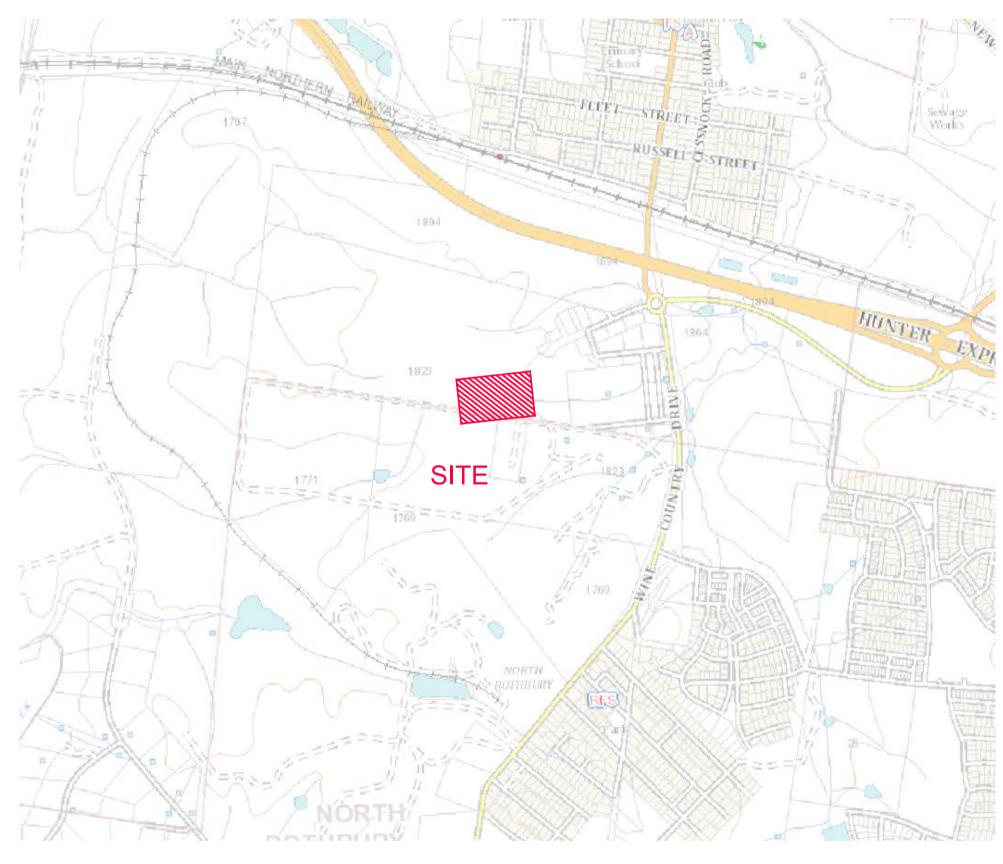
# PROPOSED SUBDIVISION STAGE - TOWN CENTRE RESIDENTIAL 2 HUNTLEE





LOCALITY SKETCH NOT TO SCALE

	DRAWING INDEX
DRAWING NUMBER	DRAWING TITLE
240037(TC2)-WAC-001	COVER SHEET, LOCALITY PLAN & DRAWING INDEX
240037(TC2)-WAC-002	GENERAL NOTES
240037(TC2)-WAC-003	OVERALL SITE PLAN
240037(TC2)-WAC-101	POTABLE WATER DETAIL PLAN - SHEET 1
240037(TC2)-WAC-102	POTABLE WATER DETAIL PLAN - SHEET 2
240037(TC2)-WAC-201	RECYCLED WATER DETAIL PLAN - SHEET 1
240037(TC2)-WAC-202	RECYCLED WATER DETAIL PLAN - SHEET 2
240037(TC2)-WAC-301	PRESSURE SEWER DETAIL PLAN - SHEET 1
240037(TC2)-WAC-302	PRESSURE SEWER DETAIL PLAN - SHEET 2
240037(TC2)-WAC-401	TYPICAL PIPEWORK TRENCHING DETAIL
240037(TC2)-WAC-402	TYPICAL PROPERTY CONNECTION DETAILS
240037(TC2)-WAC-403	WASTE WATER COLLECTION TANK LEVEL DETAILS
240037(TC2)-WAC-404	THRUST BLOCK DETAILS
240037(TC1)-WAC-405	FITTING DETAILS

## WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 29-05-2024 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

SIGNED LESQUELL DATE 06-06-2024 SIGNED

REGISTERED SURVEYOR

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

ORIGIN OF W.A.C. LEVELS Co-Ord System: MGA Ground 345612.942

MGA Datum: GDA94 N: 6382878.917 MGA Zone: 56 RL: 77.675

APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd

Date Approved:15-09-2320



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## AS CONSTRUCTED

POTABLE WATER, RECYCLED WATER AND

1110								
	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
20	Α	18.11.2022	INITIAL ISSUE	G.S.	M-P.C.	G.S.	C.B.	
	D	01.08.2023	ALTOGETHER GROUP COMMENTS & NEW SURFACE	G.S.	C.H.	G.S.	C.H.	
2	Ε	28.08.2023	NEW SURFACE	G.S.	C.H.	G.S.	C.H.	
	0	15.09.2023	FOR CONSTRUCTION	G.S.	C.H.	G.S.	C.H.	
	1	14.11.2023	FOR CONSTRUCTION	G.S.	C.H.	G.S.	C.H.	
ار د ا	2	05.06.2024	WORK AS CONSTRUCTED	G.S.	C.H.	G.S.	C.H.	
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PROPOSED SUBDIVISION STAGE - TOWN CENTRE RESIDENTIAL 2	
HUNTLEE	

PROPERTY DESCRIPTION

PRESSURE SEWER RETICULATION PLAN TITLE COVER SHEET, LOCALITY PLAN & DRAWING INDEX

DISCIPLINE PROJECT No. 240037(TCR2) -WAC GDA94 M.G.A. ZONE 56 A.H.D. Daly.Smith Pty Ltd

ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE DESIGN FILE N:\240037\DWG\Water & Sewer\Stage TC2\x-240037(TC2)-HUNTLEE-DESIGN.dwg Cad File: N:\240072\DWG\Water & Sewer\STAGE TCR 2 WAC\240037(TCR2)-WAC-003.dwg

REV. DATE AMENDMENT

E 28.08.2023 NEW SURFACE

0 15.09.2023 FOR CONSTRUCTION

14.11.2023 FOR CONSTRUCTION

2 | 05.06.2024 | WORK AS CONSTRUCTED

INITIAL ISSUE

D 01.08.2023 ALTOGETHER GROUP COMMENTS & NEW SURFACE

18.11.2022

# PRESSURE SEWER NOTES

- 1. 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.
- 3. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. 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.
- 4. 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 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
- 8. MAINS WITHIN 2.0m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE ALTOGETHER
- 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.
- 11. 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).

IS GRANTED BY THE AFFECTED PROPERTY OWNER.

REPRESENTATIVE).

- 13. 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 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.

HORIZONTAL CLEARANCE OF 400mm. (REFER TO ALTOGETHER STANDARD DRAWINGS FOR SETOUT DIMENSIONS).

- 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.
- 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
- 21. 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.
- 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:
- 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
- 32. WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.
- 33. ELECTRICAL GLAND CONNECTION SUPPLIED LOOSE WITH EACH SEWER POT IS TO BE INSTALLED BY THE CIVIL CONTRACTOR AND ELECTRICAL CONDUIT ATTACHED TO THE TANK FOR FUTURE ELECTRICAL WIRING.

### POTABLE WATER AND RECYCLED WATER NOTES:

- 1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO 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.

THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.

- 4. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. 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.
- 5. 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 WATERMAINS TO BE BLUE PVC-M (PN16). 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 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.
- 10. 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.
- 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).
- 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):
  - **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
- 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
- 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
- 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.
- 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.
- 3. MAKE SMOOTH TRANSITION TO EXISTING WORKS (i.e. ROAD PAVEMENT AND FOOTPATHS) TO P.C.A. AND SUPERINTENDENT'S REQUIREMENTS.
- 4. SUITABLE PROTECTION TO EXISTING ROAD PAVEMENT, KERB AND GUTTER, FOOTPATHS AND ANY EXISTING FEATURES SHALL BE PROVIDED UNTIL THE CONSTRUCTION WORKS ARE COMPLETED.

### CLEARANCES BETWEEN PIPELINES AND UNDERGROUND SERVICES

UTILITY		ORIZONTAL NCE (mm)	MINIMUM VERTICAL
(EXISTING OR PROPOSED SERVICE)	NEW MA	AIN SIZE	CLEARANCE (mm)
	≤ DN200	≥ DN200	
WATER MAINS > DN375	600	600	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 6 / 600	500 °
SEWERS (PRESSURE AND VACUUM)	600	600	300 9
KERBS	150	600 <sup>5</sup>	150 (WHERE POSSIBLE)

TO BE PROVIDED.

