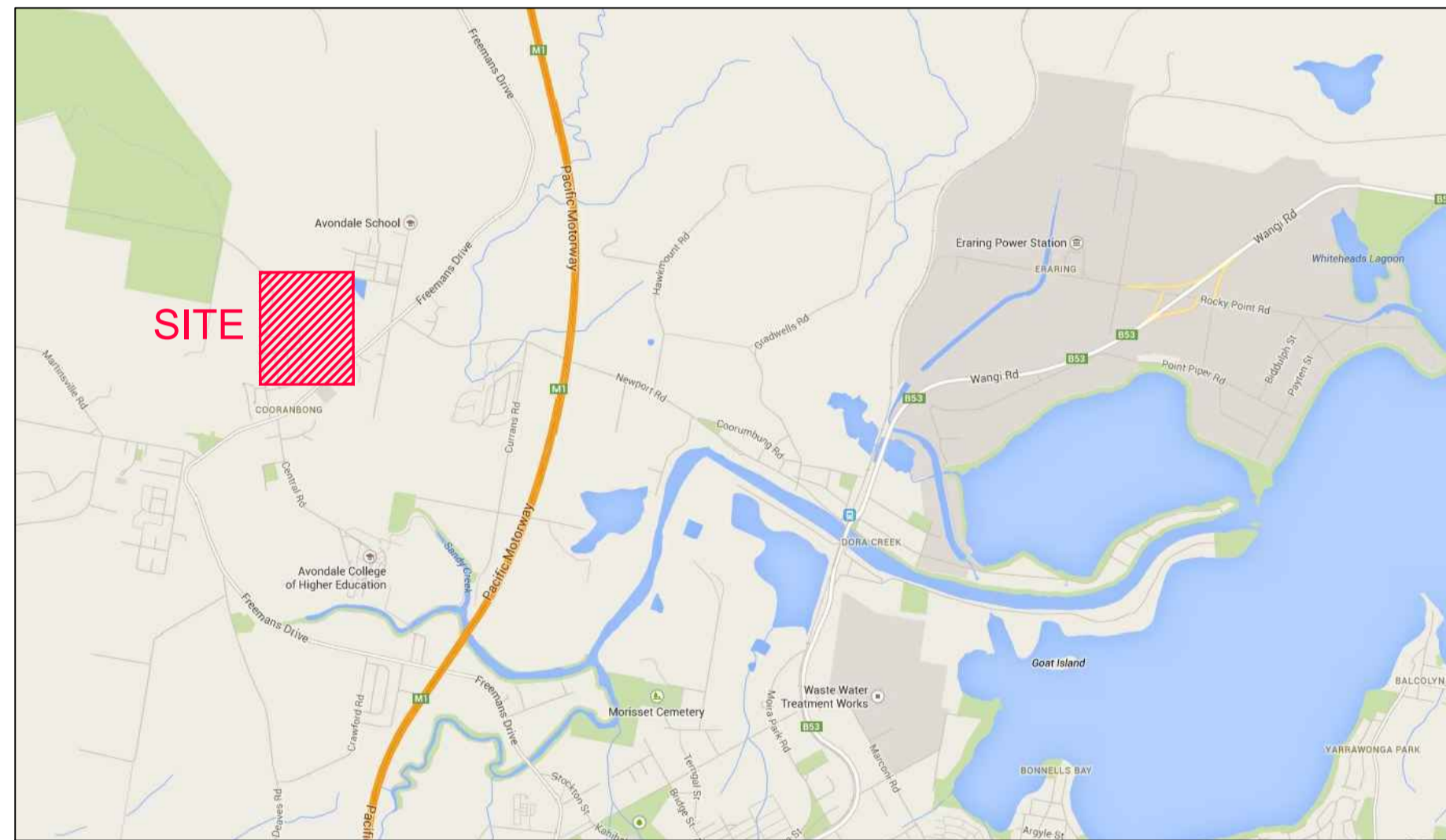
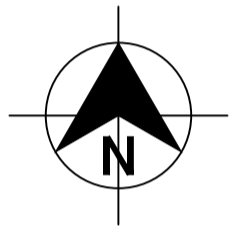


# PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.9 LOT 219 DP 755218, LOT 3 DP 1222727 ALTON ROAD, COORANBONG DA 1833/2015/A & DA 1834/2015

239078(3.9)-WAT-001



LOCALITY SKETCH  
NOT TO SCALE

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239078(3.9)-WAT-405	SEWER SERVICE CONNECTION DETAILS
239078(3.9)-WAT-406	THRUST BLOCK DETAILS

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.

CONSTRUCTION ISSUE

<b>REV.</b>	<b>DATE</b>	<b>AMENDMENT</b>	<b>DRAWN</b>	<b>CHECK</b>	<b>DESIGN</b>	<b>VERIFY</b>	<b>SCALES</b>		<b>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>PROPERTY DESCRIPTION</b>	<b>PROJECT</b> POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION					
A	09.07.2021	INITIAL ISSUE	T.S.	R.J.	T.S.	L.G.					PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.9 LOT 219 DP 755218, LOT 3 DP 1222727 ALTON ROAD, COORANBONG DA 1833/2015/A & DA 1834/2015	<b>PLAN TITLE</b> TITLE SHEET, DRAWING INDEX & LOCALITY PLAN					
B	12.07.2021	CLIENT COMMENTS	I.B.	R.J.	T.S.	L.G.					SURVEYED ADW Johnson	DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. <b>239078(3.9)</b>	DISCIPLINE - WAT	NUMBER - 001	REV. 1	
C	16.09.2021	ALTOGETHER COMMENTS	T.S.	M.C.	T.S.	L.G.											
O	17.09.2021	CONSTRUCTION ISSUE	T.S.	MP.C.	T.S.	MP.C.											
1	12.10.2021	CONSTRUCTION ISSUE	G.S.	MP.C.	T.S.	MP.C.											

**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 CONTRACTOR 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 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, POTABLE WATER 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 ø25mm INSTRUMENTATION CONDUIT (ORANGE) AND 1 x ø25mm ELECTRICAL CONDUIT (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 CONTRACTOR SHALL PROVIDE COORANBONG WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE ALTOGETHER REPRESENTATIVE.
- UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION 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).
- 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 CONTRACTOR 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 CONTRACTOR 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 POTABLE WATER AND RECYCLED WATER MAINS. MINIMUM PIPE COVER SHALL BE 600mm IN FOOTWAYS (TYPE B EMBEDMENT: WAT-1202-V) AND 800mm IN ROADWAYS (TYPE L EMBEDMENT: WAT-1204-V). MAXIMUM PIPE COVER SHALL GENERALLY BE 1500mm. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL RECYCLED WATER MAINS AND PRESSURE SEWER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
- ALL POTABLE WATERMAINS TO BE BLUE PVC-M (PN16). ALL RECYCLED WATERMAINS SHALL BE LILAC PVC-M (PN16). DIFFERENTIATION OF POTABLE AND RECYCLED WATER SYSTEMS SHALL BE AS PER TABLE 4.1 WSA03-2011 WITH BOTH SERVICES BEING CLASSIFIED AS 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 CONNECTIONS SHALL BE FLUSHED AND LOCKED (BY THE ALTOGETHER REPRESENTATIVE) FOLLOWING SUCCESSFUL PRESSURE TESTING.
- SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- ALL MAINS SHALL BE PRESSURE TESTED TO 1500kPa IN ACCORDANCE WITH CLAUSE 19.4 OF WSA03-2011 (SYDNEY WATER EDITION 2014).
- ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- WATER QUALITY TESTING SHALL BE IN ACCORDANCE WITH WSA 03-2011-3.1 (SYDNEY WATER EDITION-2014. (CLAUSE 19.7).
- THE CONTRACTOR SHALL PROVIDE COORANBONG WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE ALTOGETHER REPRESENTATIVE.
- UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION 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/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	60	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).

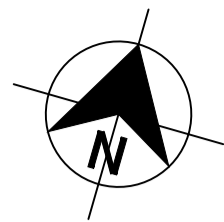
SHOULD THE RECOMMENDED CLEARANCES NOT BE ACHIEVED, NOTIFICATION SHALL BE CONVEYED TO THE ALTOGETHER REPRESENTATIVE IN WRITING FOR REVIEW & ACCEPTANCE PRIOR TO INSTALLATION.

**CONSTRUCTION ISSUE**

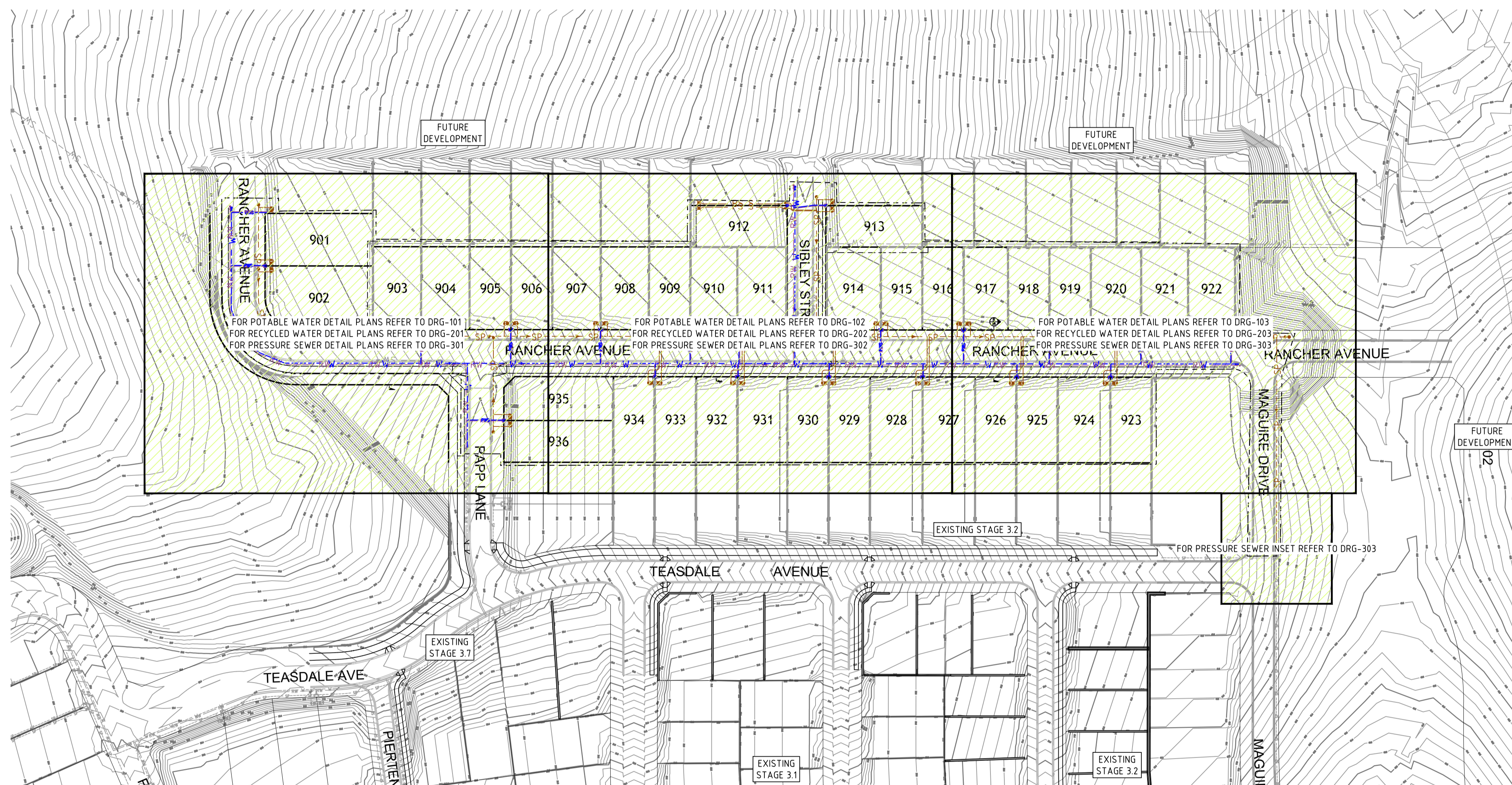
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REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	09.07.2021	INITIAL ISSUE	T.S.	R.J.	T.S.	L.G.		Hunter Office	PRECINCT 3 - WATAGAN PARK	POTABLE WATER, RECYCLED WATER AND		239078(3.9)	WAT	002	1
B	12.07.2021	CLIENT COMMENTS	L.B.	R.J.	T.S.	L.G.		Unit 7/335 Hillsborough Rd	PROPOSED SUBDIVISION - STAGE 3.9	PRESSURE SEWER RETICULATION					
C	16.09.2021	ALTOGETHER COMMENTS	T.S.	M.C.	T.S.	L.G.		Warners Bay N.S.W. 2282	LOT 219 DP 755218, LOT 3 DP 1222727						
O	17.09.2021	CONSTRUCTION ISSUE	T.S.	MP.C.	T.S.	MP.C.		Phone: (02) 4978 5100	ALTON ROAD, COORANBONG	GENERAL NOTES					
1	12.10.2021	CONSTRUCTION ISSUE	G.S.	MP.C.	T.S.	MP.C.		Fax: (02) 4978 5199	DA 1833/2015/A & DA 1834/2015						
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239078(3.9)-WAT-003(1)



PLAN  
SCALE 1:1000

**CONSTRUCTION ISSUE**

100mm AT FULL SIZE  
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REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	09.07.2021	INITIAL ISSUE	T.S.	R.J.	T.S.	L.G.	
B	12.07.2021	CLIENT COMMENTS	L.B.	R.J.	T.S.	L.G.	
C	16.09.2021	ALTOGETHER COMMENTS	T.S.	M.C.	T.S.	L.G.	
0	17.09.2021	CONSTRUCTION ISSUE	T.S.	MP.C.	T.S.	MP.C.	
1	12.10.2021	CONSTRUCTION ISSUE	G.S.	MP.C.	T.S.	MP.C.	

