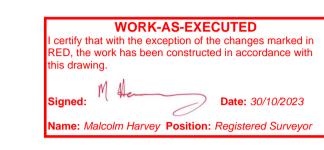
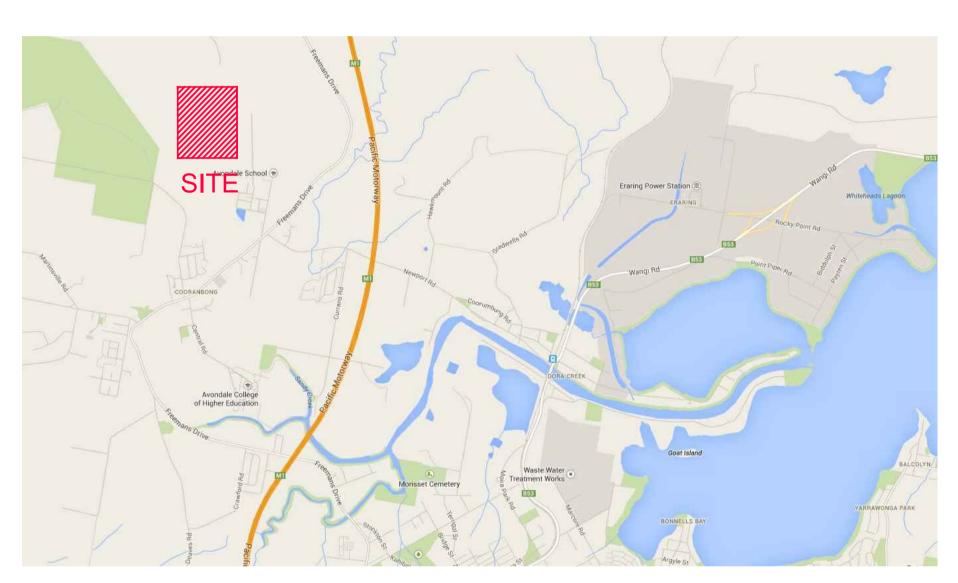
WATAGAN PARK PROPOSED SUBDIVISION - PHASE 2B LOT 1200 DP 1288472 AND LOT 8450 DP 1250919 COORANBONG







LOCALITY SKETCH NOT TO SCALE

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239078(5)2B-WAT-406	THRUST BLOCK DETAILS				



CONSTRUCTION ISSUE

REV. DATE AMENDMENT DRAWN CHECK DESIGN VERIFY SCALES SURFACE UPDATE C 16.01.2023 CLIENT COMMENTS G.S. M-P.C M.K. M.K. 03.02.2023 UPDATE PIPE SIZE M.K. 08.02.2023 ADDITIONAL PIPE STUB DETAIL G.S. M.K. M.K. M.K. G.S. G.S. L.S. C.S. F 16.05.2023 PW AND RW MAINS RESIZED M.K. M.K. C.H. C.H. M.K. C.H. 0 24.05.2023 FOR CONSTRUCTION 30.05.2023 CLIENT COMMENTS M.K. C.H. Ohnson ABN 62 129 445 398 ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCAL

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



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COONAINDONG	
COORANBONG	
LOT 8450 DP 1250919	
LOT 1200 DP 1288472 AND	
SUBDIVISION - PHASE 2B	
WATAGAN PARK PROPOSED	
WATA OAN DADK DDODOOFD	
ERTY DESCRIPTION	

ADW Johnson

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

TITLE SHEET, DRAWING INDEX & LOCALITY PLAN

SURVEYED PROJECT No. DISCIPLINE 239078(5)2B -WAT 001

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

DESIGN FILE N:\JOBNUMBER\Design\12D\ Plotted By: leahs Plot Date: 29/05/23 - 16:53 Cad File: N:\239078\239078(5)\DWG\water & sewer\Phase 2B\239078(5)2B-WAT-001(1).dwg

REV

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.
- 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. 6. MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS.
- 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
- 7. MAINS CROSSING UNDER EXISTING DRIVEWAYS (SEALED, PAVED OR DECORATIVE) SHALL BE CONDUCTED BY UNDER BORING ONLY UNLESS PERMISSION IS GRANTED BY THE AFFECTED PROPERTY OWNER.
- 8. MAINS WITHIN 2.0m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE ALTOGETHER REPRESENTATIVE).
- 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).

CLEARANCE TABLE ADJACENT.

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

INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED.

- 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:
 - 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
- 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.

TESTED TO 1000KPa.

- 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.
- 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 FITTIRE FLECTRICAL 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.
- 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. THE CONTRACTOR SHALL ENSURE THAT ALL RECYCLED WATER MAINS AND PRESSURE SEWER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
- 7. 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.
- 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/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.

150mm VERTICAL CLEARANCE BETWEEN POTABLE WATER AND RECYCLED WATER MAINS SHALL BE PROVIDED.

- 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: http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1854-FS.pdf 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).
- 19. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- 20. WATER QUALITY TESTING SHALL BE IN ACCORDANCE WITH WSA 03-2011-3.1(SYDNEY WATER EDITION-2014, CLAUSE 19.7).
- 21. THE CONSTRUCTOR SHALL PROVIDE HUNTLEE WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE . 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):
 - PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING. 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.
- 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:

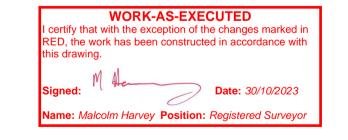
- 1. THIS DRAWING SET SHALL BE READ IN CONJUNCTION WITH CESSNOCK CITY COUNCIL STANDARDS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA AND OTHER ASSOCIATED DRAWINGS AND TECHNICAL SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORK AND SHALL REPAIR ANY DAMAGE CAUSED TO SUCH SERVICES DURING THE COURSE OF WORKS. ANY SERVICE LOCATIONS SHOWN IN THIS DRAWING SET ARE INDICATIVE ONLY.
- 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	MINIMUM H CLEARA	MINIMUM VERTICAL		
(EXISTING OR PROPOSED SERVICE)	NEW MA	AIN SIZE	CLEARANCE (mm)	
	≤ DN200	≥ DN200	1	
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 ⁸	
STORMWATER DRAINS	300 4	600	150 °	
SEWERS (GRAVITY)	1000 6 / 600	1000 6 / 600	500 °	
SEWERS (PRESSURE AND VACUUM)	600	600	300 °	
KERBS	150	600 ⁵	150 (WHERE POSSIBLE)	

- VERTICAL CLEARANCES APPLY WHERE PIPELINES CROSS OTHER UTILITY SERVICES, EXCEPT IN THE CASE OF WATER/SEWER MAINS WHEN A VERTICAL SEPARATION SHALL ALWAYS BE MAINTAINED, EVEN WHEN THE PRESSURE SEWER AND WATER MAIN ARE PARALLEL. THE PRESSURE SEWER SHOULD ALWAYS BE LOCATED BELOW THE WATER MAIN TO MINIMISE THE POSSIBILITY OF BACKFLOW CONTAMINATION IN THE EVENT OF A PRESSURE MAIN BREAK.
- WATER MAINS INCLUDES MAINS SUPPLYING BOTH POTABLE AND RECYCLED WATER. FOR AREAS WITH EXISTING WATER RETICULATION, CLEARANCES CAN BE FURTHER REDUCED TO
- 600mm WITH THE APPROVAL OF THE WATER AUTHORITY. CLEARANCES CAN BE FURTHER REDUCED TO 150mm FOR DISTANCES UP TO 2.0m WHEN PASSING INSTALLATIONS SUCH AS POLES, PITS, AND SMALL STRUCTURES, PROVIDING THE STRUCTURE IS NOT
- DE-STABILISED IN THE PROCESS. CLEARANCES FROM KERBS SHALL BE MEASURED FROM THE NEAREST POINT OF THE KERB. FOR WATER/SEWER < DN 375, CLEARANCES FROM KERBS CAN BE PROGRESSIVELY REDUCED UNTIL THE
- MINIMUM OF 150mm IS REACHED FOR WATER/SEWER < DN200. WHERE A PARALLEL SEWER IS AT MINIMUM VERTICAL CLEARANCE LOWER THAN THE WATER MAIN (500mm), MAINTAIN A MINIMUM HORIZONTAL OF 1000mm. THIS MINIMUM CLEARANCE CAN BE
- PROGRESSIVELY REDUCED TO 600mm AS THE VERTICAL CLEARANCE IS INCREASED TO 750mm. FOR PRESSURE SEWER LATERALS, MINIMUM VERTICAL CLEARANCES MAY BE REDUCED TO 150mm PROVIDING THERE IS NO JOINT IN THE LATERAL WITHIN 500mm OF EITHER SIDE OF THE SERVICE BEING
- CROSSED. AN ADDITIONAL CLEARANCE FROM HIGH VOLTAGE ELECTRICAL INSTALLATIONS SHOULD BE MAINTAINED ABOVE THE CONDUITS OR CABLES TO ALLOW FOR A PROTECTIVE BARRIER AND MARKING TO BE PROVIDED.
- WATER MAINS SHOULD ALWAYS CROSS OVER SEWERS AND STORMWATER DRAINS. FOR CASES WHERE THERE IS NO ALTERNATIVE AND THE MAIN MUST CROSS UNDER THE SEWER, THE DESIGN SHALL NOMINATE AN APPROPRIATE PROTECTION TREATMENT (JOINT-FREE IN THE VICINITY OF THE SEWER).

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





	^	ATTACHED TO THE TANK FOR FOTORE ELECTRICAL WIRING.							
REV.	DATE	AMENDMENT	DRAWN CHECK DESIGN VERIFY SCALES		CLIENT	PROPERTY DESCRIPTION	PROJECT POTABLE W	/ATER, RECYCLED WATER AND	
		SURFACE UPDATE	G.S. $M-P.C.$ G.S. $M-P.C.$	Hunter Office		WATAGAN PARK PROPOSED	PRESSU'	JRE SEWER RETICULATION	
С	16.01.2023	CLIENT COMMENTS	G.S. $M-P.C.$ G.S. $M-P.C.$	Unit 7/335 Hillsborough Rd		SUBDIVISION - PHASE 2B	PLAN TITLE		
		UPDATE PIPE SIZE	G.S. M.K. M.K. M.K.	Warners Bay N.S.W. 2282	1011110011	LOT 1200 DP 1288472 AND	. 2, 11, 11, 12		
Ε	08.02.2023	ADDITIONAL PIPE STUB DETAIL	G.S. M.K. M.K. M.K.	Phone: (02) 4978 5100	JOHNSON	LOT 8450 DP 1250919	e	SENERAL NOTES	
F	16.05.2023	PW AND RW MAINS RESIZED	G.S. C.S. M.K. M.K.	Fax: (02) 4978 5199	PROPERTY				
0	24.05.2023	FOR CONSTRUCTION	G.S. C.H. M.K. C.H.	email: nunter@dawjonnson.com.au		COORANBONG			
1	30.05.2023	CLIENT COMMENTS	L.S. C.H. M.K. C.H.	www.adwjohnson.com.au	GROUP	SURVEYED DATUM	PROJECT No. D	DISCIPLINE NUMBER	REV.
ESIG	FILE N:\JO	OBNUMBER\Design\12D\	ALL DIMENSIONS ARE IN METRES U.N.O.	DO NOT SCALE JOHNSON ABN 62 129 445 398		ADW Johnson GDA94 M.G.A. ZONE 56 A.H.D.	. 239078(5)2B –	WAT - 002	1 1

AMENDMENT REV. DATE SURFACE UPDATE C 16.01.2023 CLIENT COMMENTS G.S. G.S. G.S. G.S. L.S. D 03.02.2023 UPDATE PIPE SIZE
E 08.02.2023 ADDITIONAL PIPE STUB DETAIL M.K. M.K. M.K. M.K. C.S. M.K. M.K. F 16.05.2023 PW AND RW MAINS RESIZED 0 24.05.2023 FOR CONSTRUCTION C.H. C.H. M.K. C.H. M.K. C.H. 30.05.2023 CLIENT COMMENTS

0 10 20 30 40 A1 / A3 1:1000 / 1:2000

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



PROPERTY DESCRIPTION SUBDIVISION - PHASE 2B LOT 1200 DP 1288472 AND LOT 8450 DP 1250919 COORANBONG SURVEYED

WATAGAN PARK PROPOSED

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

SITE PLAN

WORK-AS-EXECUTED
I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with

ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE DESIGN FILE N:\JOBNUMBER\Design\12D\ Plotted By: leahs Plot Date: 29/05/23 - 16:54 Cad File: N:\239078\239078(5)\DWG\water & sewer\Phase 2B\239078(5)2B-WAT-003(1).dwg

DRAWN CHECK DESIGN VERIFY SCALES G.S. M-P.C M.K. M.K.

Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au

<u>PLAN</u>

SCALE 1:1000

CLIENT

DP 1237780

1254

FOR RECYCLED WATER DETAIL PLANS REFER TO DRG-203*

12 2 1 1273 1 1274

FOR POTABLE WATER DETAIL PLANS REFER TO DRG-101

12 FOR RECYCLED WATER DETAIL PLANS REFER TO DRG-201 FOR PRESSURE SEWER DETAIL PLANS REFER TO DRG-301

FOR POTABLE WATER DETAIL PLANS REFER TO DRG-102 FOR RECYCLED WATER DETAIL PLANS REFER TO DRG-202 1282

FOR PRESSURE SEWER DETAIL PLANS REFER TO DRG-302

SUBDIVISION PHASE 2

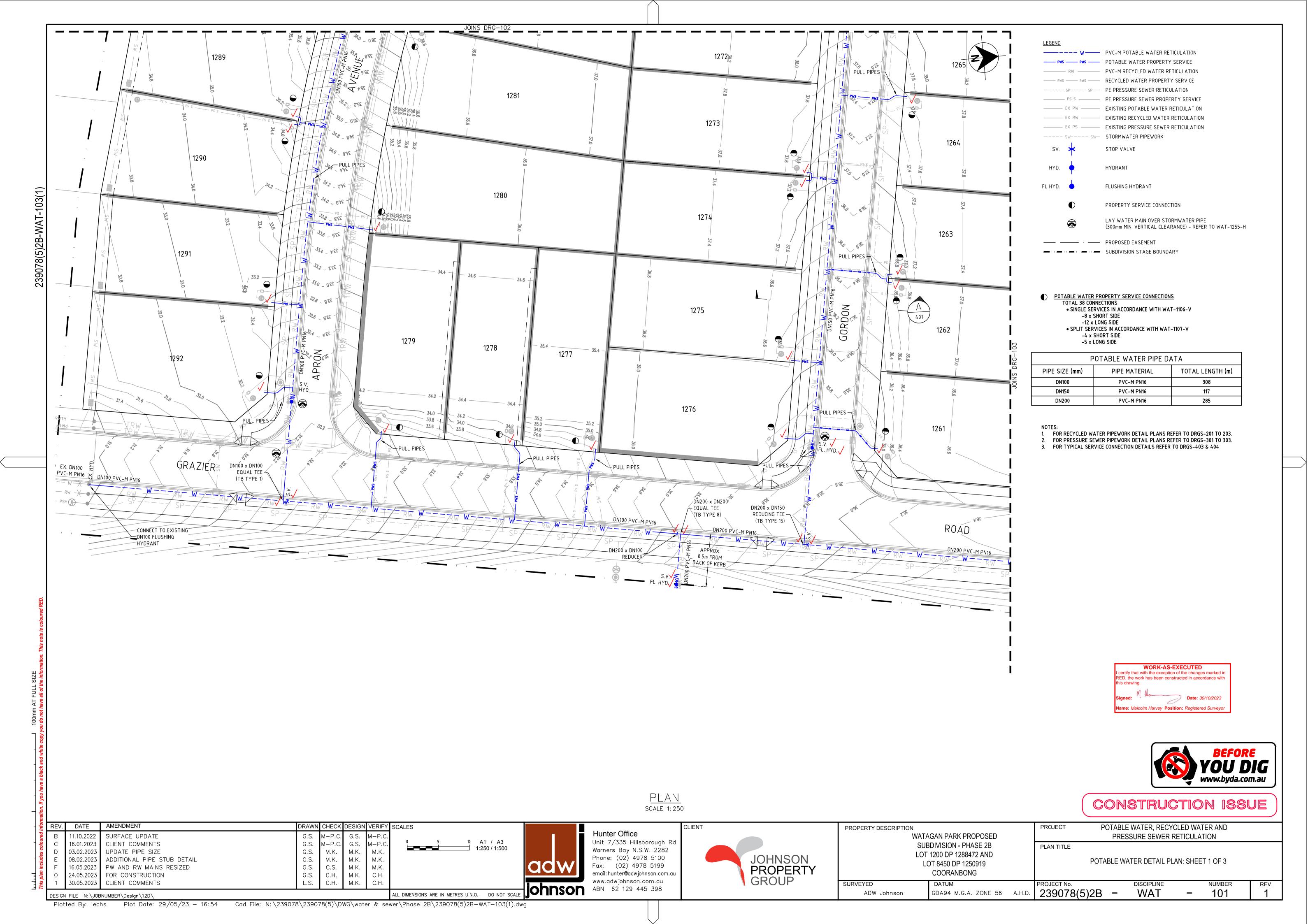
DP 1237780

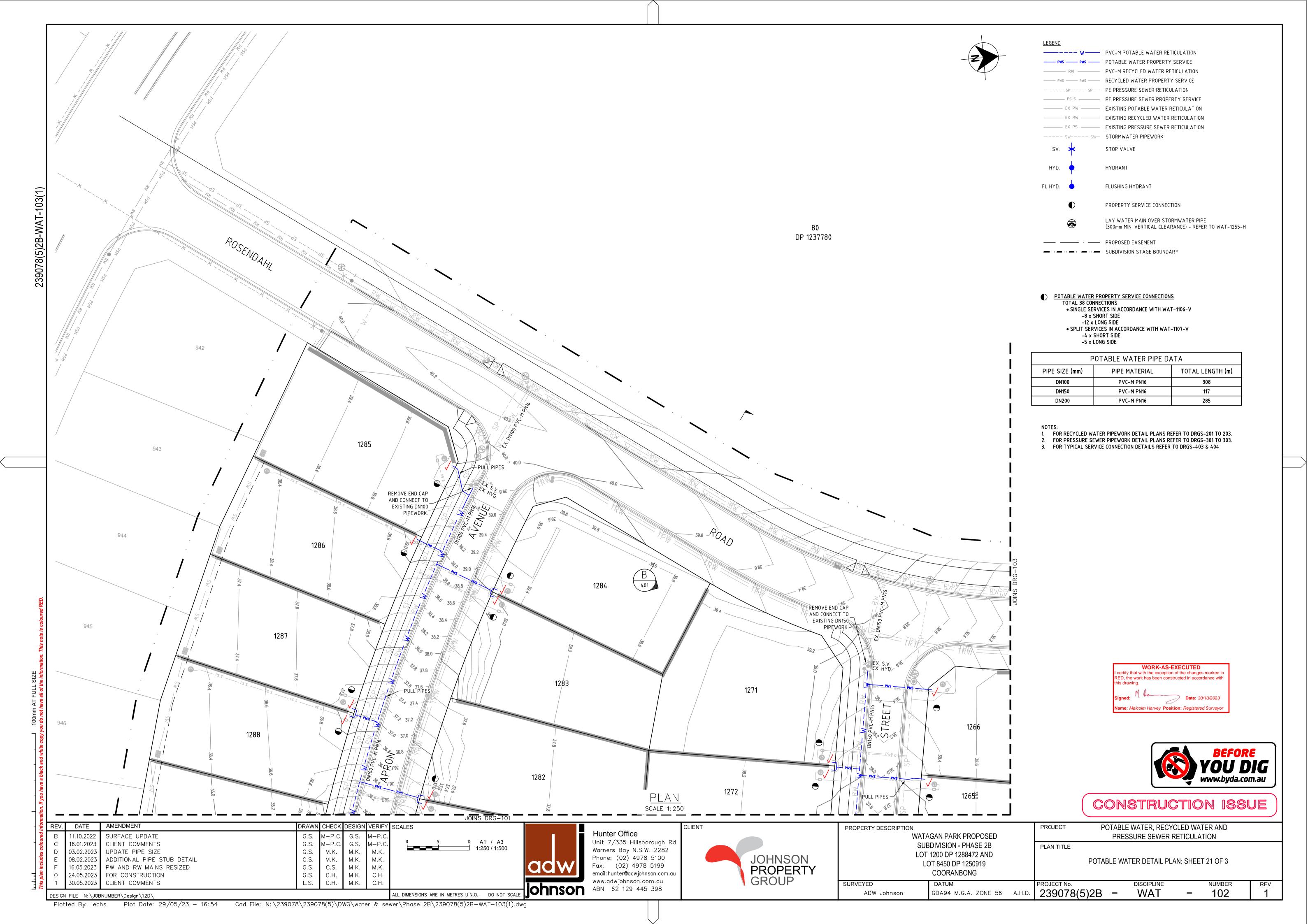
ADW Johnson

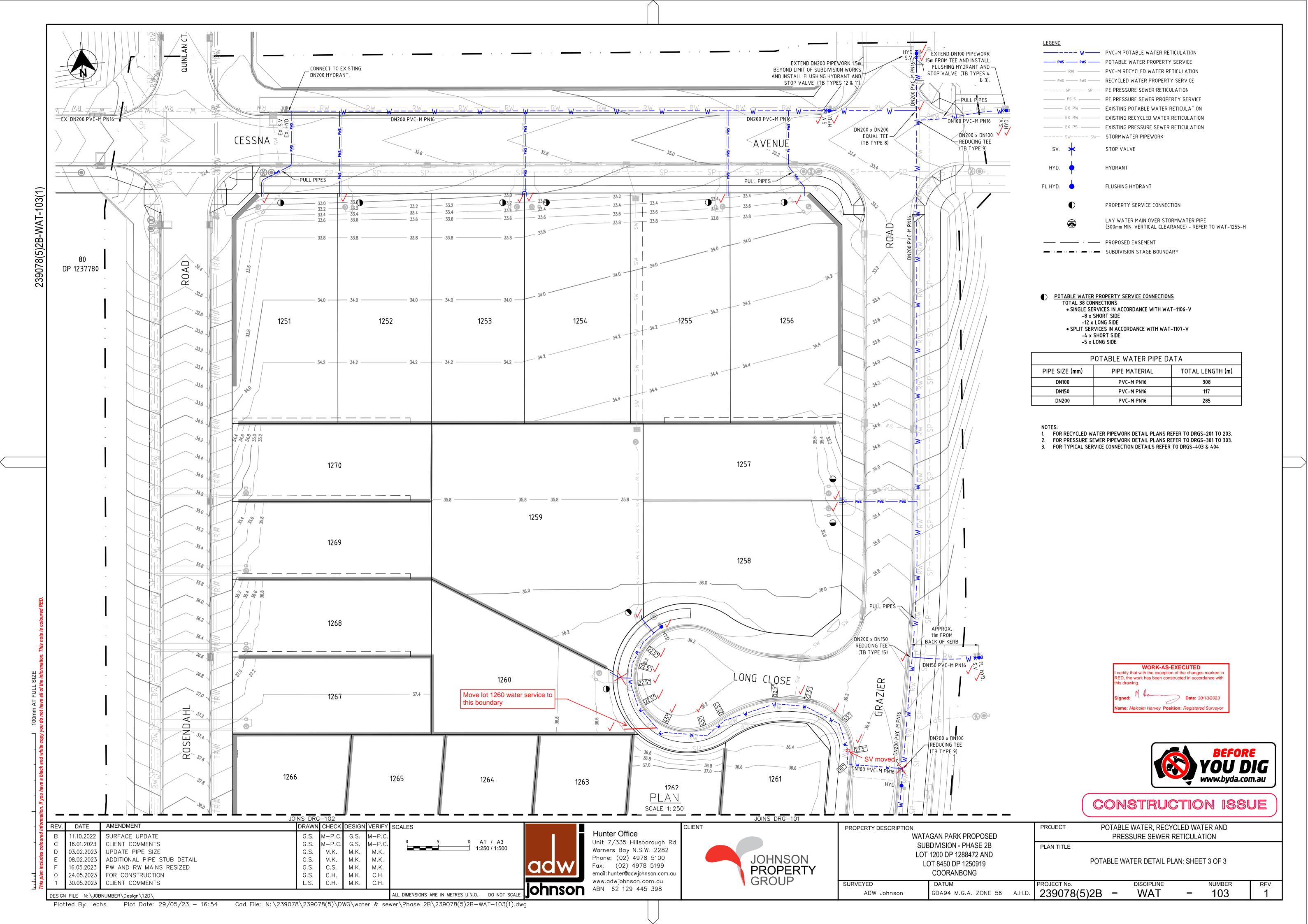
GDA94 M.G.A. ZONE 56 A.H.D.

