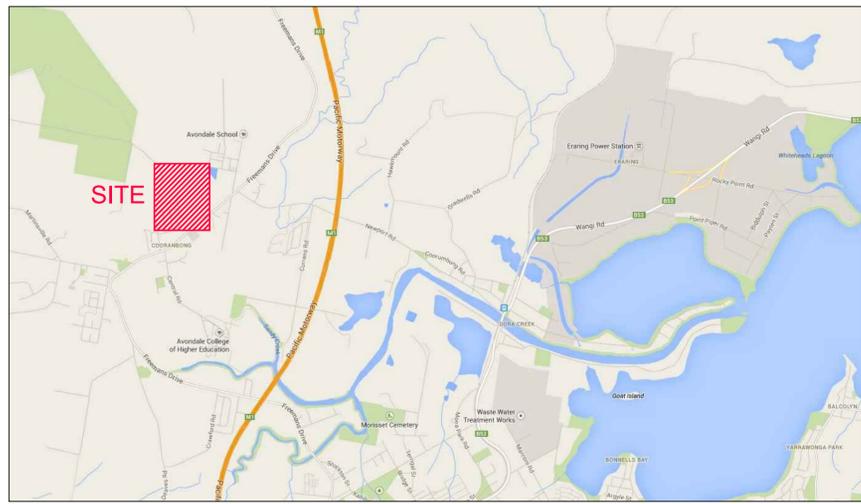


239078(3.10)-WAT-001(1)

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

# PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.10 LOT 219 DP 755218, LOT 3 DP 1222727 ALTON ROAD, COORANBONG DA 1833/2015/A & DA 1834/2015



LOCALITY SKETCH  
NOT TO SCALE

Sheet List Table	
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239078(3.10)-WAT-001	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
239078(3.10)-WAT-002	GENERAL NOTES
239078(3.10)-WAT-003	OVERALL SITE PLAN
239078(3.10)-WAT-101	POTABLE WATER DETAIL PLAN - SHEET 1
239078(3.10)-WAT-102	POTABLE WATER DETAIL PLAN - SHEET 2
239078(3.10)-WAT-103	POTABLE WATER DETAIL PLAN - SHEET 3
239078(3.10)-WAT-201	RECYCLED WATER DETAIL PLAN - SHEET 1
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239078(3.10)-WAT-203	RECYCLED WATER DETAIL PLAN - SHEET 3
239078(3.10)-WAT-301	PRESSURE SEWER DETAIL PLAN - SHEET 1
239078(3.10)-WAT-302	PRESSURE SEWER DETAIL PLAN - SHEET 2
239078(3.10)-WAT-303	PRESSURE SEWER DETAIL PLAN - SHEET 3
239078(3.10)-WAT-401	TYPICAL PIPEWORK TRENCHING DETAILS
239078(3.10)-WAT-402	SEWER SERVICE CONNECTION DETAILS
239078(3.10)-WAT-403	TYPICAL PROPERTY CONNECTION - SHEET 1
239078(3.10)-WAT-404	TYPICAL PROPERTY CONNECTION - SHEET 2
239078(3.10)-WAT-405	THRUST BLOCK DETAILS

**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: 16/02/2023  
Name: Malcolm Harvey Position: Registered Surveyor



**CONSTRUCTION ISSUE**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE			
A	07.10.2021	INITIAL ISSUE	T.S.	C.B.	T.S.	C.B.		<b>Hunter Office</b> Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	<b>PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.10 LOT 219 DP 755218, LOT 3 DP 1222727 ALTON ROAD, COORANBONG DA 1833/2015/A &amp; DA 1834/2015</b>	<b>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</b>	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX			
0	10.12.2021	FOR CONSTRUCTION	T.S.	MP.C.	T.S.	MP.C.								
1	18.01.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.								
2	24.05.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.								
3	21.07.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.		<b>JOHNSON PROPERTY GROUP</b>	SURVEYED ADW Johnson	DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. <b>239078(3.10) -</b>	DISCIPLINE <b>WAT</b>	NUMBER <b>001</b>	REV. <b>3</b>

**PRESSURE SEWER NOTES:** ✓

- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA, PRESSURE SEWERAGE CODE OF AUSTRALIA - WSA 07-2007 VERSION 1.1 AND POLYETHYLENE PIPELINE CODE WSA 01-2004.
- ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS. BUTT FUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE GEORG FISCHER PIPING SYSTEMS BUTT FUSION PRODUCT RANGE. ELECTROFUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE PLASSON "POLYETHYLENE PIPING SYSTEMS" PRODUCT RANGE.
- ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
- PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007 AND ALTOGETHER SUPPLEMENTARY MANUAL TO WSA.
- ALL POLYETHYLENE MAINS ≤ DN200 SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ALL POLYETHYLENE MAINS ≥ DN200 SHALL BE JOINED USING BUTTWELD JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. 600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER AND WATER MAINS. MINIMUM PIPE COVER SHALL BE 800mm IN FOOTWAYS AND 1000mm IN ROADWAYS. MAXIMUM PIPE COVER SHALL BE 1500mm, WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL PRESSURE SEWER AND RECYCLED WATER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
- MAINS CROSSING UNDER EXISTING DRIVEWAYS (SEALED, PAVED OR DECORATIVE) SHALL BE CONDUCTED BY UNDER BORING ONLY UNLESS PERMISSION IS GRANTED BY THE AFFECTED PROPERTY OWNER.
- MAINS WITHIN 2.0m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE ALTOGETHER REPRESENTATIVE).
- ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION WSA-PS350 AND WSA-PS351.
- ALL BENDS SHALL BE ELECTROFUSION OR BUTT WELD SWEEP BENDS. FABRICATED BENDS SHALL NOT BE USED IN LIEU. KNUCKLE ELBOWS ARE NOT PERMITTED.
- MINIMUM BENDING RADIUS FOR PN16 PE100 (SDR11) SHALL BE 20 x DN. (i.e. DN400 : R8.0m, DN250 : R5.0m, DN200 : R4.0m, DN160 : R3.2m, DN125 : R2.5m, DN90 : R1.8m, DN75 : R1.5m, DN63 : R1.3m, DN50 : R1.0m, DN40 : R0.8m).
- ALL HOUSE SERVICE LATERALS SHALL BE DN40 (PE100 PN16).
- FLUSHING PITS SHALL CONFORM WITH ALTOGETHER STANDARD DRAWINGS. REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION. SMALL MAINS (≤ DN110) [http://information.altogethergroup.com.au/governance/Land\\_Housing/PSS-1017A-FS.pdf](http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017A-FS.pdf) LARGE MAINS (> DN110) [http://information.altogethergroup.com.au/governance/Land\\_Housing/PSS-1017B-FS.pdf](http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017B-FS.pdf)
- LOCALISED DEEPENING OF MAINS MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION. THE CONTRACTOR SHALL ENSURE THAT THE AIR VALVE OFFTAKE IS LOCATED AT A HIGH POINT (NATURAL OR ARTIFICIAL) IN THE MAIN (i.e. MAIN SHALL GRADE DOWNWARDS EITHER SIDE OF THE AIR VALVE).
- DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
- ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
- ALL VALVES SHALL BE RESILIENT SEATED SLUICE VALVES (CLOCKWISE CLOSING), SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207 AND SHALL COMPLY WITH ALTOGETHER STANDARD DRAWING PSS-1015-FS.
- ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 07-2007 VERSION 1.1.
- FOR LOTS WITH TANKS IN THE REAR. 1 x 925mm INSTRUMENTATION CONDUIT (ORANGE) AND 1 x 925mm ELECTRICAL CONDUIT (ORANGE)(WITH DRAW WIRES) SHALL BE INSTALLED FROM THE COLLECTION TANK TO WATER METERS. THE CONDUITS SHALL BE LAID IN A COMMON TRENCH WITH THE SEWERAGE AND MAINTAIN A MINIMUM HORIZONTAL CLEARANCE OF 400mm. (REFER TO ALTOGETHER STANDARD DRAWINGS FOR SETOUT DIMENSIONS).
- THE CONSTRUCTOR SHALL PROVIDE ALTOGETHER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE ALTOGETHER REPRESENTATIVE.
- UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION THAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
- PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
- BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
- THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE PRESSURE SEWER CODE OF AUSTRALIA (CLAUSE 21.3.4) ARE:  
TRAFFICABLE  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING.  
NON-TRAFFICABLE  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900mm OF FILL AND EACH 100 LINEAL METRES OF PIPE.
- BOUNDARY KITS (COMPLETE) SHALL BE NOV SUPPLIED (NOV PSS-BK4). e one COLLECTION TANK (ESD 20-0032/ESD 20-0033) SHALL BE INSTALLED WITH BOUNDARY KIT (REFER ALTOGETHER STANDARD DRAWINGS PSS-1112-FS AND PSS-1113-FS). PUMP TO BE INSTALLED BY OTHERS.
- ALL MAINS (UP TO THE BOUNDARY KIT) SHALL BE PRESSURE TESTED TO 1600 kPa. ALL LINES FROM THE WASTEWATER COLLECTION TANK TO THE MANUAL ISOLATION VALVE WITHIN THE BOUNDARY KIT TO BE PRESSURE TESTED TO 1000kPa.
- ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
- ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.
- PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
- WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.

**POTABLE WATER AND RECYCLED WATER NOTES:** ✓

- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA AND WSA 03-2011-3.1 (SYDNEY WATER EDITION 2014) AND THE REQUIREMENTS OF HWC STS 408 WATER QUALITY ACCEPTANCE FOR WATER MAINS.
  - POTABLE WATER SHALL BE UTILISED FOR FIRE FIGHTING PURPOSES.
  - ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, SHALL CONFORM TO THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.
  - ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
  - THE CONSTRUCTOR SHALL VERIFY WITH THE SITE SUPERVISOR THE POSITION AND LEVEL OF ALL EXISTING AND PROPOSED BOUNDARIES PERTINENT TO THE INFRASTRUCTURE INSTALLATIONS.
  - MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. 600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER AND WATER MAINS. MINIMUM PIPE COVER SHALL BE 600mm IN FOOTWAYS (TYPE B EMBEDMENT: WAT-1202-V) AND 800mm IN ROADWAYS (TYPE L EMBEDMENT: WAT-1204-V). MAXIMUM PIPE COVER SHALL BE 1500mm, WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL RECYCLED WATER MAINS AND PRESSURE SEWER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
  - ALL POTABLE WATER MAINS TO BE BLUE PVC-M (PN16). ALL RECYCLED WATER MAINS SHALL BE LILAC PVC-M (PN16). DIFFERENTIATION OF POTABLE AND RECYCLED WATER SYSTEMS SHALL BE AS PER TABLE 4.1 WSA03-2011 WITH BOTH SERVICES BEING CLASSIFIED AS WATER MAINS. RECYCLED WATER MAINS SHALL ALWAYS BE LOWER THAN POTABLE WATER MAINS. 150mm VERTICAL CLEARANCE BETWEEN POTABLE WATER AND RECYCLED WATER MAINS SHALL BE PROVIDED.
  - MAXIMUM JOINT DEFLECTIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
  - LOCALLY LOWER PIPEWORK IN VICINITY OF STOP VALVES TO ENSURE SUFFICIENT COVER IS MAINTAINED OVER VALVES. LOWERING OF PIPEWORK SHALL BE ACHIEVED OVER A NUMBER OF PIPE LENGTHS EITHER SIDE OF VALVES TO ELIMINATE ANY SHARP DEFLECTIONS.
  - ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA 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 NEED FOR TRENCH DRAINAGE/BULKHEADS.
  - DURING CONSTRUCTION, ALL OPEN ENDS OF PIPES SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
  - HYDRANTS, STOP VALVES AND ALL OTHER FITTINGS TO BE THE SAME SIZE AS THE THROUGH WATER MAIN AND ANTI CLOCKWISE CLOSING.
  - HYDRANTS MUST NOT BE INSTALLED IN POTENTIAL DRIVEWAY LOCATIONS. HYDRANTS AND WATER SERVICES SHALL BE NOMINALLY AT LEAST 5.0m FROM EACH BOUNDARY OR ON BOUNDARIES, WHERE POSSIBLE, FITTINGS SHALL BE LOCATED BEHIND KERB INLET PITS.
  - THRUST BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH WAT-1205.
  - ALL PROPERTY (MAIN TO METER) SERVICE CONNECTIONS SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH ALTOGETHER REQUIREMENTS. REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION. SINGLE SERVICE: [http://information.altogethergroup.com.au/governance/Land\\_Housing/WAT-1854-FS.pdf](http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1854-FS.pdf) DUAL SERVICE: [http://information.altogethergroup.com.au/governance/Land\\_Housing/WAT-1855-FS.pdf](http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1855-FS.pdf)
  - PROPERTY SERVICE CONNECTION IS SHALL BE FLUSHED AND LOCKED (BY THE CONTRACTOR) FOLLOWING SUCCESSFUL PRESSURE TESTING.
  - SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
  - ALL MAINS SHALL BE PRESSURE TESTED TO 1500kPa IN ACCORDANCE WITH CLAUSE 19.4 OF WSA03-2011 (SYDNEY WATER EDITION 2014).
  - ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
  - WATER QUALITY TESTING SHALL BE IN ACCORDANCE WITH WSA 03-2011-3.1(SYDNEY WATER EDITION-2014. CLAUSE 19.7).
  - THE CONSTRUCTOR SHALL PROVIDE ALTOGETHER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE ALTOGETHER REPRESENTATIVE.
  - UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION THAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
  - PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
  - BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
  - MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY WSA03-2011 (SYDNEY WATER EDITION 2014) (CLAUSE 19.3.5):  
TRAFFICABLE  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING.  
NON-TRAFFICABLE  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900MM OF FILL AND EACH 100 LINEAL METERS OF PIPE.  
PROPERTY SERVICES  
TEST 1 OF EVERY 5 PROPERTY SERVICE TRENCHES.  
TESTING SHALL BE IN ACCORDANCE WITH TABLE 16.1 AND 17.1 OF THE WATER SUPPLY CODE OF AUSTRALIA.
  - SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
  - PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
  - WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.
  - WHERE THE PIPE GRADE EXCEEDS 5% , TRENCHSTOPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WAT-1209 AND WAT-1210 AT THE SPACING OF 100/M GRADE%. WHERE PIPE GRADES EXCEED 15%, CONCRETE BULKHEADS WILL BE CONSTRUCTED AT SPACING AS PER TABLE 7.5 OF WSA03-2001 SYDNEY WATER EDITION 2014.
- ALTOGETHER STANDARD DRAWINGS CAN BE FOUND AT THE FOLLOWING ADDRESS:  
<https://askus.altogethergroup.com.au/hc/en-us/articles/900004827263-Standard-drawings-for-land-developers->