- 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.
- 2. WATER MAINS INCLUDES MAINS SUPPLYING BOTH POTABLE AND RECYCLED WATER.
- 3. FOR AREAS WITH EXISTING WATER RETICULATION, CLEARANCES CAN BE FURTHER REDUCED TO 600mm WITH THE APPROVAL OF THE WATER AUTHORITY.
- 4. CLEARANCES CAN BE FURTHER REDUCED TO 150mm FOR DISTANCES UP TO 2.0m WHEN PASSING INSTALLATIONS SUCH AS POLES, PITS, AND SMALL STRUCTURES, 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 CROSSED.
- 8. AN ADDITIONAL CLEARANCE FROM HIGH VOLTAGE ELECTRICAL INSTALLATIONS SHOULD BE MAINTAINED ABOVE THE CONDUITS OR CABLES TO ALLOW FOR A PROTECTIVE BARRIER AND MARKING
- 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

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 29-05-2024 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 COMPANY ADW Johnson Pty Ltd NAME

SIGNED Listenden DATE 06-06-2024 SIGNED DATE ....../...../.... CONSTRUCTION MANAGER REGISTERED SURVEYOR

### ORIGIN OF W.A.C. LEVELS Co-Ord System: MGA Ground 345612.942 MGA Datum: GDA94 6382878.917 MGA Zone: 56 RL: 77.675

APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd Date Approved:15-09-2320

**PROJECT** 



AS CONSTRUCTED

PROPOSED SUBDIVISION STAGE - TOWN CENTRE RESIDENTIAL 2

POTABLE WATER. RECYCLED WATER AND PRESSURE SEWER RETICULATION PLAN TITLE

GENERAL NOTES

DISCIPLINE

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage TC2\x-240037(TC2)-HUNTLEE-DESIGN.dwg ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCAI Plotted By: glenns Plot Date: 05/06/24 - 13:29 Cad File: N:\240072\DWG\Water & Sewer\STAGE TCR 2 WAC\240037(TCR2)-WAC-003.dwg

DRAWN CHECK DESIGN VERIFY SCALES

G.S.

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**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

CLIENT

PROPERTY DESCRIPTION

Daly.Smith Pty Ltd

HUNTLEE

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

240037(TCR2) -

WAC

002

G.S. G.S. C.H. 1 14.11.2023 FOR CONSTRUCTION C.H. G.S. C.H. C.H. 2 05.06.2024 WORK AS CONSTRUCTED DESIGN FILE N:  $\240037\DWG\Water \& Sewer\Stage TC2\x-240037(TC2)-HUNTLEE-DESIGN.dwg$ 

www.adwjohnson.com.au
ABN 62 129 445 398

FOR POTABLE WATER DETAIL PLANS REFER TO DRG-101 FOR RECYCLED WATER DETAIL PLANS REFER TO DRG-201 🖁 FOR PRESSURE SEWER DETAIL PLANS REFER TO DRG-301

> 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

PLAN

SCALE 1:1000

STAGE TC1 SUBDIVISION



FOR POTABLE WATER DETAIL PLANS REFER TO DRG-102 FOR RECYCLED WATER DETAIL PLANS REFER TO DRG-202 🚣

> PROPOSED SUBDIVISION STAGE - TOWN CENTRE RESIDENTIAL 2 HUNTLEE

PROPERTY DESCRIPTION

POTABLE WATER, RECYCLED WATER AND PROJECT PRESSURE SEWER RETICULATION PLAN TITLE

COMPANY ADWJohnson Pty Ltd

EWEN B. RANDAL

SIGNED BEGISTERED SURVEYOR

OVERALL SITE PLAN

DISCIPLINE

WAC

WORK AS CONSTRUCTED

PM 20029 E: 345612.942

N: 6382878.917

RL: 77.675

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

Co-Ord System: MGA Ground MGA Datum: GDA94

MGA Zone: 56

REV.

003

CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

APPROVED FOR CONSTRUCTION

BY ADW Johnson Pty Ltd

Date Approved:15-09-2320

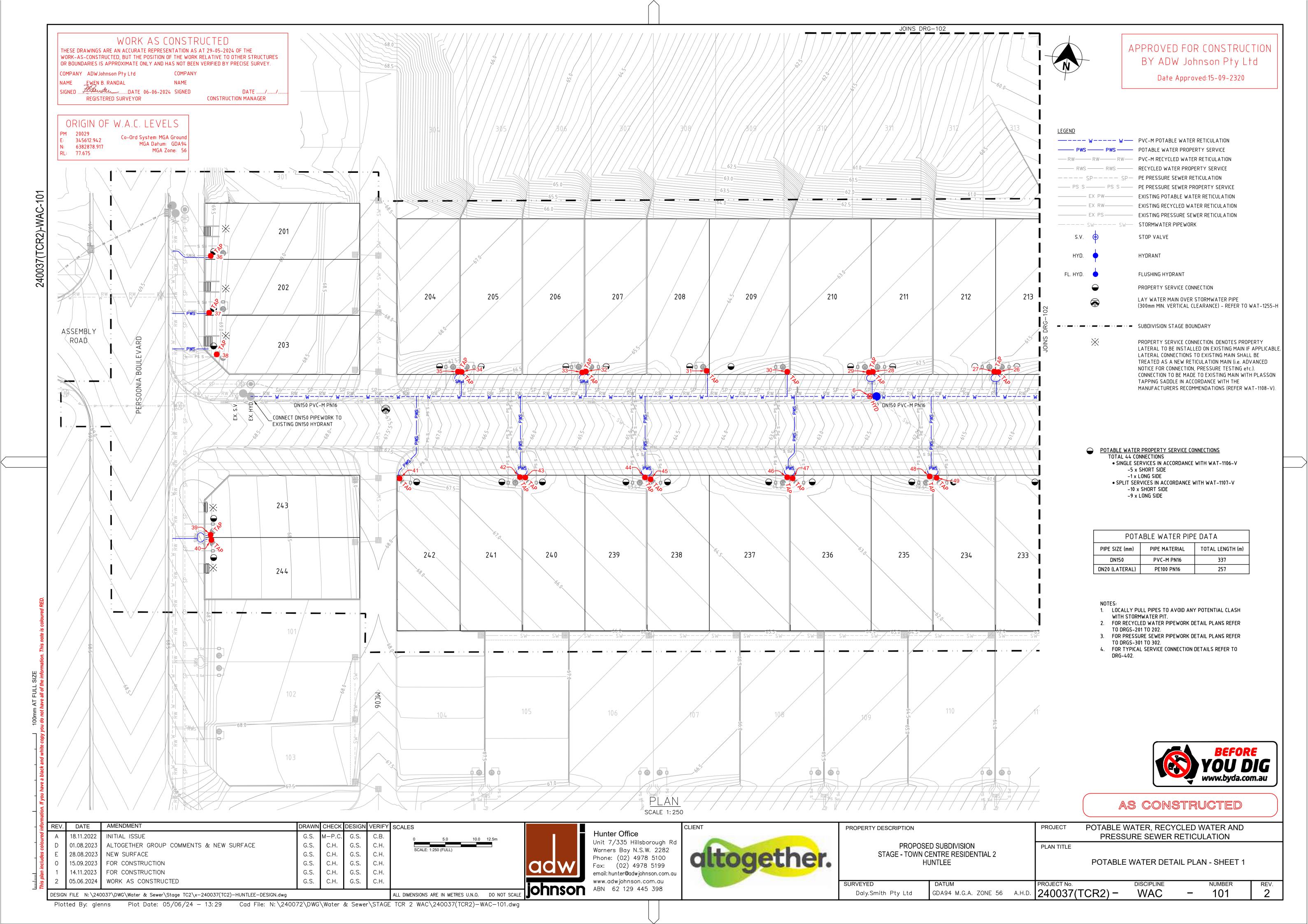
AS CONSTRUCTED

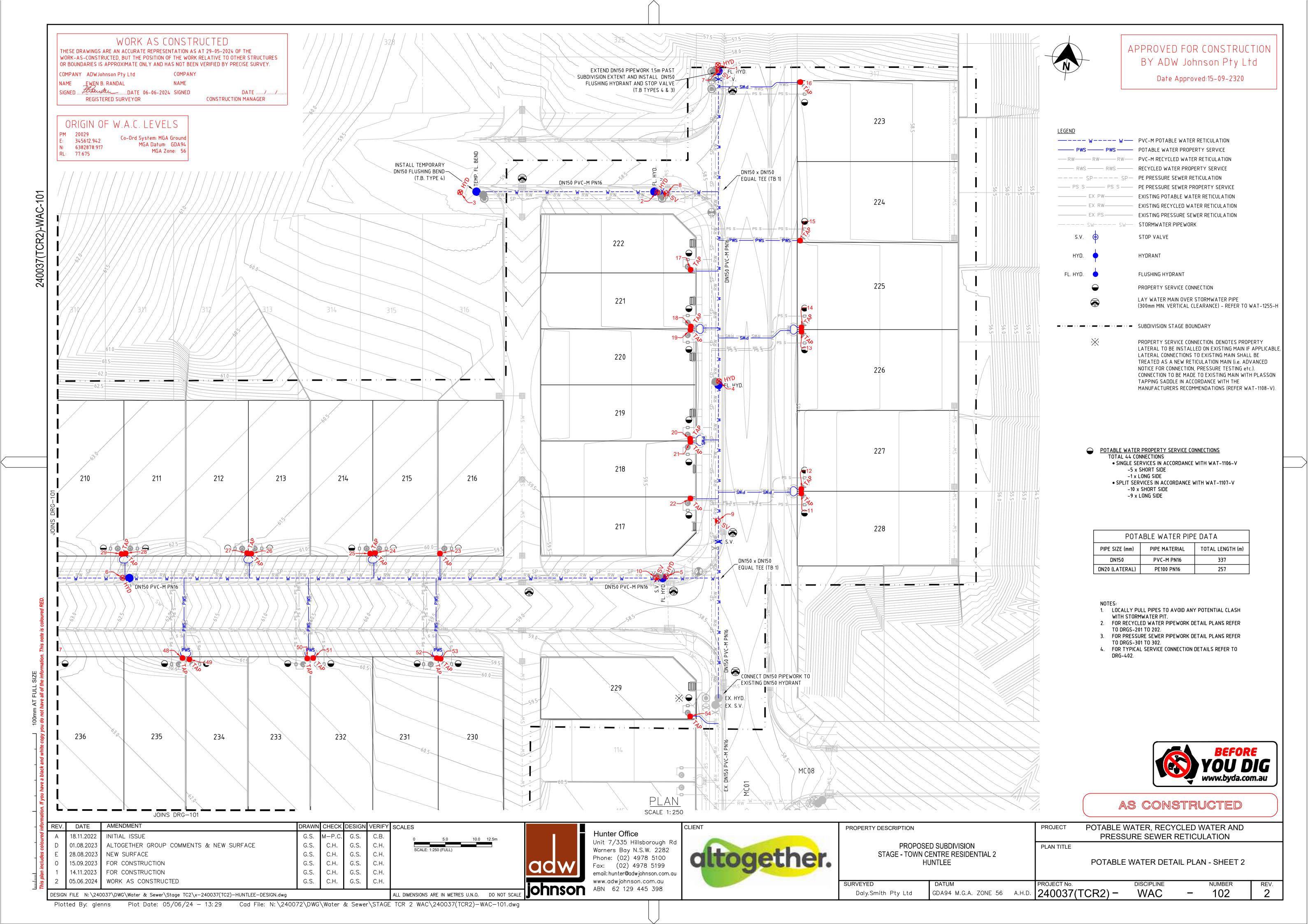
THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 29-05-2024 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

