 70.39 69.30	72.91 72.91 70.71 70.07 69.26 68.47	-0.15 -0.16 -0.22 -0.23 -0.16 -0.27
2403       74.30         2404       72.76         2405       72.13         2406       70.65         2407       70.57         2408       69.47         2409       68.14         2410       68.26         2411       68.46         2412       69.27         2413       69.60         2414       71.40         2415       73.92         2416       73.95         2417       75.03         2418       75.32         2419       71.94         2420       70.84         2421       70.04         2422       71.82         2423       72.79	72.17 70.03 69.40 68.52 67.84 66.74 66.01 66.13 66.03 67.14 67.47 69.27 71.79	73.07 70.93 70.30 69.42 68.74 67.64 66.91 67.03 66.93 68.04 68.37	2100 2700 2700 2100 2700 2700 2100 2100	REAR FRONT FRONT REAR FRONT FRONT FRONT FRONT FRONT FRONT FRONT	346215.17 346199.40 346185.94 346169.55 346159.11 346145.72 346104.18	6382529.34 6382513.23 6382512.12 6382540.30 6382509.08 6382507.11	74.23 72.62 71.99 70.57 70.39 69.30	72.91 70.71 70.07 69.26 68.47	-0.16 -0.22 -0.23 -0.16 -0.27
2404       72.76         2405       72.13         2406       70.65         2407       70.57         2408       69.47         2409       68.14         2410       68.26         2411       68.46         2412       69.27         2413       69.60         2414       71.40         2415       73.92         2416       73.95         2417       75.03         2418       75.32         2419       71.94         2420       70.84         2421       70.04         2422       71.82         2423       72.79	70.03 69.40 68.52 67.84 66.74 66.01 66.13 66.03 67.14 67.47 69.27 71.79	70.93 70.30 69.42 68.74 67.64 66.91 67.03 66.93 68.04 68.37	2700 2700 2100 2700 2700 2100 2100 2400 2100	FRONT FRONT REAR FRONT FRONT FRONT FRONT FRONT FRONT FRONT	346199.40 346185.94 346169.55 346159.11 346145.72 346104.18	6382513.23 6382512.12 6382540.30 6382509.08 6382507.11	72.62 71.99 70.57 70.39 69.30	70.71 70.07 69.26 68.47	-0.22 -0.23 -0.16 -0.27
2405       72.13         2406       70.65         2407       70.57         2408       69.47         2409       68.14         2410       68.26         2411       68.46         2412       69.27         2413       69.60         2414       71.40         2415       73.92         2416       73.95         2417       75.03         2418       75.32         2419       71.94         2420       70.84         2421       70.04         2422       71.82         2423       72.79	69.40 68.52 67.84 66.74 66.01 66.13 66.03 67.14 67.47 69.27 71.79	70.30 69.42 68.74 67.64 66.91 67.03 66.93 68.04 68.37	2700 2100 2700 2700 2100 2100 2400 2100	FRONT REAR FRONT FRONT FRONT FRONT FRONT FRONT	346185.94 346169.55 346159.11 346145.72 346104.18	6382512.12 6382540.30 6382509.08 6382507.11	71.99 70.57 70.39 69.30	70.07 69.26 68.47	-0.23 -0.16 -0.27
2406       70.65         2407       70.57         2408       69.47         2409       68.14         2410       68.26         2411       68.46         2412       69.27         2413       69.60         2414       71.40         2415       73.92         2416       73.95         2417       75.03         2418       75.32         2419       71.94         2420       70.84         2421       70.04         2422       71.82         2423       72.79	68.52 67.84 66.74 66.01 66.13 66.03 67.14 67.47 69.27 71.79	69.42 68.74 67.64 66.91 67.03 66.93 68.04 68.37	2100 2700 2700 2100 2100 2400 2100	REAR FRONT FRONT FRONT FRONT FRONT FRONT	346169.55 346159.11 346145.72 346104.18	6382540.30 6382509.08 6382507.11	70.57 70.39 69.30	69.26 68.47	-0.16 -0.27
2407       70.57         2408       69.47         2409       68.14         2410       68.26         2411       68.46         2412       69.27         2413       69.60         2414       71.40         2415       73.92         2416       73.95         2417       75.03         2418       75.32         2419       71.94         2420       70.84         2421       70.04         2422       71.82         2423       72.79	67.84 66.74 66.01 66.13 66.03 67.14 67.47 69.27 71.79	68.74 67.64 66.91 67.03 66.93 68.04 68.37	2700 2700 2100 2100 2400 2100	FRONT FRONT FRONT FRONT FRONT	346159.11 346145.72 346104.18	6382509.08 6382507.11	70.39 69.30	68.47	-0.27
2408       69.47         2409       68.14         2410       68.26         2411       68.46         2412       69.27         2413       69.60         2414       71.40         2415       73.92         2416       73.95         2417       75.03         2418       75.32         2419       71.94         2420       70.84         2421       70.04         2422       71.82         2423       72.79	66.74 66.01 66.13 66.03 67.14 67.47 69.27 71.79	67.64 66.91 67.03 66.93 68.04 68.37	2700 2100 2100 2400 2100	FRONT FRONT FRONT FRONT	346145.72 346104.18	6382507.11	69.30		