**GENERAL NOTES:** ✓

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

✓ **CLEARANCES BETWEEN PIPELINES AND UNDERGROUND SERVICES**

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

**NOTES:**

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

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

**WORK-AS-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: 16/02/2023  
Name: Malcolm Harvey Position: Registered Surveyor



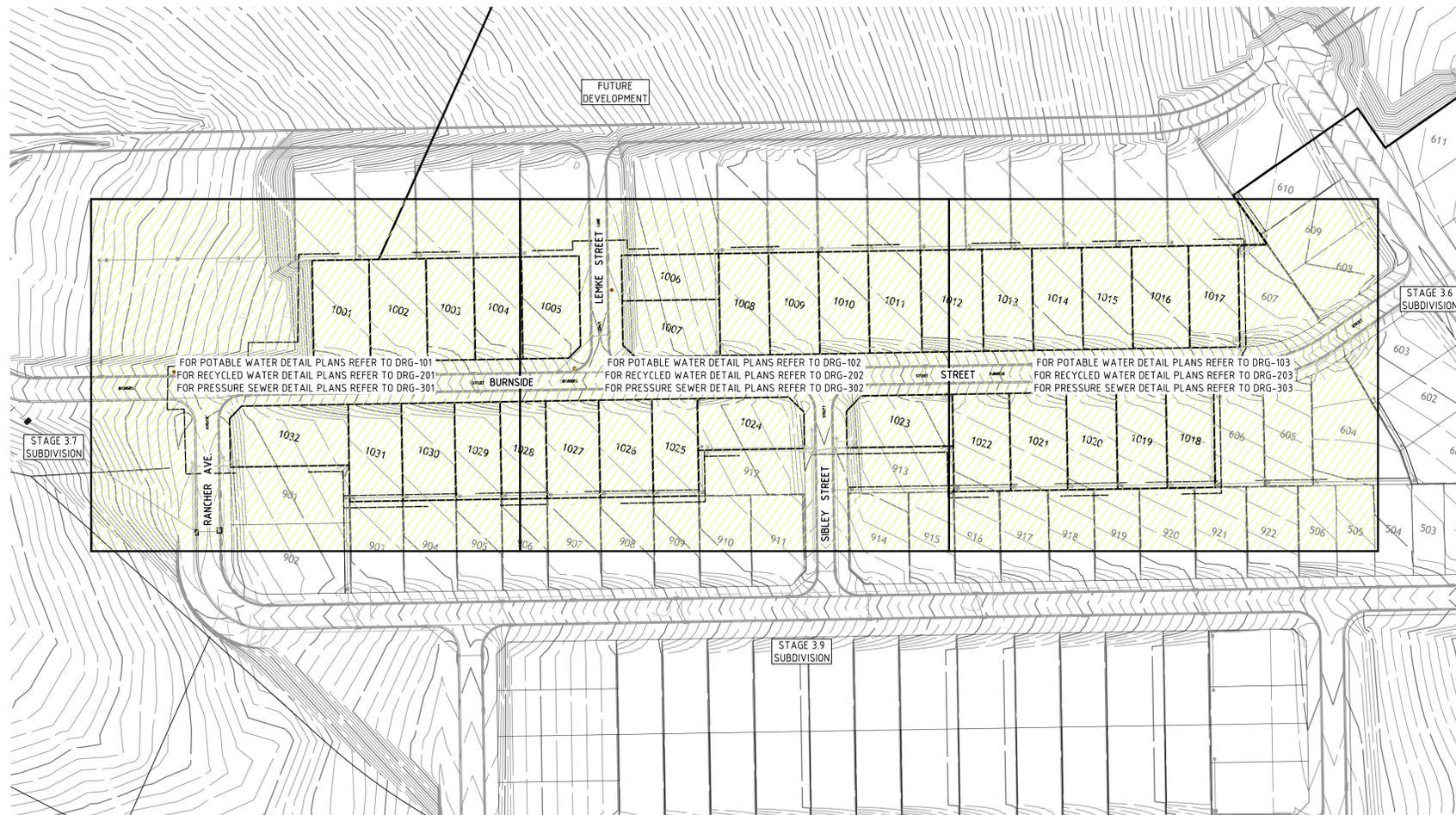
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BEFORE YOU DIG

**CONSTRUCTION ISSUE**

239078(3.10)-WAT-002(1)

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

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	DISCIPLINE	NUMBER	REV.
A	07.10.2021	INITIAL ISSUE	T.S.	C.B.	T.S.	C.B.		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.10 LOT 219 DP 755218, LOT 3 DP 1222727 ALTON ROAD, COORANBONG DA 1833/2015/A & DA 1834/2015	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	GENERAL NOTES	WAT	002	3
0	10.12.2021	FOR CONSTRUCTION	T.S.	MP.C.	T.S.	MP.C.								
1	18.01.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.								
2	24.05.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.								
3	21.07.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.								
DESIGN FILE N:\JOBNUMBER\Design\12D\								ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE						
Plotted By: glenns Plot Date: 21/07/22 - 07:36 Cad File: N:\239078\239078(3)\DWG\engineering\water & sewer\stage 3.10 water and sewer\239078(3.10)-WAT-002(1).dwg														



PLAN  
SCALE 1:1000

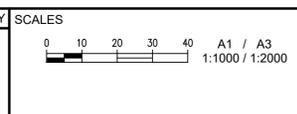
**WORK-AS-EXECUTED**  
I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.  
Signed:  Date: 16/02/2023  
Name: Malcolm Harvey Position: Registered Surveyor



**CONSTRUCTION ISSUE**

REV.	DATE	AMENDMENT
A	07.10.2021	INITIAL ISSUE
0	10.12.2021	FOR CONSTRUCTION
1	18.01.2022	FOR CONSTRUCTION
2	24.05.2022	FOR CONSTRUCTION
3	21.07.2022	FOR CONSTRUCTION

DRAWN	CHECK	DESIGN	VERIFY
T.S.	C.B.	T.S.	C.B.
T.S.	MP.C.	T.S.	MP.C.
G.S.	MP.C.	T.S.	MP.C.
G.S.	MP.C.	T.S.	MP.C.



**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



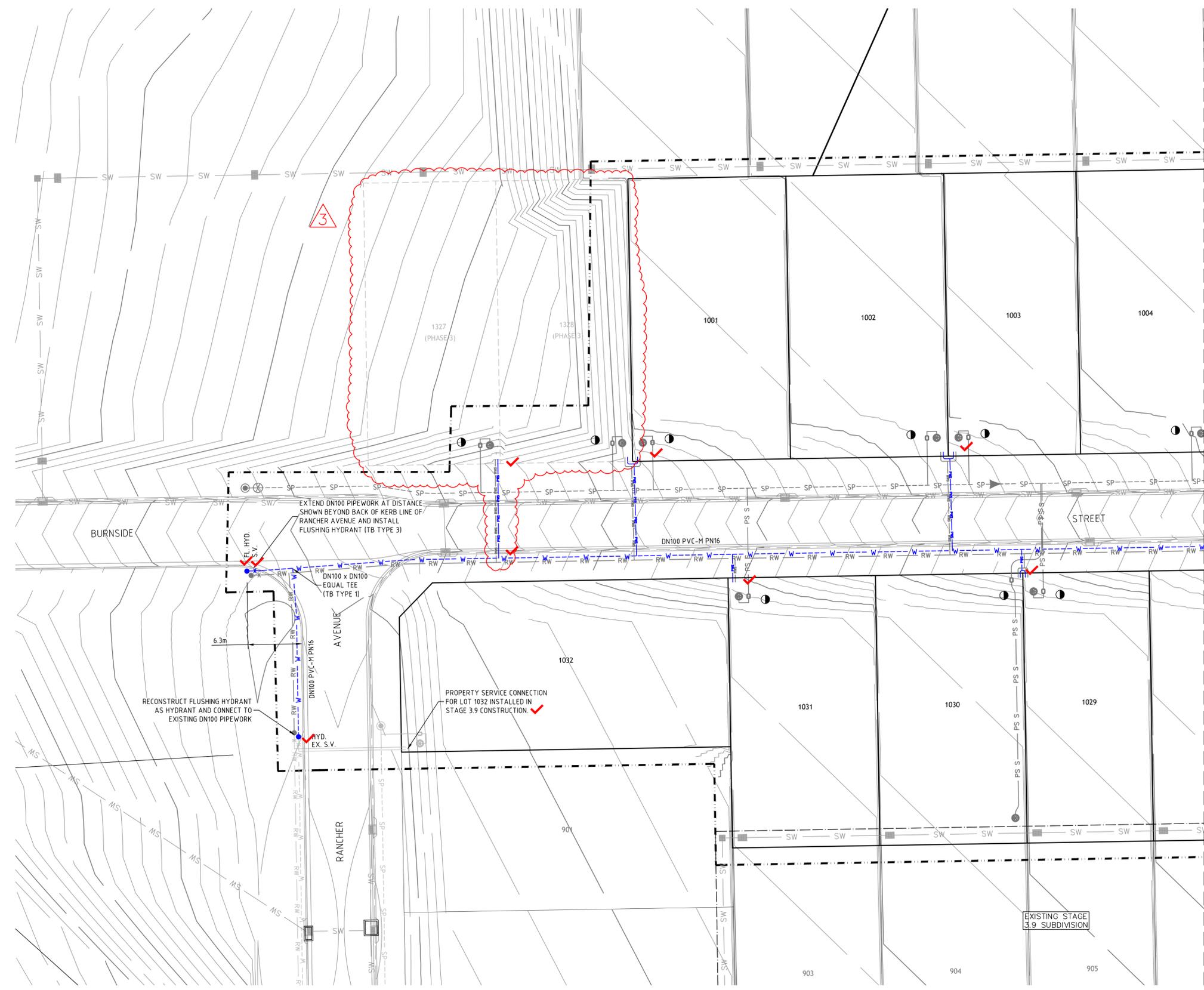
PROPERTY DESCRIPTION  
PRECINCT 3 - WATAGAN PARK  
PROPOSED SUBDIVISION - STAGE 3.10  
LOT 219 DP 755218, LOT 3 DP 1222727  
ALTON ROAD, COORANBONG  
DA 1833/2015/A & DA 1834/2015

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE  
OVERALL SITE PLAN

SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	239078(3.10) -	WAT	003	0

239078(3.10)-WAT-103(1)



- LEGEND**
- W PVC-M POTABLE WATER RETICULATION
  - PWS POTABLE WATER PROPERTY SERVICE
  - RW PVC-M RECYCLED WATER RETICULATION
  - RWS RECYCLED WATER PROPERTY SERVICE
  - SP PE PRESSURE SEWER RETICULATION
  - PS PE PRESSURE SEWER PROPERTY SERVICE
  - EX PW EXISTING POTABLE WATER RETICULATION
  - EX RW EXISTING RECYCLED WATER RETICULATION
  - EX PS EXISTING PRESSURE SEWER RETICULATION
  - SW STORMWATER PIPEWORK
  - SV STOP VALVE
  - HYD. HYDRANT
  - FL HYD. FLUSHING HYDRANT
  - PROPERTY SERVICE CONNECTION
  - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - PROPOSED EASEMENT
  - SUBDIVISION STAGE BOUNDARY

**POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 29 CONNECTIONS (INCL. FUTURE LOTS 1327 & 1328)  
 • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V  
 -3 x SHORT SIDE  
 -2 x LONG SIDE  
 • SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V  
 -4 x SHORT SIDE  
 -8 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	425

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-106 TO 107.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-108 TO 109.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-111.