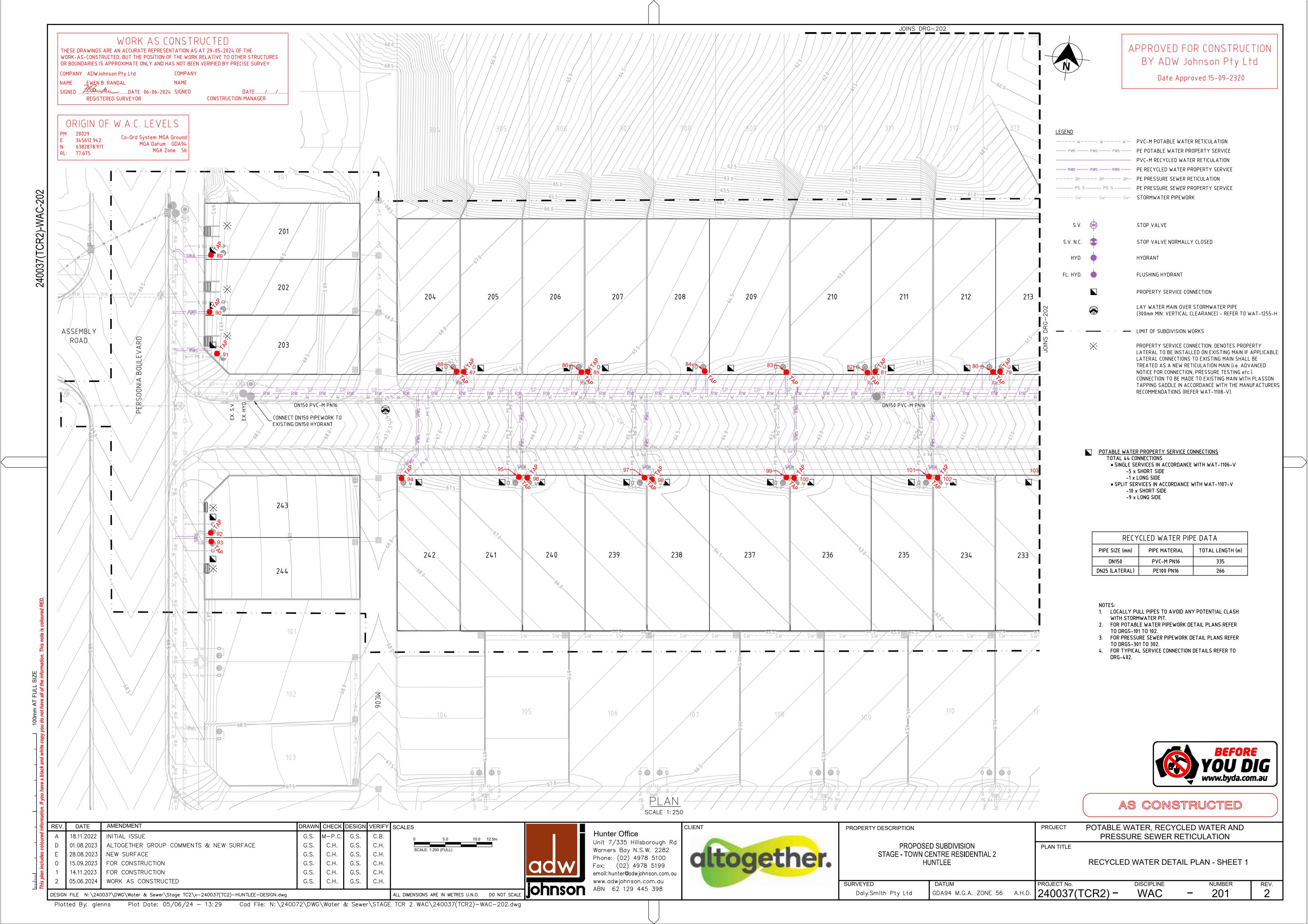
PROJECT No. 240037(TCR2) -Daly.Smith Pty Ltd GDA94 M.G.A. ZONE 56 A.H.D.

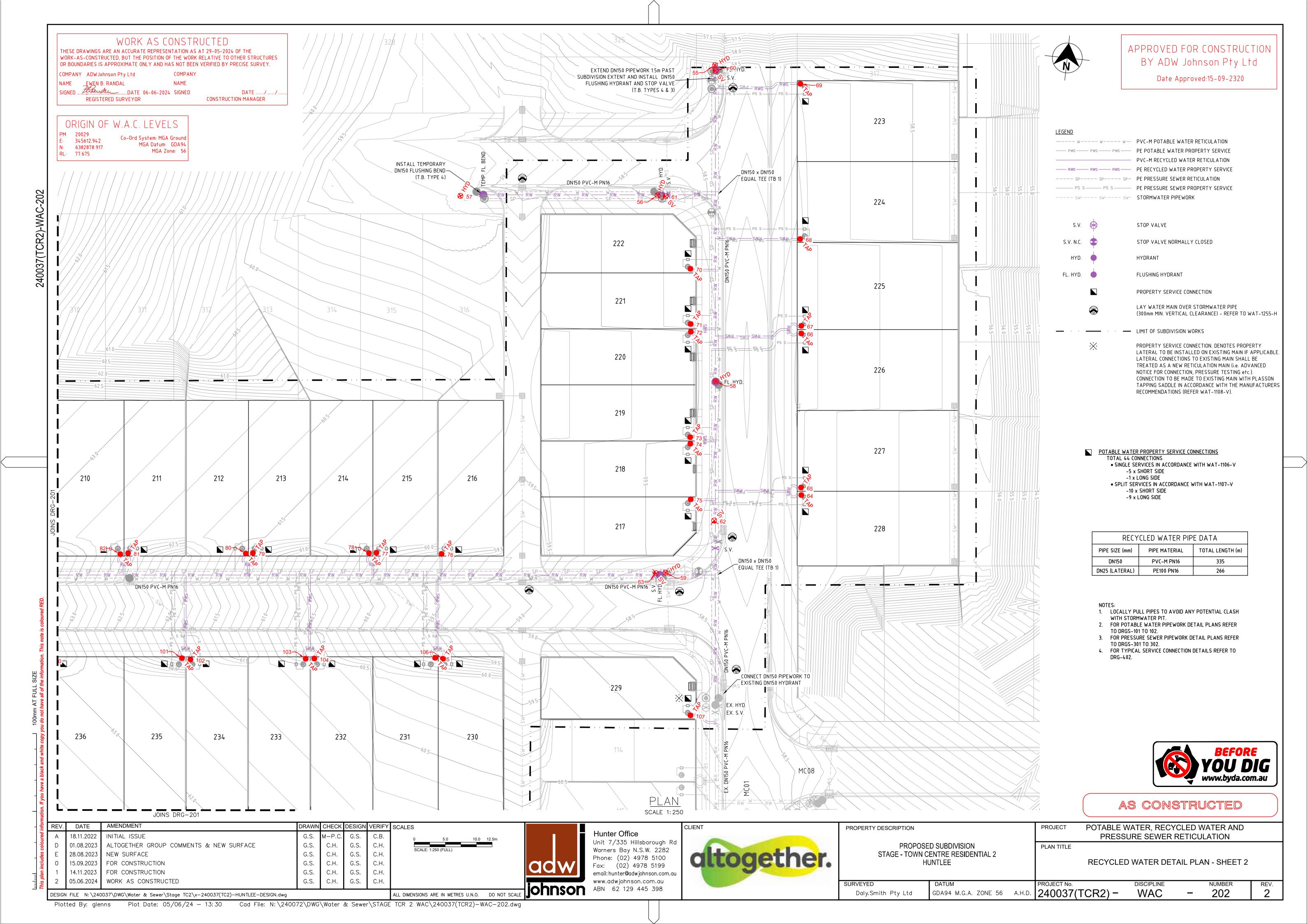
REV. DATE AMENDMENT DRAWN CHECK DESIGN VERIFY SCALES INITIAL ISSUE D 01.08.2023 ALTOGETHER GROUP COMMENTS & NEW SURFACE G.S. C.H. G.S. C.H. E 28.08.2023 NEW SURFACE G.S. C.H. G.S. G.S. C.H. C.H. 0 15.09.2023 FOR CONSTRUCTION