DRAWN	CHECK	DESIGN	VERIFY
T.S.	R.J.	T.S.	L.G.
L.B.	R.J.	T.S.	L.G.
T.S.	M.C.	T.S.	L.G.
T.S.	MP.C.	T.S.	MP.C.
G.S.	MP.C.	T.S.	MP.C.

DRAWN	CHECK	DESIGN	VERIFY	SCALES
T.S.	R.J.	T.S.	L.G.	
L.B.	R.J.	T.S.	L.G.	
T.S.	M.C.	T.S.	L.G.	
T.S.	MP.C.	T.S.	MP.C.	
G.S.	MP.C.	T.S.	MP.C.	



**Hunter Office**  
 Unit 7/335 Hillsborough Rd  
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 email: hunter@adwjohnson.com.au  
 www.adwjohnson.com.au  
 ABN 62 129 445 398



CLIENT  
 PROPERTY DESCRIPTION  
 PRECINCT 3 - WATAGAN PARK  
 PROPOSED SUBDIVISION - STAGE 3.9  
 LOT 219 DP 755218, LOT 3 DP 1222727  
 ALTON ROAD, COORANBONG  
 DA 1833/2015/A & DA 1834/2015

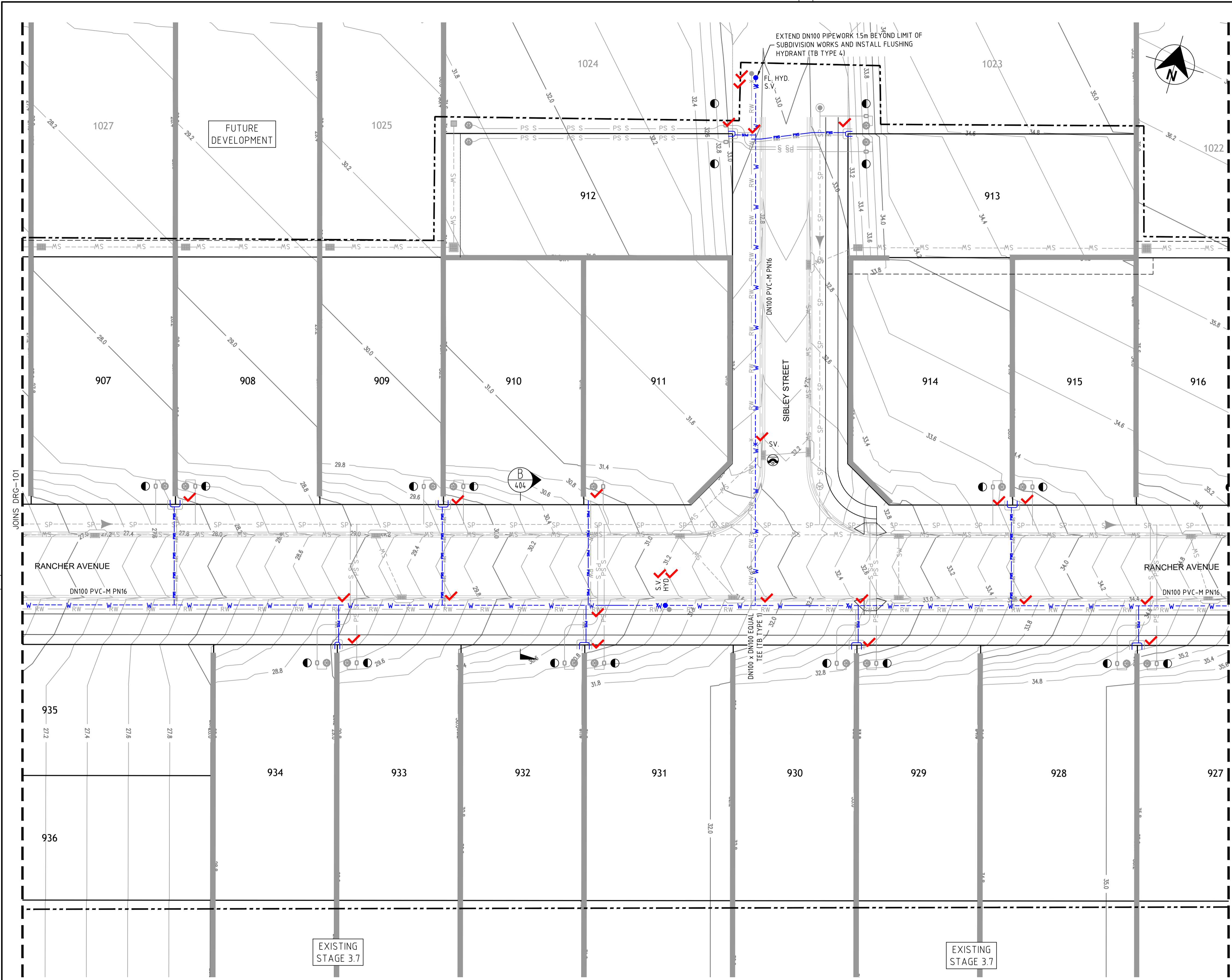
PROJECT	PLAN TITLE
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	OVERALL SITE PLAN

SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	239078(3.9)	- WAT	- 003	1



239078(3.9)-WAT-103(1)

100mm AT FULL SIZE  
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PLAN  
SCALE 1:250

**LEGEND**

- PVC-M POTABLE WATER RETICULATION
- POTABLE WATER PROPERTY SERVICE
- PVC-M RECYCLED WATER RETICULATION
- RECYCLED WATER PROPERTY SERVICE
- PE PRESSURE SEWER RETICULATION
- DN200 PVC-M POTABLE WATER TRANSFER MAIN (EXISTING)
- DN250 PVC-M RECYCLED WATER TRANSFER MAIN (EXISTING)
- PE PRESSURE SEWER MAIN (EXISTING)
- DN250 WATER MAIN CONNECTION WITH HUNTER WATER (FUTURE)
- EXISTING DN250 WATER MAIN (HUNTER WATER)
- UNDERGROUND POWER
- STOP VALVE
- HYDRANT
- FLUSHING HYDRANT
- 22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
- HIGH VOLTAGE ELECTRICAL EASEMENT (APPROX. LOCATION)
- PROPERTY SERVICE CONNECTION
- EXISTING PROPERTY SERVICE CONNECTION
- LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- LIMIT OF SUBDIVISION WORKS

**POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
TOTAL 40 CONNECTIONS

- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - 0 x SHORT SIDE
  - 2 x LONG SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
  - 7 x SHORT SIDE
  - 12 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	501

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 101 TO 103.
  2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-403 TO 404.

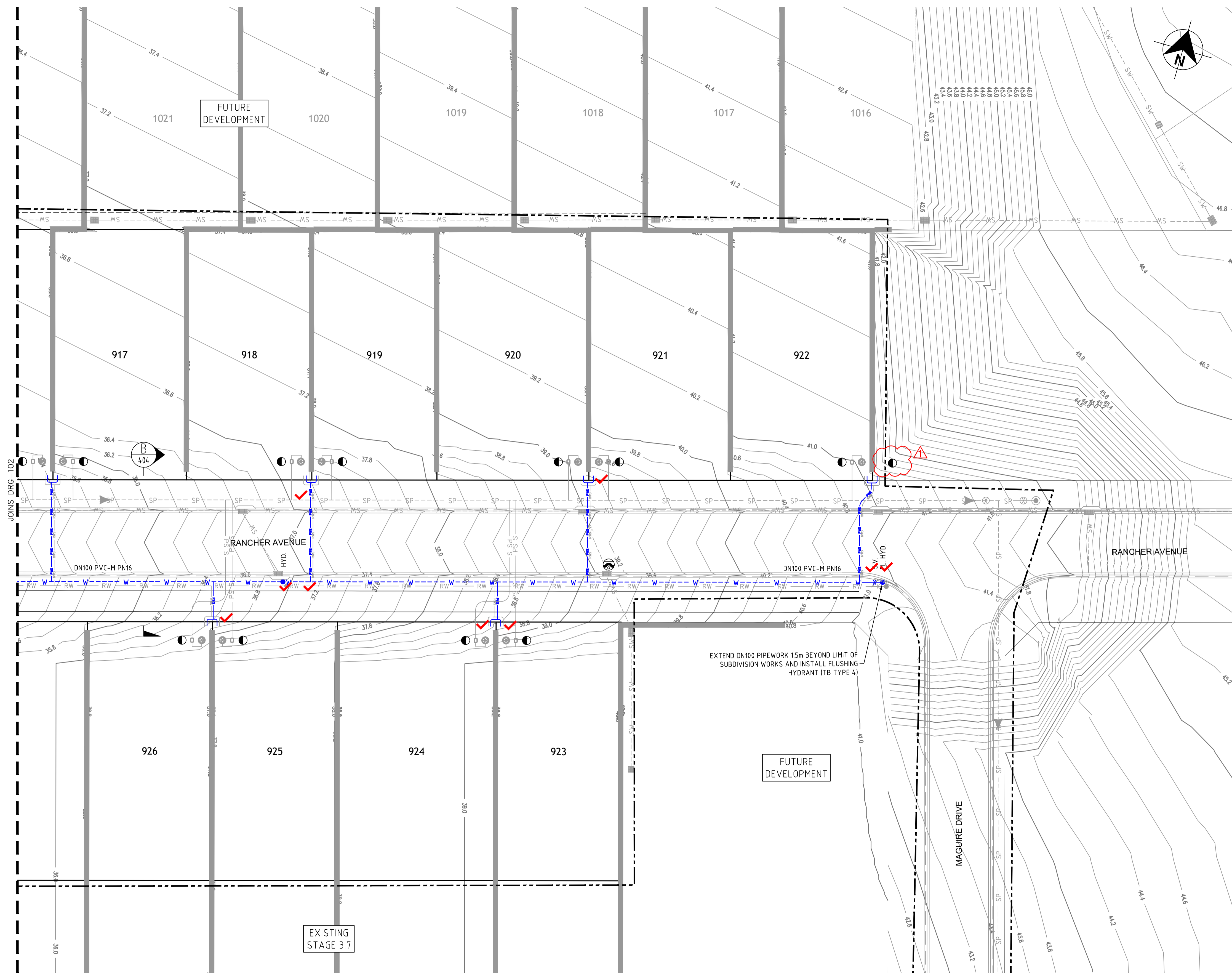
CONSTRUCTION ISSUE

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239078(3.9)-WAT-103(1)

100mm AT FULL SIZE  
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- LEGEND**
- W --- W --- W --- PVC-M POTABLE WATER RETICULATION
  - PWS --- PWS --- PWS --- POTABLE WATER PROPERTY SERVICE
  - RW --- RW --- RW --- PVC-M RECYCLED WATER RETICULATION
  - RWS --- RWS --- RWS --- RECYCLED WATER PROPERTY SERVICE
  - SP --- SP --- SP --- PE PRESSURE SEWER RETICULATION
  - PWTM --- PWTM --- PWTM --- DN200 PVC-M POTABLE WATER TRANSFER MAIN (EXISTING)
  - RWTM --- RWTM --- RWTM --- DN250 PVC-M RECYCLED WATER TRANSFER MAIN (EXISTING)
  - PSM --- PSM --- PSM --- PE PRESSURE SEWER MAIN (EXISTING)
  - W --- W --- W --- DN250 WATER MAIN CONNECTION WITH HUNTER WATER (FUTURE)
  - W --- W --- W --- EXISTING DN250 WATER MAIN (HUNTER WATER)
  - E --- E --- E --- UNDERGROUND POWER
  - SV. STOP VALVE
  - HYD. HYDRANT
  - FL HYD. FLUSHING HYDRANT
  - 22.5° 22.5° HORIZONTAL BEND - REFER TO THRUST BLOCK TABLE
  - HIGH VOLTAGE ELECTRICAL EASEMENT (APPROX. LOCATION)
  - PROPERTY SERVICE CONNECTION
  - EXISTING PROPERTY SERVICE CONNECTION
  - LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - LIMIT OF SUBDIVISION WORKS

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 40 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 0 x SHORT SIDE
    - 2 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 7 x SHORT SIDE
    - 12 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	501

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 101 TO 103.
  2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-403 TO 404.