PLAN  
SCALE 1:250

**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: *[Signature]* Date: 16/02/2023  
 Name: Malcolm Harvey Position: Registered Surveyor



**CONSTRUCTION ISSUE**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	07.10.2021	INITIAL ISSUE	T.S.	C.B.	T.S.	C.B.	
0	10.12.2021	FOR CONSTRUCTION	T.S.	MP.C.	T.S.	MP.C.	
1	18.01.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.	
2	24.05.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.	
3	21.07.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.	

**adw Johnson**

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 ABN 62 129 445 398

**JOHNSON PROPERTY GROUP**

CLIENT

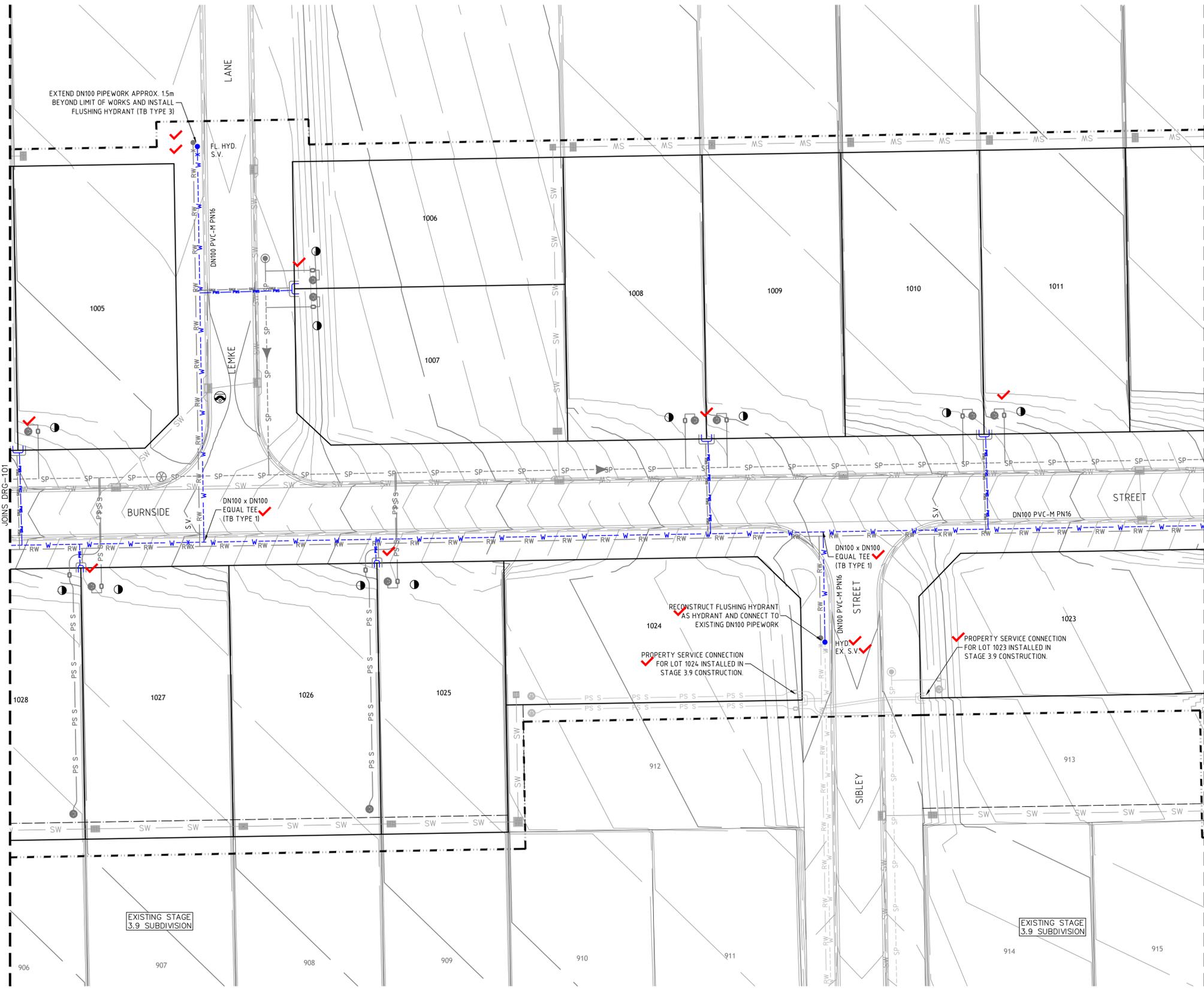
PROPERTY DESCRIPTION  
 PRECINCT 3 - WATAGAN PARK  
 PROPOSED SUBDIVISION - STAGE 3.10  
 LOT 219 DP 755218, LOT 3 DP 1222727  
 ALTON ROAD, COORANBONG  
 DA 1833/2015/A & DA 1834/2015

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 1		
SURVEYED	DATUM	PROJECT No.	DISCIPLINE
ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	239078(3.10) - WAT	101
NUMBER	REV.		
101	3		

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

239078(3.10)-WAT-103(1)

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



**LEGEND**

	PVC-M POTABLE WATER RETICULATION
	POTABLE WATER PROPERTY SERVICE
	PVC-M RECYCLED WATER RETICULATION
	RECYCLED WATER PROPERTY SERVICE
	PE PRESSURE SEWER RETICULATION
	PE PRESSURE SEWER PROPERTY SERVICE
	EXISTING POTABLE WATER RETICULATION
	EXISTING RECYCLED WATER RETICULATION
	EXISTING PRESSURE SEWER RETICULATION
	STORMWATER PIPEWORK
	STOP VALVE
	HYDRANT
	FLUSHING HYDRANT
	PROPERTY SERVICE CONNECTION
	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
	PROPOSED EASEMENT
	SUBDIVISION STAGE BOUNDARY

**3**

**POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
TOTAL 29 CONNECTIONS (INCL. FUTURE LOTS 1327 & 1328))

- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - 3 x SHORT SIDE
  - 2 x LONG SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
  - 4 x SHORT SIDE
  - 8 x LONG SIDE

**POTABLE WATER PIPE DATA**

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	425

- NOTES:**
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-106 TO 107.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-108 TO 109.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-111.

PLAN  
SCALE 1:250

**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: 16/02/2023  
Name: Malcolm Harvey Position: Registered Surveyor

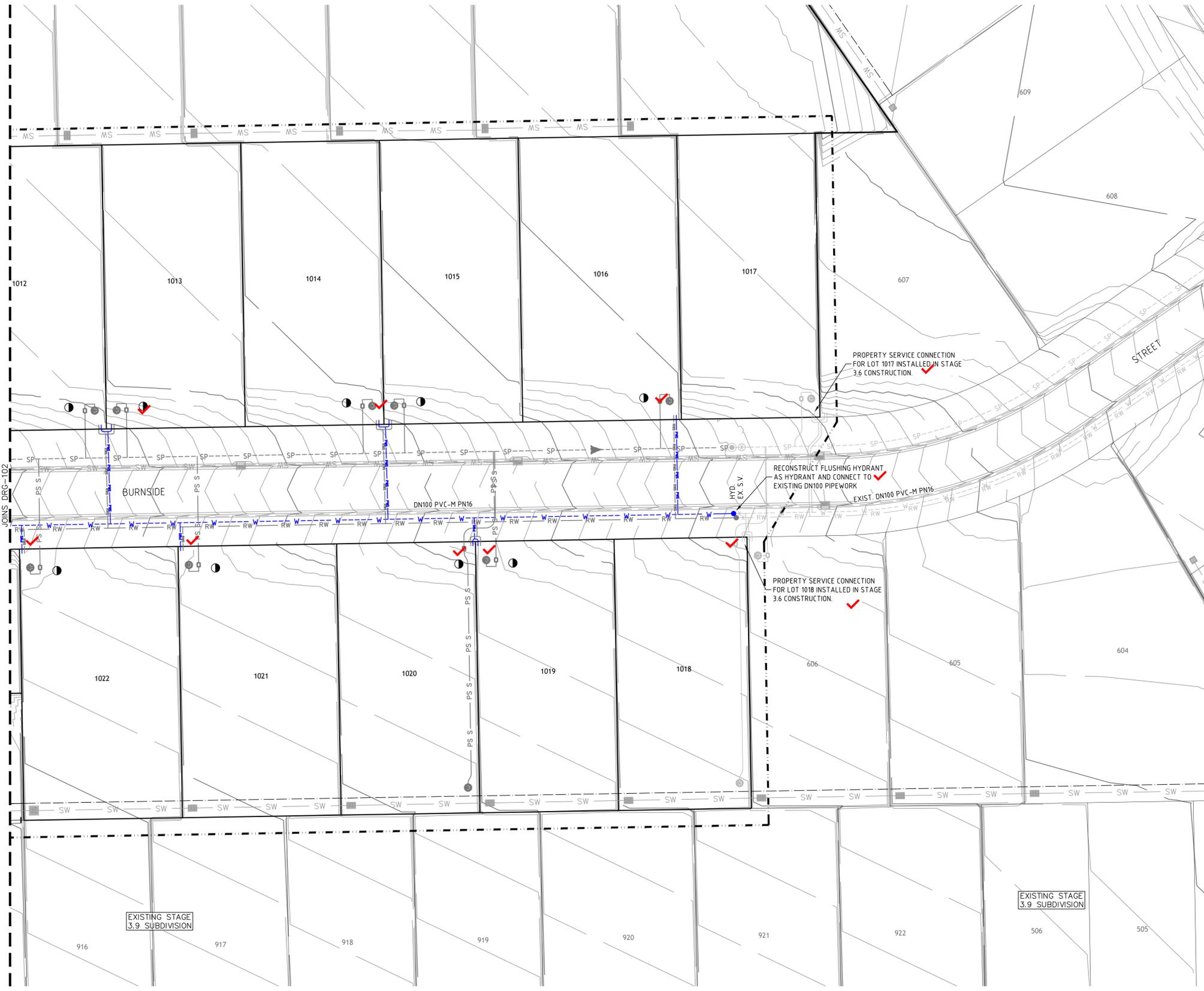


**CONSTRUCTION ISSUE**

<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT</th> <th>DRAWN</th> <th>CHECK</th> <th>DESIGN</th> <th>VERIFY</th> <th>SCALES</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>07.10.2021</td> <td>INITIAL ISSUE</td> <td>T.S.</td> <td>C.B.</td> <td>T.S.</td> <td>C.B.</td> <td rowspan="4">                       A1 / A3                      1:250 / 1:500                 </td> </tr> <tr> <td>0</td> <td>10.12.2021</td> <td>FOR CONSTRUCTION</td> <td>T.S.</td> <td>MP.C.</td> <td>T.S.</td> <td>MP.C.</td> </tr> <tr> <td>1</td> <td>18.01.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>MP.C.</td> <td>T.S.</td> <td>MP.C.</td> </tr> <tr> <td>2</td> <td>24.05.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>MP.C.</td> <td>T.S.</td> <td>MP.C.</td> </tr> <tr> <td>3</td> <td>21.07.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>MP.C.</td> <td>T.S.</td> <td>MP.C.</td> <td></td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	07.10.2021	INITIAL ISSUE	T.S.	C.B.	T.S.	C.B.	 A1 / A3 1:250 / 1:500	0	10.12.2021	FOR CONSTRUCTION	T.S.	MP.C.	T.S.	MP.C.	1	18.01.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.	2	24.05.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.	3	21.07.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.		<p><b>Hunter Office</b> Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	<p><b>CLIENT</b></p>	<p><b>PROPERTY DESCRIPTION</b></p> PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.10 LOT 219 DP 755218, LOT 3 DP 1222727 ALTON ROAD, COORANBONG DA 1833/2015/A & DA 1834/2015	<p><b>PROJECT</b> POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p> <p><b>PLAN TITLE</b> POTABLE WATER DETAIL PLAN - SHEET 2</p>	<table border="1"> <tr> <th>PROJECT No.</th> <th>DISCIPLINE</th> <th>NUMBER</th> <th>REV.</th> </tr> <tr> <td>239078(3.10)</td> <td>WAT</td> <td>102</td> <td>A</td> </tr> </table>	PROJECT No.	DISCIPLINE	NUMBER	REV.	239078(3.10)	WAT	102	A
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES																																																			
A	07.10.2021	INITIAL ISSUE	T.S.	C.B.	T.S.	C.B.	 A1 / A3 1:250 / 1:500																																																			
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239078(3.10)-WAT-103(1)

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



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

**3** POTABLE WATER PROPERTY SERVICE CONNECTIONS  
 TOTAL 29 CONNECTIONS (INCL. FUTURE LOTS 1327 & 1328)  
 • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V  
 -3 x SHORT SIDE  
 -2 x LONG SIDE  
 • SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V  
 -4 x SHORT SIDE  
 -8 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	425

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-106 TO 107.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-108 TO 109.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-111.