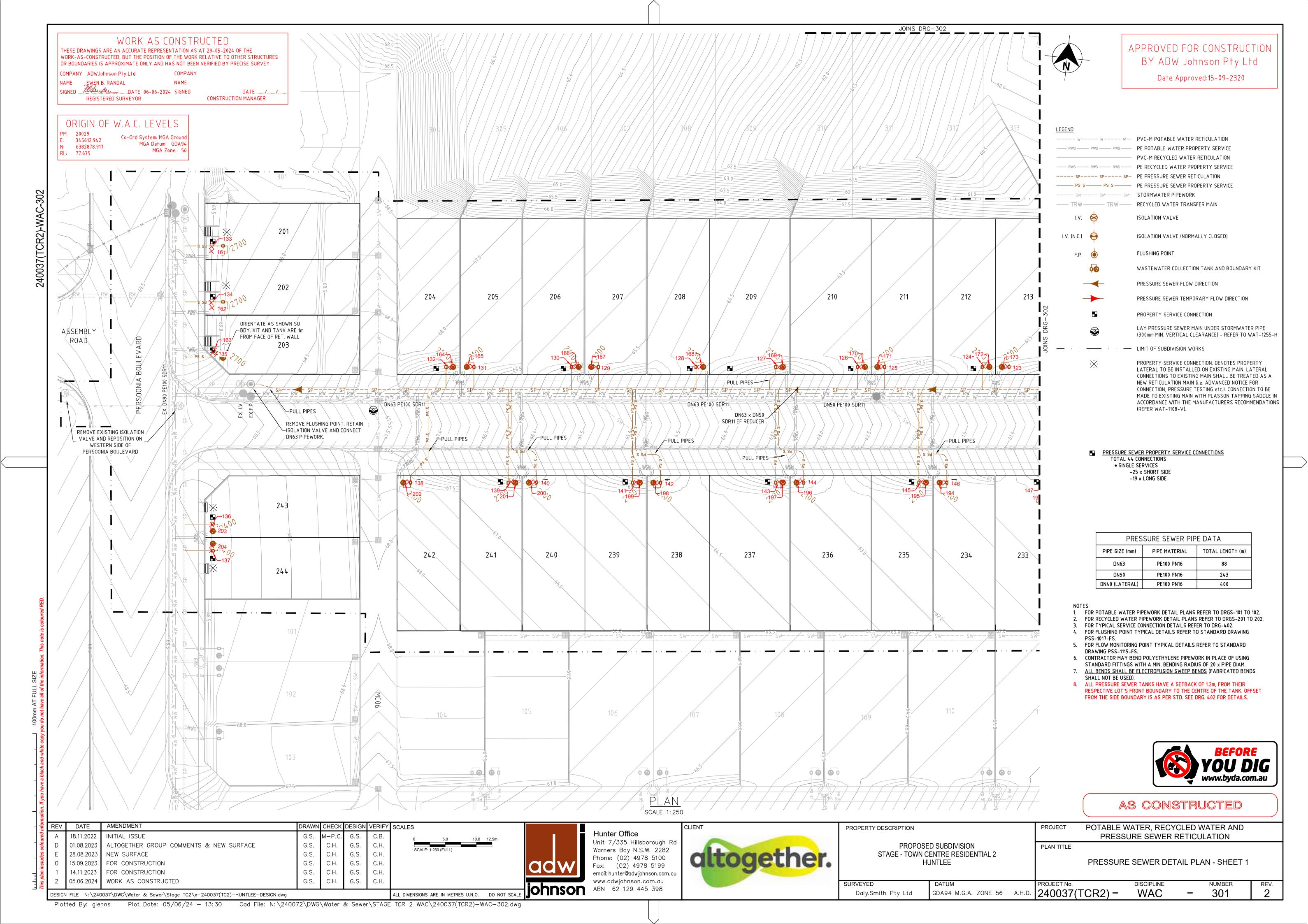
ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALI Plotted By: glenns Plot Date: 05/06/24 - 13:29 Cad File: N:\240072\DWG\Water & Sewer\STAGE TCR 2 WAC\240037(TCR2)-WAC-003.dwg

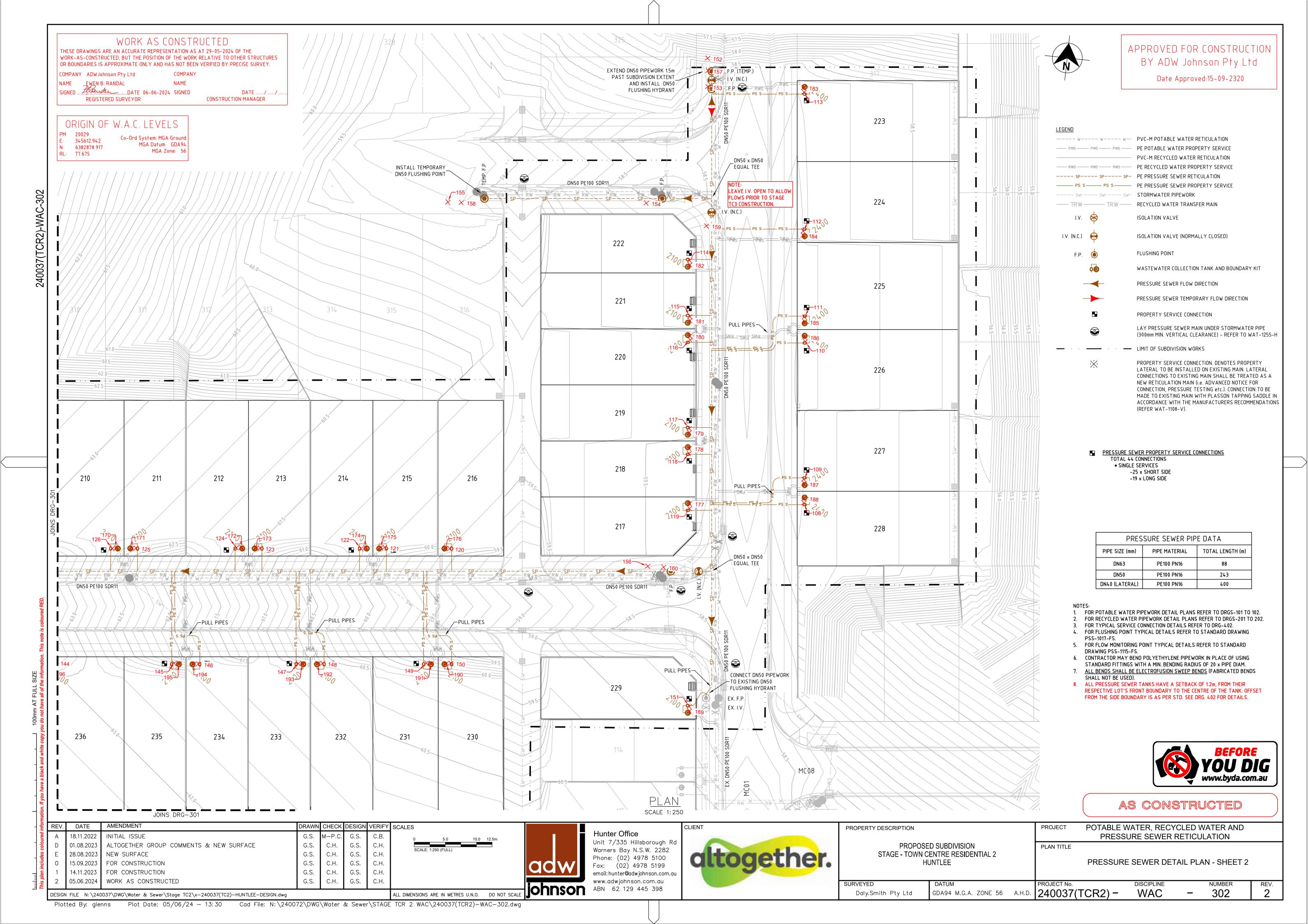












REV. DATE AMENDMENT INITIAL ISSUE E 28.08.2023 NEW SURFACE 0 15.09.2023 FOR CONSTRUCTION 1 14.11.2023 FOR CONSTRUCTION 2 05.06.2024 WORK AS CONSTRUCTED

DRAWN CHECK DESIGN VERIFY SCALES ALTOGETHER GROUP COMMENTS & NEW SURFACE G.S. G.S. C.H. G.S. C.H. G.S. C.H. G.S. G.S. C.H. C.H. G.S. G.S. C.H. C.H. G.S. C.H. C.H.

0 0.1 0.2 0.3 0.4 A1 / A3 1:10 / 1:20

**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

Daly.Smith Pty Ltd

PROPOSED SUBDIVISION STAGE - TOWN CENTRE RESIDENTIAL 2 HUNTLEE

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

POTABLE WATER, RECYCLED WATER AND PROJECT PRESSURE SEWER RETICULATION PLAN TITLE

TYPICAL PIPEWORK TRENCHING DETAIL

WAC

DISCIPLINE PROJECT No.

240037(TCR2) -

STREET PRESSURE MAIN TYPICAL DETAIL SCALE 1:10

150 MIN.

RECYCLED

WATER

500

150 MIN.

POTABLE

WATER

150 MIN.

KERB LINE

PRESSURE

SEWER

FINISHED SURFACE

SELECTED BACKFILL MATERIAL (TYP.)