2409       68.14         2410       68.26         2411       68.46         2412       69.27         2413       69.60         2414       71.40         2415       73.92         2416       73.95         2417       75.03         2418       75.32         2419       71.94         2420       70.84         2421       70.04         2422       71.82         2423       72.79	66.01 66.13 66.03 67.14 67.47 69.27 71.79	66.91 67.03 66.93 68.04 68.37	2100 2100 2400 2100	FRONT FRONT FRONT	346104.18			67.39	
2410     68.26       2411     68.46       2412     69.27       2413     69.60       2414     71.40       2415     73.92       2416     73.95       2417     75.03       2418     75.32       2419     71.94       2420     70.84       2421     70.04       2422     71.82       2423     72.79	66.13 66.03 67.14 67.47 69.27 71.79	67.03 66.93 68.04 68.37	2100 2400 2100	FRONT FRONT		6382538.69	60 07		-0.25
2411     68.46       2412     69.27       2413     69.60       2414     71.40       2415     73.92       2416     73.95       2417     75.03       2418     75.32       2419     71.94       2420     70.84       2421     70.04       2422     71.82       2423     72.79	66.03 67.14 67.47 69.27 71.79	66.93 68.04 68.37	2400 2100	FRONT	346108.50		68.07	66.76	-0.15
2412     69.27       2413     69.60       2414     71.40       2415     73.92       2416     73.95       2417     75.03       2418     75.32       2419     71.94       2420     70.84       2421     70.04       2422     71.82       2423     72.79	67.14 67.47 69.27 71.79	68.04 68.37	2100			6382520.17	68.22	66.91	-0.12
2413     69.60       2414     71.40       2415     73.92       2416     73.95       2417     75.03       2418     75.32       2419     71.94       2420     70.84       2421     70.04       2422     71.82       2423     72.79	67.47 69.27 71.79	68.37			346119.13	6382478.41	68.33	66.71	-0.22
2414       71.40         2415       73.92         2416       73.95         2417       75.03         2418       75.32         2419       71.94         2420       70.84         2421       70.04         2422       71.82         2423       72.79	69.27 71.79		2100	FRONT	346126.84	6382459.83	69.12	67.81	-0.23
2415     73.92       2416     73.95       2417     75.03       2418     75.32       2419     71.94       2420     70.84       2421     70.04       2422     71.82       2423     72.79	71.79	70.17	2100	FRONT	346151.05	6382487.06	69.46	68.15	-0.22
2416     73.95       2417     75.03       2418     75.32       2419     71.94       2420     70.84       2421     70.04       2422     71.82       2423     72.79			2100	FRONT	346176.57	6382490.44	71.28	69.96	-0.21
2417     75.03       2418     75.32       2419     71.94       2420     70.84       2421     70.04       2422     71.82       2423     72.79	71.82	72.69	2100	REAR	346201.78	6382476.17	73.83	72.52	-0.17
2418     75.32       2419     71.94       2420     70.84       2421     70.04       2422     71.82       2423     72.79	11.02	72.72	2100	REAR	346201.75	6382474.17	73.84	72.52	-0.20
2419     71.94       2420     70.84       2421     70.04       2422     71.82       2423     72.79	72.30	73.20	2700	FRONT BATTER	346229.92	6382459.17	74.98	73.06	-0.14
2420       70.84         2421       70.04         2422       71.82         2423       72.79	72.59	73.49	2700	FRONT	346228.34	6382444.08	75.28	73.37	-0.12
2421       70.04         2422       71.82         2423       72.79	69.81	70.71	2100	REAR	346179.52	6382455.12	71.83	70.51	-0.20
2422       71.82         2423       72.79	68.71	69.61	2100	REAR	346159.44	6382451.56	70.73	69.41	-0.20
2423 72.79	67.91	68.81	2100	REAR	346132.80	6382442.35	69.97	68.66	-0.15
	69.69	70.59	2100	FRONT	346153.76	6382400.98	71.62	70.30	-0.29
27.27. 73.70	70.66	71.56	2100	FRONT	346175.60	6382404.05	72.72	71.40	-0.16
2424   73.70	71.57	72.47	2100	FRONT BATTER	346161.70	6382363.11	73.58	72.27	-0.20
2425 74.30	72.17	73.07	2100	REAR	346164.40	6382337.25	74.23	72.92	-0.15
2426 76.47	74.34	75.24	2100	REAR	346188.46	6382340.44	76.42	75.10	-0.14
2427 77.44	75.31	76.21	2100	REAR	346208.63	6382332.83	77.40	76.09	-0.12
2428 78.29	76.16	77.06	2100	REAR	346230.45	6382330.81	78.28	76.96	-0.10
2429 76.57	74.44	75.34	2100	REAR	346208.25	6382351.67	76.49	75.17	-0.17
2430 75.63	73.50	74.40	2100	REAR	346205.59	6382373.58	75.54	74.22	-0.18
2431 74.36	72.23	73.13	2100	FRONT	346200.08	6382406.57	74.26	72.95	-0.18
2432 76.04	73.91	74.81	2100	FRONT	346216.37	6382407.71	75.88	74.57	-0.24
2433 77.58	75.45	76.35	2100	REAR	346292.53	6382343.43	77.52	76.20	-0.15
2434 77.96	75.23	76.13	2700	FRONT	346261.74	6382354.43	77.91	75.99	-0.14
2435 77.52	74.79	75.69	2700	FRONT	346257.46	6382371.92	77.46	75.55	-0.14
2436 77.38	74.65	75.55	2700	FRONT	346253.02	6382390.39	77.33	75.42	-0.13
2437 76.64	74.21	75.11	2400	FRONT	346249.27	6382415.70	76.63	75.01	-0.10
2438 75.97		74.74	2100	FRONT	346248.78	6382437.95	75.88	74.57	-0.17
2439 75.58	73.84	74.35	2100	FRONT	346251.09	6382461.76	75.43	74.12	-0.23
2440 75.37	73.84 73.45	73.84	2400	FRONT	346254.16	6382492.45	75.25	73.64	-0.20