PLAN  
SCALE 1:250

**WORK AS EXECUTED**  
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 Signed: Date: 16/02/2023  
 Name: Malcolm Harvey Position: Registered Surveyor

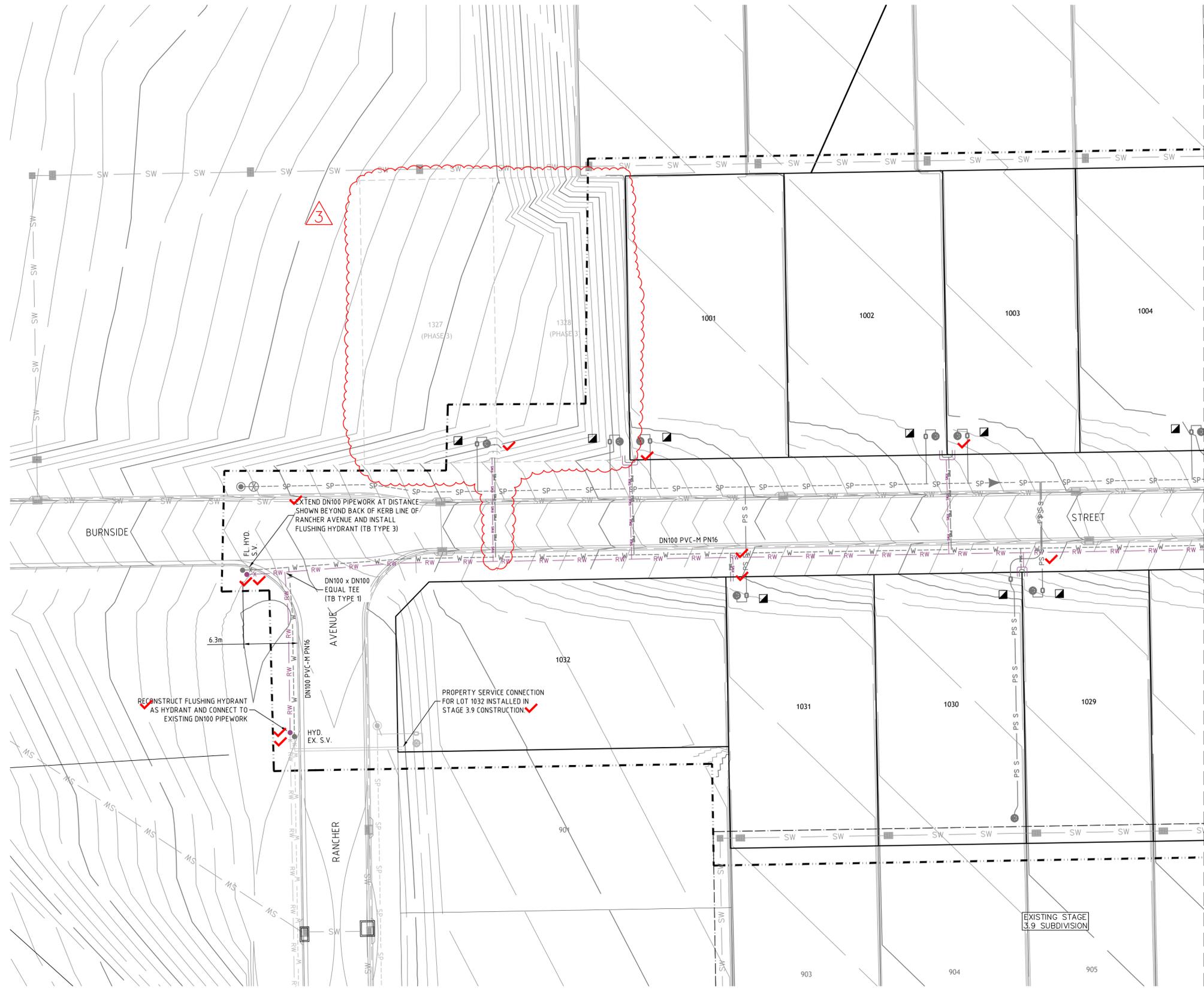


**CONSTRUCTION ISSUE**

<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT</th> <th>DRAWN</th> <th>CHECK</th> <th>DESIGN</th> <th>VERIFY</th> <th>SCALES</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>07.10.2021</td> <td>INITIAL ISSUE</td> <td>T.S.</td> <td>C.B.</td> <td>T.S.</td> <td>C.B.</td> <td rowspan="4">                       A1 / A3                      1:250 / 1:500                 </td> </tr> <tr> <td>0</td> <td>10.12.2021</td> <td>FOR CONSTRUCTION</td> <td>T.S.</td> <td>MP.C.</td> <td>T.S.</td> <td>MP.C.</td> </tr> <tr> <td>1</td> <td>18.01.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>MP.C.</td> <td>T.S.</td> <td>MP.C.</td> </tr> <tr> <td>2</td> <td>24.05.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>MP.C.</td> <td>T.S.</td> <td>MP.C.</td> </tr> <tr> <td>3</td> <td>21.07.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>MP.C.</td> <td>T.S.</td> <td>MP.C.</td> <td></td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	07.10.2021	INITIAL ISSUE	T.S.	C.B.	T.S.	C.B.	 A1 / A3 1:250 / 1:500	0	10.12.2021	FOR CONSTRUCTION	T.S.	MP.C.	T.S.	MP.C.	1	18.01.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.	2	24.05.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.	3	21.07.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.		<p><b>adw</b> <b>Johnson</b></p> <p>Hunter Office                  Unit 7/335 Hillsborough Rd                  Warners Bay N.S.W. 2282                  Phone: (02) 4978 5100                  Fax: (02) 4978 5199                  email: hunter@adwjohnson.com.au                  www.adwjohnson.com.au                  ABN 62 129 445 398</p>	<p>CLIENT</p> <p><b>JOHNSON PROPERTY GROUP</b></p>	<p>PROPERTY DESCRIPTION</p> <p>PRECINCT 3 - WATAGAN PARK                  PROPOSED SUBDIVISION - STAGE 3.10                  LOT 219 DP 755218, LOT 3 DP 1222727                  ALTON ROAD, COORANBONG                  DA 1833/2015/A &amp; DA 1834/2015</p>	<p>PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p> <p>PLAN TITLE</p> <p>POTABLE WATER DETAIL PLAN - SHEET 3</p>	<table border="1"> <tr> <th>PROJECT No.</th> <th>DISCIPLINE</th> <th>NUMBER</th> <th>REV.</th> </tr> <tr> <td>239078(3.10)</td> <td>WAT</td> <td>103</td> <td>3</td> </tr> </table>	PROJECT No.	DISCIPLINE	NUMBER	REV.	239078(3.10)	WAT	103	3
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES																																																			
A	07.10.2021	INITIAL ISSUE	T.S.	C.B.	T.S.	C.B.	 A1 / A3 1:250 / 1:500																																																			
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PROJECT No.	DISCIPLINE	NUMBER	REV.																																																							
239078(3.10)	WAT	103	3																																																							

239078(3.10)-WAT-203(1)

100mm AT FULL SIZE  
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- LEGEND**
- RW PVC-M RECYCLED WATER RETICULATION
  - RWS RECYCLED WATER PROPERTY SERVICE
  - W PVC-M POTABLE WATER RETICULATION
  - PWS POTABLE WATER PROPERTY SERVICE
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  - EX PS EXISTING PRESSURE SEWER RETICULATION
  - SW STORMWATER PIPEWORK
  - SV STOP VALVE
  - HYD. HYDRANT
  - FL HYD. FLUSHING HYDRANT
  - PROPERTY SERVICE CONNECTION
  - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - PROPOSED EASEMENT
  - SUBDIVISION STAGE BOUNDARY

**RECYCLED WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 29 CONNECTIONS (INCL. FUTURE LOTS 1327 & 1328)

- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - 3 x SHORT SIDE
  - 2 x LONG SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
  - 4 x SHORT SIDE
  - 8 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	425

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-401.
  4. LOTS 1023 & 1024 HAVE BEEN SERVICED IN STAGE 3.9. LOT 1017 HAS BEEN SERVICED IN STAGE 3.6.

**WORK-AS-EXECUTED**  
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 Name: Malcolm Harvey Position: Registered Surveyor



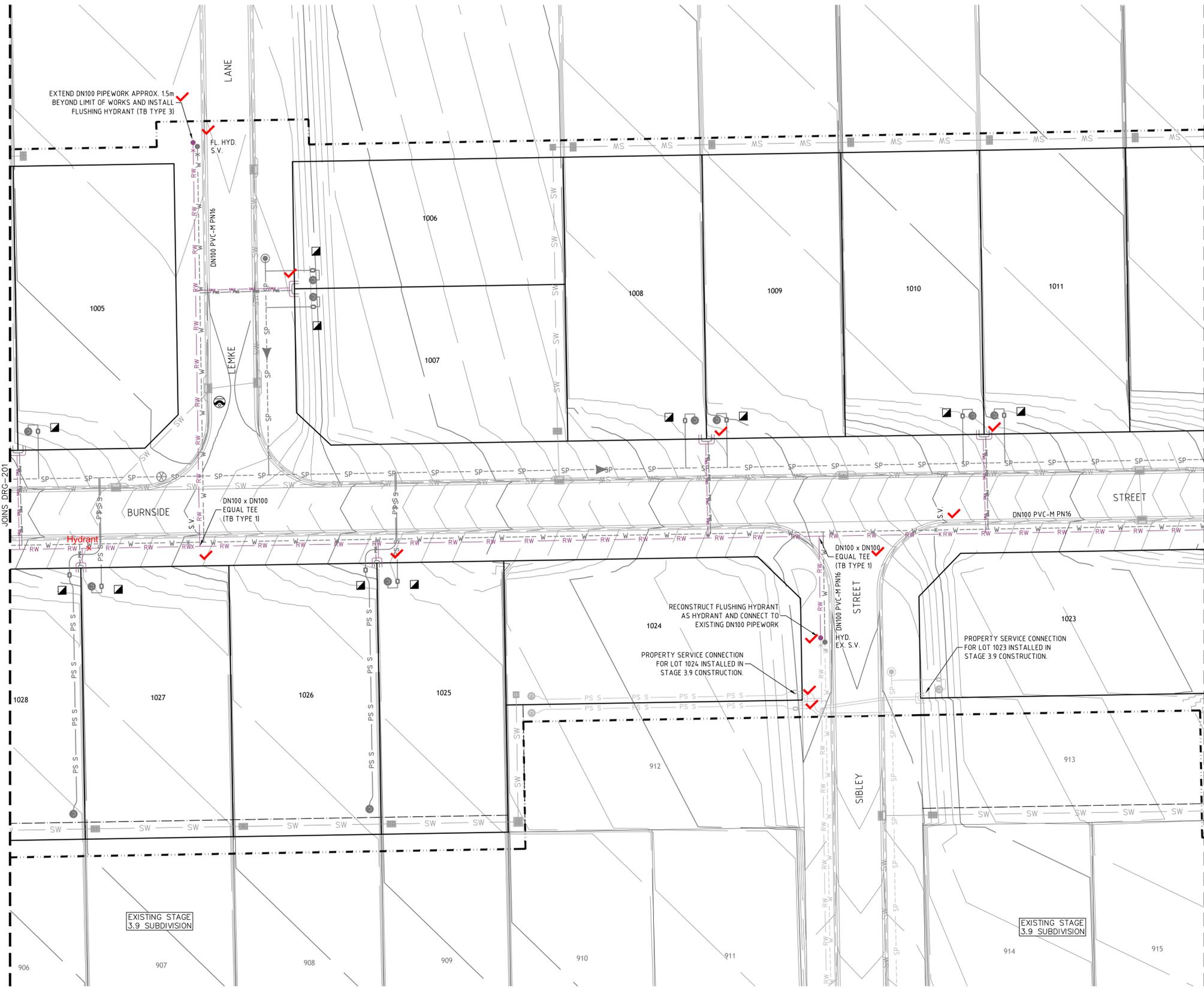
**CONSTRUCTION ISSUE**

PLAN  
SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	 CLIENT	PROPERTY DESCRIPTION PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.10 LOT 219 DP 755218, LOT 3 DP 1222727 ALTON ROAD, COORANBONG DA 1833/2015/A & DA 1834/2015	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
PLAN TITLE RECYCLED WATER DETAIL PLAN - SHEET 1														
A	07.10.2021	INITIAL ISSUE	T.S.	C.B.	T.S.	C.B.	 A1 / A3 1:250 / 1:500				PROJECT No. 239078(3.10) -	DISCIPLINE WAT -	NUMBER 201	REV. 3
0	10.12.2021	FOR CONSTRUCTION	T.S.	MP.C.	T.S.	MP.C.								
1	18.01.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.								
2	24.05.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.								
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239078(3.10)-WAT-203(1)

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**LEGEND**

	RW	PVC-M RECYCLED WATER RETICULATION
	RWS	RECYCLED WATER PROPERTY SERVICE
	W	PVC-M POTABLE WATER RETICULATION
	PWS	POTABLE WATER PROPERTY SERVICE
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	PS	PE PRESSURE SEWER PROPERTY SERVICE
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	EX RW	EXISTING RECYCLED WATER RETICULATION
	EX PS	EXISTING PRESSURE SEWER RETICULATION
	SW	STORMWATER PIPEWORK
	SV	STOP VALVE
	HYD.	HYDRANT
	FL HYD.	FLUSHING HYDRANT
		PROPERTY SERVICE CONNECTION
		LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
		PROPOSED EASEMENT
		SUBDIVISION STAGE BOUNDARY