SENTRY LINE DETECTABLE

TAPE (TYP.)

# WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 29-05-2024 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. RANDAL NAME
SIGNED Besonder DATE 06-06-2024 SIGNED REGISTERED SURVEYOR

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

ORIGIN OF W.A.C. LEVELS

Co-Ord System: MGA Ground MGA Datum: GDA94 345612.942 N: 6382878.917

MGA Zone: 56 RL: 77.675

APPROVED FOR CONSTRUCTION

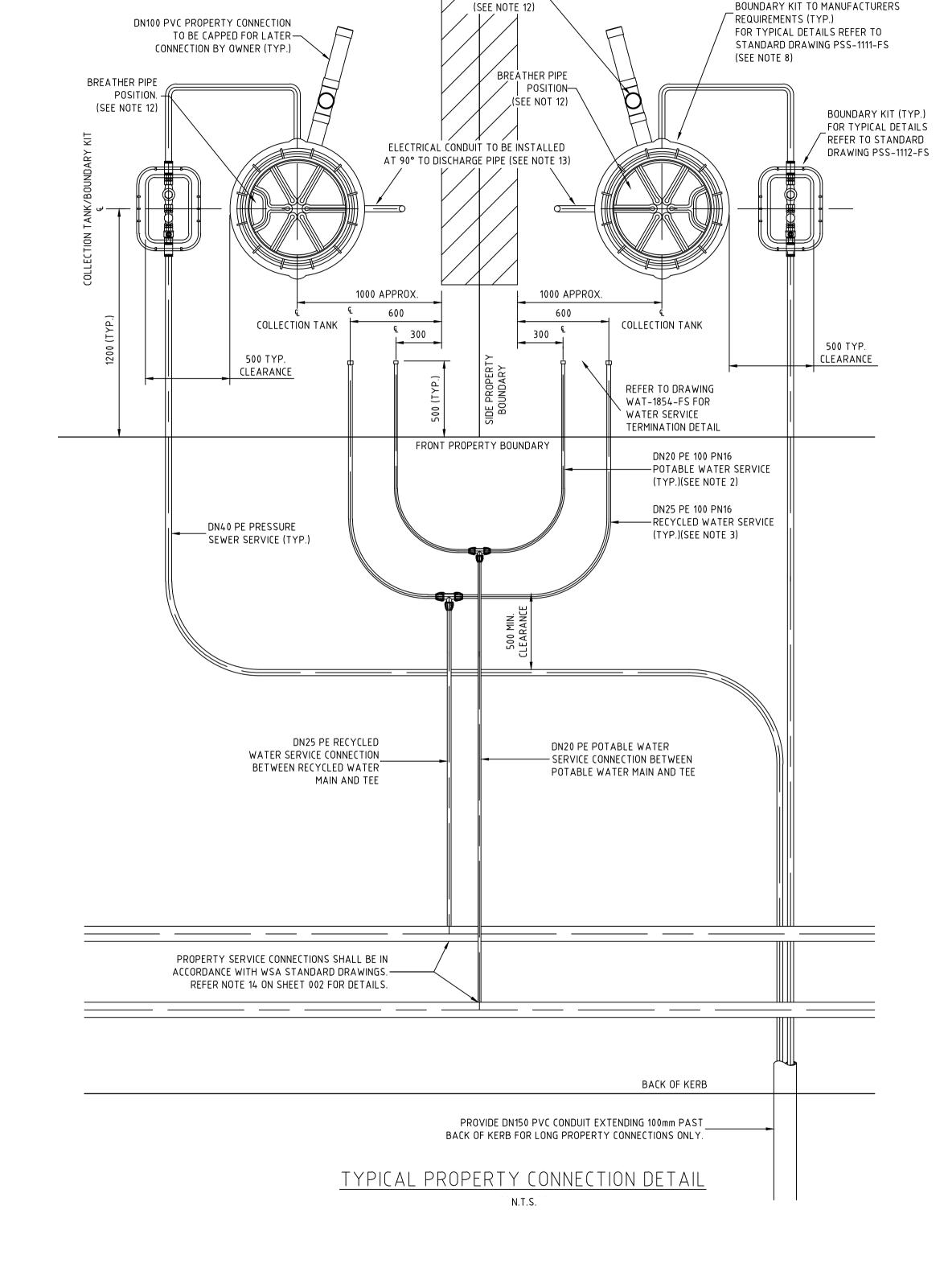
BY ADW Johnson Pty Ltd

Date Approved:15-09-2320

401

# AS CONSTRUCTED

ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALI DESIGN FILE N:  $\240037\DWG\Water \& Sewer\Stage TC2\x-240037(TC2)-HUNTLEE-DESIGN.dwg$ Cad File: N:\240072\DWG\Water & Sewer\STAGE TCR 2 WAC\240037(TCR2)-WAC-401.dwg



RETAINING WALL (REFER TO NOTE 4)

BREATHER PIPE

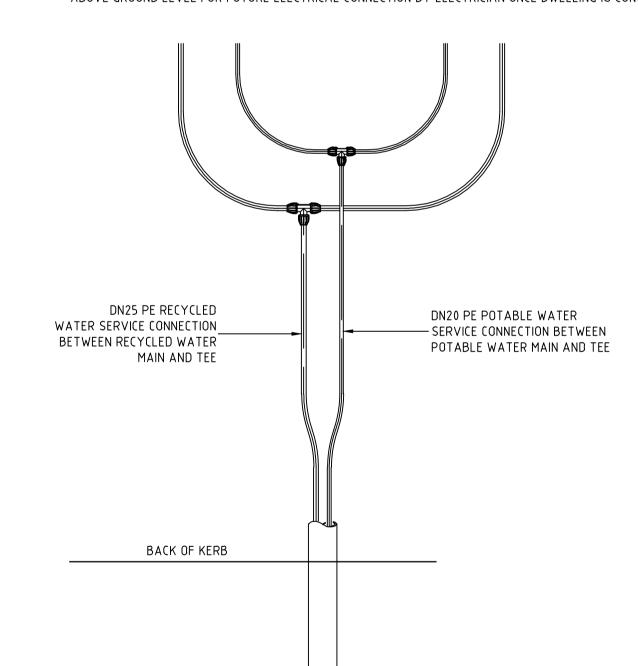
POSITION. -

### NOTES:

e one PRESSURE SEWER UNIT (PSU) WASTEWATER COLLECTION TANK

INSTALLED IN CONJUNCTION WITH

- 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 CAPPED. ELECTRICAL CONDUIT IS TO BE HEAVY DUTY ORANGE. ALL CONDUIT BENDS ARE TO BE LARGE RADIUS SWEEP BENDS.
- 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
- 13. CONTRACTOR TO INSTALL ELECTRICAL CONDUIT CONNECTION (CONDUIT AT 90° FROM DISCHARGE PIPE) IN ACCORDANCE WITH AS3000 AT MIN 500mm COVER. ELECTRICAL GROMMET SUPPLIED WITH TANK AND LOCATED LOOSE WITHIN TANK. \$\phi\_{25}\$ 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.



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

### WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 29-05-2024 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 ADWJohnson Pty Ltd

NAME \_EWEN B. RANDAL

SIGNED LEGAL DATE 06-06-2024 SIGNED DATE ...../.... REGISTERED SURVEYOR CONSTRUCTION MANAGER

### ORIGIN OF W.A.C. LEVELS Co-Ord System: MGA Ground 345612.942

6382878.917

MGA Datum: GDA94 MGA Zone: 56 77.675

APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd

Date Approved:15-09-2320



AS CONSTRUCTED

DRAWN CHECK DESIGN VERIFY SCALES AMENDMENT REV. DATE POTABLE WATER, RECYCLED WATER AND CLIENT PROPERTY DESCRIPTION PROJECT Hunter Office INITIAL ISSUE PRESSURE SEWER RETICULATION Unit 7/335 Hillsborough Rd ALTOGETHER GROUP COMMENTS & NEW SURFACE G.S. G.S. C.H. PROPOSED SUBDIVISION 0.1 0.2 0.3 0.4 A1 / A3 PLAN TITLE Warners Bay N.S.W. 2282 1:10 / 1:20 G.S. C.H. STAGE - TOWN CENTRE RESIDENTIAL 2 G.S. E 28.08.2023 NEW SURFACE C.H. Phone: (02) 4978 5100 TYPICAL PROPERTY CONNECTION DETAILS HUNTLEE G.S. G.S. C.H. 0 15.09.2023 FOR CONSTRUCTION C.H. Fax: (02) 4978 5199 G.S. G.S. C.H. 14.11.2023 FOR CONSTRUCTION C.H. email: hunter@adwjohnson.com.au 2 05.06.2024 WORK AS CONSTRUCTED C.H. G.S. C.H. www.adwjohnson.com.au PROJECT No. DISCIPLINE **Johnson** ABN 62 129 445 398 240037(TCR2) -WAC 402 GDA94 M.G.A. ZONE 56 A.H.D. Daly.Smith Pty Ltd DESIGN FILE N: \240037\DWG\Water & Sewer\Stage TC2\x-240037(TC2)-HUNTLEE-DESIGN.dwg ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCAI

Plot Date: 05/06/24 - 13:30 Cad File: N:\240072\DWG\Water & Sewer\STAGE TCR 2 WAC\240037(TCR2)-WAC-402.dwg LOT NUMBER TOP OF TANK TANK FSL