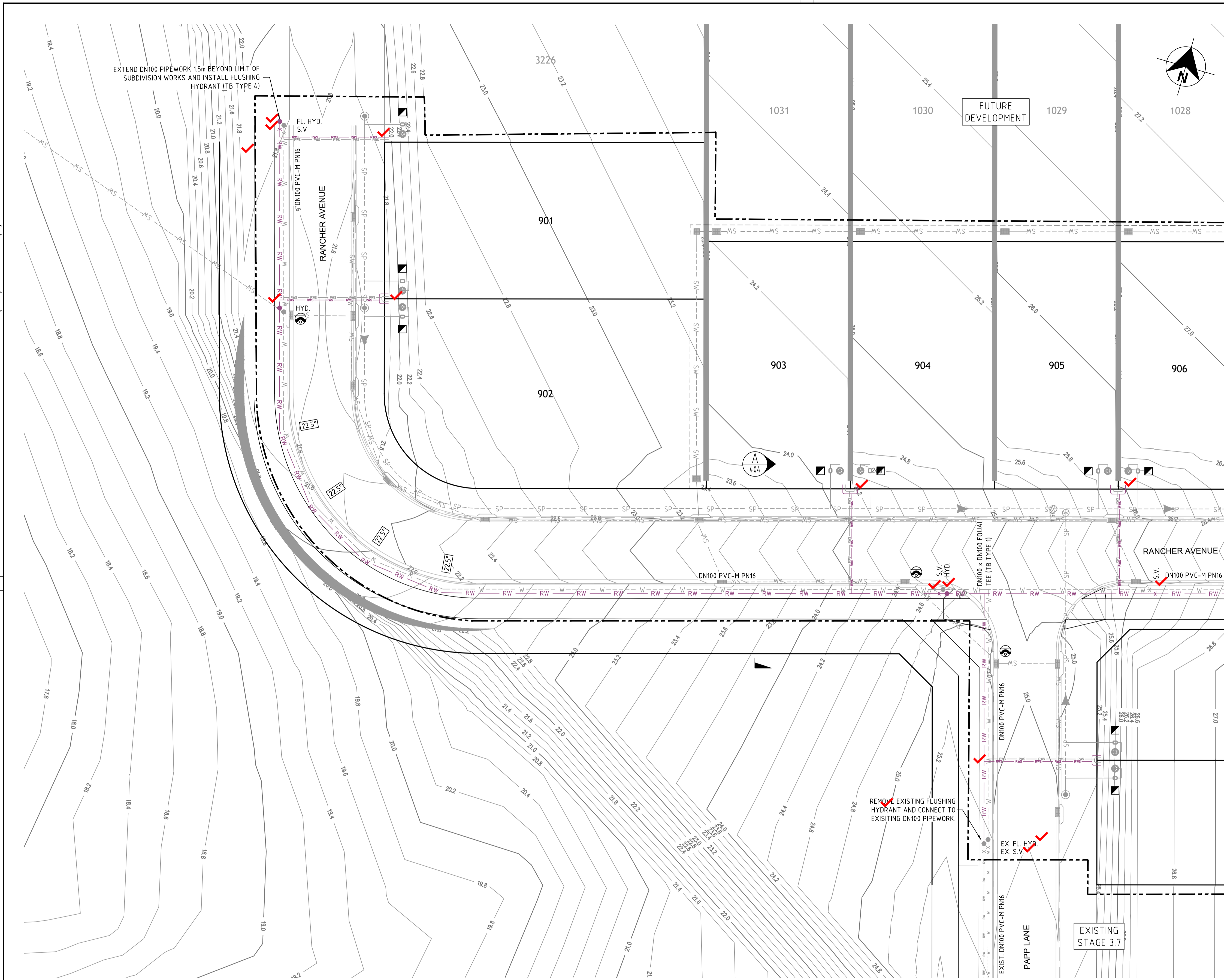
PLAN  
SCALE 1:250

CONSTRUCTION ISSUE

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>REV.</th><th>DATE</th><th>AMENDMENT</th></tr> <tr><td>A</td><td>09.07.2021</td><td>INITIAL ISSUE</td></tr> <tr><td>B</td><td>12.07.2021</td><td>CLIENT COMMENTS</td></tr> <tr><td>C</td><td>16.09.2021</td><td>ALTOGETHER COMMENTS</td></tr> <tr><td>O</td><td>17.09.2021</td><td>CONSTRUCTION ISSUE</td></tr> <tr><td>1</td><td>12.10.2021</td><td>CONSTRUCTION ISSUE</td></tr> </table>	REV.	DATE	AMENDMENT	A	09.07.2021	INITIAL ISSUE	B	12.07.2021	CLIENT COMMENTS	C	16.09.2021	ALTOGETHER COMMENTS	O	17.09.2021	CONSTRUCTION ISSUE	1	12.10.2021	CONSTRUCTION ISSUE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>DRAWN</th><th>CHECK</th><th>DESIGN</th><th>VERIFY</th></tr> <tr><td>T.S.</td><td>R.J.</td><td>T.S.</td><td>L.G.</td></tr> <tr><td>I.B.</td><td>R.J.</td><td>T.S.</td><td>L.G.</td></tr> <tr><td>T.S.</td><td>M.C.</td><td>T.S.</td><td>L.G.</td></tr> <tr><td>T.S.</td><td>MP.C.</td><td>T.S.</td><td>MP.C.</td></tr> <tr><td>G.S.</td><td>MP.C.</td><td>T.S.</td><td>MP.C.</td></tr> </table>	DRAWN	CHECK	DESIGN	VERIFY	T.S.	R.J.	T.S.	L.G.	I.B.	R.J.	T.S.	L.G.	T.S.	M.C.	T.S.	L.G.	T.S.	MP.C.	T.S.	MP.C.	G.S.	MP.C.	T.S.	MP.C.	<p>SCALES</p> <p>A1 / A3 1:250 / 1:500</p>	<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>CLIENT</p> <p><b>JOHNSON PROPERTY GROUP</b></p>	<p>PROPERTY DESCRIPTION</p> <p>PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.9 LOT 219 DP 755218, LOT 3 DP 1222727 ALTON ROAD, COORANBONG DA 1833/2015/A &amp; DA 1834/2015</p>	<p>PROJECT</p> <p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p> <p>PLAN TITLE</p> <p>POTABLE WATER DETAIL PLAN: SHEET 03</p>
REV.	DATE	AMENDMENT																																														
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DESIGN FILE N:\239078\239078(3)\DWG's\Engineering\Water & Sewer		ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE		PROJECT No. <b>239078(3.9)</b> - DISCIPLINE <b>WAT</b> - NUMBER <b>103</b> - REV. <b>1</b>		SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.																																								

239078(3.9)-WAT-203(1)

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PLAN  
SCALE 1:250



- LEGEND**
- RW — RW — RW — PVC-M RECYCLED WATER RETICULATION
  - RWS — RWS — RWS — RECYCLED WATER PROPERTY SERVICE
  - W — W — W — PVC-M POTABLE WATER RETICULATION
  - PWS — PWS — PWS — POTABLE WATER PROPERTY SERVICE
  - SP — SP — SP — PE PRESSURE SEWER RETICULATION
  - PWTM — PWTM — PWTM — DN200 PVC-M POTABLE WATER TRANSFER MAIN (EXISTING)
  - RWTM — RWTM — RWTM — DN250 PVC-M RECYCLED WATER TRANSFER MAIN (EXISTING)
  - PSM — PSM — PSM — PE PRESSURE SEWER MAIN (EXISTING)
  - W — W — W — DN250 WATER MAIN CONNECTION WITH HUNTER WATER (FUTURE)
  - W — W — W — EXISTING DN250 WATER MAIN (HUNTER WATER)
  - E — E — E — UNDERGROUND POWER
  - S.V. — STOP VALVE
  - HYD. — HYDRANT
  - FL. HYD. — FLUSHING HYDRANT
  - ▨ HIGH VOLTAGE ELECTRICAL EASEMENT (APPROX. LOCATION)
  - ▣ PROPERTY SERVICE CONNECTION
  - ⊗ EXISTING PROPERTY SERVICE CONNECTION
  - ⊙ LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - ⊙ LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - - - - - LIMIT OF SUBDIVISION WORKS

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**  
TOTAL 40 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 0 x SHORT SIDE
    - 2 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 7 x SHORT SIDE
    - 12 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	504

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 101 TO 103.
  2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
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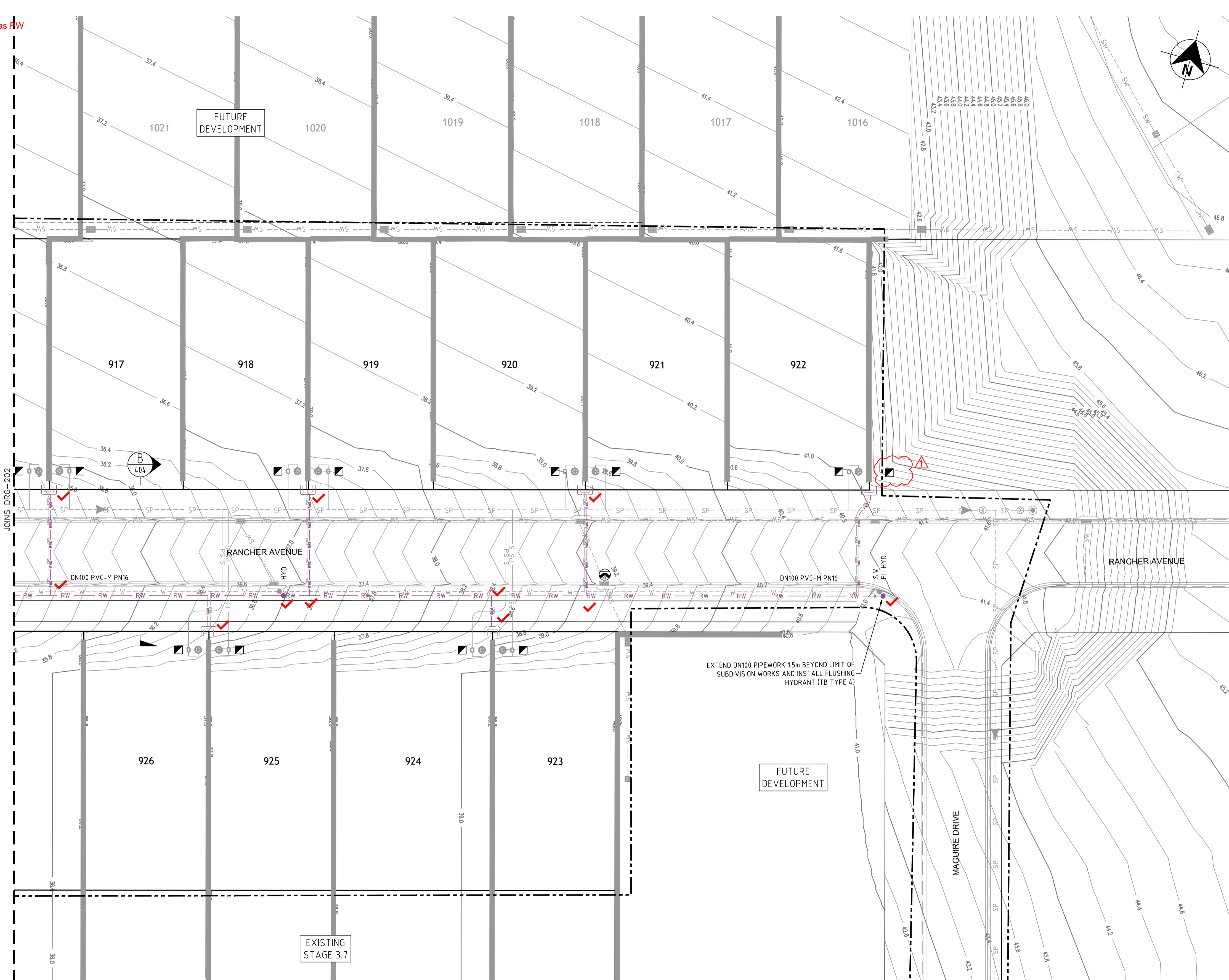




same as RW

239078(3.9)-WAT-203(1)

100mm AT FULL SIZE  
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PLAN  
SCALE 1:250

- 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
  - PWTM - DN200 PVC-M POTABLE WATER TRANSFER MAIN (EXISTING)
  - RWTM - DN250 PVC-M RECYCLED WATER TRANSFER MAIN (EXISTING)
  - PSM - PE PRESSURE SEWER MAIN (EXISTING)
  - W - DN250 WATER MAIN CONNECTION WITH HUNTER WATER (FUTURE)
  - W - EXISTING DN250 WATER MAIN (HUNTER WATER)
  - E - UNDERGROUND POWER
  - S.V. - STOP VALVE
  - HYD. - HYDRANT
  - FL. HYD. - FLUSHING HYDRANT
  - HIGH VOLTAGE ELECTRICAL EASEMENT (APPROX. LOCATION)
  - PROPERTY SERVICE CONNECTION
  - EXISTING PROPERTY SERVICE CONNECTION
  - LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - LIMIT OF SUBDIVISION WORKS

**RECYCLED WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 40 CONNECTIONS  
 • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V  
 -0 x SHORT SIDE  
 -2 x LONG SIDE  
 • SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V  
 -7 x SHORT SIDE  
 -12 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	504