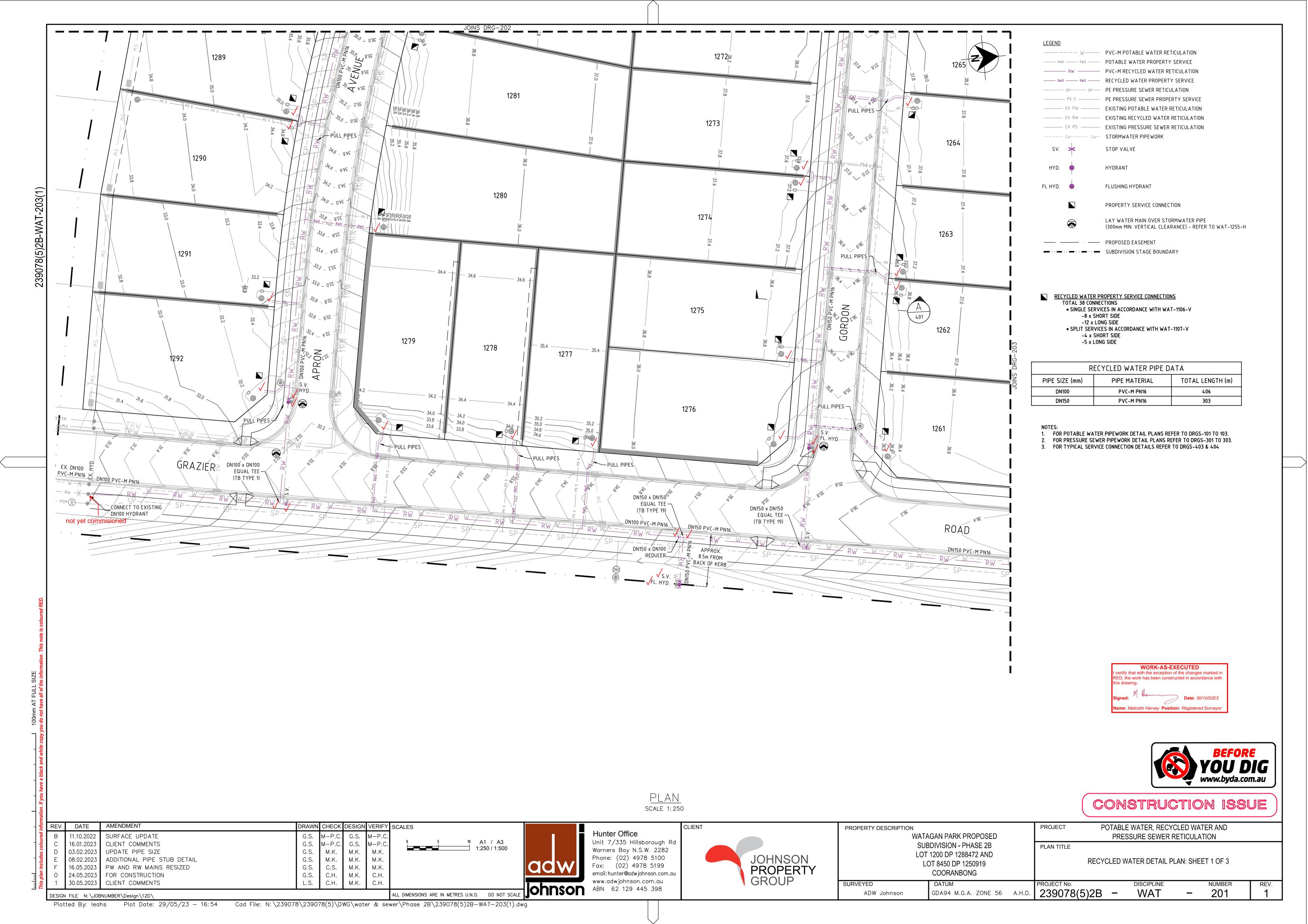
239078(5)2B -

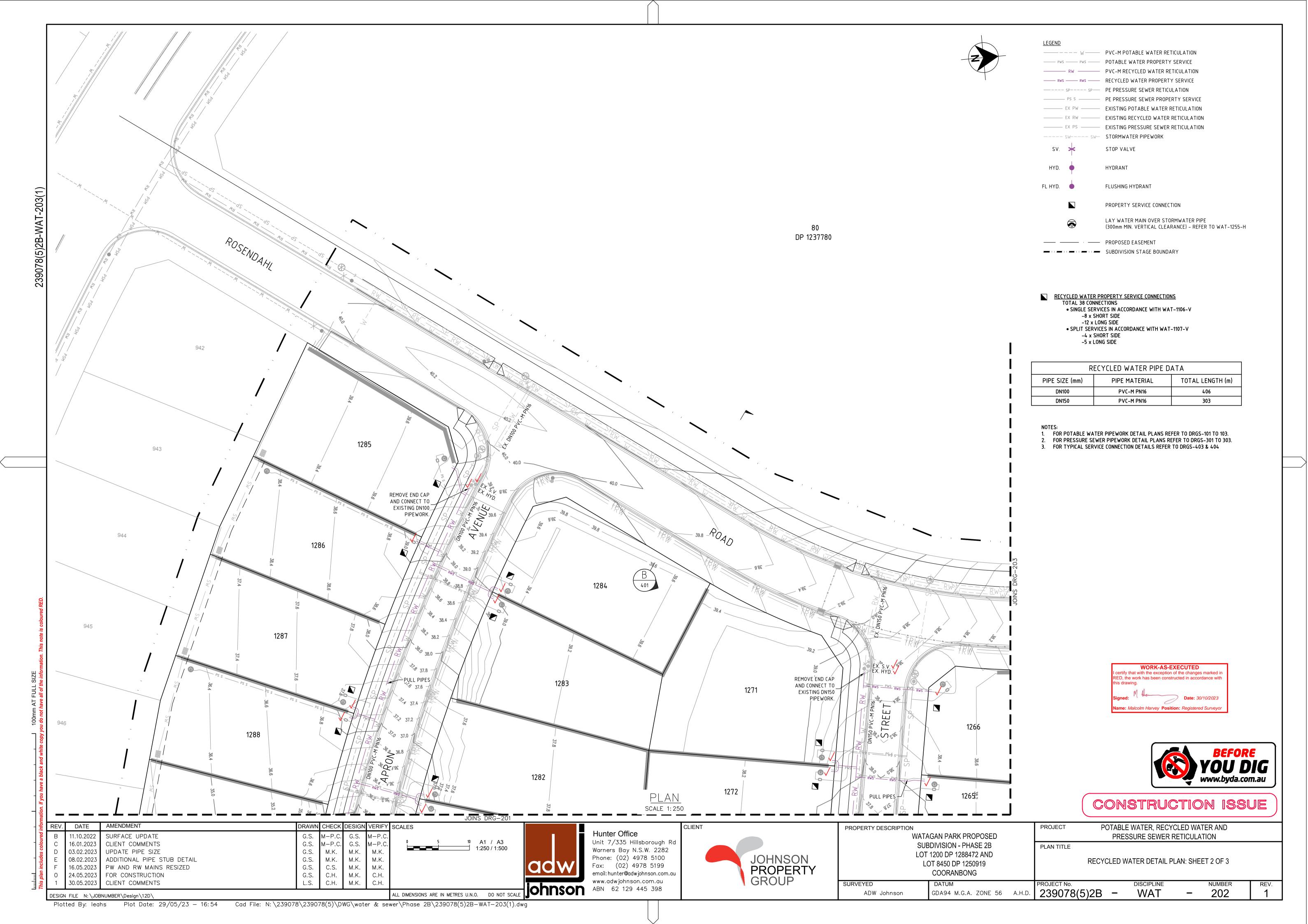
DISCIPLINE 003 WAT

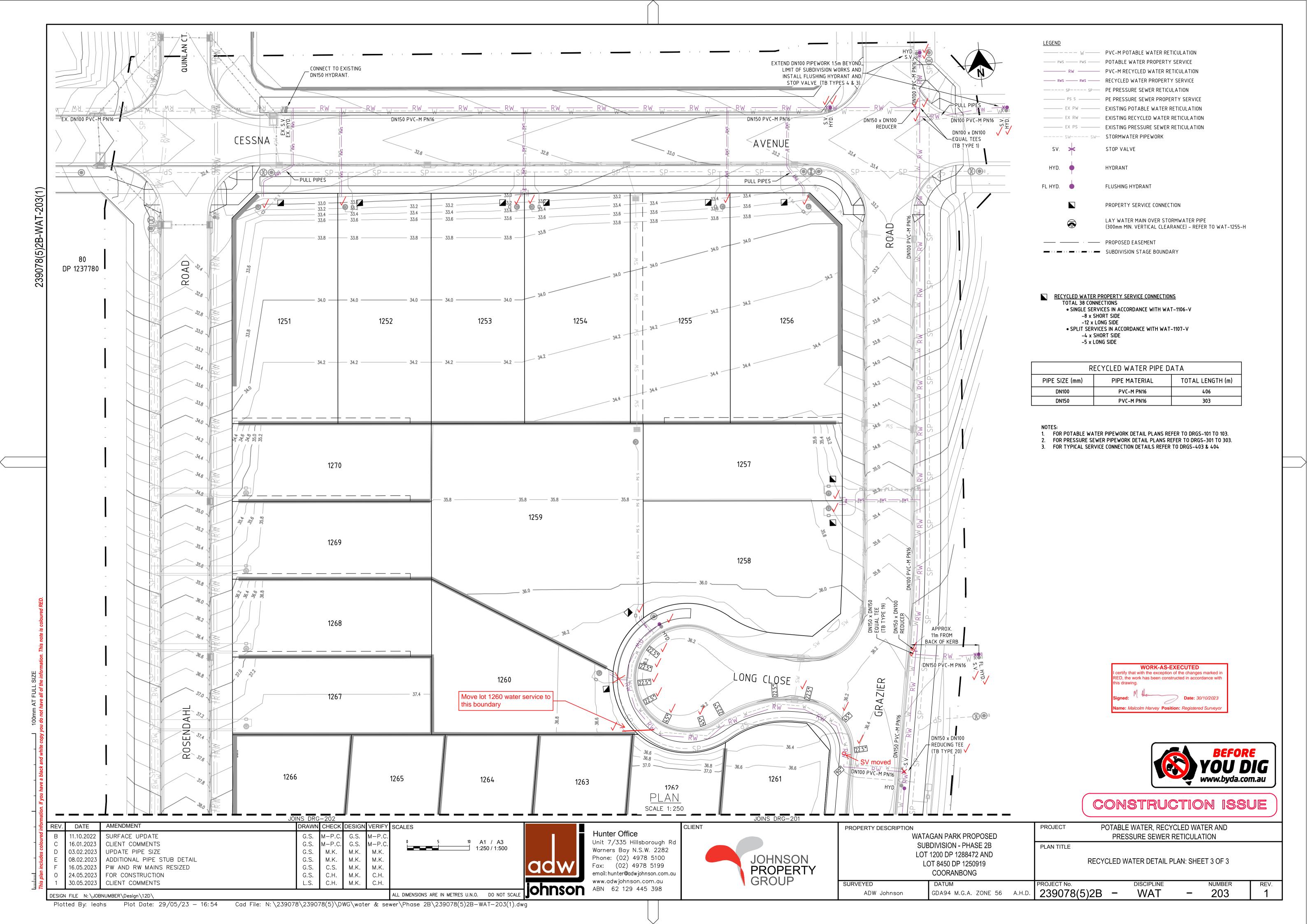


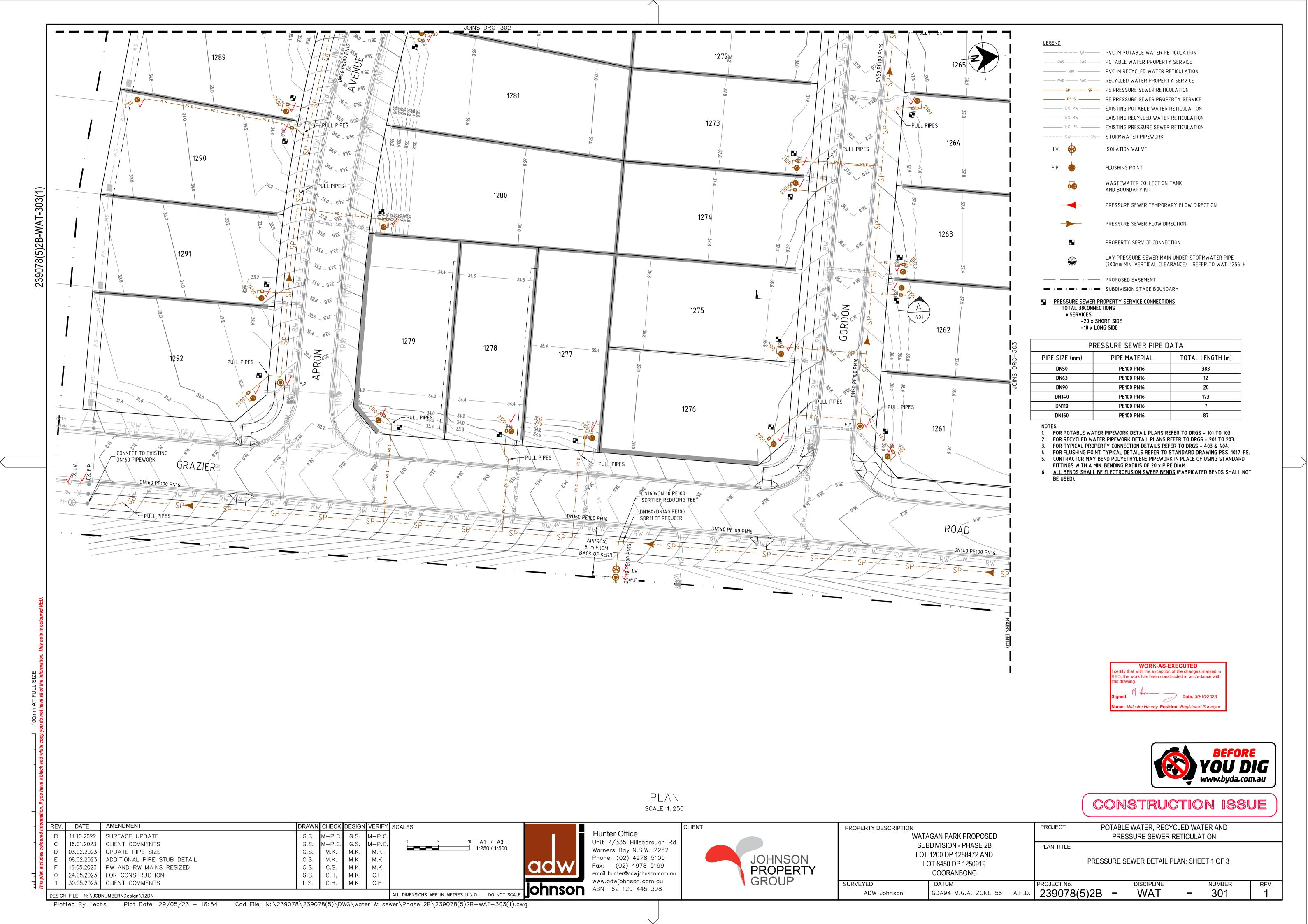


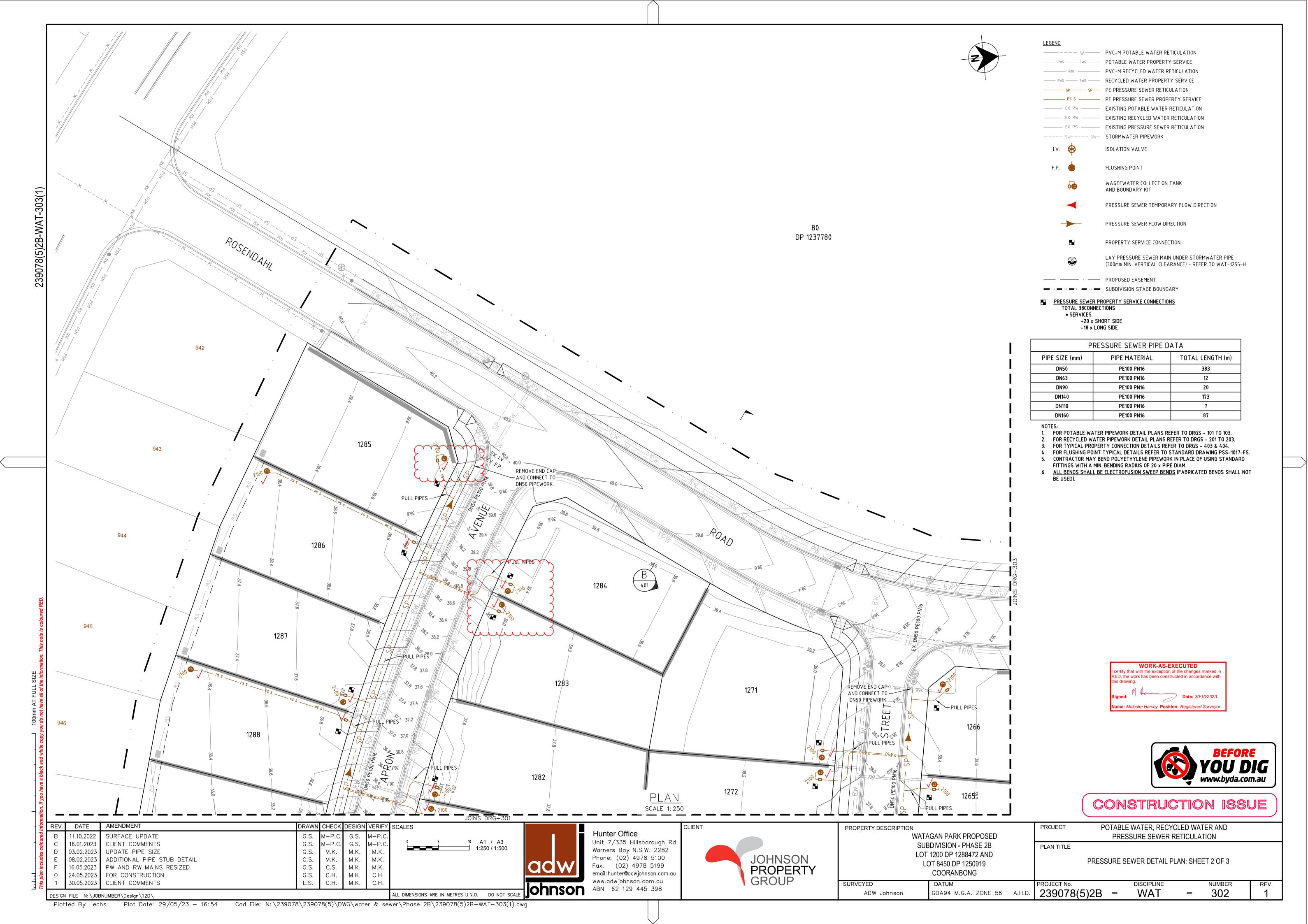


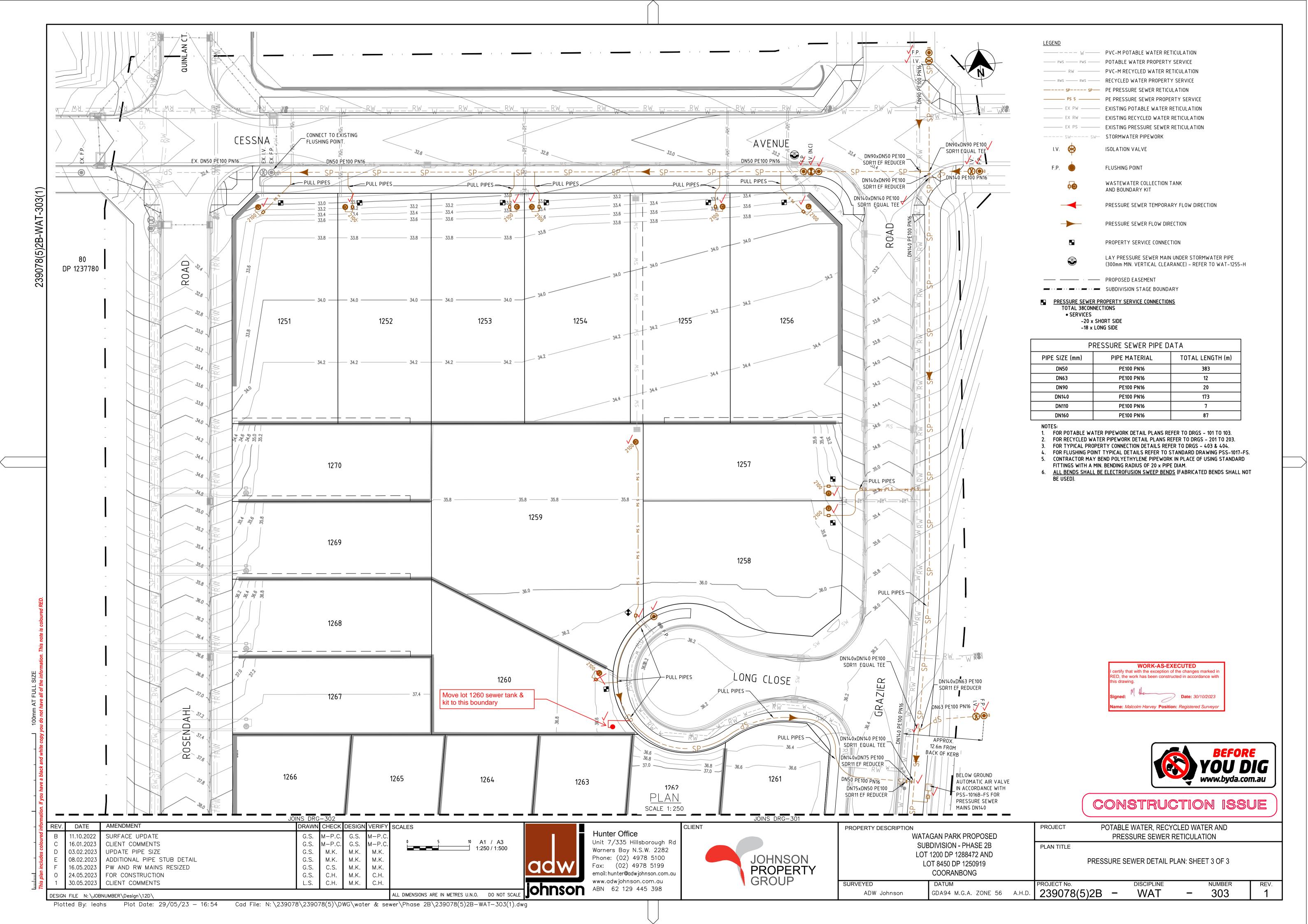


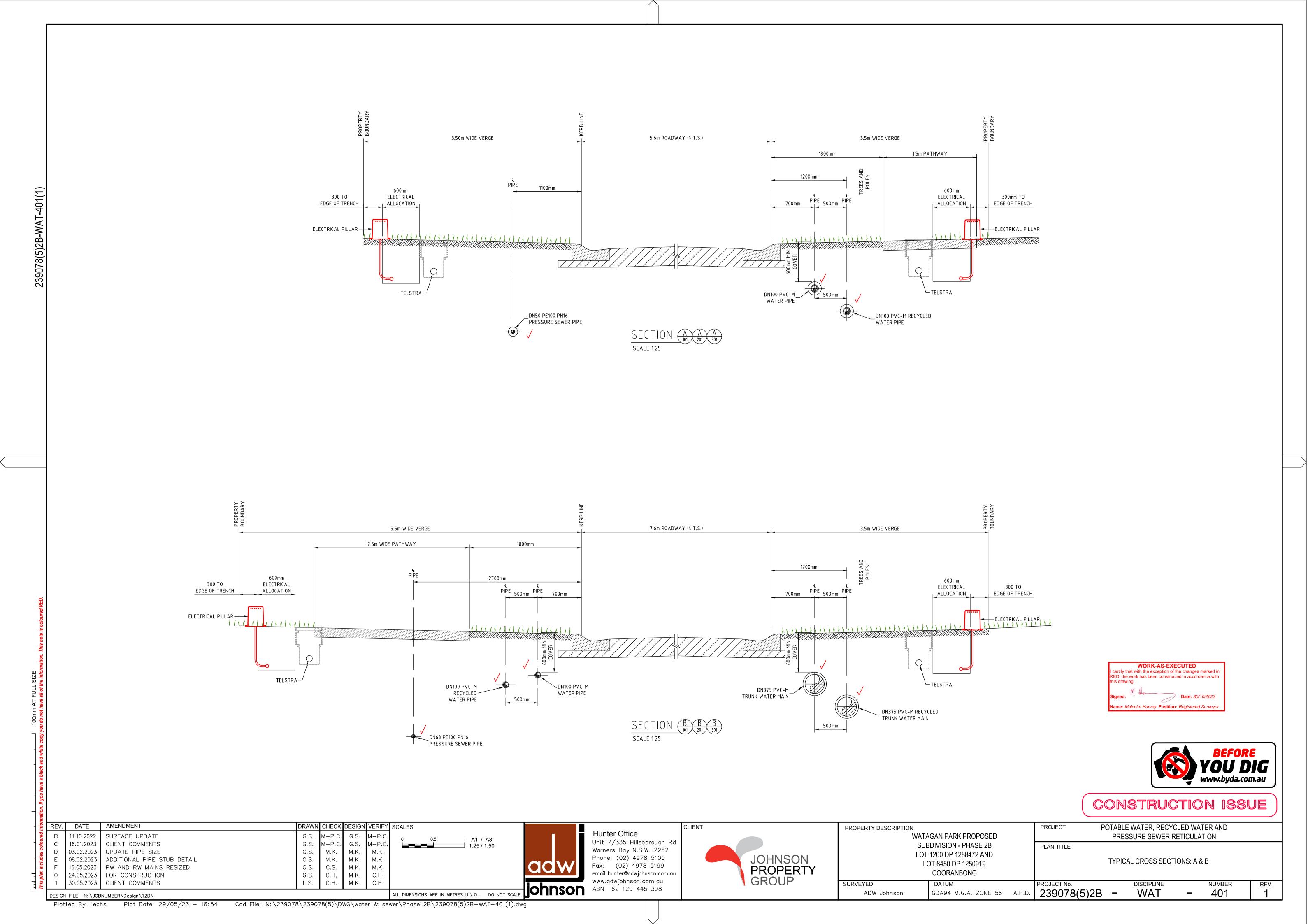












REV. DATE AMENDMENT C 16.01.2023 CLIENT COMMENTS D 03.02.2023 UPDATE PIPE SIZE
E 08.02.2023 ADDITIONAL PIPE STUB DETAIL F 16.05.2023 PW AND RW MAINS RESIZED

0 24.05.2023 FOR CONSTRUCTION 30.05.2023 CLIENT COMMENTS DESIGN FILE N:\JOBNUMBER\Design\12D\

SURFACE UPDATE

Plotted By: leahs Plot Date: 29/05/23 - 16:54 Cad File: N:\239078\239078(5)\DWG\water & sewer\Phase 2B\239078(5)2B-WAT-402(1).dwg