203

204

205

206

207

208

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218

219

220

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242

243

244

69.58

69.51

69.20

67.56

67.13

66.22

65.83

64.70

64.11

63.01

62.93

61.72

61.64

60.48

60.43

59.96

59.70

59.72

59.79

59.79

59.65

59.60

58.92

59.05

59.24

59.24

59.18

59.18

59.74

60.06

60.13

60.92

61.27

62.09

62.60

63.53

64.10

65.03

65.59

66.35

66.87

67.92

69.07

69.07

69.30

69.23

68.92

67.28

66.85

65.94

65.55

64.42

63.83

62.73

62.65

61.44

61.36

60.20

60.15

59.68

59.42

59.44

59.51

59.51

59.37

59.32

58.64

58.77

58.96

58.96

58.90

58.90

59.46

59.78

59.85

60.64

60.99

61.81

62.32

63.25

63.82

64.75

65.31

66.07

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67.64

68.79

68.79

100mm AT FULL SIZE	
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f you have a black and white copy yo	
	R
s coloured information	
This plan includes	
his p	

info	REV.	DATE	AMENDMENT
ıred	Α	18.11.2022	INITIAL ISSUE
olo	D	01.08.2023	ALTOGETHER
les c	Ε	28.08.2023	NEW SURFACE
ıcluc	0	15.09.2023	FOR CONSTRU
an ir	1	14.11.2023	FOR CONSTRU
This plan includes coloured infon	2	05.06.2024	WORK AS CON
	DESIGN	I FILE N:\240	)037\DWG\Water &
	Plot	ted By: ale	nne Plat D

G.S. G.S. C.H. ALTOGETHER GROUP COMMENTS & NEW SURFACE C.H. G.S. C.H. G.S. NEW SURFACE C.H. G.S. G.S. C.H. FOR CONSTRUCTION C.H. G.S. G.S. C.H. C.H. FOR CONSTRUCTION G.S. C.H. G.S. C.H. WORK AS CONSTRUCTED 37\DWG\Water & Sewer\Stage TC2\x-240037(TC2)-HUNTLEE-DESIGN.dwg Plotted By: glenns Plot Date: 05/06/24 - 13:30

DRAWN CHECK DESIGN VERIFY SCALES 0 0.1 0.2 0.3 0.4 A1 / A3 1:10 / 1:20

**Hunter Office** 

CLIENT altogether.

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION STAGE - TOWN CENTRE RESIDENTIAL 2 HUNTLEE

POTABLE WATER, RECYCLED WATER AND PROJECT PRESSURE SEWER RETICULATION PLAN TITLE

WASTE WATER COLLECTION TANK LEVEL DETAILS

PROJECT No. DISCIPLINE

MGA Zone: 56

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

TOP OF

TANK LID

69.54

69.45

69.135

67.499

67.048

66.142

65.74

64.621

64.024

62.889

62.789

61.627

61.537

60.391

60.332

59.861

59.612

59.642

59.704

59.698

59.579

59.509

58.852

58,968

59.166

59.149

58.999

58.9

59.674

59.993

60.078

60.816

61.201

62.024

62.516

63.416

64.011

64.931

65.475

66.248

66.752

67.838

68.989

68.986

NORTHING

6384093.16

6384084.21

6384076.41

6384078.95

6384079.18

6384081.12

6384081.34

6384083.28

6384084.66

6384086.08

6384086.29

6384088.23

6384088.45

6384090.39

6384090.60

6384091.73

6384103.20

6384112.15

6384114.14

6384130.05

6384132.04

6384140.98

6384171.74

6384147.88

6384133.96

6384131.97

6384108.11

6384106.12

6384069.70

6384073.24

6384073.01

6384071.03

6384070.80

6384068.88

6384068.64

6384066.40

6384066.16

6384063.92

6384063.69

6384061.77

6384061.53

6384059.59

6384048.54

6384046.55

WAC V's

DESIGN

INVERT

LEVEL

OMPARISON

0.03

0.01

0.00

0.00

-0.02

-0.01

-0.03

-0.01

-0.02

-0.06

-0.08

-0.03

-0.04

-0.02

-0.03

-0.03

-0.02

-0.01

-0.02

-0.03

-0.01

-0.03

0.00

-0.02

-0.01

-0.03

-0.12

-0.21

0.00

0.00

0.01

-0.04

0.00

0.00

-0.02

-0.05

-0.02

-0.03

-0.05

-0.04

-0.05

-0.02

-0.02

-0.02

CALCULATED

SANITARY

DRAINAGE

NVERT LEVEL

67.63

67.54

67.22

66.18

65.73

64.83

64.43

63.31

62.71

61.57

61.47

60.31

60.22

59.08

59.02

58.55

58.30

58.33

58.39

58.38

58.26

58.19

57.24

57.35

57.55

57.53

57.38

57.29

58.36

58.68

58.76

59.50

59.89

60.71

61.20

62.10

62.70

63.62

64.16

64.93

65.44

66.52

67.37

67.37

ABN 62 129 445 398 ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCAI

Cad File: N:\240072\DWG\Water & Sewer\STAGE TCR 2 WAC\240037(TCR2)-WAC-403.dwg

WASTEWATER COLLECTION TANK DETAILS

TANK HEIGHT

2700

2700

2100

2100

2100

2100

2100

2100

2100

2100

2100

2100

2100

2100

2100

2100

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2100

2400

2400

C.B.

G.S.

TANK LOCATION

FRONT

EASTING

344754.05

344755.02

344755.85

344792.78

344794.96

344812.85

344814.84

344832.74

344845.47

344858.59

344860.58

344878.47

344880.46

344898.35

344900.34

344910.78

344948.88

344947.91

344947.69

344945.97

344945.75

344944.78

344960.35

344962.94

344964.44

344964.66

344967.25

344967.46

344952.51

344912.79

344910.61

344892.40

344890.23

344872.52

344870.34

344849.66

344847.48

344826.79

344824.61

344806.91

344804.73

344786.82

344757.23

344757.45

CONNECTION IL

67.60

67.53

67.22

66.18

65.75

64.84

64.45

63.32

62.73

61.63

61.55

60.34

60.26

59.10

59.05

58.58

58.32

58.34

58.41

58.41

58.27

58.22

57.24

57.37

57.56

57.56

57.50

57.50

58.36

58.68

58.75

59.54

59.89

60.71

61.22

62.15

62.72

63.65

64.21

64.97

65.49

66.54

67.39

67.39

2100

2400

WASTEWATER COLLECTION TANK COUNT

TANK SIZE | NUMBER OF

BASE IL

66.85

66.78

66.47

65.43

65.00

64.09

63.70

62.57

61.98

60.88

60.80

59.59

59.51

58.35

58.30

57.83

57.57

57.59

57.66

57.66

57.52

57.47

56.49

56.62

56.81

56.81

56.75

56.75

57.61

57.93

58.00

58.79

59.14

59.96

60.47

61.40

61.97

62.90

63.46

64.22

64.74

65.79

66.64

66.64

PROVIDE DN25 ELECTRICAL CONDUIT CONNECTION TO TANK (CONDUIT 90° FROM DISCHARGE PIPE) INSTALLED 1200 AS PER AS3000 AT MIN 600mm COVER AND TURN UP WITH LONG RADIUS SWEEP BEND TO SURFACE. LEAVE 100mm ABOVE SURFACE LEVEL, CAPPED FOR LOCALLY RE-GRADE BOUNDARY KIT INDICATIVE FUTURE CONNECTION BY ELECTRICAL CONTRACTOR ACROSS TANK TO POSITION ONLY. REFER TO ENSURE FSL AT REAR TYPICAL PROPERTY CONNECTION DETAILS. FOR PLACEMENT. COVER OF TANK IS ACHIEVED TOP OF TANK LEVEL TO BE INSTALLED AT 'FINISHED GRADE' TANK LEVEL INDICATOR. FINISHED SURFACE LEVEL-FLAT SITES (AFTER LANDSCAPING) FINISHED SURFACE LEVEL BY DEVELOPER INDICATIVE FINISHED SURFACE LEVEL SLOPING SITES (AFTER LANDSCAPING) DN100 PVC POT RISER AND PROPERTY CONNECTION, MIN.100mm 四日(2) 00mm MAX. INVERT DEPTH ( C. INVERT DEPTH (2400mm D 00mm MAX. INVERT DEPTH ( ABOVE FSL AND CAPPED FOR KKKKKKKKKKKK LATER CONNECTION BY OWNER DISCHARGE PIPE TO BOUNDARY KIT -PULL PIPES AS PER TYPICAL DWG 402 PROPERTY CONNECTION DETAILS. DN40 PE PRESSURE SEWER SERVICE e one PRESSURE SEWER UNIT (PSU) WASTEWATER COLLECTION TANK INSTALLED IN CONJUNCTION PROPERTY CONNECTION INVERT LEVEL (PCIL) WITH BOUNDARY KIT TO MANUFACTURERS REQUIREMENTS (TYP.) (2400mm DEEP PSU SHOWN) 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 DENOTES DEPTH FROM CENTRE OF ELECTRICAL BASE INVERT LEVEL (BIL) GLAND TO TOP OF STORAGE TANK WELD. - SELECT GRANULAR FILL

DEVELOPER

HOME OWNER

PRESSURE SEWER SERVICE CONNECTION TYPICAL SECTIONAL ELEVATION

WORK AS CONSTRUCTED THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 29-05-2024 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 ADWJohnson Pty Ltd NAME NAME \_EWEN B. RANDAL SIGNED LESAUDELL DATE 06-06-2024 SIGNED DATE ...../... REGISTERED SURVEYOR CONSTRUCTION MANAGER