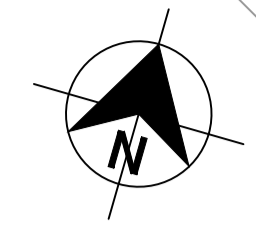
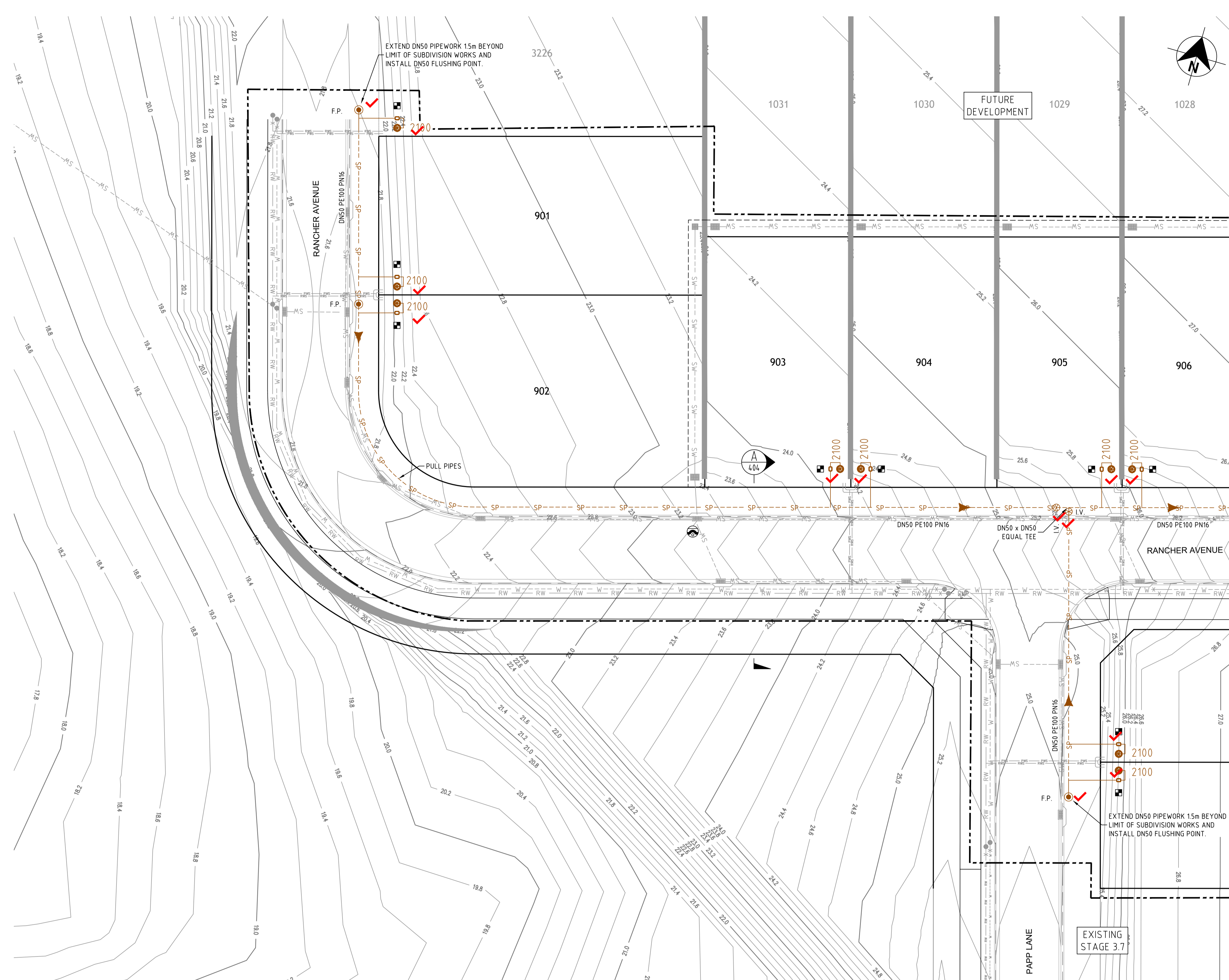
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- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS 101 TO 103.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-403 TO 404.

**CONSTRUCTION ISSUE**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 A1 / A3 1:250 / 1:500	 <b>Johnson</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>CLIENT</b>  <b>JOHNSON PROPERTY GROUP</b>	<b>PROPERTY DESCRIPTION</b> PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.9 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			
A	09.07.2021	INITIAL ISSUE	T.S.	R.J.	T.S.	L.G.						<b>PLAN TITLE</b> RECYCLED WATER DETAIL PLAN: SHEET 03		<b>PROJECT No.</b> 239078(3.9)		<b>DISCIPLINE</b> WAT	

239078(3.9)-WAT-303(1)

100mm AT FULL SIZE  
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- LEGEND**
- SP PE PRESSURE SEWER RETICULATION
  - PSM PE PRESSURE SEWER MAIN (EXISTING)
  - RW PVC-M RECYCLED WATER RETICULATION
  - RWS RECYCLED WATER PROPERTY SERVICE
  - W PVC-M POTABLE WATER RETICULATION
  - PWS POTABLE WATER PROPERTY SERVICE
  - PWTM DN200 PVC-M POTABLE WATER TRANSFER MAIN (EXISTING)
  - RWTM DN250 PVC-M RECYCLED WATER TRANSFER MAIN (EXISTING)
  - W-W DN250 WATER MAIN CONNECTION WITH HUNTER WATER (FUTURE)
  - W-W EXISTING DN250 WATER MAIN (HUNTER WATER)
  - E UNDERGROUND POWER
  - I.V. ISOLATION VALVE
  - F.P. FLUSHING POINT
  - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
  - PRESSURE SEWER FLOW DIRECTION
  - PRESSURE SEWER TEMPORARY FLOW DIRECTION
  - HIGH VOLTAGE ELECTRICAL EASEMENT (APPROX. LOCATION)
  - PROPERTY SERVICE CONNECTION
  - EXISTING PROPERTY SERVICE CONNECTION
  - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - LAY PRESSURE SEWER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - LIMIT OF SUBDIVISION WORKS

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 39 CONNECTIONS  
 • SINGLE SERVICES  
 -25 x SHORT SIDE  
 -14 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE100 PN16	83
DN63	PE100 PN16	245
DN50	PE100 PN16	251

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
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  4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-111.
  5. FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
  6. CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
  7. ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).

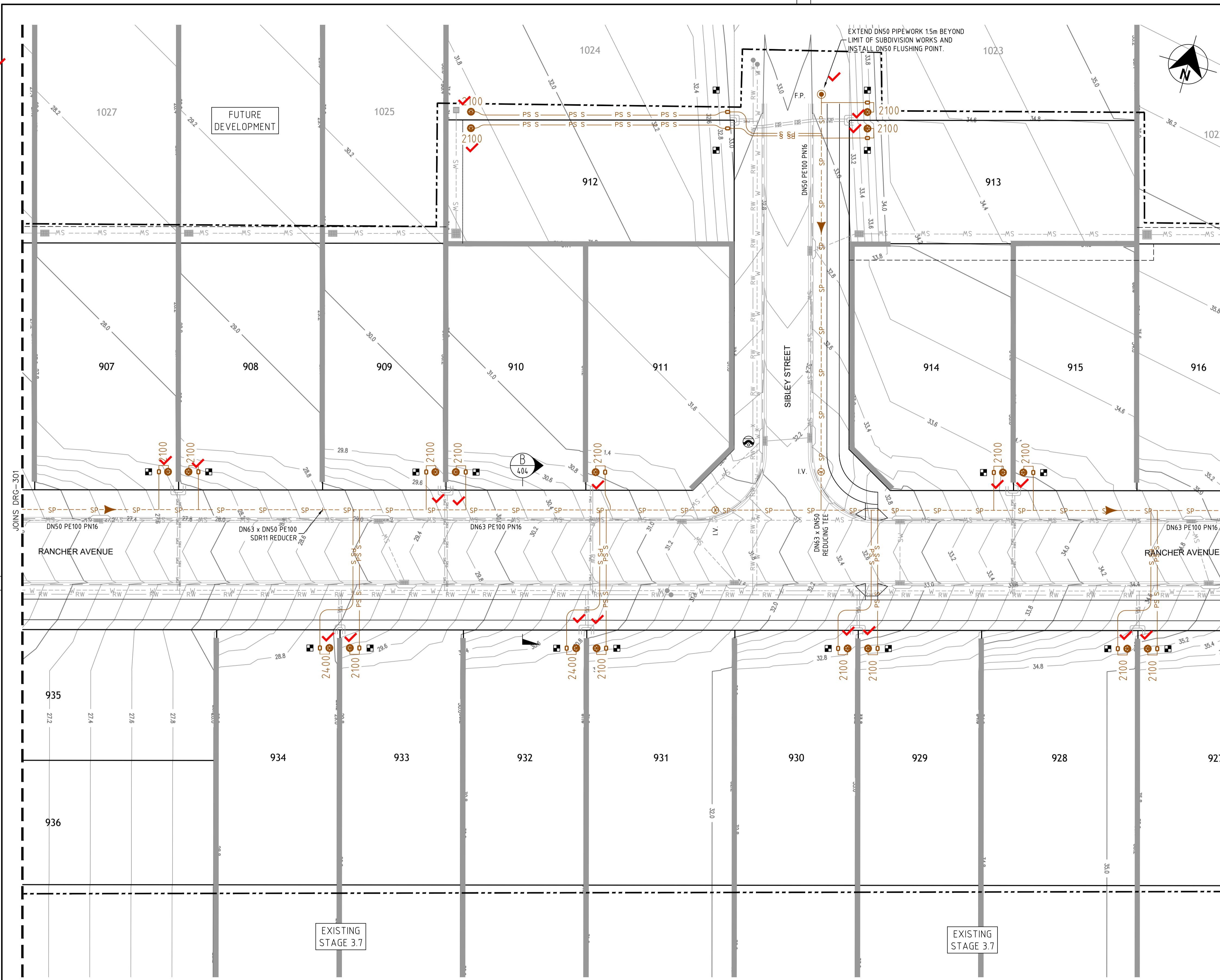
PLAN  
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**CONSTRUCTION ISSUE**

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239078(3.9)-WAT-303(1)