DRAWN CHECK DESIGN VERIFY SCALES 0 0.1 0.2 0.3 0.4 A1 / A3 1:10 / 1:20 G.S. M-P.C. G.S. M-P.C. G.S. M-P.C. G.S. M.K. M.K. M.K. M.K. G.S. M.K. M.K. M.K. M.K. G.S. C.S. M.K. M.K. C.H. L.S. C.H. M.K. C.H.

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

SENTRY LINE __ DETECTABLE TAPE

PRIVATE PROPERTY PRESSURE MAIN

TYPICAL DETAIL SCALE 1:10

SOIL FREE FROM ORGANICS OR OTHER DELETERIOUS MATERIAL

TO AS 2566.1 TABLES 3.1 & 3.2

(EXCLUDES SOILS WITH LL>50%)

FINISHED SURFACE

Hunter Office Fax: (02) 4978 5199

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

CLIENT JOHNSON PROPERTY GROUP PROPERTY DESCRIPTION WATAGAN PARK PROPOSED SUBDIVISION - PHASE 2B LOT 1200 DP 1288472 AND LOT 8450 DP 1250919

COORANBONG

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

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

239078(5)2B -

DISCIPLINE

WAT

TYPICAL PIPEWORK TRENCHING DETAILS

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

SENTRY LINE DETECTABLE TAPE (TYP.) 150 MIN.

RECYCLED

WATER

SELECTED BACKFILL MATERIAL (TYP.)

POTABLE

WATER

STREET PRESSURE MAIN

TYPICAL DETAIL
SCALE 1:10

SURVEYED

ADW Johnson

KERB LINE

WORK-AS-EXECUTED
I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with Date: 30/10/2023



402

CONSTRUCTION ISSUE

TYPICAL PROPERTY CONNECTION DETAIL

(PRESSURE SEWER UNIT AT REAR)

SCALE 1:20

REFER SHEET 026 FOR LONG SERVICE

CONNECTION CONDUIT DETAILS

REFER TO STANDARD
DRAWING PSS-1112-FS

FRONT PROPERTY BOUNDARY

-POTABLE WATER SERVICE

-RECYCLED WATER SERVICE

DN20 PE100 PN16

(TYP.)(SEE NOTE 2)

DN25 PE100 PN16

(TYP.)(SEE NOTE 3)