**RECYCLED WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 29 CONNECTIONS (INCL. FUTURE LOTS 1327 & 1328)

- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - 3 x SHORT SIDE
  - 2 x LONG SIDE
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RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
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- NOTES:**
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 Signed: Date: 16/02/2023  
 Name: Malcolm Harvey Position: Registered Surveyor



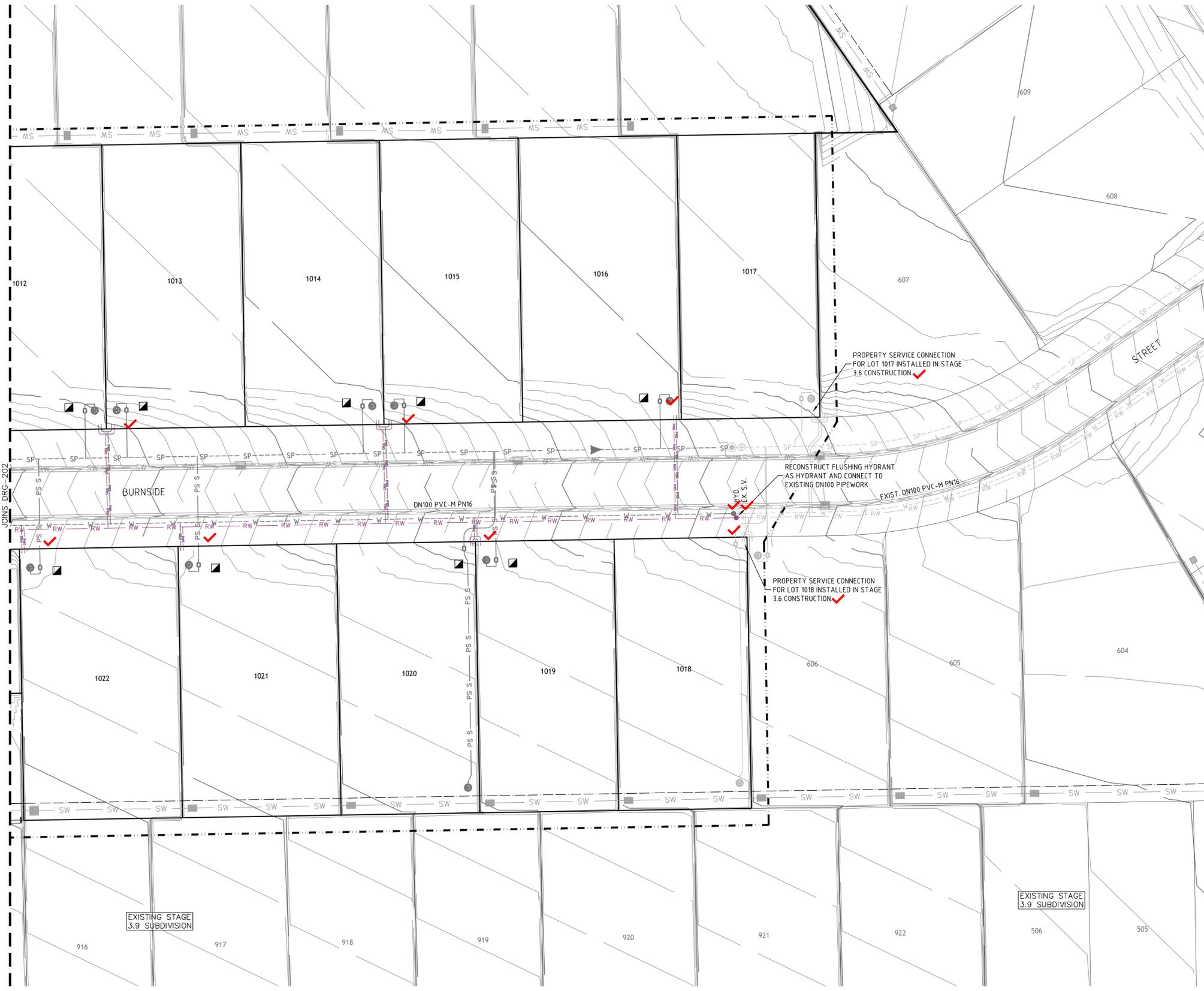
**CONSTRUCTION ISSUE**

PLAN  
SCALE 1:250

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239078(3.10)-WAT-203(1)

100mm AT FULL SIZE  
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**LEGEND**

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

3

**RECYCLED WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 29 CONNECTIONS (INCL. FUTURE LOTS 1327 & 1328)  
 • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V  
 -3 x SHORT SIDE  
 -2 x LONG SIDE  
 • SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V  
 -4 x SHORT SIDE  
 -8 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	425

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-401.
  - LOTS 1023 & 1024 HAVE BEEN SERVICED IN STAGE 3.9, LOT 1017 HAS BEEN SERVICED IN STAGE 3.6.

PLAN  
SCALE 1:250

**WORK AS EXECUTED**  
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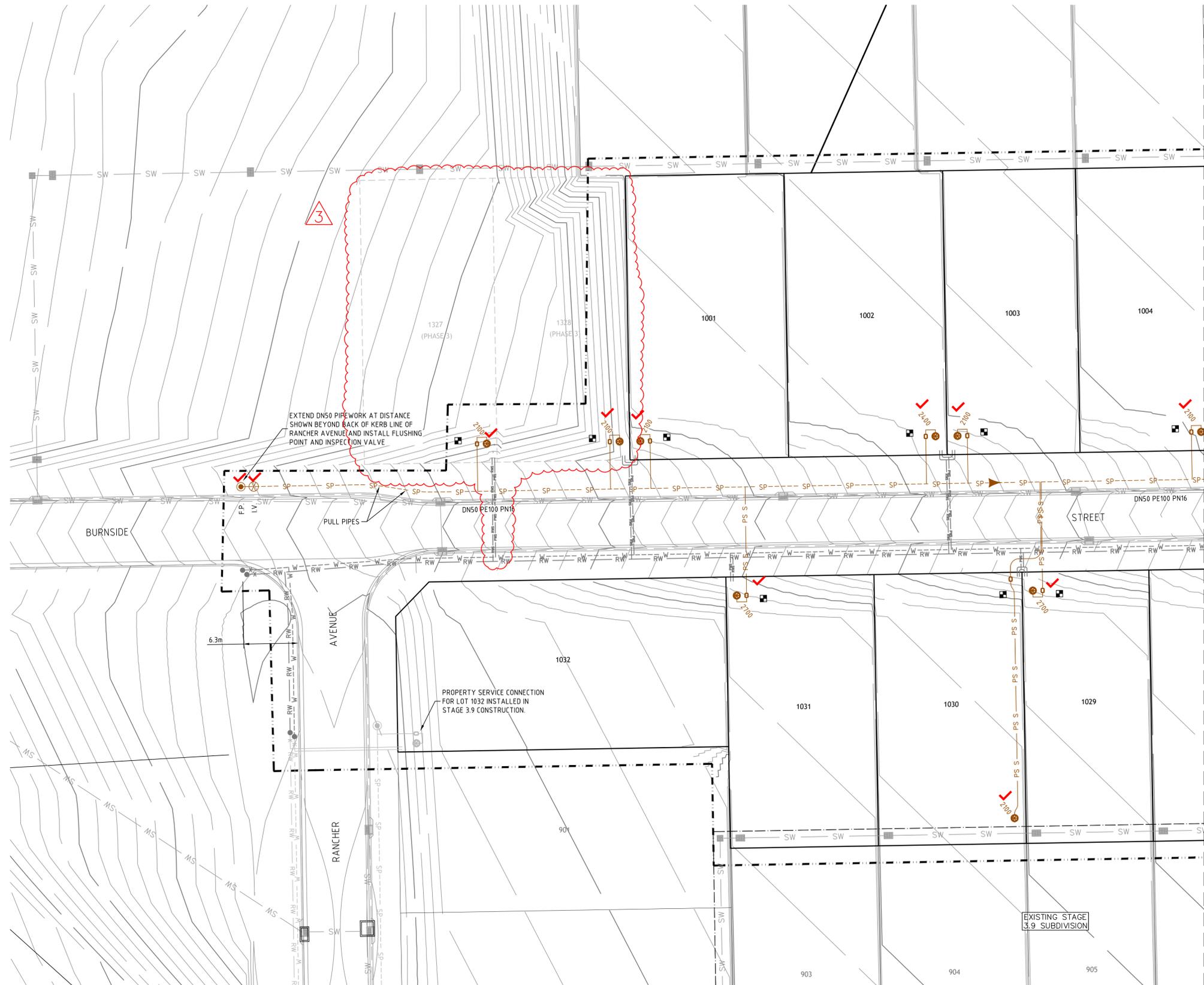


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239078(3.10)-WAT-303(1)

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- LEGEND**
- SP PE PRESSURE SEWER RETICULATION
  - PS S PE PRESSURE SEWER PROPERTY SERVICE
  - W PVC-M POTABLE WATER RETICULATION
  - PWS POTABLE WATER PROPERTY SERVICE
  - RW PVC-M RECYCLED WATER RETICULATION
  - RWS RECYCLED WATER PROPERTY SERVICE
  - EX PS EXISTING PRESSURE SEWER RETICULATION
  - EX PW EXISTING POTABLE WATER RETICULATION
  - EX RW EXISTING RECYCLED WATER RETICULATION
  - SW STORMWATER PIPEWORK
  - IV ISOLATION VALVE
  - FP FLUSHING POINT
  - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
  - PRESSURE SEWER FLOW DIRECTION (INTERMEDIATE)
  - PRESSURE SEWER FLOW DIRECTION (ULTIMATE)
  - PROPERTY SERVICE CONNECTION
  - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - PROPOSED EASEMENT
  - SUBDIVISION STAGE BOUNDARY

**3**

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS  
TOTAL 29 CONNECTIONS (INCL. FUTURE LOTS 1327 & 1328)  
• SINGLE SERVICES  
-18 x SHORT SIDE  
-11 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 PN16	148
DN50	PE100 PN16	218

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-104 TO 105.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-106 TO 107.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-111.
  - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
  - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
  - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).

**WORK-AS-EEXECUTED**  
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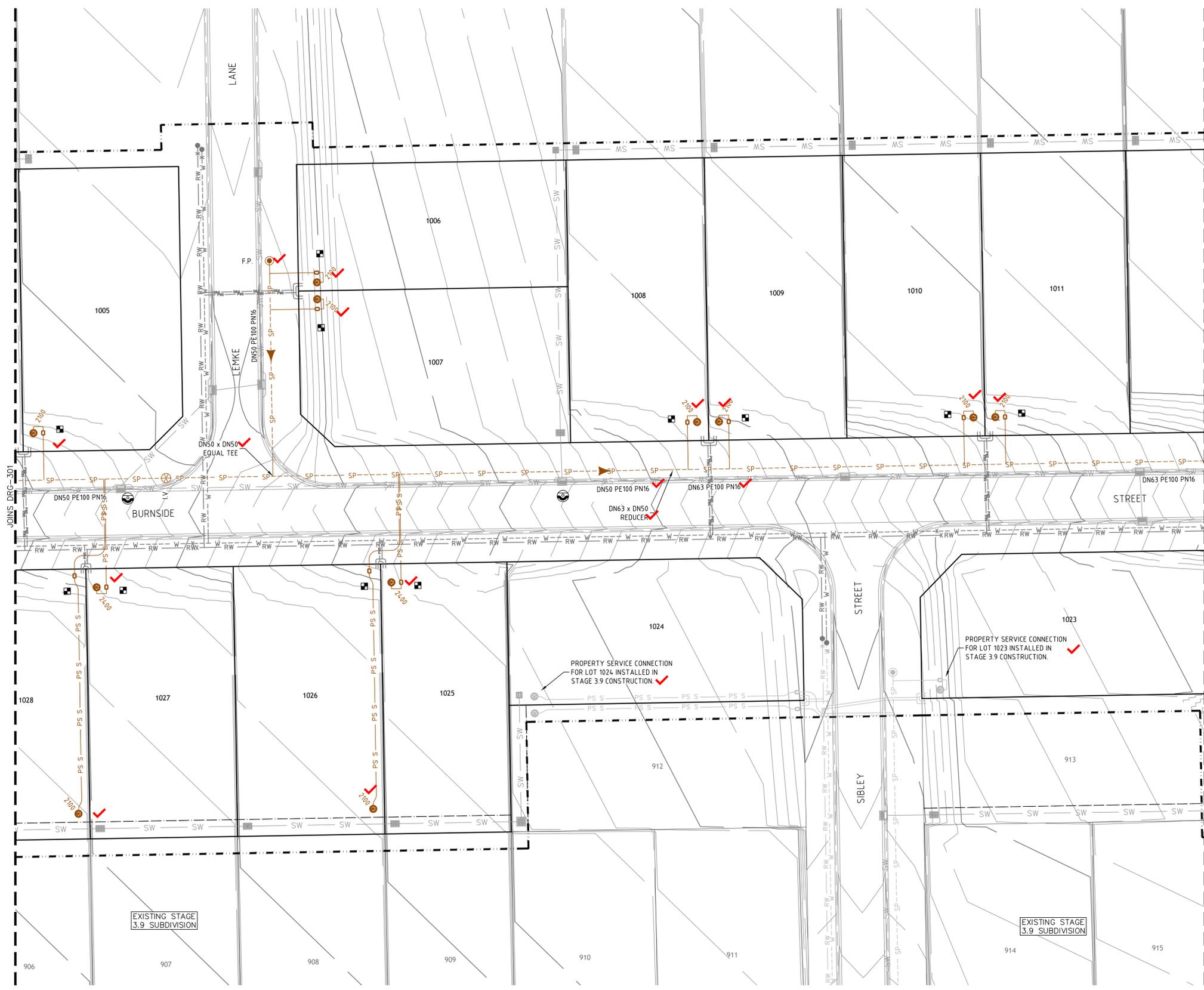


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239078(3.10)-WAT-303(1)