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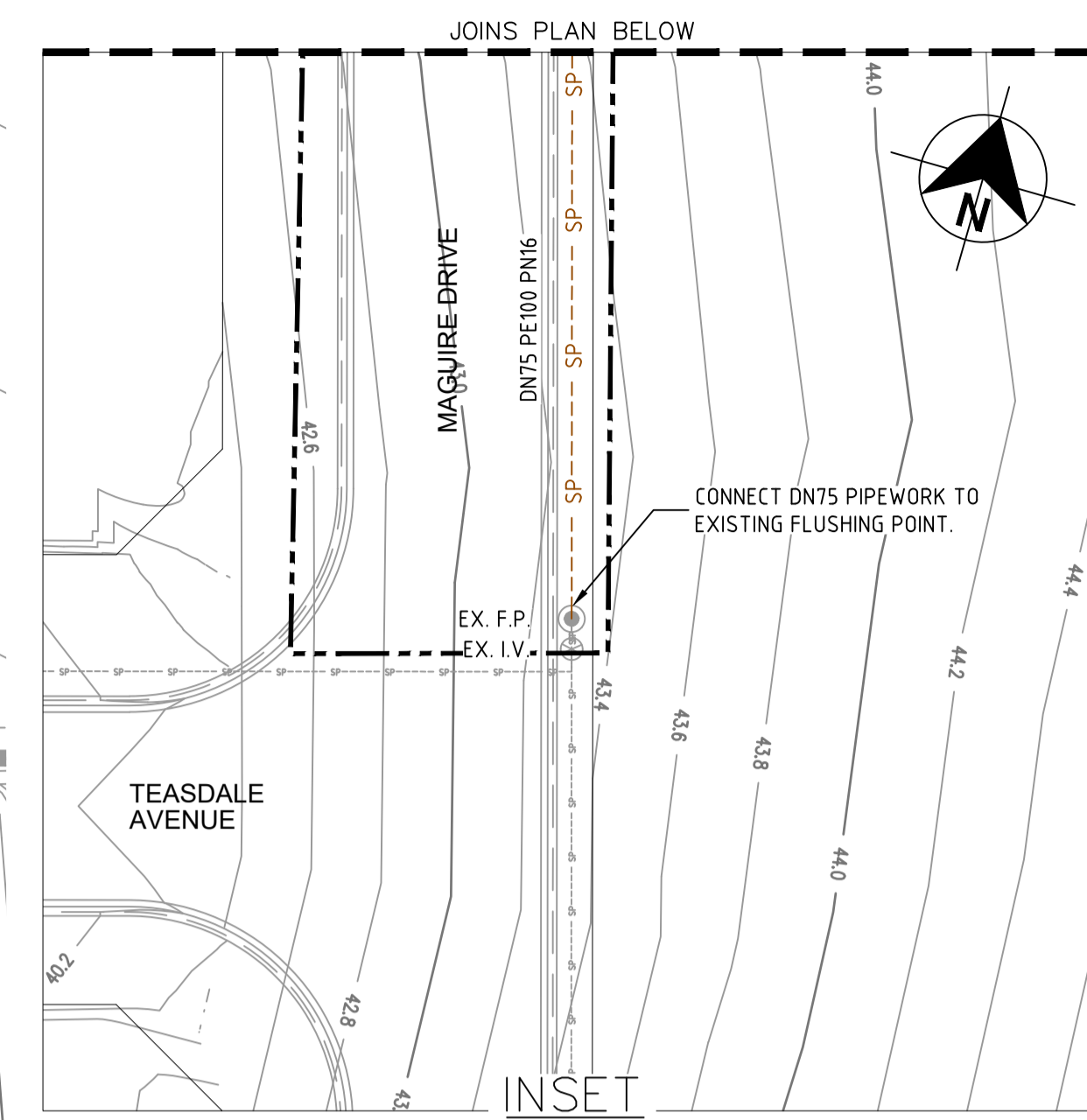
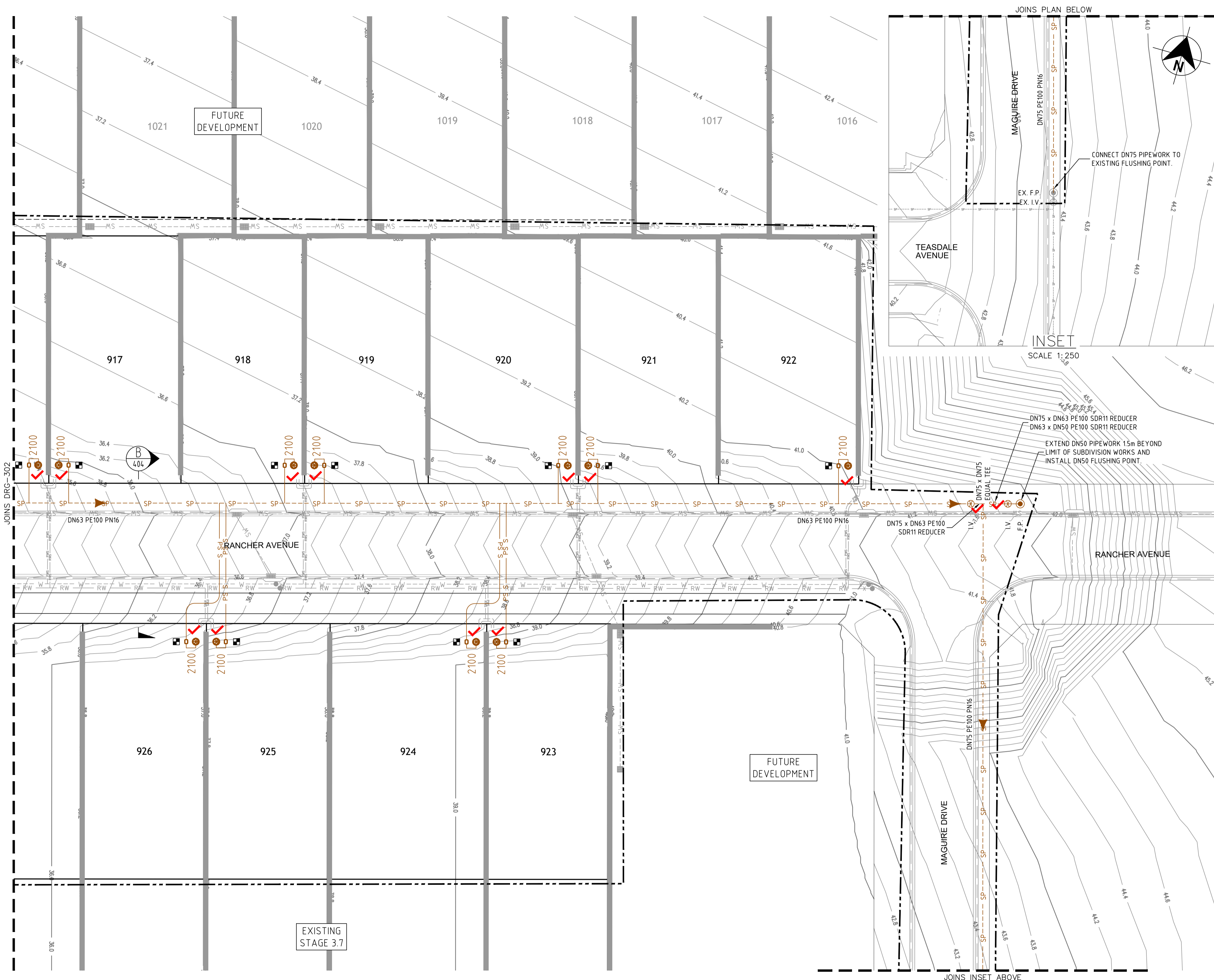
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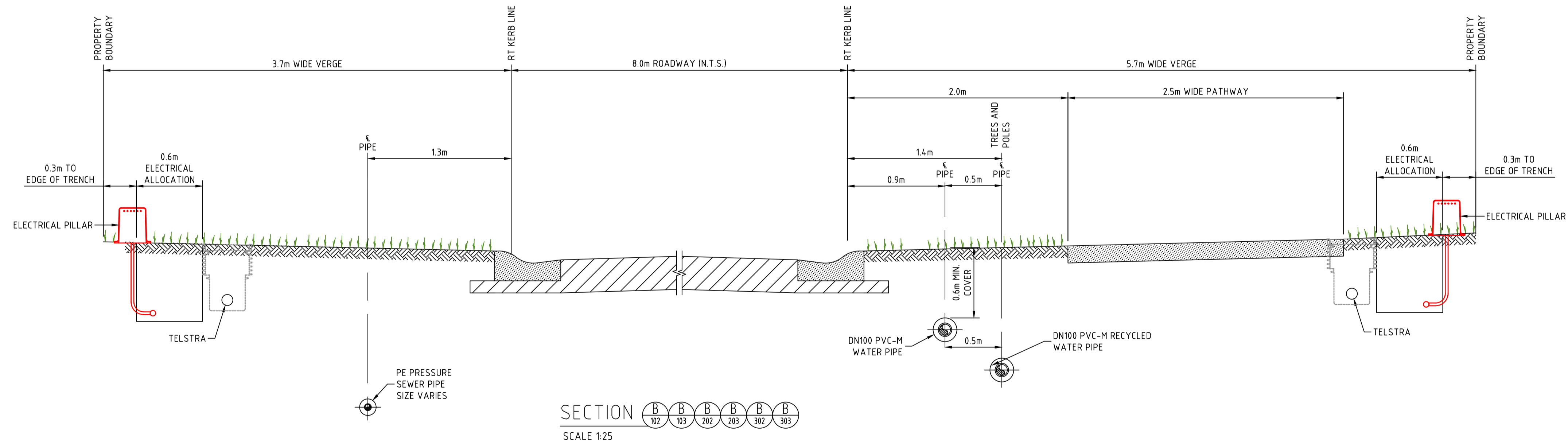
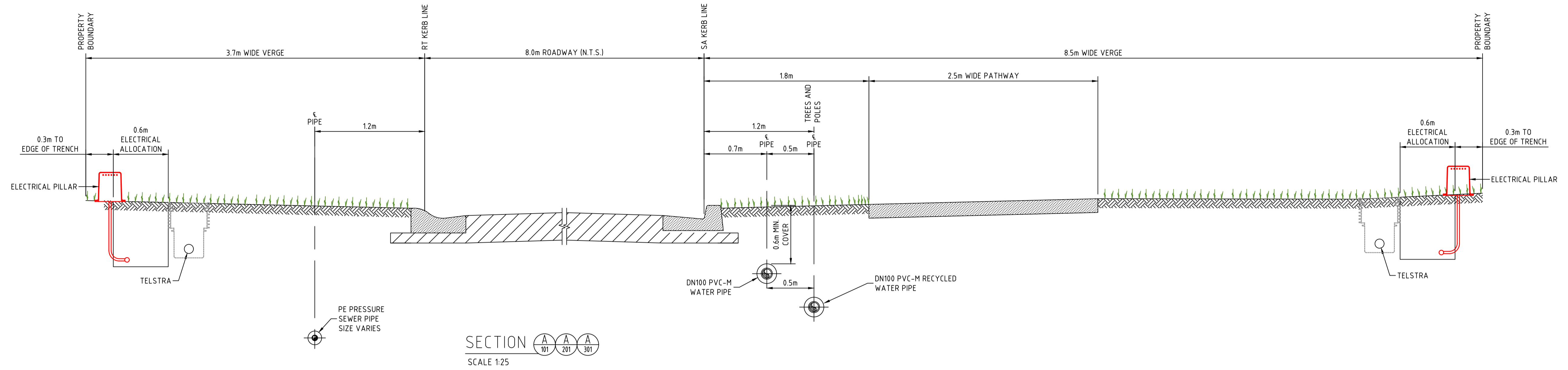
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<p>DESIGN FILE N:\239078\239078(3)\DWG's\Engineering\Water &amp; Sewer</p>		<p>ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE</p>		<p>SURVEYED</p> <p>ADW Johnson</p>		<p>DATUM</p> <p>GDA94 M.G.A. ZONE 56 A.H.D.</p>		<p>PROJECT No.</p> <p>239078(3.9) - WAT - 303</p>		<p>DISCIPLINE</p> <p>WAT</p>		<p>NUMBER</p> <p>303</p>		<p>REV.</p> <p>1</p>																																		



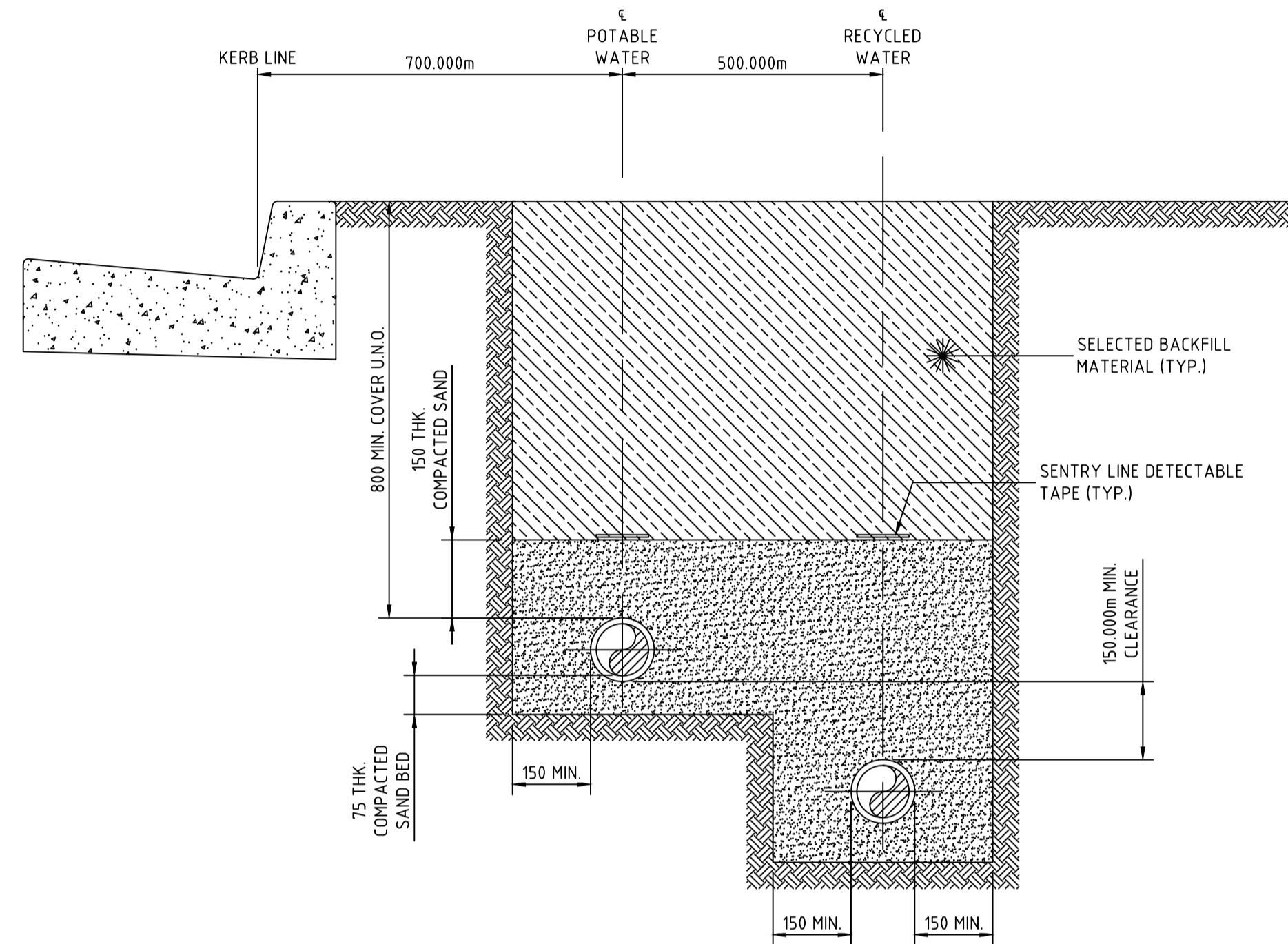
239078(3.9)-WAT-401(1)



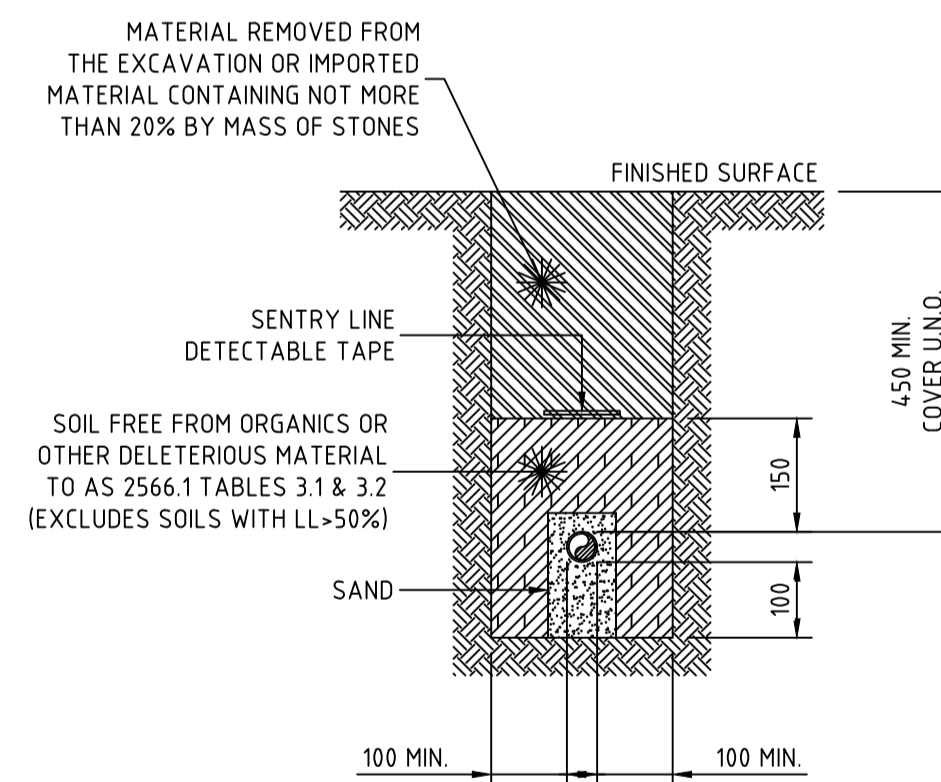
100mm AT FULL SIZE  
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**CONSTRUCTION ISSUE**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION		PROJECT							
A	09.07.2021	INITIAL ISSUE	T.S.	R.J.	T.S.	L.G.		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 3.9 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							
B	12.07.2021	CLIENT COMMENTS	I.B.	R.J.	T.S.	L.G.	PLAN TITLE												
C	16.09.2021	ALTOGETHER COMMENTS	T.S.	M.C.	T.S.	L.G.													
O	17.09.2021	CONSTRUCTION ISSUE	T.S.	MP.C.	T.S.	MP.C.													
1	12.10.2021	CONSTRUCTION ISSUE	G.S.	MP.C.	T.S.	MP.C.													
DESIGN FILE N:\239078\239078(3)\DWG's\Engineering\Water & Sewer								ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE		SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.		PROJECT No. 239078(3.9) - WAT		DISCIPLINE - NUMBER 401		REV. 1	