2200 PROVIDE DN25 ELECTRICAL CONDUIT CONNECTION TO TANK AND TURN UP WITH LONG RADIUS SWEEP BEND TO SURFACE. TOP OF TANK LEVEL LEAVE 100mm ABOVE SURFACE LEVEL, CAPPED FOR FUTURE FINISHED SURFACE LEVEL CONNECTION BY ELECTRICAL (AFTER LANDSCAPING BY HOME OWNER) CONTRACTOR FINISHED SURFACE LEVEL BY DEVELOPER DN40 PE PRESSURE DN100 PVC POT RISER AND SEWER SERVICE PROPERTY CONNECTION, MIN.100mm ABOVE FSL AND CAPPED FOR LATER CONNECTION BY OWNER e one PRESSURE SEWER UNIT (PSU) WASTEWATER COLLECTION TANK INSTALLED IN CONJUNCTION WITH BOUNDARY KIT TO MANUFACTURERS REQUIREMENTS (TYP.) (2400mm DEEP PSU SHOWN) PROPERTY CONNECTION INVERT LEVEL (PCIL) FOR TYPICAL DETAILS REFER TO STANDARD DRAWINGS FSI-1000\_FS, FSI-SK03A\_FS AND FSI-SK03B\_FS \_ N20 CONCRETE BALLAST TO ENCASE INLET ELBOW
BUT NOT ABOVE TOP OF SOCKET AS SHOWN BASE INVERT LEVEL (BIL) ----- SELECT GRANULAR FILL