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**3**

PROPERTY SERVICE CONNECTIONS  
TOTAL 29 CONNECTIONS (INCL. FUTURE LOTS 1327 & 1328)  
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-11 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
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**Hunter Office**  
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ABN 62 129 445 398

**adw Johnson**

**JOHNSON PROPERTY GROUP**

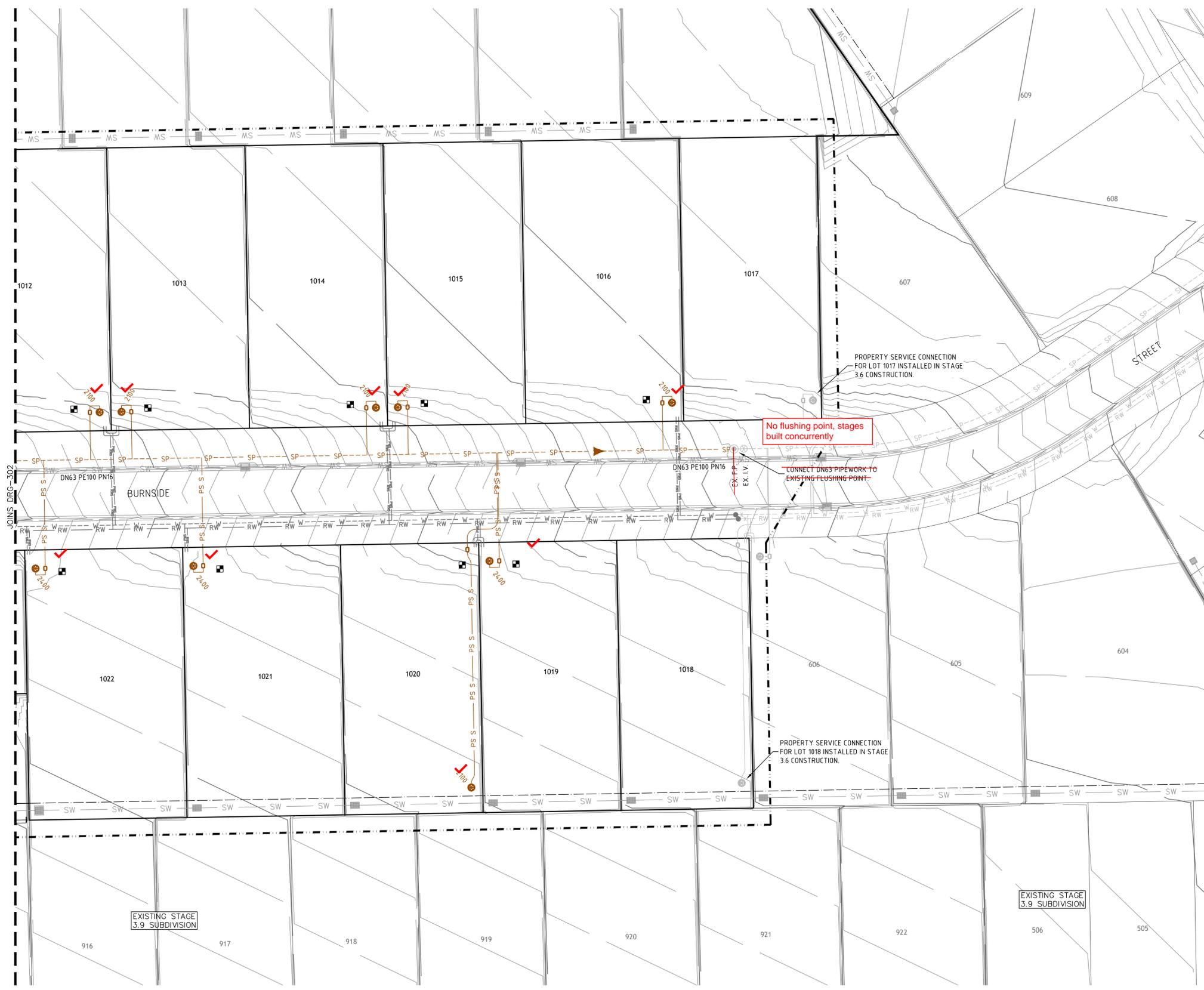
**CLIENT**

PROPERTY DESCRIPTION  
PRECINCT 3 - WATAGAN PARK  
PROPOSED SUBDIVISION - STAGE 3.10  
LOT 219 DP 755218, LOT 3 DP 1222727  
ALTON ROAD, COORANBONG  
DA 1833/2015/A & DA 1834/2015

<b>PROJECT</b>	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
<b>PLAN TITLE</b>	PRESSURE SEWER DETAIL PLAN - SHEET 2		
<b>PROJECT No.</b>	<b>DISCIPLINE</b>	<b>NUMBER</b>	<b>REV.</b>
239078(3.10)	WAT	302	3

239078(3.10)-WAT-303(1)

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  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-106 TO 107.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-111.
  - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
  - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
  - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).

**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: 16/02/2023  
 Name: Malcolm Harvey Position: Registered Surveyor

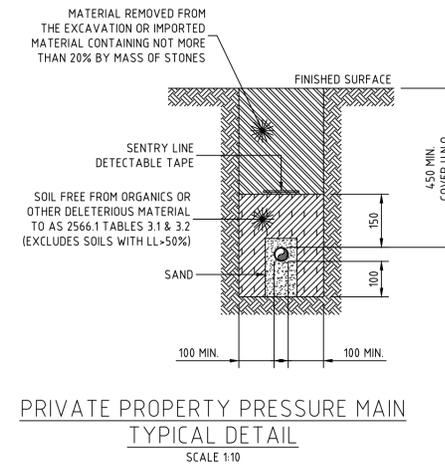
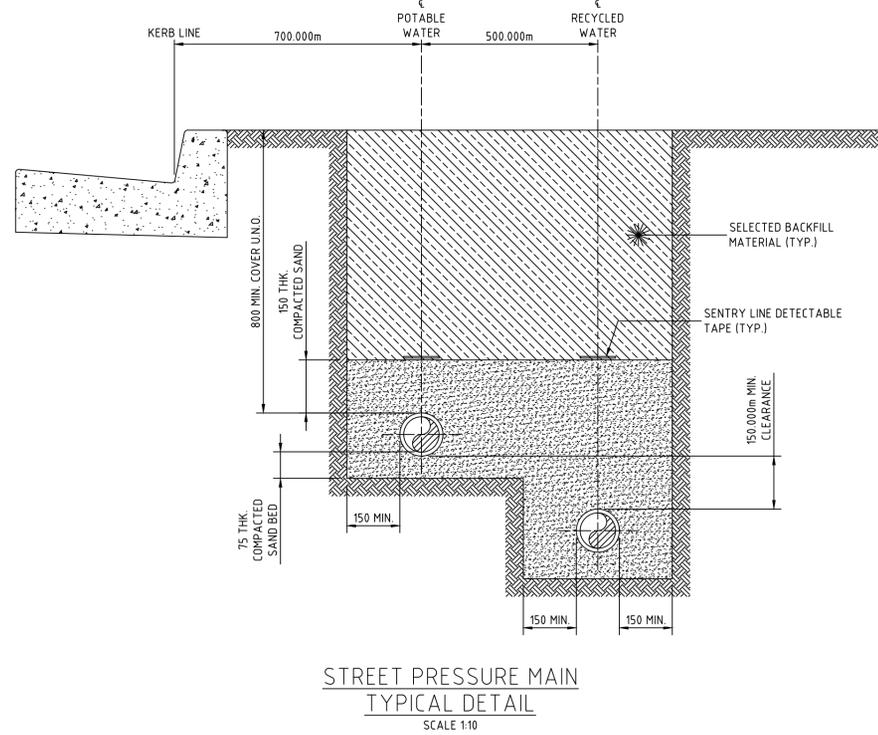
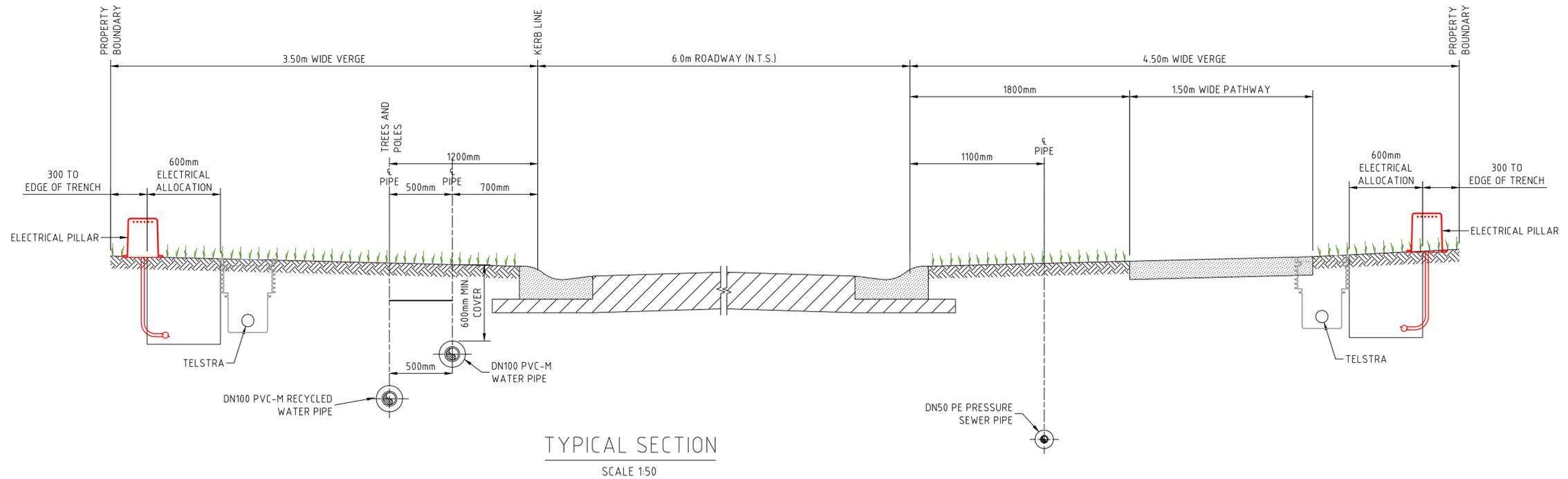


CONSTRUCTION ISSUE

PLAN  
SCALE 1:250

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239078(3.10)-WAT-401(1)



**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: *[Signature]* Date: 16/02/2023  
Name: Malcolm Harvey Position: Registered Surveyor



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

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

**JOHNSON PROPERTY GROUP**

PROPERTY DESCRIPTION  
PRECINCT 3 - WATAGAN PARK  
PROPOSED SUBDIVISION - STAGE 3.10  
LOT 219 DP 755218, LOT 3 DP 1222727  
ALTON ROAD, COORANBONG  
DA 1833/2015/A & DA 1834/2015

PROJECT	PLAN TITLE
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	TYPICAL PIPEWORK TRENCHING DETAILS

SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
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100mm AT FULL SIZE  
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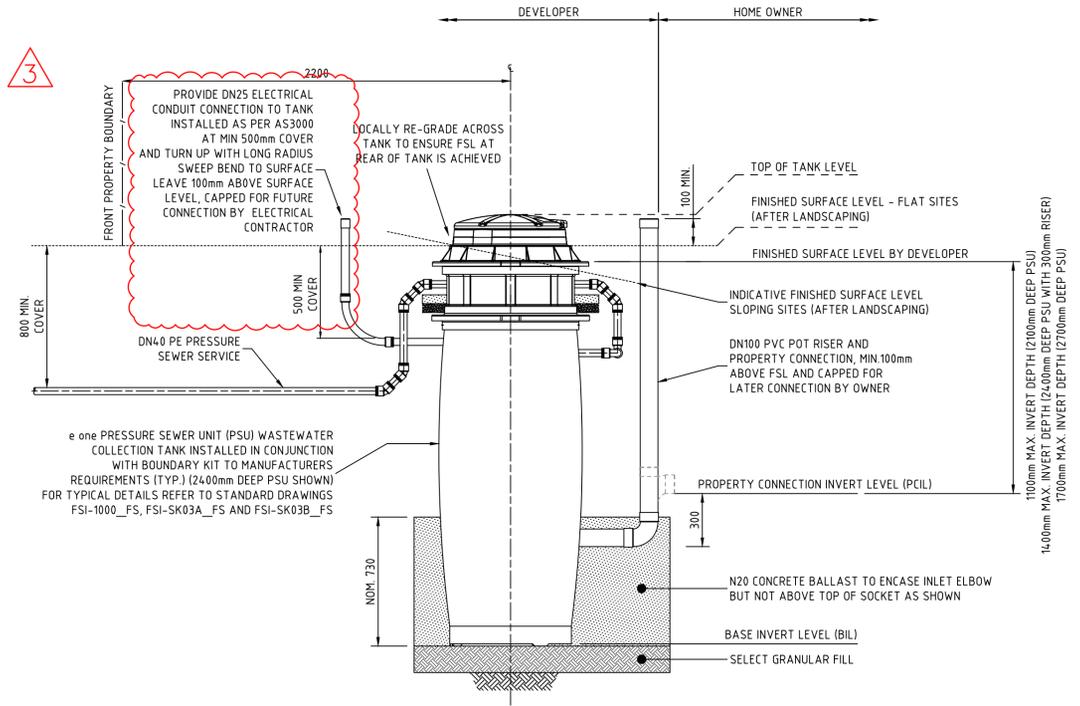
WASTEWATER COLLECTION TANK DETAILS