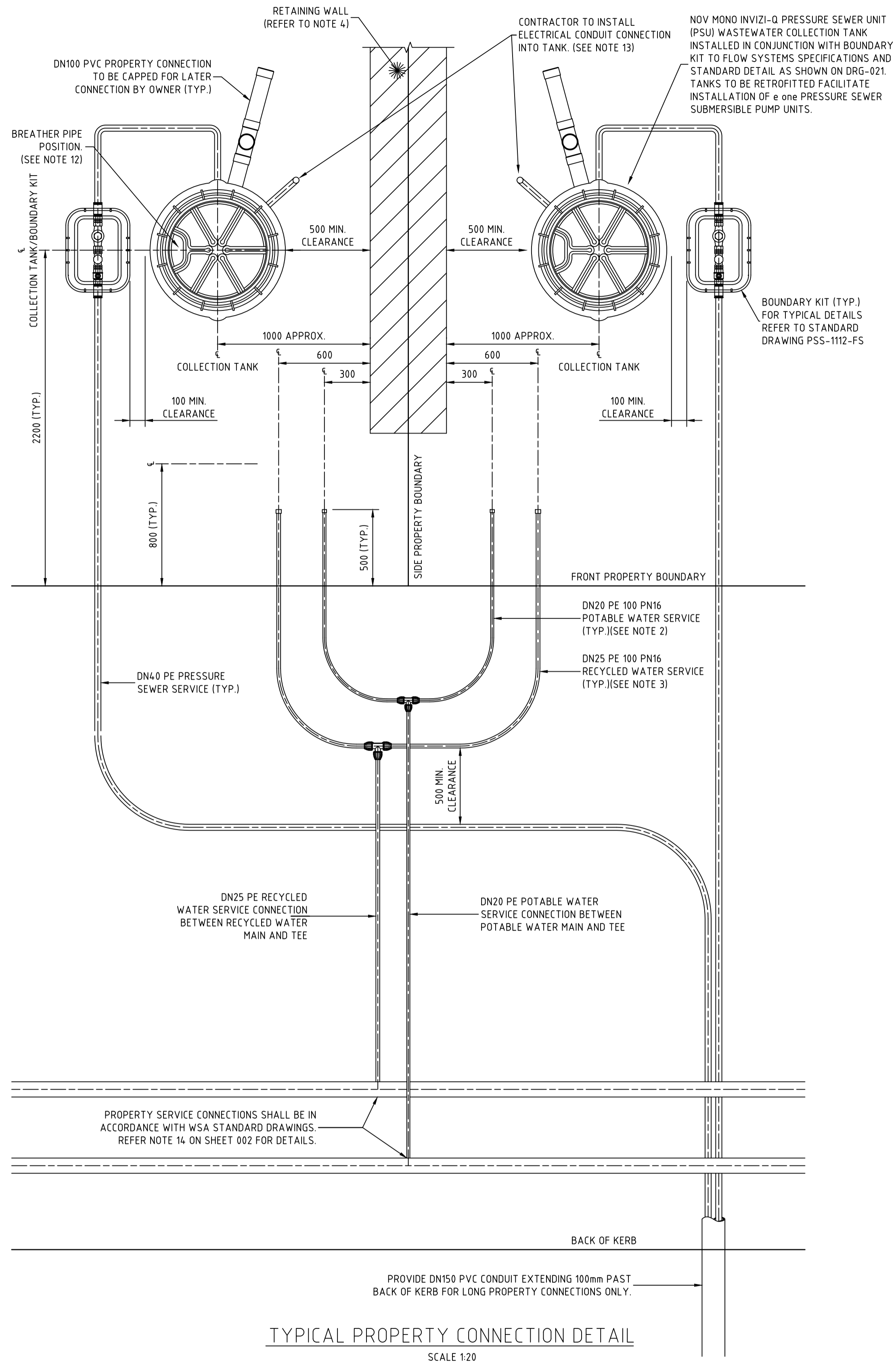
STREET PRESSURE MAIN  
TYPICAL DETAIL  
SCALE 1:10



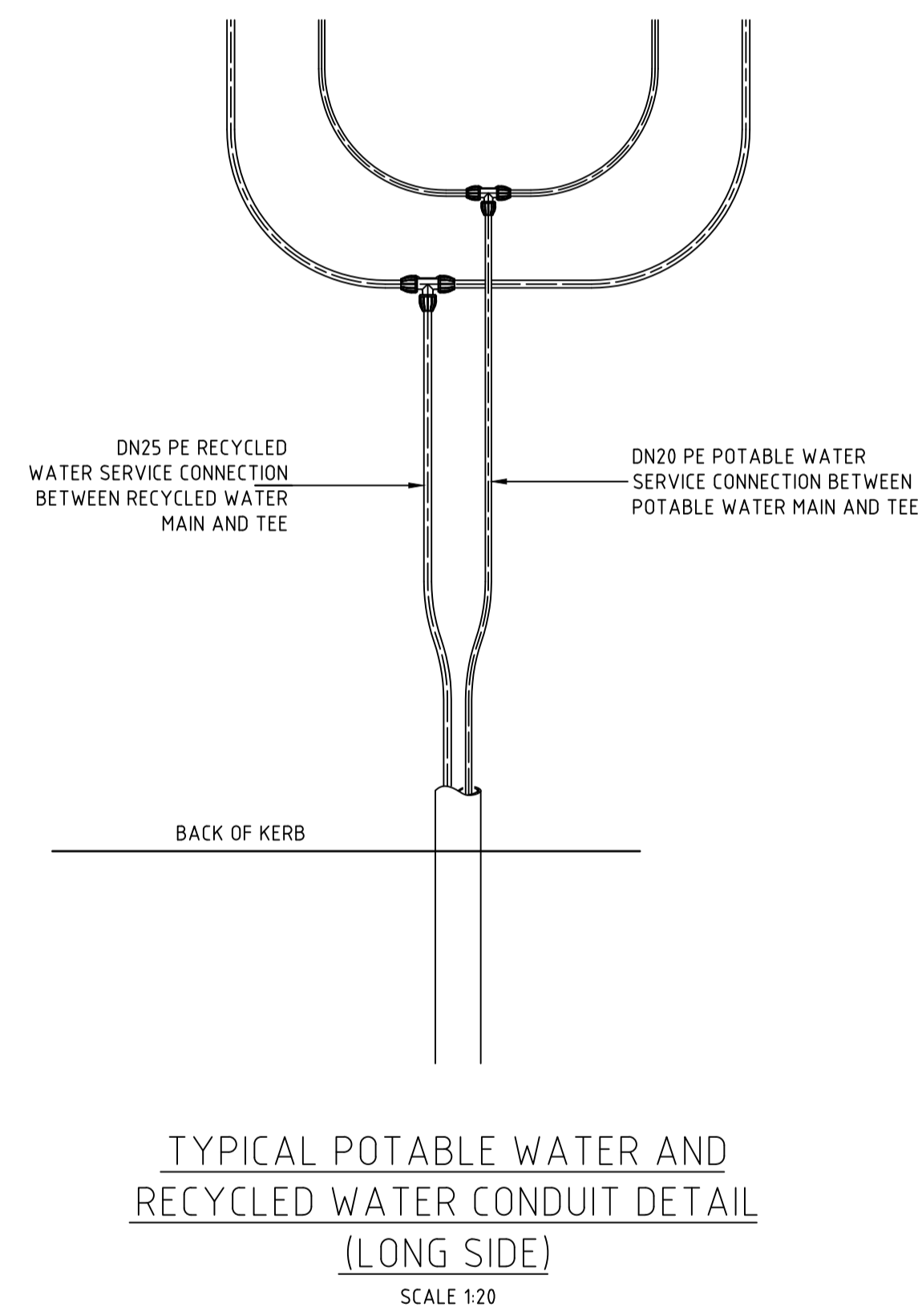
PRIVATE PROPERTY PRESSURE MAIN  
TYPICAL DETAIL  
SCALE 1:10

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	09.07.2021	INITIAL ISSUE	T.S.	R.J.	T.S.	L.G.		 <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		PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.9 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	TYPICAL PIPEWORK TRENCHING DETAILS	ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	239078(3.9) -	WAT -	402	1
B	12.07.2021	CLIENT COMMENTS	I.B.	R.J.	T.S.	L.G.												
C	16.09.2021	ALTOGETHER COMMENTS	T.S.	M.C.	T.S.	L.G.												
O	17.09.2021	CONSTRUCTION ISSUE	T.S.	MP.C.	T.S.	MP.C.												
1	12.10.2021	CONSTRUCTION ISSUE	G.S.	MP.C.	T.S.	MP.C.												
DESIGN FILE N:\239078\239078(3)\DWG's\Engineering\Water & Sewer								ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE										



- 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. 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. 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**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	09.07.2021	INITIAL ISSUE	T.S.	R.J.	T.S.	L.G.	
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O	17.09.2021	CONSTRUCTION ISSUE	T.S.	MP.C.	T.S.	MP.C.	
1	12.10.2021	CONSTRUCTION ISSUE	G.S.	MP.C.	T.S.	MP.C.	

DRAWN	CHECK	DESIGN	VERIFY	SCALES
T.S.	R.J.	T.S.	L.G.	
I.B.	R.J.	T.S.	L.G.	
T.S.	M.C.	T.S.	L.G.	
T.S.	MP.C.	T.S.	MP.C.	
G.S.	MP.C.	T.S.	MP.C.	

**adw Johnson**

Hunter Office  
 Unit 7/335 Hillsborough Rd  
 Warners Bay N.S.W. 2282  
 Phone: (02) 4978 5100  
 Fax: (02) 4978 5199  
 email: hunter@adwjohnson.com.au  
 www.adwjohnson.com.au  
 ABN 62 129 445 398

CLIENT

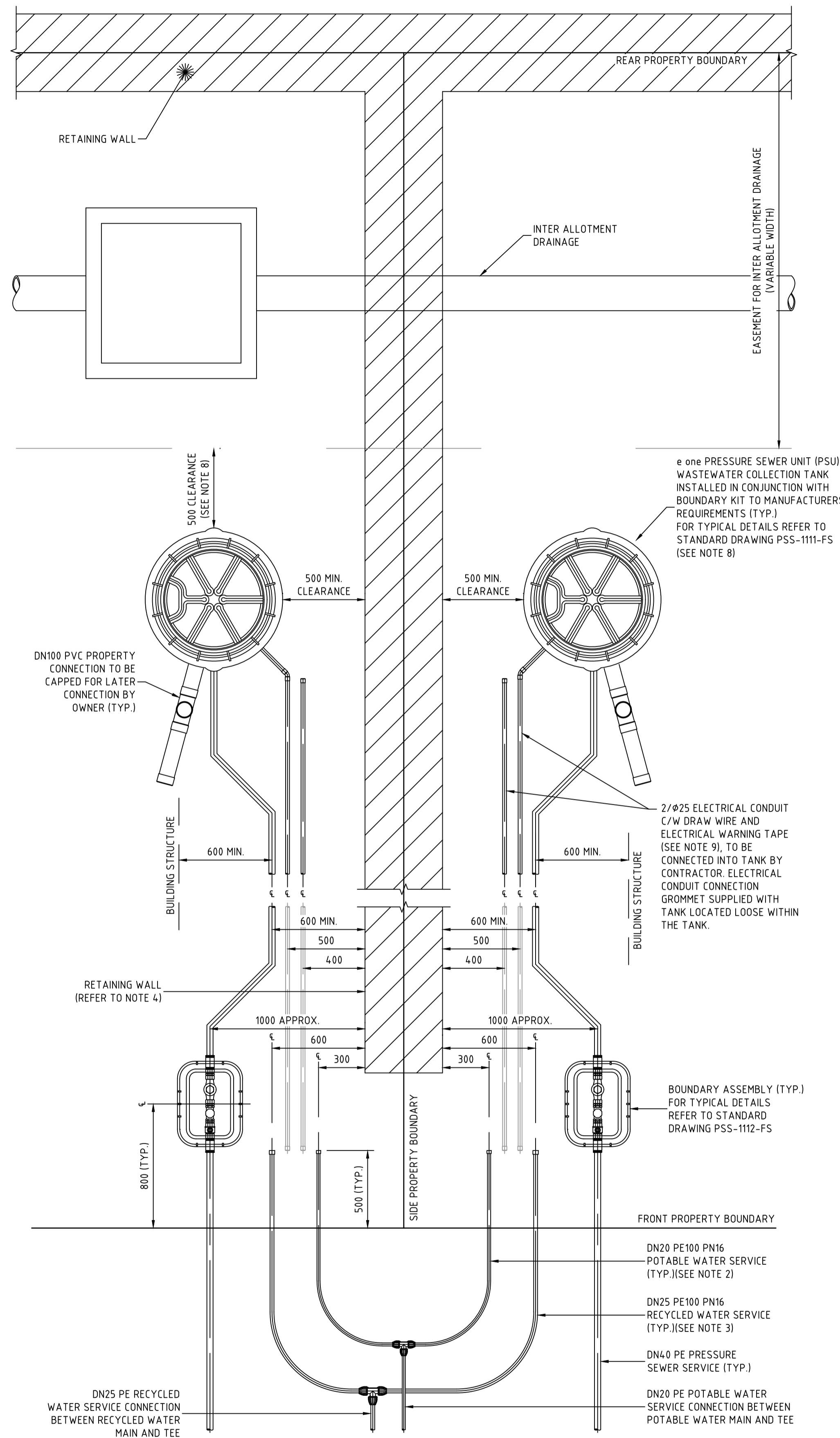
**JOHNSON PROPERTY GROUP**

PROPERTY DESCRIPTION

PRECINCT 3 - WATAGAN PARK  
 PROPOSED SUBDIVISION - STAGE 3.9  
 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 PROPERTY CONNECTION - SHEET 1

SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	239078(3.9)	WAT	403	1



TYPICAL PROPERTY CONNECTION DETAIL  
(PRESSURE SEWER UNIT AT REAR)

SCALE 1:20

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	09.07.2021	INITIAL ISSUE	T.S.	R.J.	T.S.	L.G.	
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O	17.09.2021	CONSTRUCTION ISSUE	T.S.	MP.C.	T.S.	MP.C.	
1	12.10.2021	CONSTRUCTION ISSUE	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  
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 ABN 62 129 445 398

**JOHNSON PROPERTY GROUP**

**PROPERTY DESCRIPTION**  
 PRECINCT 3 - WATAGAN PARK  
 PROPOSED SUBDIVISION - STAGE 3.9  
 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	TYPICAL PROPERTY CONNECTION - SHEET 2		
SURVEYED	DATUM	PROJECT No.	DISCIPLINE
ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	239078(3.9) - WAT	NUMBER
			404
			REV.
			1

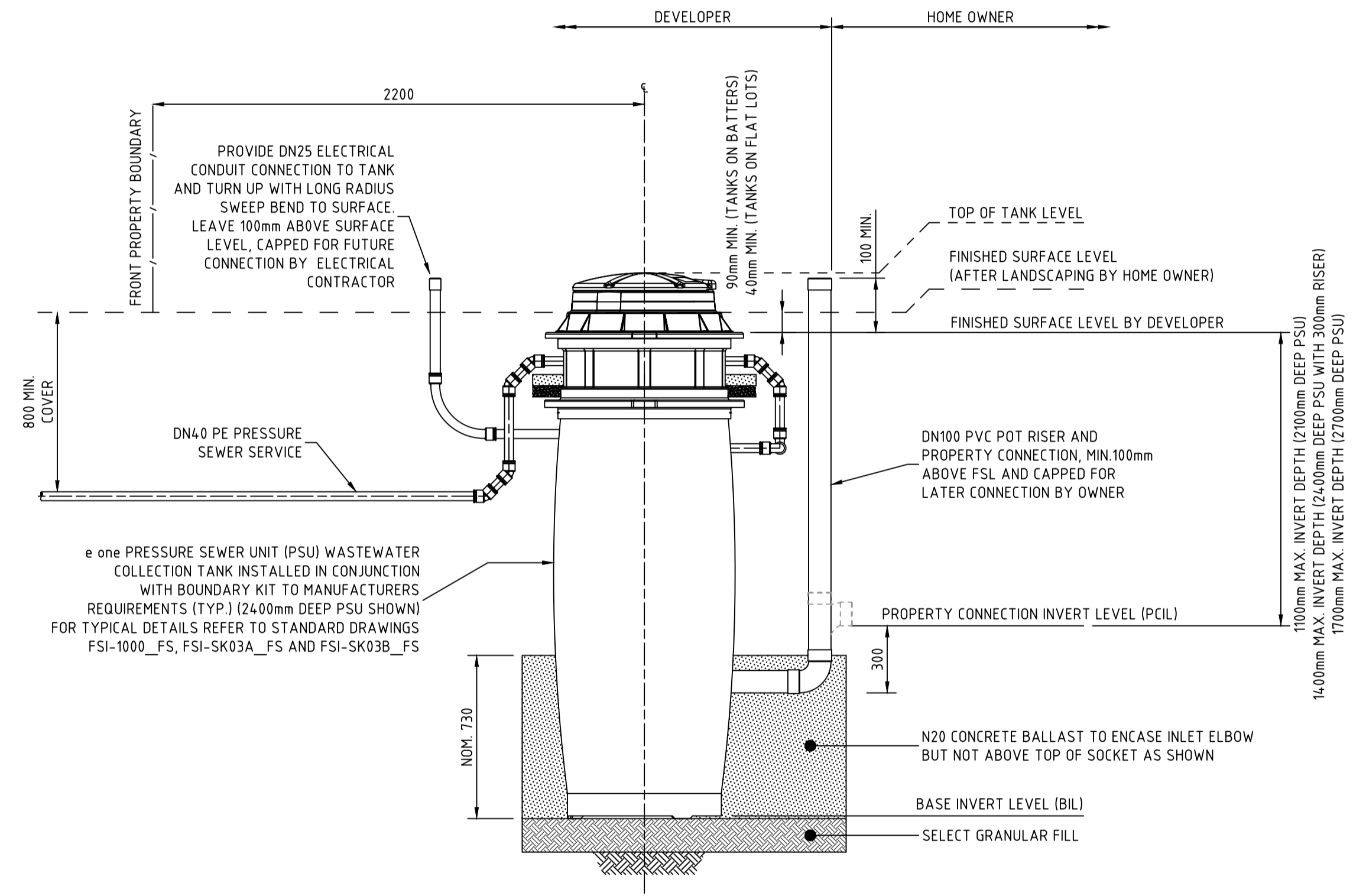




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WASTEWATER COLLECTION TANK DETAILS