DEVELOPER

HOME OWNER

PRESSURE SEWER SERVICE CONNECTION

TYPICAL SECTIONAL ELEVATION

SCALE 1:20

# WORK AS CONSTRUCTED

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COMPANY ADWJohnson Pty Ltd COMPANY
NAME MATHEW DAVID LONDON NAME
SIGNED DATE 30/03/2022 SIGNED

DATE ....../...... CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

REGISTERED SURVEYOR

PM 20029 E: 345 612. 942 N: 6 382 878. 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:07/07/2021

## AS CONSTRUCTED

REV	. DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY SCALES			CLIENT	PROPERTY DESCRIPTION		PROJECT POTABLE \	WATER, RECYCLED WA	ATER AND	
		PRELIMINARY ISSUE	G.S.	C.B.	T.S.	C.B. 0 0.4 0.8 A1 / A3		Hunter Office	altogether.	PROPOSED SUBDIVISION STAGE 24 HUNTLEE		PRESSURE SEWER RETICULATION			
- <b>  </b>		FOR APPROVAL	G.S.			C.B. 1:20 / 1:40		Unit 7/335 Hillsborough Rd				PLAN TITLE			
C		SURFACE AND SEWER POT DETAILS UPDATE	G.S.			C.B.	adw	Warners Bay N.S.W. 2282 Phone: (02) 4978 5100				WASTE WATER COLLECTION			
		CONSTRUCTION ISSUE	G.S.	C.B.	1.5.	C.B.		Fax: (02) 4978 5100				TANK LEVEL DETAILS			
		WASTE WATER COLLECTION TANK LEVEL DETAILS UPDATE	G.S.			C.B.		email: hunter@adwjohnson.com.au							
<b>=</b>   <sup>2</sup>		POT SIZE ALTERATION (SHEET 015 - LOT 2439)	G.S.	0.0	TC	C.B.		www.adwjohnson.com.au							
<b>4</b>	30.03.2022	WORK AS CONSTRUCTED	1.8.	5.5.	1.5.	C.B.	Johnson			SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
DESI	GN FILE N:\					ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		ABN 62 129 445 398		DALY.SMITH Pty Ltd	MGA56 GDA94 — A.H.D.	240037(24)	- WAC -	021	3

Plotted By: shanes Plot Date: 28/04/22 - 09:59 Cad File: \jpserver10\adw-data\240072\DWG\Water & Sewer\Stage 24-WAC\240037(24)-WAC-021.dwg