> ORIGIN OF W.A.C. LEVELS PM 20029 Co-Ord System: MGA Ground MGA Datum: GDA94 345612.942

<del>6382878.917</del> 77.675

APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd

Date Approved:15-09-2320

AS CONSTRUCTED

GDA94 M.G.A. ZONE 56 A.H.D. Daly.Smith Pty Ltd

240037(TCR2) -

WAC

403

2

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 29-05-2024 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 COMPANY ADWJohnson Pty Ltd

SIGNED LESanden DATE 06-06-2024 SIGNED DATE ...../.... REGISTERED SURVEYOR CONSTRUCTION MANAGER

N: 6382878.917

RL: 77.675

ORIGIN OF W.A.C. LEVELS Co-Ord System: MGA Ground E: 345612.942 MGA Datum: GDA94

MGA Zone: 56

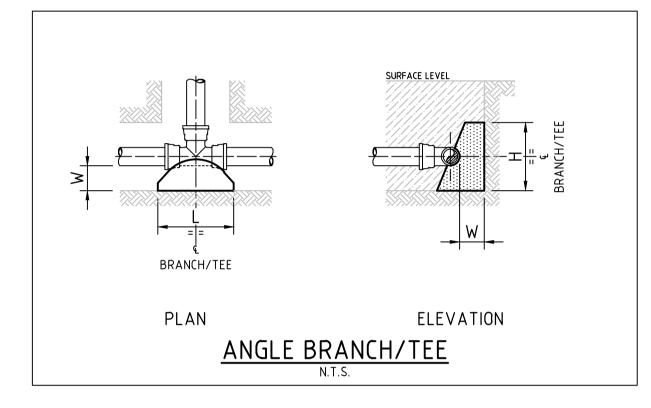
APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd

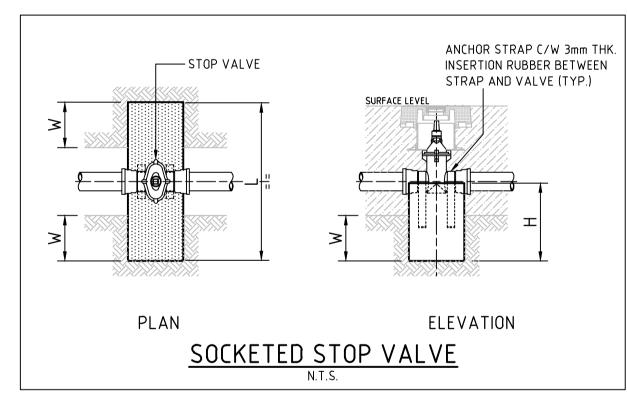
Date Approved:15-09-2320

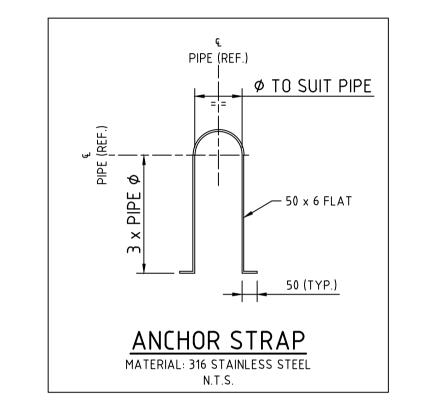
### THRUST BLOCK NOTES:

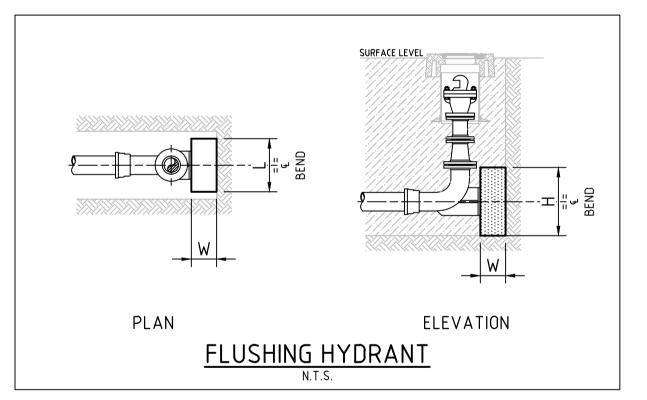
- 1. "N" DENOTES NOMINAL THRUST AREA TO BE ACHIEVED BY POURING CONCRETE THE FULL LENGTH OF THE FITTING AND EXTENDING FROM THE FLOOR OF THE TRENCH TO NOM. 100mm ABOVE THE FITTING.
- 2. CONCRETE THRUST BLOCKS ARE TO BE PROVIDED FOR ALL FITTINGS IN ACCORDANCE WITH TABLE.
- 3. THRUST BLOCK DIMENSIONS ARE 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 ANCHOR STRAP AND PIPE BARREL.

TYPE	FITTING	SOIL	DESIGN	THRUST	TA	LENGTH	HEIGHT	WIDTH
		AHBP (kPa)	STP (kPa)		(m²)	(L)	(H)	(W)
1	DN150 × DN150 EQUAL TEE	100	1500	37.50	0.38	0.05	0.75	0.30
2	DN150 x 6° & 11.25° HORIZONTAL BEND	100	1500	7.50	0.08	N	N	0.30
3	DN150 SOCKETED STOP VALVE	100	1500	37.50	0.38	1.05	0.46	0.30
4	DN150 FLUSHING HYDRANT	100	1500	37.50	0.38	0.50	0.76	0.30
5	DN150 x 90° HORIZONTAL BEND	100	1500	52.50	0.53	0.60	0.88	0.30
6	DN150 END CAP	100	1500	37.50	0.38	0.50	0.76	0.30
7	DN150 x 22.5° HORIZONTAL BEND	100	1500	15.00	0.15	0.34	0.45	0.30
8	DN150 x 45° HORIZONTAL BEND	100	1500	28.50	0.29	0.45	0.64	0.30











# AS CONSTRUCTED

DRAWN CHECK DESIGN VERIFY SCALES AMENDMENT DATE INITIAL ISSUE G.S. 01.08.2023 ALTOGETHER GROUP COMMENTS & NEW SURFACE G.S. C.H. G.S. G.S. C.H. NEW SURFACE 28.08.2023 G.S. G.S. 15.09.2023 FOR CONSTRUCTION C.H. C.H. G.S. G.S. C.H. C.H. 14.11.2023 FOR CONSTRUCTION G.S. G.S. 05.06.2024 WORK AS CONSTRUCTED C.H. C.H.

Johnson ABN 62 129 445 398

**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



PROPERTY DESCRIPTION
PROPOSED SUBDIVISION STAGE - TOWN CENTRE RESIDENTIAL 2 HUNTLEE

POTABLE WATER, RECYCLED WATER AND PROJECT PRESSURE SEWER RETICULATION PLAN TITLE

THRUST BLOCK DETAILS

DISCIPLINE 240037(TCR2) -WAC 404 GDA94 M.G.A. ZONE 56 A.H.D. Daly.Smith Pty Ltd

WORK AS CONSTRUCTED

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COMPANY ADW Johnson Pty Ltd

NAME \_EWEN B. RANDAL SIGNED LESanden DATE 06-06-2024 SIGNED

DATE ....../....../ CONSTRUCTION MANAGER REGISTERED SURVEYOR

> ORIGIN OF W.A.C. LEVELS PM 20029 E: 345612.942

MGA Zone: 56

# Co-Ord System: MGA Ground MGA Datum: GDA94

APPRO	DVED	FOR CON	STRUCTION	
BY	ADW	Johnson	Pty Ltd	

-2320

			N: 6382878.917 RL: 77.675
			APPROVED FOR CONSTR
	Point Table	Point Table	BY ADW Johnson Pty
ls Codes	Point # Eastings Northings Levels Codes	Point # Eastings Northings Levels Codes	Date Approved:15-09-232

	Po	oint Table		
oint #	Eastings	Northings	Levels	Codes
1	344946.11	6384173.74	58.48	waHYD
2	344938.62	6384152.33	58.40	waHYD
3	344907.11	6384148.92	59.19	waHYD
4	344951.75	6384123.22	58.81	waHYD
5	344946.64	6384091.05	58.42	waHYD
6	344859.88	6384081.47	62.48	waHYD
7	344946.26	6384172.85	58.51	waSV
8	344940.09	6384152.32	58.43	waSV
9	344953.96	6384100.90	58.73	waSV
10	344945.13	6384090.75	58.43	waSV
11	344966.85	6384106.71	58.76	waTAP
12	344966.77	6384107.40	58.84	waTAP
13	344964.07	6384132.55	58.96	WaTAP
14	344964.00	6384133.24	58.94	waTAP
15	344962.28	6384147.09	58.85	waTAP
16	344959.57	6384172.42	58.57	WaTAP
17	344945.29	6384140.54	59.30	waTAP
18	344946.30	6384131.47	59.36	waTAP
19	344946.30	6384130.92	59.36	waTAP
20	344948.16	6384113.53	59.42	waTAP
21	344948.24	6384113.01	59.43	waTAP
22	344949.22	6384103.99	59.38	waTAP
23	344910.16	6384090.85	59.49	waTAP
24	344899.80	6384089.81	60.01	waTAP
25	344899.01	6384089.65	60.07	waTAP
26	344880.00	6384087.57	61.20	waTAP
27	344879.32	6384087.57	61.26	waTAP
28	344859.93	6384085.44	62.50	waTAP
29	344859.30	6384085.26	62.56	waTAP
30	344846.25	6384083.94	63.41	waTAP
31	344833.35	6384082.70	64.27	waTAP
32	344814.06	6384080.51	65.45	waTAP
33	344813.49	6384080.29	65.57	waTAP
34	344794.21	6384078.30	66.78	waTAP
35	344793.61	6384078.27	66.92	waTAP
36	344752.13	6384092.48	69.35	waTAP
37	344752.86	6384083.38	69.26	waTAP
38	344754.78	6384076.85	68.95	waTAP
20	344756.93	6384047.92	68.68	waTAP
39			(0()	T A D
40	344757.14	6384047.12	68.64	WaTAP