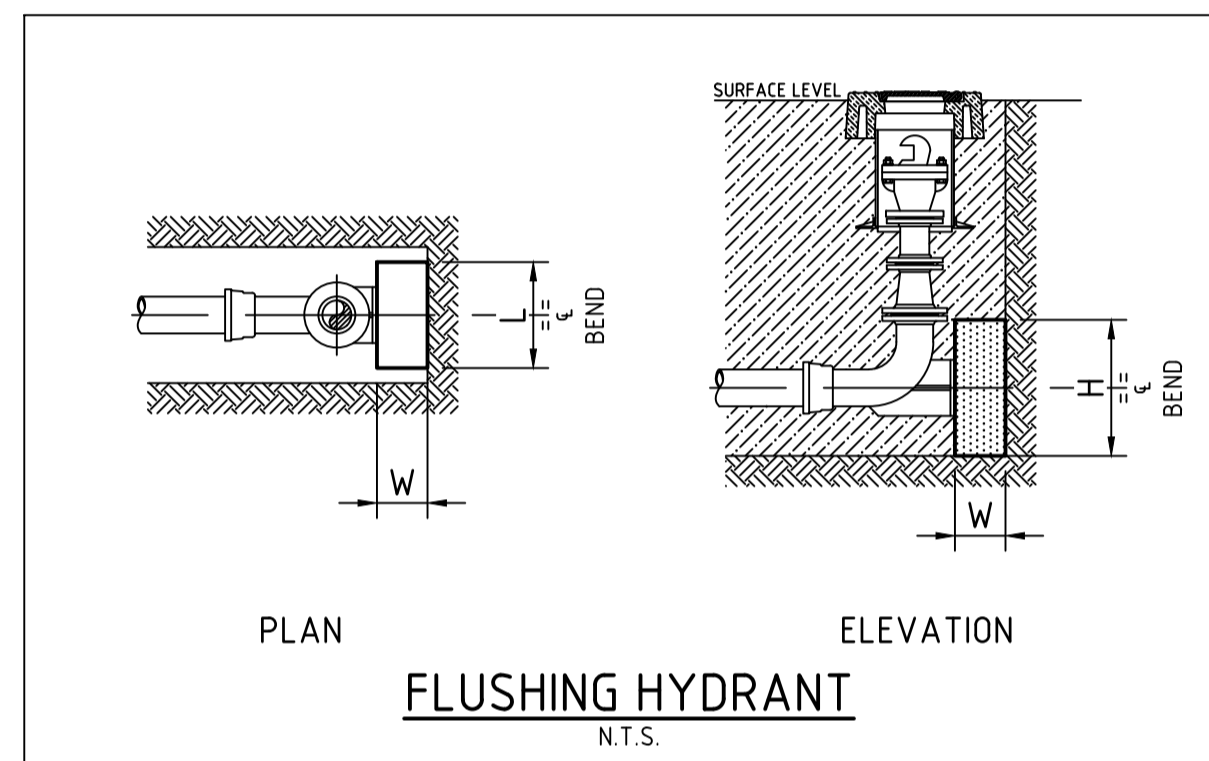
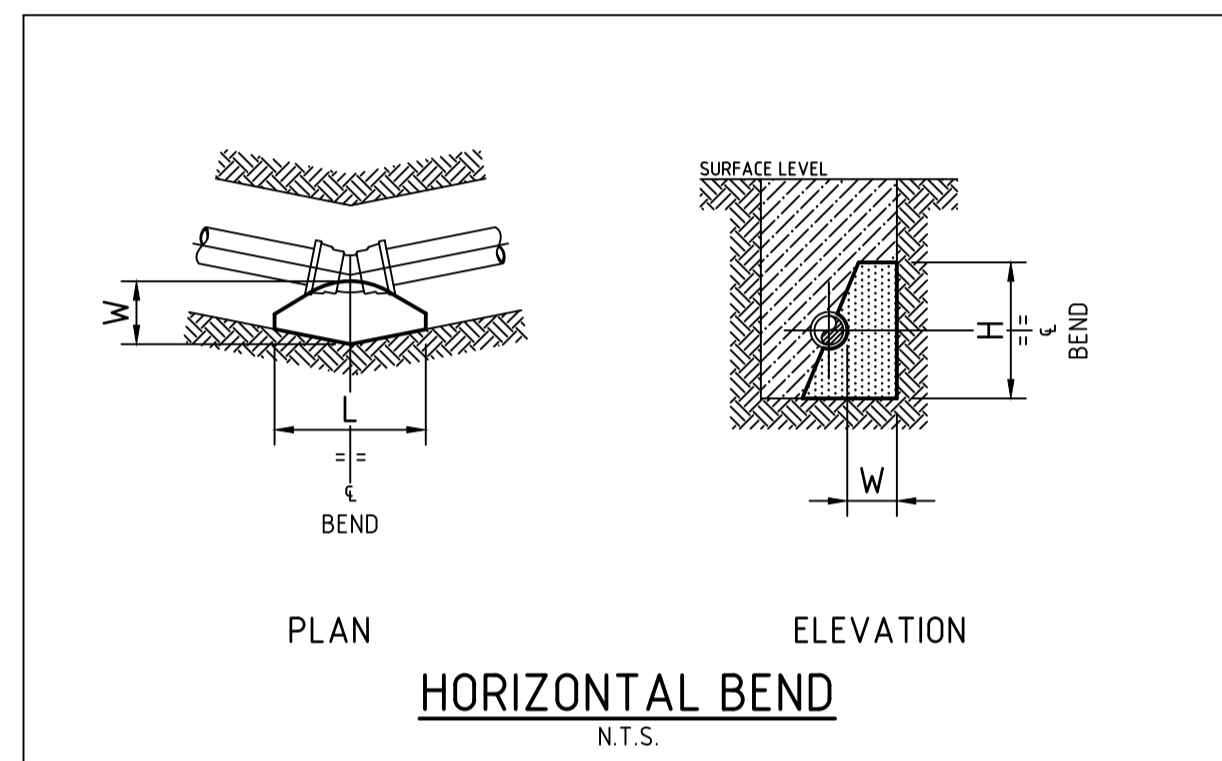
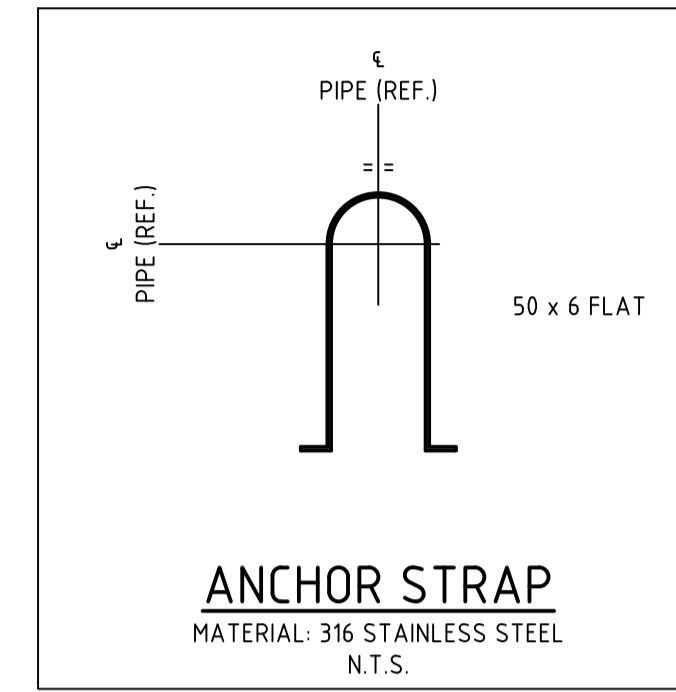
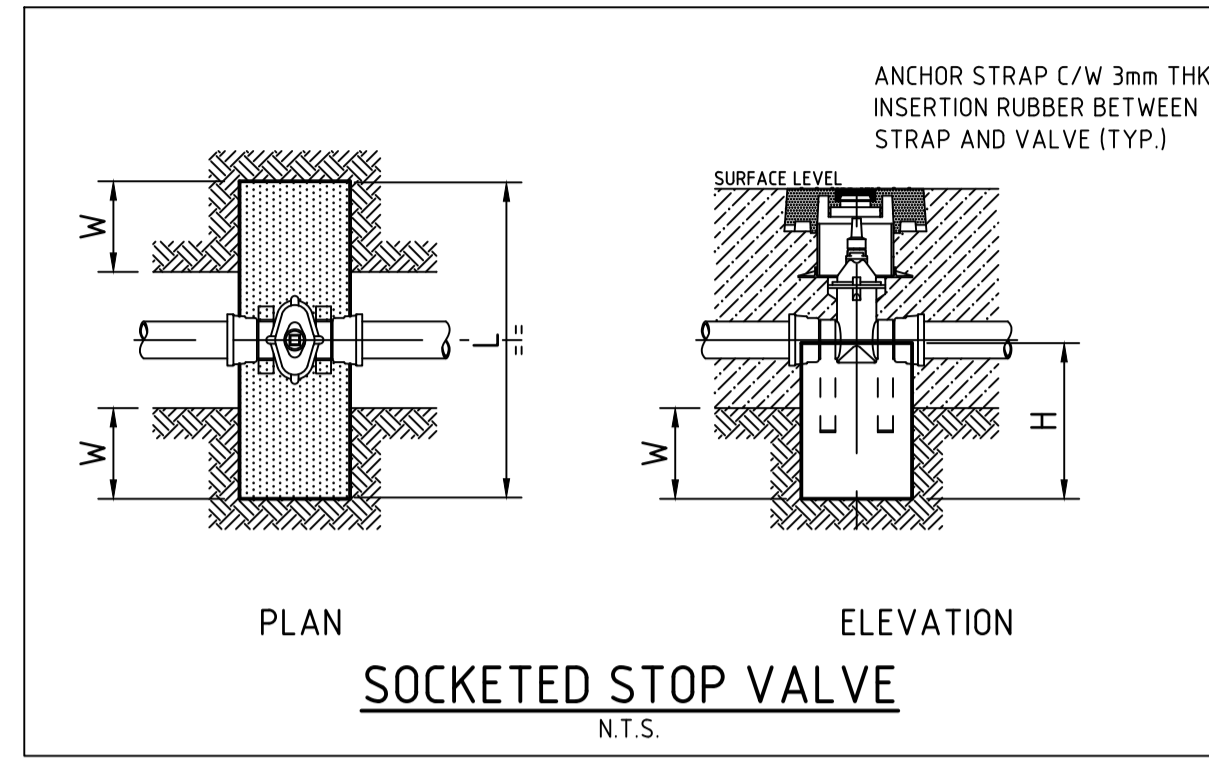
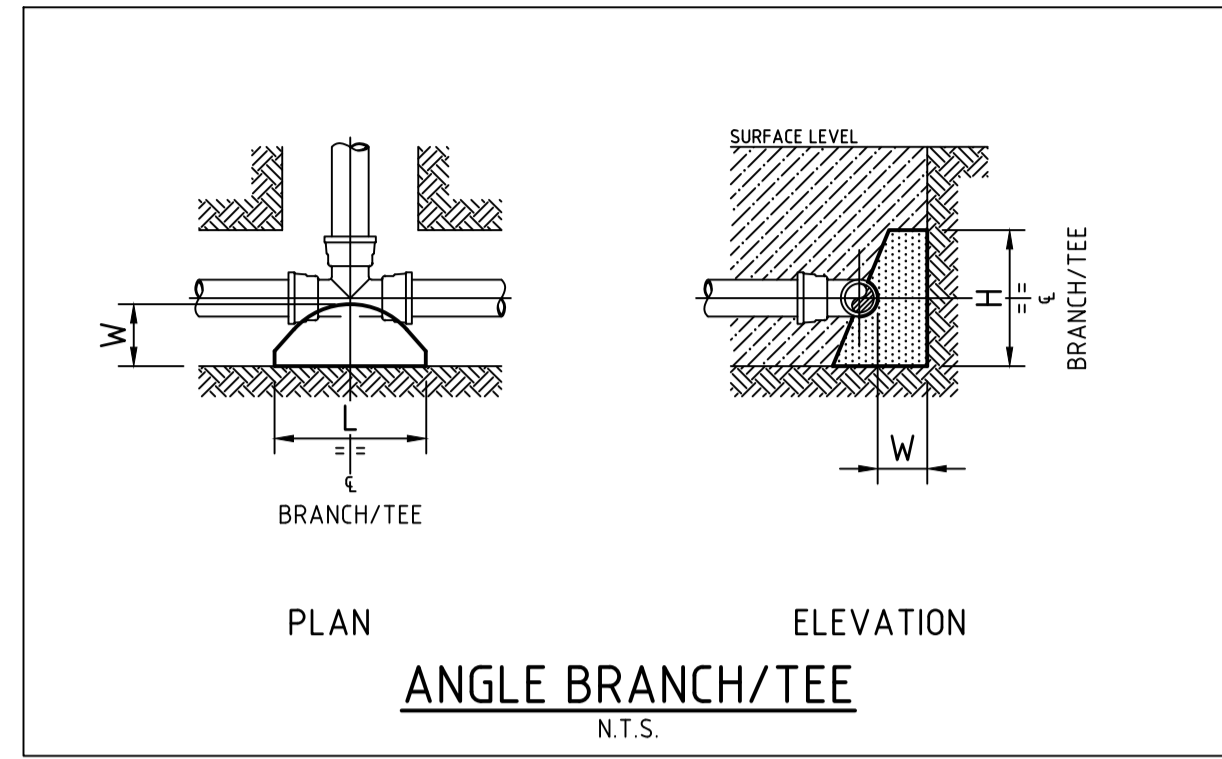
LOT NUMBER	TOP OF TANK	BASE IL	PROPERTY CONNECTION IL	TANK HEIGHT	TANK LOCATION	EASTING	NORTHING	EASTING	NORTHING	
901	22.18	22.414	20.05	20.95	2100	FRONT	353362.027	634.1271.126	355362.267	634.1271.335
902	22.17	22.401	20.04	20.94	2100	FRONT	353362.577	634.1269.203	355363.074	634.1268.515
903	24.14	24.8	22.01	22.91	2100	FRONT	353419.082	634.1264.759	355419.135	634.1265.098
904	24.69	24.8	22.47	23.37	2100	FRONT	353421.473	634.1265.443	355421.896	634.1265.624
905	26.04	26.1	23.91	24.81	2100	FRONT	353450.331	634.1273.689	355450.4	634.1273.734
906	26.44	26.58	24.31	25.21	2100	FRONT	353452.722	634.1274.372	355453.048	634.1274.269
907	27.04	28.44	25.81	26.71	2100	FRONT	353481.580	634.1282.620	355481.424	634.1282.912
908	28.37	28.40	26.24	27.14	2100	FRONT	353483.971	634.1283.303	355484.172	634.1283.517
909	29.77	30.0	27.64	28.54	2100	FRONT	353512.829	634.1291.550	355513.036	634.1291.738
910	30.33	30.460	28.20	29.10	2100	FRONT	353515.220	634.1292.233	355515.337	634.1292.066
911	31.15	31.45	29.02	29.92	2100	FRONT	353531.566	634.1296.905	355531.839	634.1296.925
912	31.84	31.89	29.71	30.61	2100	REAR	353505.471	634.1332.921	355505.201	634.1348.139
913	33.71	33.85	31.58	32.48	2100	FRONT	353551.876	634.1346.165	355551.734	634.1346.327
914	33.68	33.81	31.55	32.45	2100	FRONT	353579.173	634.1310.510	355578.922	634.1310.509
915	34.11	34.46	31.98	32.88	2100	FRONT	353581.564	634.1311.193	355581.69	634.1311.29
916	35.17	35.57	33.44	34.34	2100	FRONT	353608.018	634.1318.753	355607.753	634.1318.884
917	35.93	36.09	33.80	34.70	2100	FRONT	353610.409	634.1319.437	355610.601	634.1319.468
918	37.25	37.38	35.12	36.02	2100	FRONT	353637.835	634.1327.275	355637.728	634.1327.375
919	37.65	37.82	35.52	36.42	2100	FRONT	353640.227	634.1327.957	355640.358	634.1328.205
920	39.23	39.27	37.10	38.00	2100	FRONT	353669.787	634.1336.406	355669.88	634.1336.163
921	39.61	39.75	37.48	38.38	2100	FRONT	353672.177	634.1337.090	355672.586	634.1337.078
922	41.21	41.38	39.08	39.98	2100	FRONT	353702.478	634.1345.748	355702.278	634.1345.682
923	39.88	38.845	37.15	38.05	2100	FRONT	353661.381	634.1313.461	355667.791	634.1313.327
924	38.83	38.871	36.70	37.60	2100	FRONT	353664.991	634.1312.771	355664.907	634.1312.813
925	37.29	37.61	35.16	36.06	2100	FRONT	353634.690	634.1304.118	355634.934	634.1304.238
926	36.84	37.14	34.71	35.61	2100	FRONT	353632.299	634.1303.436	355632.259	634.1303.5
927	35.33	35.702	33.20	34.10	2100	FRONT	353601.999	634.1294.775	355602.378	634.1294.923
928	34.83	35.1	32.70	33.60	2100	FRONT	353599.608	634.1294.093	355599.687	634.1293.921
929	33.33	33.61	31.20	32.10	2100	FRONT	353569.308	634.1285.433	355569.54	634.1285.349
930	32.87	33.13	30.74	31.64	2100	FRONT	353566.917	634.1284.750	355566.958	634.1284.752
931	31.59	31.84	29.26	30.16	2100	FRONT	353537.578	634.1276.366	355538.02	634.1276.654
932	30.93	31.04	28.56	29.46	2400	FRONT	353535.187	634.1275.632	355535.328	634.1275.832
933	29.53	29.71	27.40	28.30	2100	FRONT	353508.733	634.1268.123	355509.037	634.1268.248
934	29.07	29.27	26.64	27.54	2400	FRONT	353506.342	634.1267.439	355506.354	634.1267.616
935	25.89	26.07	23.76	24.66	2100	FRONT	353460.577	634.1241.161	355460.636	634.1241.247
936	25.89	26.06	23.76	24.66	2100	FRONT	353461.127	634.1239.238	355461.118	634.1239.129
3226 (FUTURE)	22.01	19.88	20.78	2100	FRONT	353356.806	634.1289.395			
1023 (FUTURE)	33.73	31.60	32.50	2100	FRONT	353551.266	634.1348.088			
1024 (FUTURE)	31.86	29.73	30.63	2100	REAR	353504.922	634.1334.844			



PRESSURE SEWER SERVICE CONNECTION  
TYPICAL SECTIONAL ELEVATION  
SCALE 1:20

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	<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>		CLIENT	PROPERTY DESCRIPTION	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION  PLAN TITLE  SEWER SERVICE CONNECTION DETAILS
A	09.07.2021	INITIAL ISSUE	T.S.	R.J.	T.S.	L.G.				PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.9 LOT 219 DP 755218, LOT 3 DP 1222727 ALTON ROAD, COORANBONG DA 1833/2015/A & DA 1834/2015	PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.9 LOT 219 DP 755218, LOT 3 DP 1222727 ALTON ROAD, COORANBONG DA 1833/2015/A & DA 1834/2015	PROJECT No.	
B	12.07.2021	CLIENT COMMENTS	I.B.	R.J.	T.S.	L.G.				ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	239078(3.9) - WAT - 405	1
C	16.09.2021	ALTOGETHER COMMENTS	T.S.	M.C.	T.S.	L.G.							
O	17.09.2021	CONSTRUCTION ISSUE	T.S.	MP.C.	T.S.	MP.C.							
1	12.10.2021	CONSTRUCTION ISSUE	G.S.	MP.C.	T.S.	MP.C.							



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 x 45° HORIZONTAL BEND	100	1500	7.50	0.08	N	N	0.30
3	DN100 x 22.5° HORIZONTAL BEND	100	1500	7.50	0.08	N	N	0.30
4	DN100 SOCKETED STOP VALVE	100	1500	18.00	0.18	1.05	0.44	0.30
5	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 (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.

**CONSTRUCTION ISSUE**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	09.07.2021	INITIAL ISSUE	T.S.	R.J.	T.S.	L.G.		<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>PRECINCT 3 - WATAGAN PARK PROPOSED SUBDIVISION - STAGE 3.9 LOT 219 DP 755218, LOT 3 DP 1222727 ALTON ROAD, COORANBONG DA 1833/2015/A &amp; DA 1834/2015</p>	<p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>THRUST BLOCK DETAILS</p>	<p>ADW Johnson</p>	<p>GDA94 M.G.A. ZONE 56 A.H.D.</p>	<p>239078(3.9)</p>	<p>WAT</p>	<p>406</p>	<p>1</p>
B	12.07.2021	CLIENT COMMENTS	T.S.	R.J.	T.S.	L.G.											
C	16.09.2021	ALTOGETHER COMMENTS	T.S.	M.C.	T.S.	L.G.											
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1	12.10.2021	CONSTRUCTION ISSUE	G.S.	MP.C.	T.S.	MP.C.											