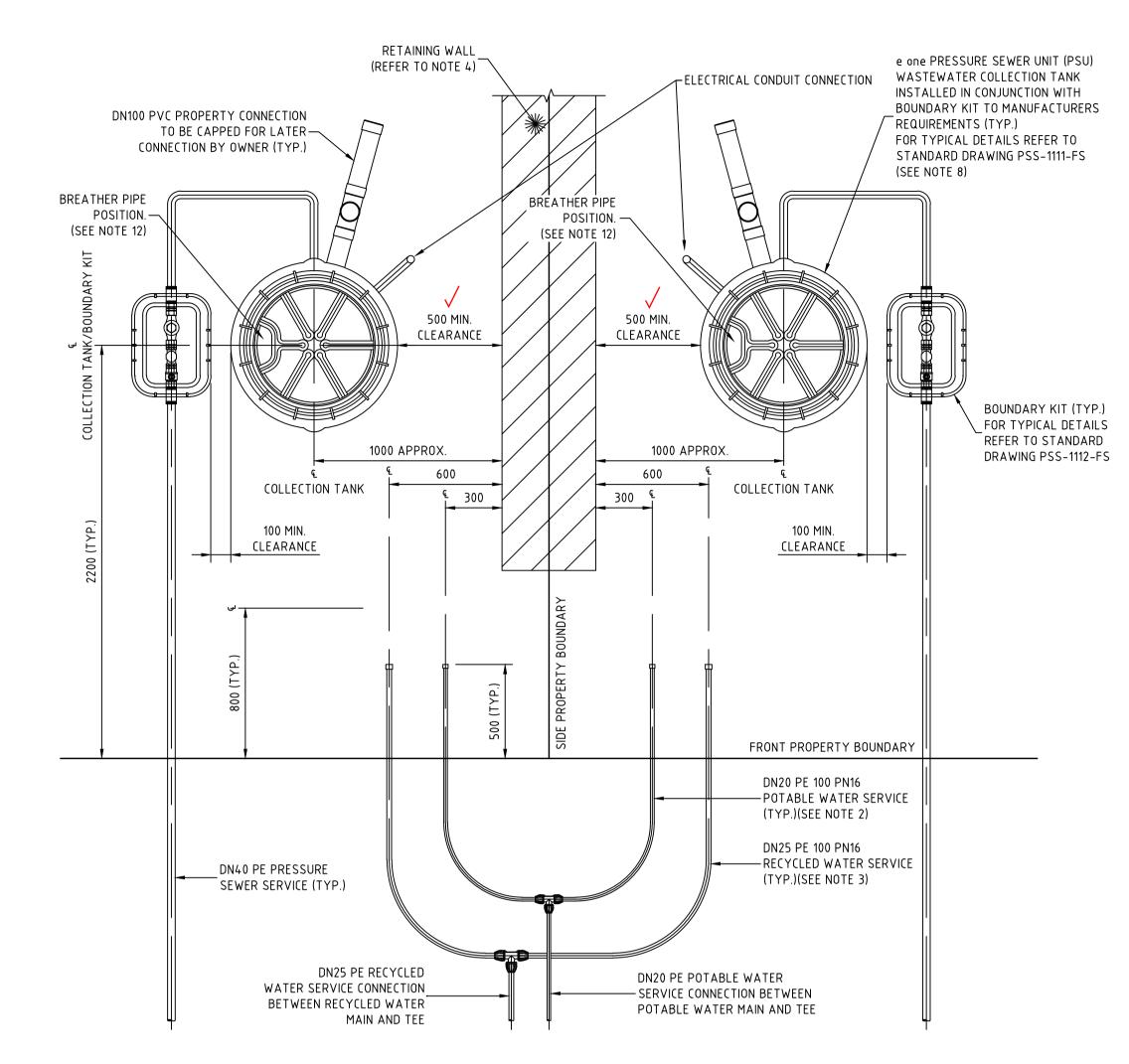
DN40 PE PRESSURE

SEWER SERVICE (TYP.)

DN20 PE POTABLE WATER

- SERVICE CONNECTION BETWEEN

POTABLE WATER MAIN AND TEE



TYPICAL PROPERTY CONNECTION DETAIL

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
- 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
- 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. INSTALL IN ACCORDANCE WITH AS3000 AT MIN 500mm COVER. 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 POSSIBLE.
- 13. CONTRACTOR TO INSTALL ELECTRICAL CONDUIT CONNECTION IN ACCORDANCE WITH AS3000 AT MIN 500mm COVER. ELECTRICAL GROMMET SUPPLIED WITH TANK AND LOCATED LOOSE WITHIN TANK. Ø25 CONDUIT TO BE PROVIDED WITH LONG RADIUS SWEEP BEND INTO THE VERTICAL POSITION AND LEFT CAPPED ABOVE GROUND LEVEL FOR FUTURE ELECTRICAL CONNECTION BY ELECTRICIAN ONCE DWELLING IS CONSTRUCTED.





CONSTRUCTION ISSUE

AMENDMENT REV. DATE DRAWN CHECK DESIGN VERIFY POTABLE WATER, RECYCLED WATER AND **SCALES** CLIENT **PROJECT** PROPERTY DESCRIPTION **Hunter Office** WATAGAN PARK PROPOSED PRESSURE SEWER RETICULATION SURFACE UPDATE 0.8 A1 / A3 Unit 7/335 Hillsborough Rd 16.01.2023 CLIENT COMMENTS G.S. M-P.CSUBDIVISION - PHASE 2B □ 1:20 / 1:40 PLAN TITLE Warners Bay N.S.W. 2282 03.02.2023 UPDATE PIPE SIZE M.K. M.K. M.K. LOT 1200 DP 1288472 AND JOHNSON PROPERTY Phone: (02) 4978 5100 G.S. M.K. M.K. 08.02.2023 ADDITIONAL PIPE STUB DETAIL M.K. TYPICAL PROPERTY CONNECTION: SHEET 1 OF 2 LOT 8450 DP 1250919 Fax: (02) 4978 5199 G.S. C.S. F 16.05.2023 PW AND RW MAINS RESIZED M.K. M.K. COORANBONG email: hunter@adwjohnson.com.au O 24.05.2023 FOR CONSTRUCTION G.S. C.H. M.K. C.H. **GROUP** www.adwjohnson.com.au 30.05.2023 CLIENT COMMENTS C.H. M.K. C.H. SURVEYED DISCIPLINE ABN 62 129 445 398 239078(5)2B -403 WAT ADW Johnson GDA94 M.G.A. ZONE 56 A.H.D ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCAL DESIGN FILE N: \JOBNUMBER\Design\12D\

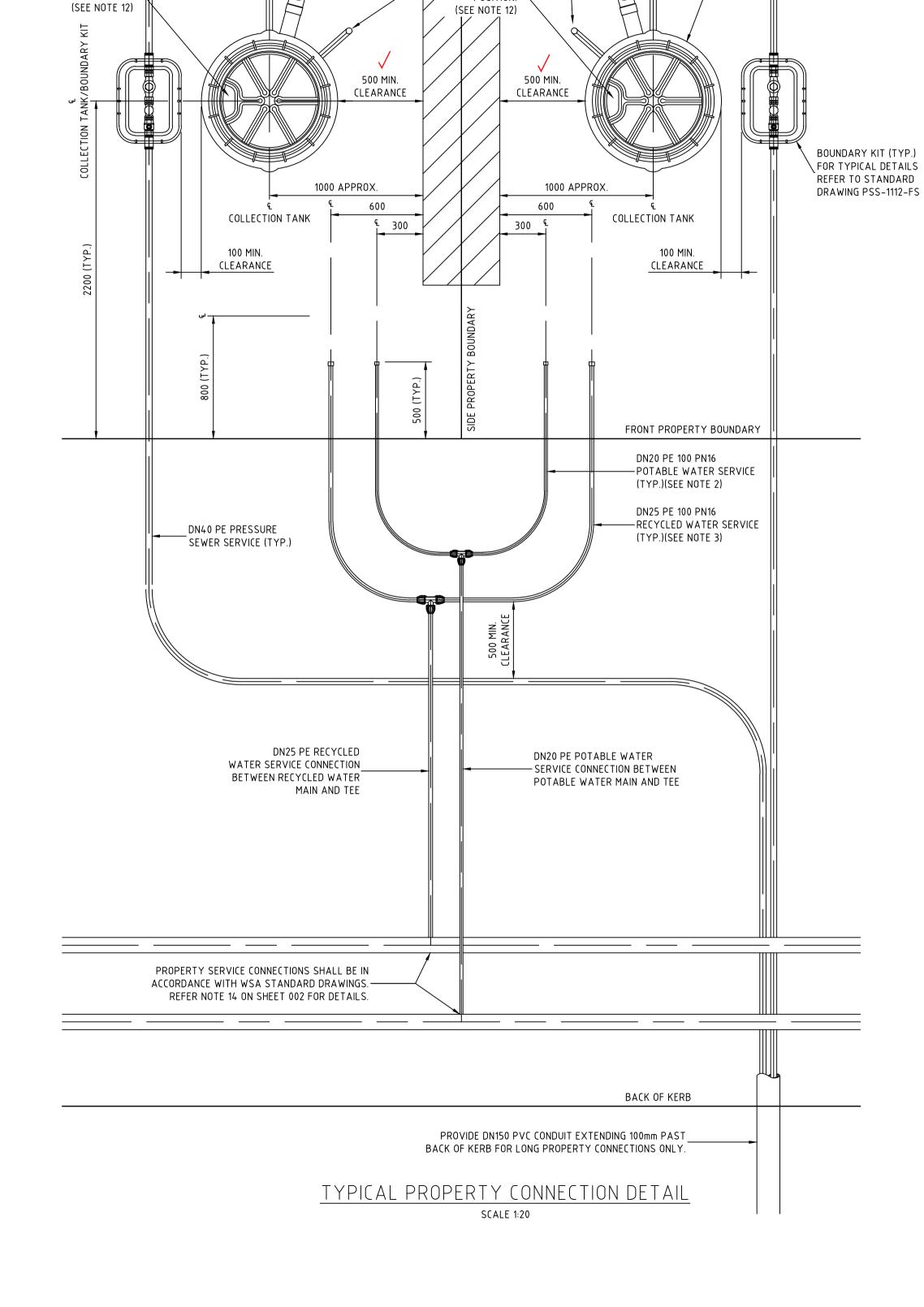
Plotted By: leahs Plot Date: 29/05/23 - 16:55 Cad File: N:\239078\239078(5)\DWG\water & sewer\Phase 2B\239078(5)2B-WAT-403(1).dwg

DN25 PE RECYCLED

MAIN AND TEE

WATER SERVICE CONNECTION

BETWEEN RECYCLED WATER



RETAINING WALL

(REFER TO NOTE 4)

BREATHER PIPE

POSITION. —

DN100 PVC PROPERTY CONNECTION

BREATHER PIPE

POSITION. -

TO BE CAPPED FOR LATER—

CONNECTION BY OWNER (TYP.)

NOTES

e one PRESSURE SEWER UNIT (PSU)

WASTEWATER COLLECTION TANK

INSTALLED IN CONJUNCTION WITH

FOR TYPICAL DETAILS REFER TO

STANDARD DRAWING PSS-1111-FS

REQUIREMENTS (TYP.)

(SEE NOTE 8)

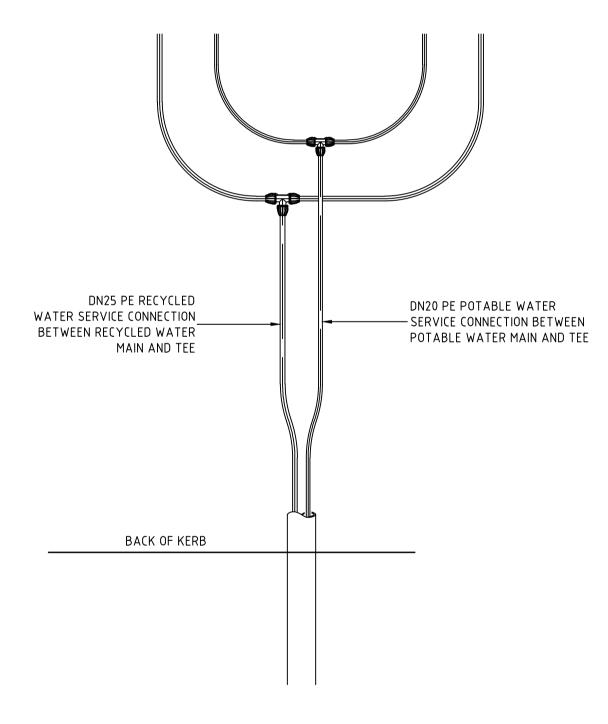
BOUNDARY KIT TO MANUFACTURERS

CONTRACTOR TO INSTALL

INTO TANK. (SEE NOTE 13)

TELECTRICAL CONDUIT CONNECTION

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- 2. DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LACONNECTION BY PROPERTY OWNER.
- 3. DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR L CONNECTION BY PROPERTY OWNER.
- 4. FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE TO BE OFFSET FROM THE PROBUNDARY.
- 5. WHERE SERVICE CONNECTIONS ARE LOCATED ADJACENT TO TELSTRA PITS/ELECTRICAL PILLARS, A MINIMUM CLEARANC 200mm BETWEEN PITS AND SERVICE PIPEWORK IS TO BE MAINTAINED.
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- 8. 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 F PROPERTY BOUNDARY AND BE CAPPED. ELECTRICAL CONDUIT IS TO BE HEAVY DUTY ORANGE. INSTALL IN ACCORDANCE AS3000 AT MIN 500mm COVER. ALL CONDUIT BENDS ARE TO BE LARGE RADIUS SWEEP BENDS.
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- 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
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TYPICAL POTABLE WATER AND
RECYCLED WATER CONDUIT DETAIL
(LONG SIDE)
SCALE 1:20

WORK-AS-EXECUTED
I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.