Point Table						
Point #	Eastings	Northings	Levels	Codes		
83	344846.09	6384083.88	63.44	waTAPR		
84	344833.03	6384082.63	64.33	waTAPR		
85	344814.35	6384080.53	65.50	waTAPR		
86	344813.34	6384080.33	65.60	waTAPR		
87	344794.53	6384078.35	66.79	waTAPR		
88	344793.38	6384078.29	67.09	waTAPR		
89	344752.12	6384092.64	69.33	waTAPR		
90	344752.88	6384083.53	69.27	waTAPR		
91	344754.79	6384076.98	68.95	waTAPR		
92	344756.91	6384048.22	68.72	waTAPR		
93	344757.14	6384046.86	68.68	waTAPR		
94	344786.45	6384060.25	67.60	waTAPR		
95	344805.17	6384062.48	66.38	waTAPR		
96	344806.54	6384062.51	66.05	waTAPR		
97	344825.26	6384064.57	64.93	waTAPR		
98	344826.49	6384064.44	64.70	waTAPR		
99	344847.93	6384067.05	63.58	waTAPR		
100	344849.18	6384067.08	63.25	waTAPR		
101	344870.70	6384069.65	62.05	waTAPR		
102	344872.09	6384069.60	61.83	waTAPR		
103	344890.49	6384071.72	60.79	waTAPR		
104	344891.89	6384071.89	60.58	waTAPR		
105	344911.17	6384074.10	59.78	waTAPR		
106	344912.42	6384074.08	59.65	waTAPR		
107	344952.98	6384069.33	59.43	waTAPR		
108	344967.43	6384105.24	58.88	seBDYKIT		
109	344967.02	6384109.02	58.98	seBDYKIT		
110	344964.85	6384131.05	59.16	seBDYKIT		
111	344964.32	6384134.98	59.11	seBDYKIT		
112	344962.63	6384148.68	58.91	seBDYKIT		
113	344960.34	6384170.86	58.80	seBDYKIT		
114	344944.97	6384142.03	59.39	seBDYKIT		
115	344946.00	6384133.06	59.45	seBDYKIT		
116	344946.43	6384129.32	59.52	seBDYKIT		
117	344947.80	6384115.18	59.54	seBDYKIT		
118	344948.21	6384111.16	59.46	seBDYKIT		
119	344949.24	6384102.39	59.47	seBDYKIT		
120	344911.62	6384091.80	59.81	seBDYKIT		
121	344901.20	6384090.89	60.32	seBDYKIT		
122	344897.42	6384090.27	60.35	seBDYKIT		
123	344881.31	6384088.60	61.49	seBDYKIT		

Point Table						
Point #	Eastings	Northings	Levels	Codes		
124	344877.52	6384088.29	61.52	seBDYKIT		
125	344861.48	6384086.44	62.72	seBDYKIT		
126	344857.68	6384085.99	62.82	seBDYKIT		
127	344844.81	6384084.54	63.94	seBDYKIT		
128	344831.74	6384083.18	64.64	seBDYKIT		
129	344815.55	6384081.44	65.72	seBDYKIT		
130	344811.82	6384081.06	66.13	seBDYKIT		
131	344795.85	6384079.32	67.00	seBDYKIT		
132	344792.09	6384078.81	67.39	seBDYKIT		
133	344752.14	6384093.99	69.56	seBDYKIT		
134	344753.04	6384085.02	69.42	seBDYKIT		
135	344754.16	6384077.06	69.21	seBDYKIT		
136	344757.00	6384049.55	68.94	seBDYKIT		
137	344757.39	6384045.40	68.91	seBDYKIT		
138	344787.72	6384059.81	67.80	seBDYKIT		
139	344804.03	6384061.60	66.61	seBDYKIT		
140	344807.87	6384061.98	66.17	seBDYKIT		
141	344823.98	6384063.69	65.31	seBDYKIT		
142	344827.72	6384063.99	64.89	seBDYKIT		
143	344846.82	6384066.23	63.93	seBDYKIT		
144	344850.53	6384066.75	63.33	seBDYKIT		
145	344869.55	6384068.73	62.44	seBDYKIT		
146	344873.48	6384069.01	61.99	seBDYKIT		
147	344889.39	6384070.83	61.13	seBDYKIT		
148	344893.28	6384071.27	60.76	seBDYKIT		
149	344909.88	6384073.11	60.07	seBDYKIT		
150	344913.75	6384073.53	59.95	seBDYKIT		
151	344952.64	6384070.75	59.62	seBDYKIT		
152	344944.34	6384174.64	58.47	seFP		
153	344944.86	6384170.09	58.56	seFP		
154	344937.05	6384150.43	58.44	seFP		
155	344905.33	6384147.14	59.28	seFP		
156	344943.57	6384092.44	58.48	seFP		
157	344944.62	6384172.64	58.52	seSV		
158	344907.48	6384147.31	59.25	seSV		
159	344947.06	6384147.82	58.73	seSV		
160	344946.12	6384092.55	58.46	seSV		
161	344752.17	6384093.28	69.54	seTANK20		
162	344753.22	6384084.24	69.45	seTANK202		
163	344754.36	6384077.58	69.14	seTANK203		
164	344792.76	6384078.96	67.50	seTANK204		

Point Table						
Point #	Eastings	Northings	Levels	Codes		
165	344795.11	6384079.37	67.05	seTANK205		
166	344812.57	6384081.16	66.14	seTANK206		
167	344814.81	6384081.36	65.74	seTANK207		
168	344832.52	6384083.38	64.62	seTANK208		
169	344845.47	6384084.70	64.02	seTANK209		
170	344858.32	6384086.14	62.89	seTANK210		
171	344860.79	6384086.40	62.79	seTANK211		
172	344878.33	6384088.37	61.63	seTANK212		
173	344880.65	6384088.55	61.54	seTANK213		
174	344898.11	6384090.49	60.39	seTANK214		
175	344900.56	6384090.76	60.33	seTANK215		
176	344910.94	6384091.81	59.86	seTANK216		
177	344949.17	6384103.17	59.61	seTANK217		
178	344948.14	6384111.98	59.64	seTANK218		
179	344947.89	6384114.52	59.70	seTANK219		
180	344946.31	6384129.96	59.70	seTANK220		
181	344946.07	6384132.42	59.58	seTANK221		
182	344945.07	6384141.34	59.51	seTANK222		
183	344960.21	6384171.59	58.85	seTANK223		
184	344962.68	6384147.97	58.97	seTANK224		
185	344964.41	6384134.20	59.17	seTANK225		
186	344964.70	6384131.78	59.15	seTANK226		
187	344967.15	6384108.31	59.00	seTANK227		
188	344967.38	6384106.00	58.90	seTANK228		
189	344952.72	6384070.02	59.67	seTANK229		
190	344913.03	6384073.35	59.99	seTANK230		
191	344910.66	6384073.16	60.08	seTANK231		
192	344892.54	6384071.16	60.82	seTANK232		
193	344890.14	6384070.90	61.20	seTANK233		
194	344872.68	6384068.93	62.02	seTANK234		
195	344870.34	6384068.74	62.52	seTANK235		
196	344849.77	6384066.54	63.42	seTANK236		
197	344847.47	6384066.28	64.01	seTANK237		
198	344827.05	6384063.98	64.93	seTANK238		
199	344824.60	6384063.81	65.48	seTANK239		
200	344807.13	6384061.90	66.25	seTANK240		
201	344804.81	6384061.58	66.75	seTANK241		
202	344787.02	6384059.73	67.84	seTANK242		
203	344757.08	6384048.73	68.99	seTANK243		
	t		t			

204 | 344757.36 | 6384046.22 | 68.99 | seTANK244



AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
Α	18.11.2022	INITIAL ISSUE	G.S.	M-P.C.	G.S.	C.B.	
D	01.08.2023	ALTOGETHER GROUP COMMENTS & NEW SURFACE	G.S.	C.H.	G.S.	C.H.	
Ε	28.08.2023	NEW SURFACE	G.S.	C.H.	G.S.	C.H.	
0	15.09.2023	FOR CONSTRUCTION	G.S.	C.H.	G.S.	C.H.	
1	14.11.2023	FOR CONSTRUCTION	G.S.	C.H.	G.S.	C.H.	
2	05.06.2024	WORK AS CONSTRUCTED	G.S.	C.H.	G.S.	C.H.	

ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE JOHNSON ABN 62 129 445 398

**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



PROPOSED SUBDIVISION	
STAGE - TOWN CENTRE RESIDENTIAL 2	
HUNTLEE	

POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PLAN TITLE

FITTING	DETAILS

EYED	DATUM		PROJECT No.	DISCIPLINE		NUMBER	R
aly.Smith Pty Ltd	GDA94 M.G.A. ZONE 56	A.H.D.	240037(TCR2) -	WAC	_	405	