WASTEWATER COLLECTION TANK COUNT

2100

2400 2700

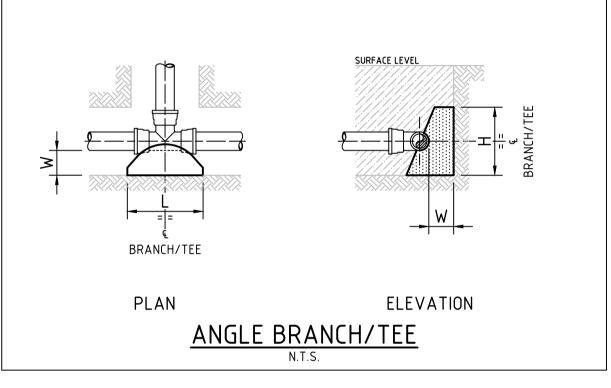
TANK SIZE NUMBER OF

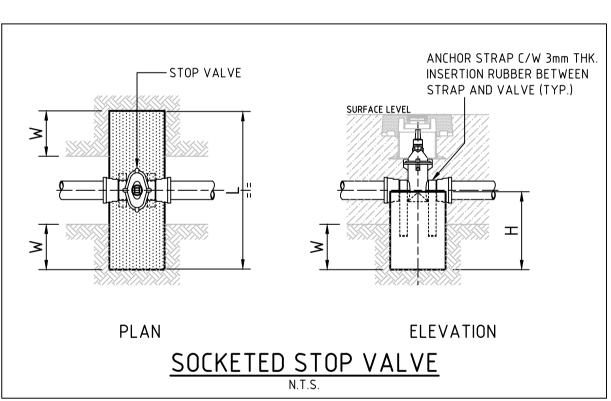
#### THRUST BLOCK NOTES:

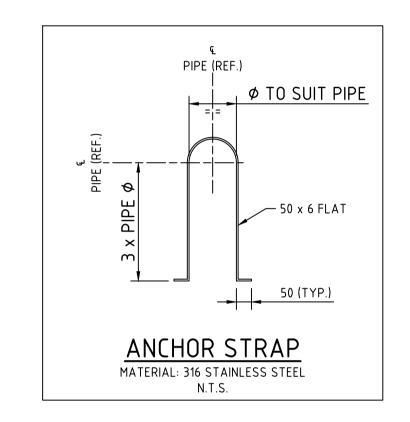
- 1. "N" DENOTES NOMINAL THRUST AREA TO BE ACHIEVED BY POURING CONCRETE THE FULL LENGTH OF THE FITTING AND EXTENDING FROM THE FLOOR OF THE TRENCH TO NOM. 100mm ABOVE THE FITTING.
- 2. CONCRETE THRUST BLOCKS ARE TO BE PROVIDED FOR ALL FITTINGS IN ACCORDANCE WITH TABLE.
- 3. THRUST BLOCK DIMENSIONS ARE 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.
- 4. THRUST BLOCKS ARE TO BE CONSTRUCTED SUCH THAT THEY TRANSFER THE THRUST ONTO UNDISTURBED GROUND. THRUST BLOCKS ARE NOT TO INTERFERE WITH OTHER SERVICES.
- 5. 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°.
- 6. CONCRETE FOR THE THRUST BLOCKS TO BE GRADE S25 USING CEMENT TYPE "SR" TO AS3972. CONCRETE TO BE MECHANICALLY VIBRATED.
- 7. CONCRETE THRUST BLOCKS ARE TO BE CURED FOR A MINIMUM OF 7 DAYS BEFORE BEING SUBJECTED TO ANY THRUST LOAD.
- 8. REFER TO WAT-1205-V FOR GENERAL FITTING THRUST BLOCK ARRANGEMENTS.
- 9. REFER TO WAT-1207-V FOR GENERAL VALVE AND VERTICAL BEND THRUST BLOCK ARRANGEMENTS.
- 10. THRUST BLOCK TO EXTEND 300mm MINIMUM INTO BASE AND SIDE WALLS OF TRENCH.

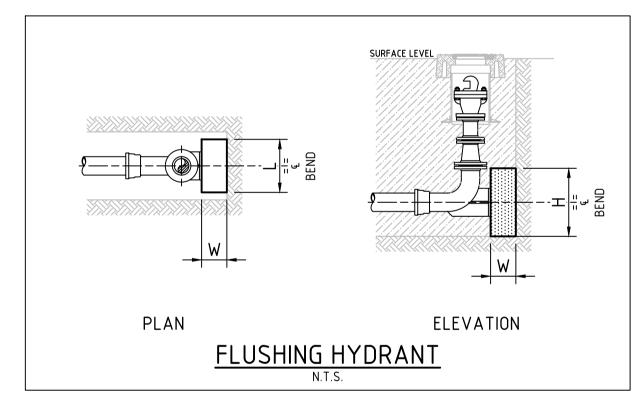
11.	PROVIDE 3mm	THK.	INSERTION	RUBBER	BETWEEN	<b>ANCHOR</b>	STRAP	AND	PIPE I	BARREL.