Signed:

Date: 30/10/2023

Name: Malcolm Harvey Position: Registered Surveyor



CONSTRUCTION ISSUE

mati									
infor	REV. DATE	AMENDMENT	DRAWN CHECK DESIGN VERIFY SCALES		CLIENT	PROPERTY DESCRIPTION	PROJECT POTABLE	E WATER, RECYCLED WATER AND	
ıred		SURFACE UPDATE	G.S. M-P.C. G.S. M-P.C. 0 0.4 0.8 A	Hunter Office 1 / A3		WATAGAN PARK PROPOSED	PRES	SSURE SEWER RETICULATION	
olo		CLIENT COMMENTS	G.S. $M-P.C.$ G.S. $M-P.C.$	20 / 1:40		SUBDIVISION - PHASE 2B	PLAN TITLE		
es c		UPDATE PIPE SIZE	G.S. M.K. M.K.	Warners Bay N.S.W. 2282		LOT 1200 DP 1288472 AND			
clua		ADDITIONAL PIPE STUB DETAIL	G.S. M.K. M.K.	Phone: (02) 4978 5100	JOHNSON	LOT 8450 DP 1250919	TYPICAL PROP	PERTY CONNECTION: SHEET 2 OF 2	
n in		PW AND RW MAINS RESIZED	G.S. C.S. M.K. M.K.	Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au	│	COORANBONG			
pla:		FOR CONSTRUCTION	G.S. C.H. M.K. C.H.		GROUP	COOKANDONG			
This	1 30.05.2023	CLIENT COMMENTS	L.S. C.H. M.K. C.H.	www.adwjohnson.com.au ARN 62 129 445 398	1 GROUP	SURVEYED DATUM	PROJECT No.	DISCIPLINE NUMBER	REV.
	DESIGN FILE N:\JO	DBNUMBER\Design\12D\	ALL DIMENSIONS ARE IN METRES U.N.C	D. DO NOT SCALE JOHNSON ABN 62 129 445 398		ADW Johnson GDA94 M.G.A. ZONE 56 A.H.D.	239078(5)2B	WAT - 404	1 1

EV. DATE

AMENDMENT

16.01.2023 CLIENT COMMENTS

03.02.2023 UPDATE PIPE SIZE

SURFACE UPDATE

08.02.2023 ADDITIONAL PIPE STUB DETAIL

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\exists	l info	RE
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$\frac{1}{2}$	ludes	
	n incl	F
Ludud	This plar	,
		DE:
	,	F

G.S. G.S. L.S. C.S. 16.05.2023 PW AND RW MAINS RESIZED M.K. M.K. C.H. C.H. M.K. C.H. M.K. C.H. 24.05.2023 FOR CONSTRUCTION 30.05.2023 CLIENT COMMENTS SIGN FILE N:\JOBNUMBER\Design\12D\

WASTEWATER COLLECTION TANK DETAILS

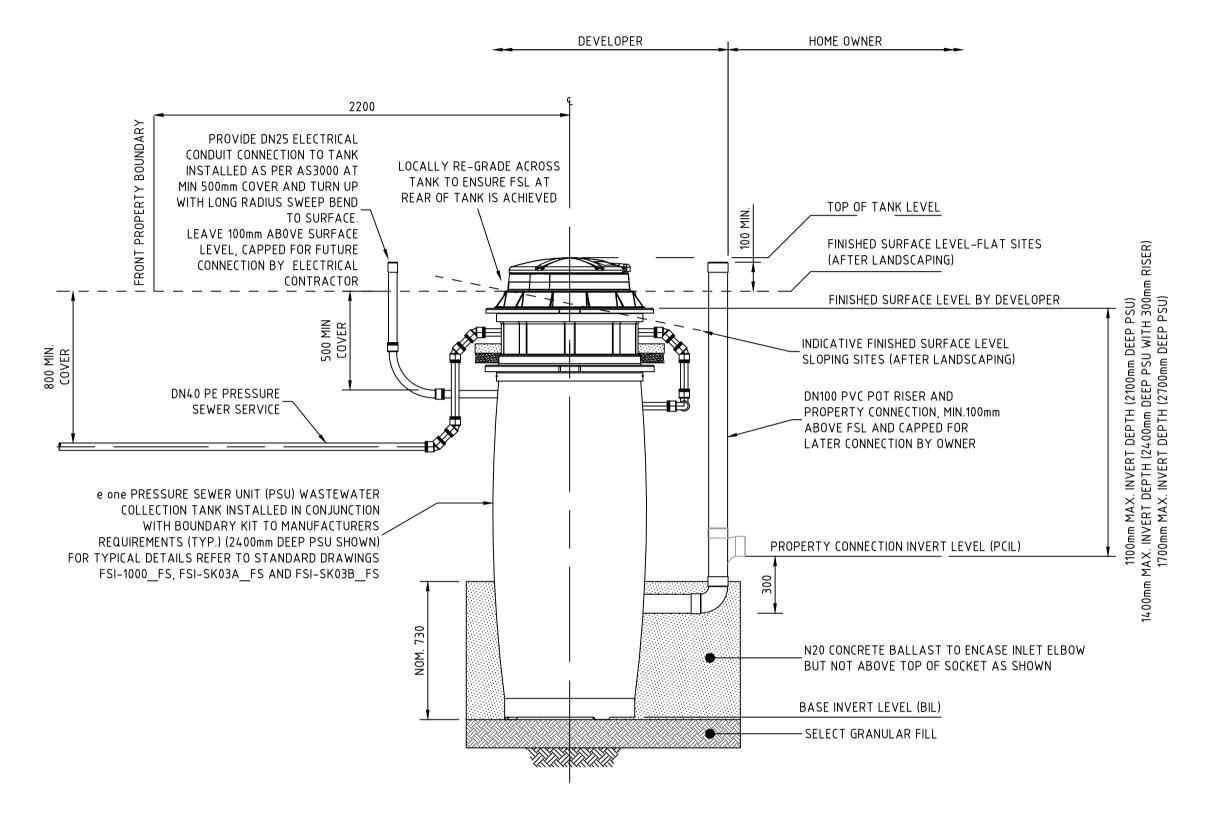
WASTEWATER CULLECTION TANK DETAILS								
LOT NUMBER	TOP OF TANK	TANKS FSL	BASE IL	PROPERTY CONNECTION IL	TANK HEIGHT	TANK LOCATION	EASTING	NORTHING
1251	33.22	33.09	31.09	31.99	2100	FRONT BATTER	356061.00	6341297.70
1252	33.34	33.21	31.21	32.11	2100	FRONT BATTER	356074.94	6341296.43
1253	33.49	33.36	31.36	32.26	2100	FRONT BATTER	356102.42	6341293.93
1254	33.51	33.38	31.38	32.28	2100	FRONT BATTER	356104.81	6341293.71
1255	33.75	33.62	31.62	32.52	2100	FRONT BATTER	356135.34	6341290.93
1256	33.89	33.76	31.76	32.66	2100	FRONT BATTER	356149.10	6341289.68
1257	35.72	35.59	33.59	34.49	2100	FRONT BATTER	356148.09	6341243.48
1258	35.80	35.67	33.67	34.57	2100	FRONT BATTER	356147.87	6341241.09
1259	35.78	35.65	33.65	34.55	2100	REAR	356117.97	6341254.56
1260	36.72	36.59	34.59	35.49	2100	FRONT BATTER	356108.72	6341218.11
1261	36.29	36.16	34.16	35.06	2100	FRONT BATTER	356136.24	6341174.50
1262	36.86	36.73	34.73	35.63	2100	FRONT BATTER	356109.47	6341179.23
1263	37.12	36.99	34.99	35.89	2100	FRONT BATTER	356106.91	6341179.69
1264	37.86	37.73	35.73	36.63	2100	FRONT BATTER	356079.78	6341184.49
1265	38.31	38.18	36.18	37.08	2100	FRONT BATTER	356065.16	6341187.08
1266	38.78	38.65	36.65	37.55	2100	FRONT BATTER	356049.27	6341189.89
1267					PLACED IN STAGE 2			
1268					PLACED IN STAGE 2			
1269					PLACED IN STAGE 2			
1270					PLACED IN STAGE 2			
1271	38.76	38.63	36.63	37.53	2100	FRONT BATTER	356059.19	6341169.45
1272	38.34	38.21	36.21	37.11	2100	FRONT BATTER	356061.56	6341169.03
1273	37.60	37.47	35.47	36.37	2100	FRONT BATTER	356088.74	6341164.22
1274	37.36	37.23	35.23	36.13	2100	FRONT BATTER	356091.10	6341163.80
1275	36.55	36.42	34.42	35.32	2100	FRONT BATTER	356118.28	6341158.99
1276	36.16	36.03	34.03	34.93	2100	FRONT BATTER	356132.60	6341156.45
1277	35.01	34.88	32.88	33.78	2100	FRONT BATTER	356128.95	6341127.50
1278	34.30	34.17	32.17	33.07	2100	FRONT BATTER	356126.68	6341114.65
1279	33.51	33.38	31.38	32.28	2100	FRONT BATTER	356122.95	6341093.58
1280	34.77	34.64	32.64	33.54	2100	FRONT BATTER	356092.11	6341097.22
1281	36.84	36.71	34.71	35.61	2100	FRONT BATTER	356061.64	6341106.16
1282	37.23	37.10	35.10	36.00	2100	FRONT BATTER	356059.39	6341107.00
1283	39.12	38.99	36.99	37.89	2100	FRONT	356030.03	6341120.48
1284	39.40	39.27	37.27	38.17	2100	FRONT BATTER	356027.93	6341121.64
1285	39.97	39.84	37.24	38.14	2700	FRONT BATTER	356005.79	6341113.45
1286	38.53	38.40	36.40	37.30	2100	REAR	356005.18	6341084.85
1287	37.69	37.56	35.26	36.16	2400	FRONT BATTER	356043.28	6341093.65
1288	36.53	36.40	34.40	35.30	2100	REAR	356035.78	6341069.75
1289	35.26	35.13	32.83	33.73	2400	FRONT	356072.17	6341083.34
1290	33.98	33.85	31.85	32.75	2100	REAR	356068.09	6341059.69
1291	33.21	33.08	30.78	31.68	2400	FRONT BATTER	356101.70	6341076.62
1292	32.38	32.25	29.65	30.55	2700	FRONT BATTER	356117.57	6341073.81

WASTEWATER COLLECTION TANK COUNT

TANK SIZE	NUMBER OF
2100	33
2400	7
2700	2

0.8 A1 / A3

1:20 / 1:40



PRESSURE SEWER SERVICE CONNECTION TYPICAL SECTIONAL ELEVATION

SCALE 1:20

....