LOT NUMBER	TOP OF TANK	TANK FSL	BASE IL	PROPERTY CONNECTION IL	TANK HEIGHT	TANK LOCATION	EASTING	NORTHING
1327	23.64	23.51	21.51	22.41	2100	FRONT	355355.69	6341325.69
1328	24.08	23.95	21.95	22.85	2100	FRONT BATTER	355370.79	6341330.00
1001	24.89	24.76	22.76	23.66	2100	FRONT	355373.15	6341330.67
1002	26.45	26.32	24.02	24.92	2400	FRONT	355406.70	6341340.26
1003	26.85	26.72	24.72	25.62	2100	FRONT	355409.20	6341340.98
1004	28.23	28.10	26.10	27.00	2100	FRONT	355436.89	6341348.89
1005	28.59	28.46	26.46	27.36	2100	FRONT	355439.39	6341349.61
1006	30.06	29.93	27.93	28.83	2100	FRONT BATTER	355467.83	6341373.65
1007	30.04	29.91	27.91	28.81	2100	FRONT BATTER	355467.28	6341375.57
1008	31.95	31.82	29.82	30.72	2100	FRONT	355515.17	6341371.26
1009	33.61	33.48	31.48	32.38	2100	FRONT	355517.67	6341371.97
1010	34.23	34.10	32.10	33.00	2100	FRONT	355546.72	6341380.28
1011	35.88	35.75	33.75	34.65	2100	FRONT BATTER	355549.21	6341380.99
1012	36.45	36.32	34.32	35.22	2100	FRONT	355582.77	6341390.58
1013	38.10	37.97	35.97	36.87	2100	FRONT BATTER	355585.27	6341391.30
1014	38.47	38.34	36.34	37.24	2100	FRONT	355614.32	6341399.60
1015	40.08	39.95	37.95	38.85	2100	FRONT BATTER	355616.82	6341400.31
1016	40.45	40.32	38.32	39.22	2100	FRONT	355648.12	6341409.26
1017					2400	FRONT		
1018					2400	FRONT		
1019	39.61	39.48	37.18	38.08	2400	FRONT	355632.05	6341385.53
1020	38.28	38.15	36.15	37.05	2100	REAR	355636.91	6341359.04
1021	37.53	37.40	35.10	36.00	2400	FRONT	355598.24	6341375.87
1022	36.39	36.26	33.96	34.86	2400	FRONT	355580.21	6341370.71
1023					2400	FRONT		
1024					2400	FRONT		
1025	30.43	30.30	28.00	28.90	2400	FRONT	355485.02	6341343.51
1026	29.36	29.23	27.23	28.13	2100	REAR	355489.89	6341317.03
1027	28.55	28.42	26.12	27.02	2400	FRONT	355451.37	6341333.89
1028	27.31	27.18	25.18	26.08	2100	REAR	355456.24	6341307.41
1029	26.75	26.62	24.02	24.92	2700	FRONT	355422.53	6341325.65
1030	25.44	25.31	23.31	24.21	2100	REAR	355427.39	6341299.47
1031	24.90	24.77	22.17	23.07	2700	FRONT	355388.87	6341316.03
1032					2700	FRONT		

WASTEWATER COLLECTION TANK COUNT

TANK SIZE	NUMBER OF
2100	21
2400	6
2700	2

LOT	EASTING	NORTHING	TOP OF LID R.L.
1327	355355.791	6341325.756	23.74
1328	355370.706	6341330.09	24.556
1001	355373.362	6341330.641	25.023
1002	355406.417	6341340.39	26.537
1003	355409.341	6341341.105	27.003
1004	355436.908	6341349.02	28.298
1005	355439.341	6341349.524	28.75
1006	355467.857	6341373.76	30.114
1007	355467.192	6341375.518	30.161
1008	355515.025	6341371.381	32.808
1009	355517.858	6341372.061	33.222
1010	355546.637	6341380.237	34.954
1011	355549.223	6341381.025	35.37
1012	355582.612	6341390.686	37.275
1013	355585.183	6341391.212	37.66
1014	355614.178	6341399.443	39.169
1015	355617.205	6341400.613	39.552
1016	355648.214	6341409.26	41.188
1017			
1018			
1019	355632.276	6341385.632	39.898
1020	355636.73	6341358.97	38.415
1021	355598.332	6341375.888	37.649
1022	355580.405	6341370.522	36.571
1023			
1024			
1025	355485.275	6341343.361	30.647
1026	355490.124	6341316.688	29.506
1027	355451.622	6341334.134	28.648
1028	355456.262	6341307.25	27.48
1029	355422.729	6341325.818	26.911
1030	355427.326	6341299.175	25.607
1031	355388.935	6341315.994	25.034



PRESSURE SEWER SERVICE CONNECTION  
TYPICAL SECTIONAL ELEVATION  
SCALE 1:20

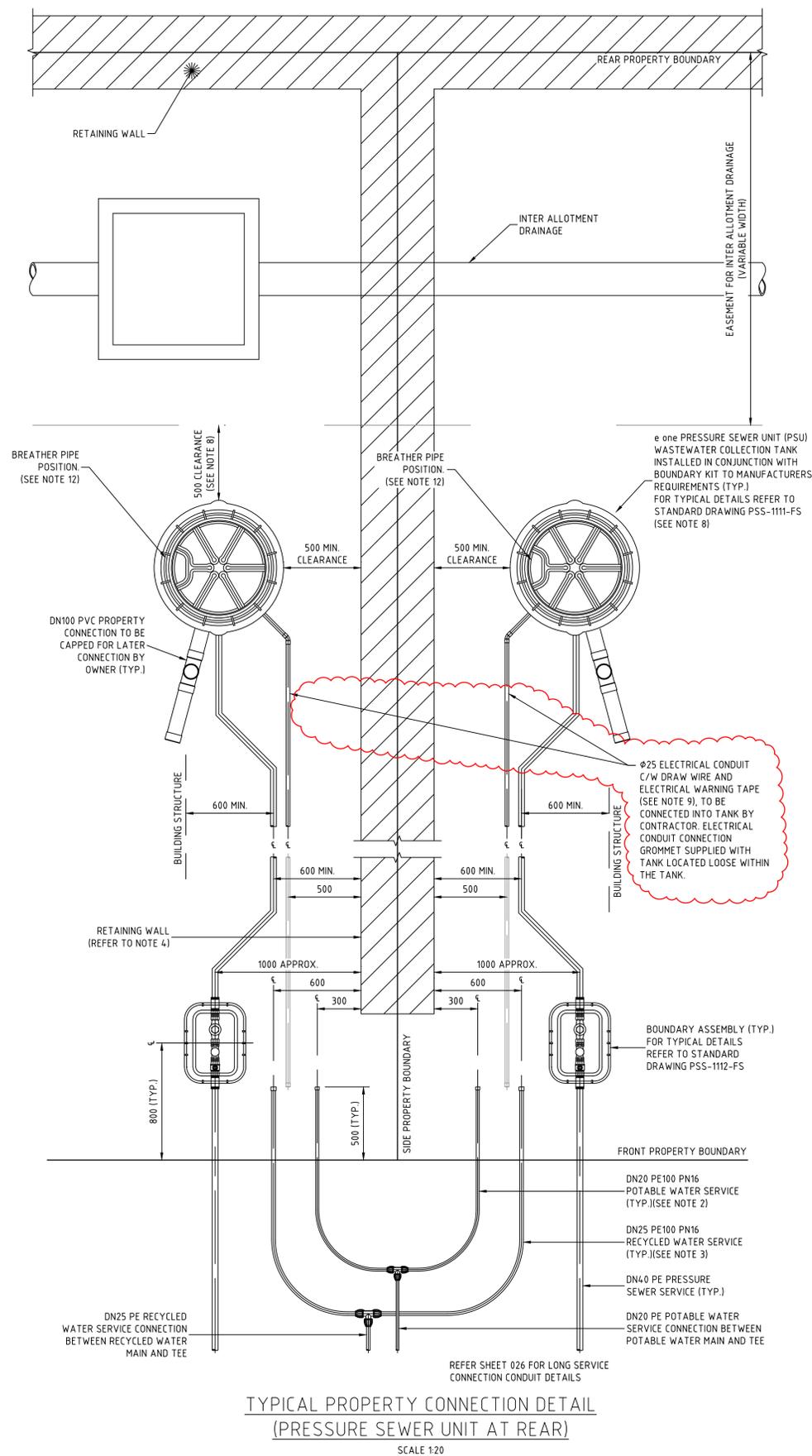
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Signed: *M. Harvey* Date: 16/02/2023  
Name: Malcolm Harvey Position: Registered Surveyor



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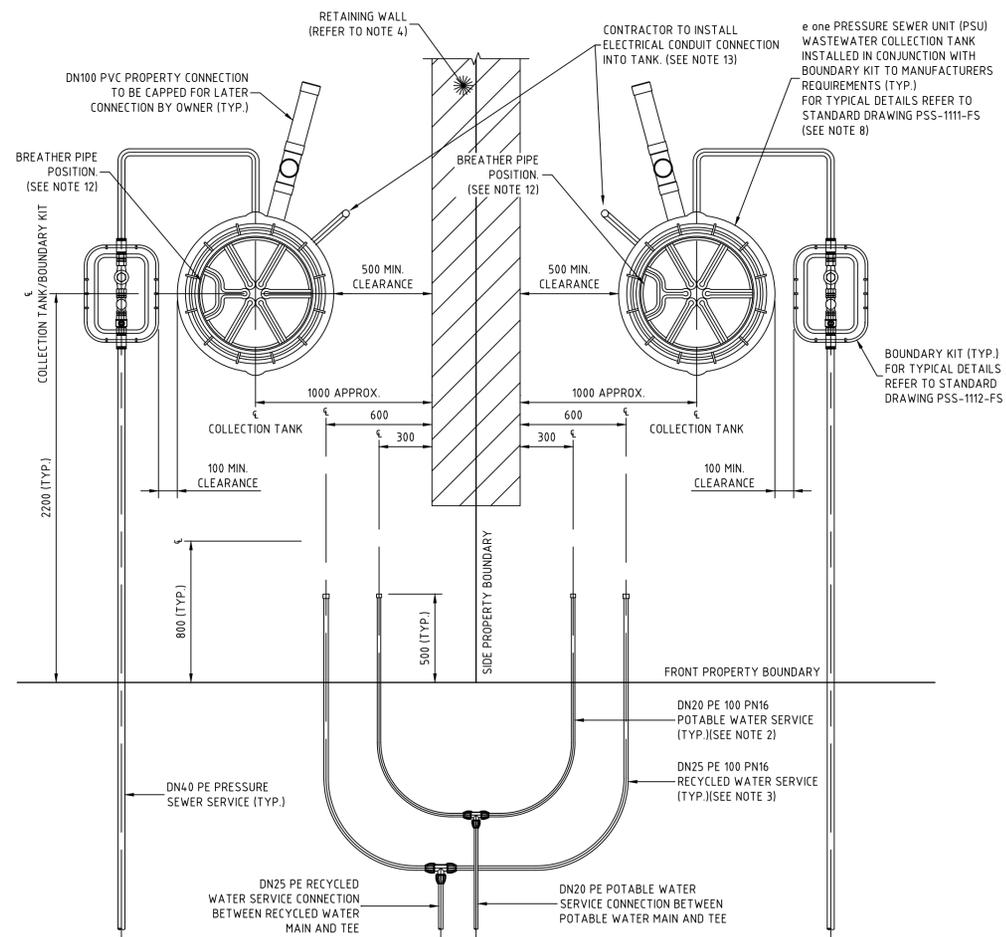
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TYPICAL PROPERTY CONNECTION DETAIL  
(PRESSURE SEWER UNIT AT REAR)

SCALE 1:20



TYPICAL PROPERTY CONNECTION DETAIL

SCALE 1:20



NOTES:

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

**WORK-AS-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: 16/02/2023  
Name: Malcolm Harvey Position: Registered Surveyor



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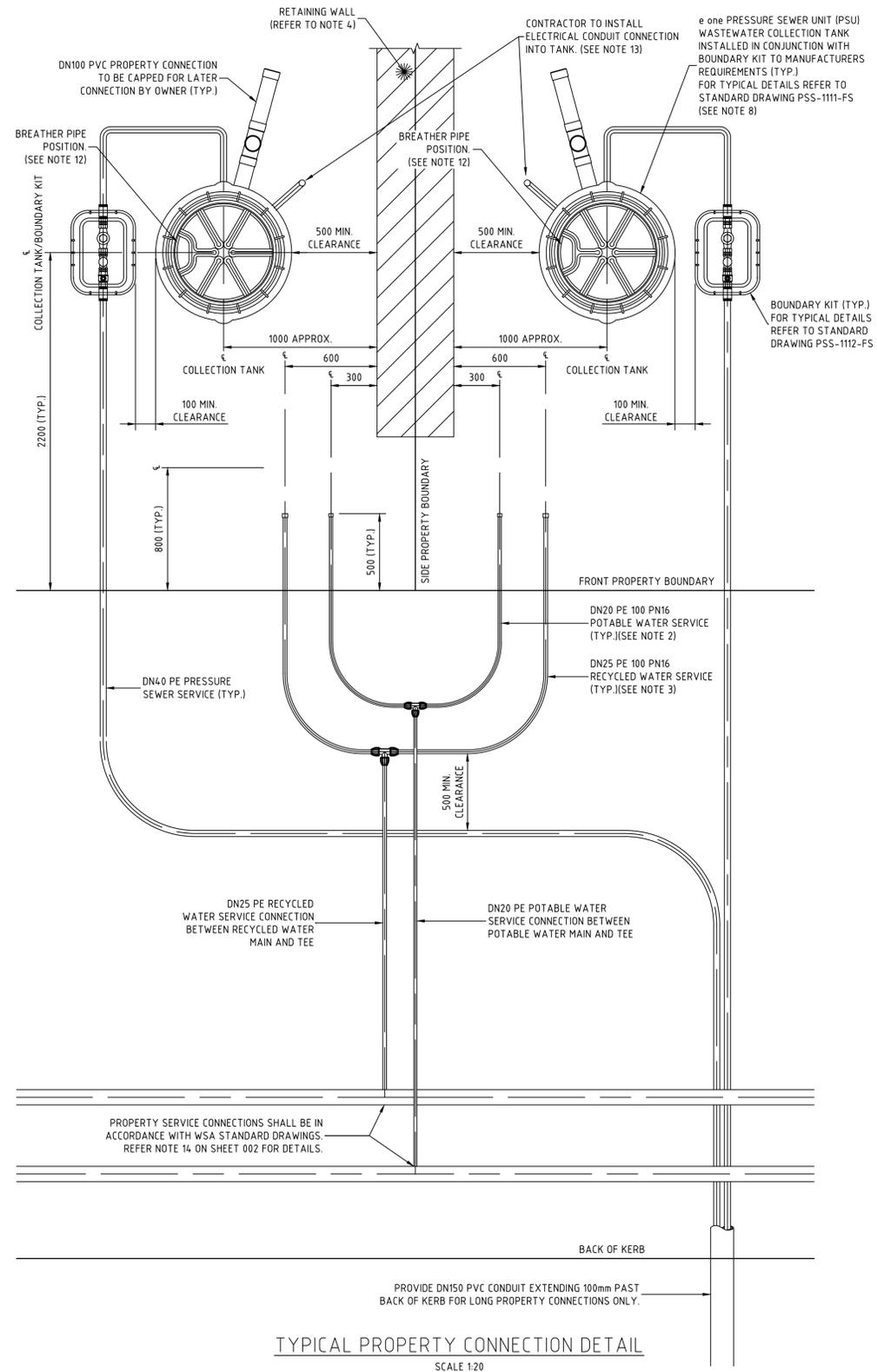
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**adw Johnson**  
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www.adwjohnson.com.au  
ABN 62 129 445 398

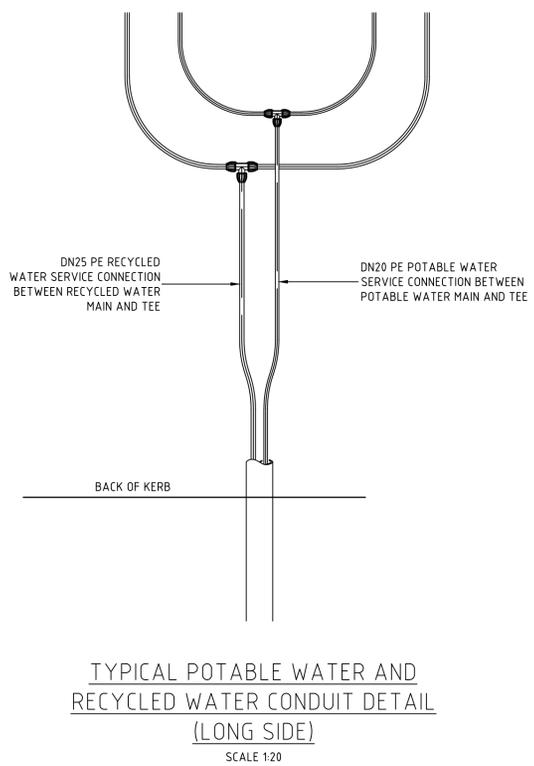
**JOHNSON PROPERTY GROUP**

CLIENT  
PROPERTY DESCRIPTION  
PRECINCT 3 - WATAGAN PARK  
PROPOSED SUBDIVISION - STAGE 3.10  
LOT 219 DP 755218, LOT 3 DP 122727  
ALTON ROAD, COORANBONG  
DA 1833/2015/A & DA 1834/2015

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	TYPICAL PROPERTY CONNECTION - SHEET 1		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(3.10)	WAT	403	3



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

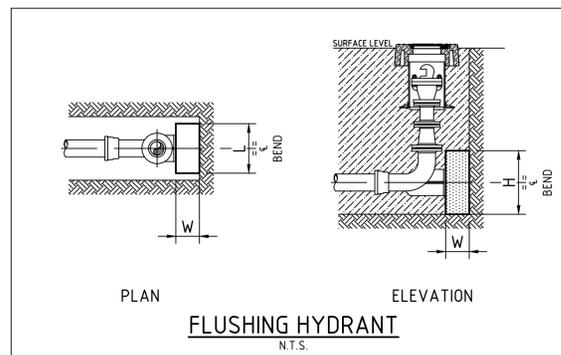
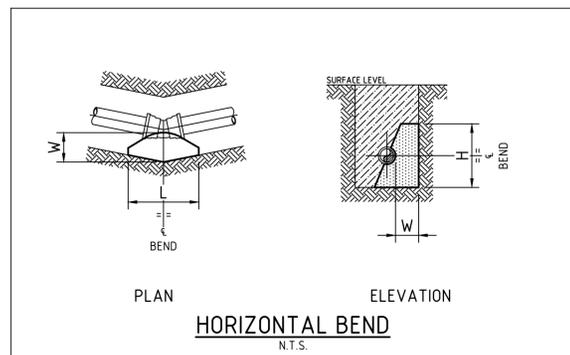
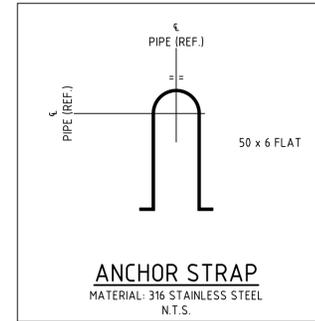
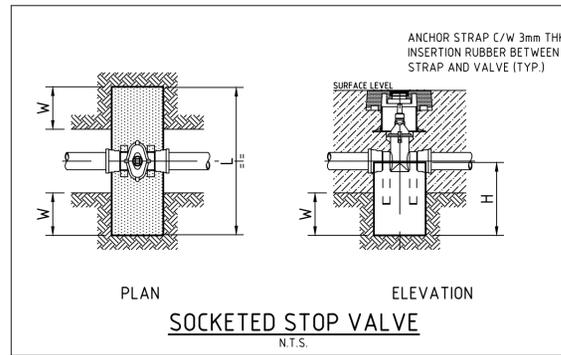
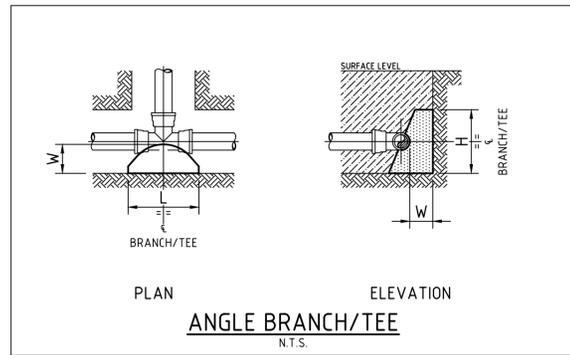


**WORK-AS-EXECUTED**  
I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.  
Signed: *M. Harvey* Date: 16/02/2023  
Name: Malcolm Harvey Position: Registered Surveyor



**CONSTRUCTION ISSUE**

<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT</th> <th>DRAWN</th> <th>CHECK</th> <th>DESIGN</th> <th>VERIFY</th> <th>SCALES</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>07.10.2021</td> <td>INITIAL ISSUE</td> <td>T.S.</td> <td>C.B.</td> <td>T.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>0</td> <td>10.12.2021</td> <td>FOR CONSTRUCTION</td> <td>T.S.</td> <td>MP.C.</td> <td>T.S.</td> <td>MP.C.</td> <td></td> </tr> <tr> <td>1</td> <td>18.01.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>MP.C.</td> <td>T.S.</td> <td>MP.C.</td> <td></td> </tr> <tr> <td>2</td> <td>24.05.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>MP.C.</td> <td>T.S.</td> <td>MP.C.</td> <td></td> </tr> <tr> <td>3</td> <td>21.07.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>MP.C.</td> <td>T.S.</td> <td>MP.C.</td> <td></td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	07.10.2021	INITIAL ISSUE	T.S.	C.B.	T.S.	C.B.		0	10.12.2021	FOR CONSTRUCTION	T.S.	MP.C.	T.S.	MP.C.		1	18.01.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.		2	24.05.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.		3	21.07.2022	FOR CONSTRUCTION	G.S.	MP.C.	T.S.	MP.C.		<p><b>adw Johnson</b></p> <p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	<p>CLIENT</p> <p><b>JOHNSON PROPERTY GROUP</b></p>	<p>PROPERTY DESCRIPTION</p> <p>PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.10 LOT 219 DP 755218, LOT 3 DP 1222727 ALTON ROAD, COORANBONG DA 1833/2015A &amp; DA 1834/2015</p>	<p>PROJECT</p> <p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p> <p>PLAN TITLE</p> <p>TYPICAL PROPERTY CONNECTION - SHEET 2</p>	<table border="1"> <tr> <td>SURVEYED</td> <td>DATUM</td> <td>PROJECT No.</td> <td>DISCIPLINE</td> <td>NUMBER</td> <td>REV.</td> </tr> <tr> <td>ADW Johnson</td> <td>GDA94 M.G.A. ZONE 56 A.H.D.</td> <td>239078(3.10)</td> <td>WAT</td> <td>404</td> <td>3</td> </tr> </table>	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.	ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	239078(3.10)	WAT	404	3
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TYPE	FITTING	Soil AHBP (Kpa)	Design STP (Kpa)	Thrust	TA (m2)	Length (L)	Height (H)	Width (W)
1	DN100 x DN100 EQUAL TEE	100	1500	18.00	0.18	0.45	0.40	0.30
2	DN100 SOCKETED STOP VALVE	100	1500	18.00	0.18	1.05	0.44	0.30
3	DN100 FLUSHING HYDRANT	100	1500	18.00	0.18	0.45	0.40	0.30

**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 (IN). MAXIMUM ENCASEMENT TO BE 180°.
5. CONCRETE FOR THE THRUST BLOCKS TO BE GRADE S25 USING CEMENT TYPE "SR" TO AS3972. CONCRETE TO BE MECHANICALLY VIBRATED.
6. CONCRETE THRUST BLOCKS ARE TO BE CURED FOR A MINIMUM OF 7 DAYS BEFORE BEING SUBJECTED TO ANY THRUST LOAD.
7. REFER TO WAT-1205-V FOR GENERAL FITTING THRUST BLOCK ARRANGEMENTS.
8. REFER TO WAT-1207-V FOR GENERAL VALVE AND VERTICAL BEND THRUST BLOCK ARRANGEMENTS.

**WORK-AS-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: 16/02/2023  
Name: Malcolm Harvey Position: Registered Surveyor



**CONSTRUCTION ISSUE**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	07.10.2021	INITIAL ISSUE	T.S.	C.B.	T.S.	C.B.		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.10 LOT 219 DP 755218, LOT 3 DP 1222727 ALTON ROAD, COORANBONG DA 1833/2015/A & DA 1834/2015	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	THRUST BLOCK DETAILS	ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	239078(3.10)	WAT	405	3