TYPE	FITTING	SOIL AHBP (kPa)	DESIGN STP (kPa)	THRUST	T A (m²)	LENGTH (L)	HEIGHT (H)	WIDTH (W)
1	DN150 x DN150 EQUAL TEE	100	1000	25.00	0.25	0.50	0.50	0.30
2	DN150 x DN100 REDUCING TEE	100	1000	12.00	0.12	0.40	0.30	0.30
3	DN150 SOCKETED STOP VALVE	100	1000	25.00	0.25	1.05	0.46	0.30
4	DN150 FLUSHING HYDRANT	100	1000	25.00	0.25	0.50	0.50	0.30
5	DN100 x DN100 EQUAL TEE	100	1000	12.00	0.12	0.40	0.30	0.30
6	DN100 SOCKETED STOP VALVE	100	1000	12.00	0.12	1.05	0.44	0.30
7	DN100 FLUSHING HYDRANT	100	1000	12.00	0.12	0.40	0.30	0.30









#### WORK AS CONSTRUCTED

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NAME MATHEW DAVID LONDON DATE 30/03/2022 SIGNED REGISTERED SURVEYOR

DATE ...../...../ CONSTRUCTION MANAGER

# ORIGIN OF W.A.C. LEVELS

Co-Ord System: MGA Ground MGA Datum: GDA94 MGA Zone: 56 E: 345 612. 942 N: 6 382 878. 917 RL: 77.675m

APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd Date Approved:07/07/2021

# AS CONSTRUCTED

	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY SCALES				CLIENT	PROPERTY DESCRIPTION		PROJECT POTABLE \	WATER, RECYCLED \	VATER AND		
Ш		29.03.2021	PRELIMINARY ISSUE	G.S.	C.B.	T.S.	C.B.			Hunter Office				PRESSURE SEWER RETICULATION				
41	В	22.05.2021	FOR APPROVAL	G.S.	C.B.	T.S.	C.B.		Unit 7/335			PROPOSED	SUBDIVISION	PLAN TITLE				
	С	06.06.2021	SURFACE AND SEWER POT DETAILS UPDATE	G.S.	C.B.	T.S.	C.B.			Warners Bay N.S.W. 2282	all to a a t la a u	STAGE 24 HUNTLEE		THRUST BLOCK DETAILS				
41	0	07.07.2021	CONSTRUCTION ISSUE	G.S.	C.B.	T.S.	C.B.			Phone: (02) 4978 5100								
	1	24.08.2021	WASTE WATER COLLECTION TANK LEVEL DETAILS UPDATE	G.S.	C.B.	T.S.	C.B.			Fax: (02) 4978 5199	3							
41	2	24.09.2021	POT SIZE ALTERATION (SHEET 015 - LOT 2439)	G.S.	C.B.	T.S.	C.B.		GIGITY	email: hunter@adwjohnson.com.au								
4	3	30.03.2022	WORK AS CONSTRUCTED	I.B.	S.S.	T.S.	C.B.		labraar	www.adwjohnson.com.au		SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.	
DESIGN FILE N:\				ALL DIMENSIONS	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE JOHNSON ABN 62 129 445 398				DALY.SMITH Pty Ltd	MGA56 GDA94 — A.H.D.	240037(24)	- WAC -	022	3				

Plotted By: shanes Plot Date: 28/04/22 - 09:59 Cad File: \\jpserver10\adw-data\240072\DWG\Water & Sewer\Stage 24-WAC\240037(24)-WAC-022.dwg