WASTEWATER COLLECTION TANKS WAE								
LOT No.	EASTING	NORTHING	FSL					
1251	356061.224	6341297.276	33.225					
1252	356074.871	6341296.422	33.31					
1253	356102.47	6341294.08	33.471					
1254	356104.671	6341293.454	33.507					
1255	356135.31	6341291.102	33.714					
1256	356148.502	6341289.286	33.893					
1257	356148.159	6341243.419	35.746					
1258	356147.881	6341241.143	35.833					
1259	356117.576	6341254.135	35.775					
1260	356111.283	6341209.413	36.581					
1261	356136.071	6341174.897	36.377					
1262	356109.707	6341178.99	36.934					
1263	356106.48	6341180.006	37.173					
1264	356080.378	6341184.494	37.856					
1265	356065.583	6341186.937	38.389					
1266	356049.905	6341189.931	38.902					
1267	356051.345	6341214.774	37.642					
1268	356052.693	6341227.948	36.951					
1269	356053.811	6341240.146	36.027					
1270	356054.708	6341252.569	35.318					
1271	356058.67	6341169.549	38.85					

WAS	STEWATER COLL	ECTION TANKS	WAE
LOT No.	EASTING	NORTHING	FSL
1272	356061.54	6341169.011	38.512
1273	356088.243	6341164.322	37.672
1274	356091.255	6341163.696	37.409
1275	356117.722	6341158.992	36.595
1276	356132.671	6341156.49	36.196
1277	356128.927	6341126.933	35.076
1278	356126.768	6341114.508	34.271
1279	356122.358	6341093.744	33.646
1280	356091.692	6341097.313	34.862
1281	356061.709	6341106.124	36.77
1282	356059	6341107.141	37.276
1283	356029.97	6341120.336	39.166
1284	356026.911	6341121.978	39.261
1285	356005.791	6341113.421	40.043
1286	356005.689	6341084.535	38.534
1287	356042.882	6341093.695	38.162
1288	356036.235	6341069.428	36.53
1289	356071.833	6341083.39	35.399
1290	356068.571	6341059.597	34.031
1291	356101.277	6341076.707	33.293
1292	356117.506	6341073.872	32.488

WORK-AS-EXECUTED certify that with the exception of the changes marked in RED, the work has been constructed in accordance with



405

CONSTRUCTION ISSUE

PROPERTY DESCRIPTION

ADW Johnson

SURVEYED

WATAGAN PARK PROPOSED SUBDIVISION - PHASE 2B LOT 1200 DP 1288472 AND LOT 8450 DP 1250919

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

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

239078(5)2B -

DISCIPLINE

WAT

SEWER SERVICE CONNECTION DETAILS

COORANBONG

PROJECT No.

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 Johnson ABN 62 129 445 398

JOHNSON PROPERTY GROUP

CLIENT

ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE Plotted By: leahs Plot Date: 29/05/23 - 16:55 Cad File: N:\239078\239078(5)\DWG\water & sewer\Phase 2B\239078(5)2B-WAT-405(1).dwg

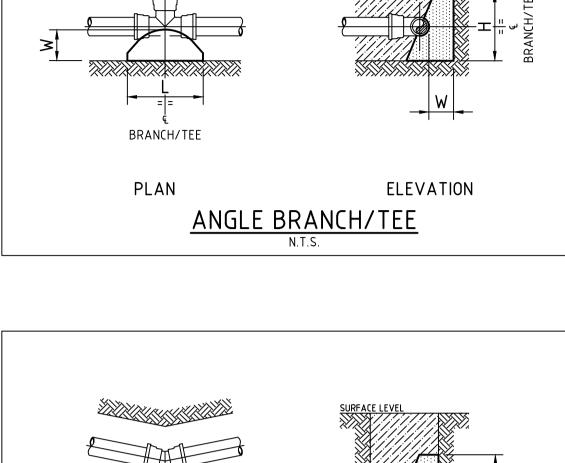
G.S.

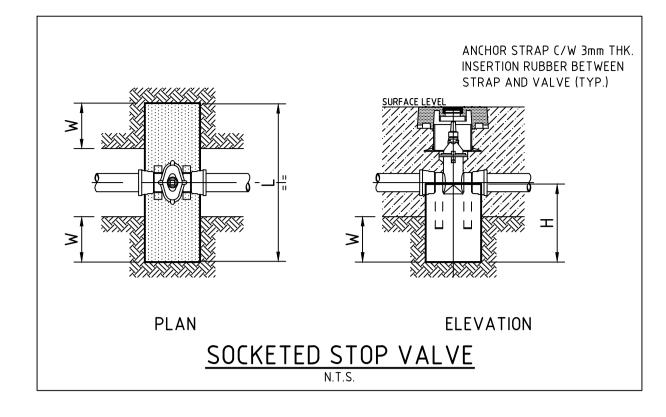
DRAWN CHECK DESIGN VERIFY SCALES

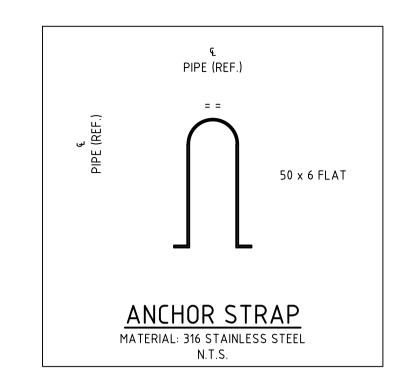
M.K. M.K. M.K.

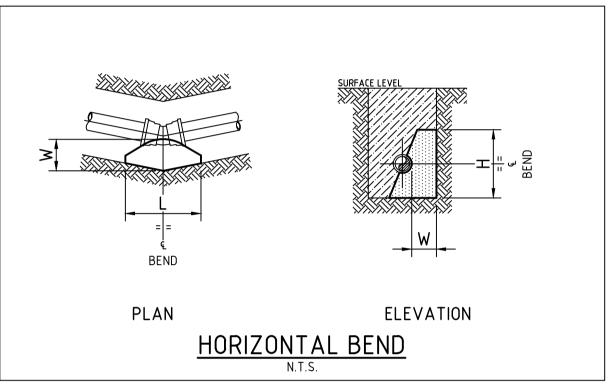
G.S. M-P.C. G.S. M-P.C

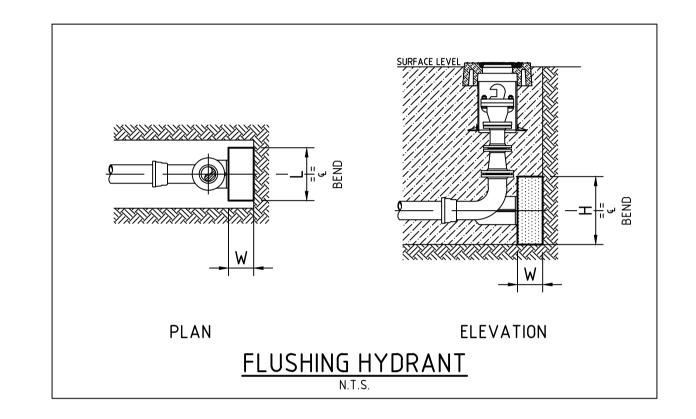
G.S. M.K. M.K. M.K.











TYPE	FITTING	Soil	Design	Thrust	TA (m2)	Length	Height	Width
		AHBP (Kpa)	STP (Kpa)			(L)	(H)	(W)
1	DN100 × DN100 EQUAL TEE	100	1500	18.00	0.18	0.45	0.40	0.30
2	DN100 x 90° HORIZONTAL BEND	100	1500	25.50	0.26	0.55	0.47	0.30
3	DN100 SOCKETED STOP VALVE	100	1500	18.00	0.18	1.05	0.44	0.30
4	DN100 FLUSHING HYDRANT	100	1500	18.00	0.18	0.45	0.40	0.30
5	DN375 x 90° HORIZONTAL BEND	100	1500	303.00	3.03	1.45	2.09	0.40
6	DN375 SOCKETED STOP VALVE	100	1500	214.50	2.15	2.00	0.86	0.55
7	DN375 FLUSHING HYDRANT	100	1500	214.50	2.15	1.20	1.80	0.40
8	DN200 × DN200 EQUAL TEE	100	1500	64.50	0.65	0.85	0.76	0.30
9	DN200 x DN100 REDUCING TEE	100	1500	18.00	0.18	0.45	0.40	0.30
10	DN200 x DN100 TAPER	100	1500	46.50	0.47	1.20	0.78	0.30
11	DN200 SOCKETED STOP VALVE	100	1500	64.50	0.65	1.40	0.62	0.40
12	DN200 FLUSHING HYDRANT	100	1500	64.50	0.65	0.85	0.77	0.30
13	DN200 END CAP	100	1500	64.50	0.65	0.85	0.77	0.30
14	DN100 END CAP	100	1500	18.00	0.18	0.45	0.40	0.30
15	DN200 x DN150 REDUCING TEE	100	1500	37.50	0.38	0.65	0.58	0.30
16	DN150 SOCKETED STOP VALVE	100	1500	37.50	0.38	1.05	0.46	0.30
17	DN150 FLUSHING HYDRANT	100	1500	37.50	0.38	0.50	0.76	0.30
18	DN150 x DN100 TAPER	100	1500	19.50	0.20	1.05	0.70	0.30
19	DN150 x DN150 EQUAL TEE	100	1500	37.50	0.38	0.50	0.75	0.30
20	DN150 x DN100 REDUCING TEE	100	1500	18.00	0.18	0.40	0.45	0.30

THRUST BLOCK NOTES:

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





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CONSTRUCTION ISSUE

POTABLE WATER, RECYCLED WATER AND

DISCIPLINE

WAT

Ļ	DEV/	DATE	AMENDMENT	IDD AVAN	OUEOK	DEGLON	VEDIEV	Inches I	· •	
	D E F O	08.02.2023 16.05.2023 24.05.2023	SURFACE UPDATE CLIENT COMMENTS UPDATE PIPE SIZE ADDITIONAL PIPE STUB DETAIL PW AND RW MAINS RESIZED FOR CONSTRUCTION	G.S. G.S. G.S. G.S. G.S.	M-P.C. M-P.C. M.K. M.K. C.S. C.H.	G.S. G.S. M.K. M.K. M.K.	M-P.C. M-P.C. M.K. M.K. M.K. C.H.		Hunter Office Unit 7/335 Hillsborough R Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.a www.adwjohnson.com.au	
E	1 30.05.2023 CLIENT COMMENTS L.S. C.H. M.K. C.H. DESIGN FILE N: \JOBNUMBER\Design\12D\ ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE ON SCALE OF SCALE									

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



ROPERTY DESCRIPTIO	N
	WATAGAN PARK PROPOSED
	SUBDIVISION - PHASE 2B
	LOT 1200 DP 1288472 AND
	LOT 8450 DP 1250919
	COORANBONG

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WATAGAN PARK PROPOSED		
SUBDIVISION - PHASE 2B		
LOT 1200 DP 1288472 AND		
LOT 8450 DP 1250919		
COORANBONG		

	PRESSURE SEWER RETICULATION	
PLAN TITLE		
	THRUST BLOCK DETAILS	

239078(5)2B -

EOT 1200 BI 1200-12 AND	
LOT 8450 DP 1250919	THRUST BLOCK DETAILS
LOT 6450 DP 1250919	
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COORANBONG	

PROJECT

ADW Johnson

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