

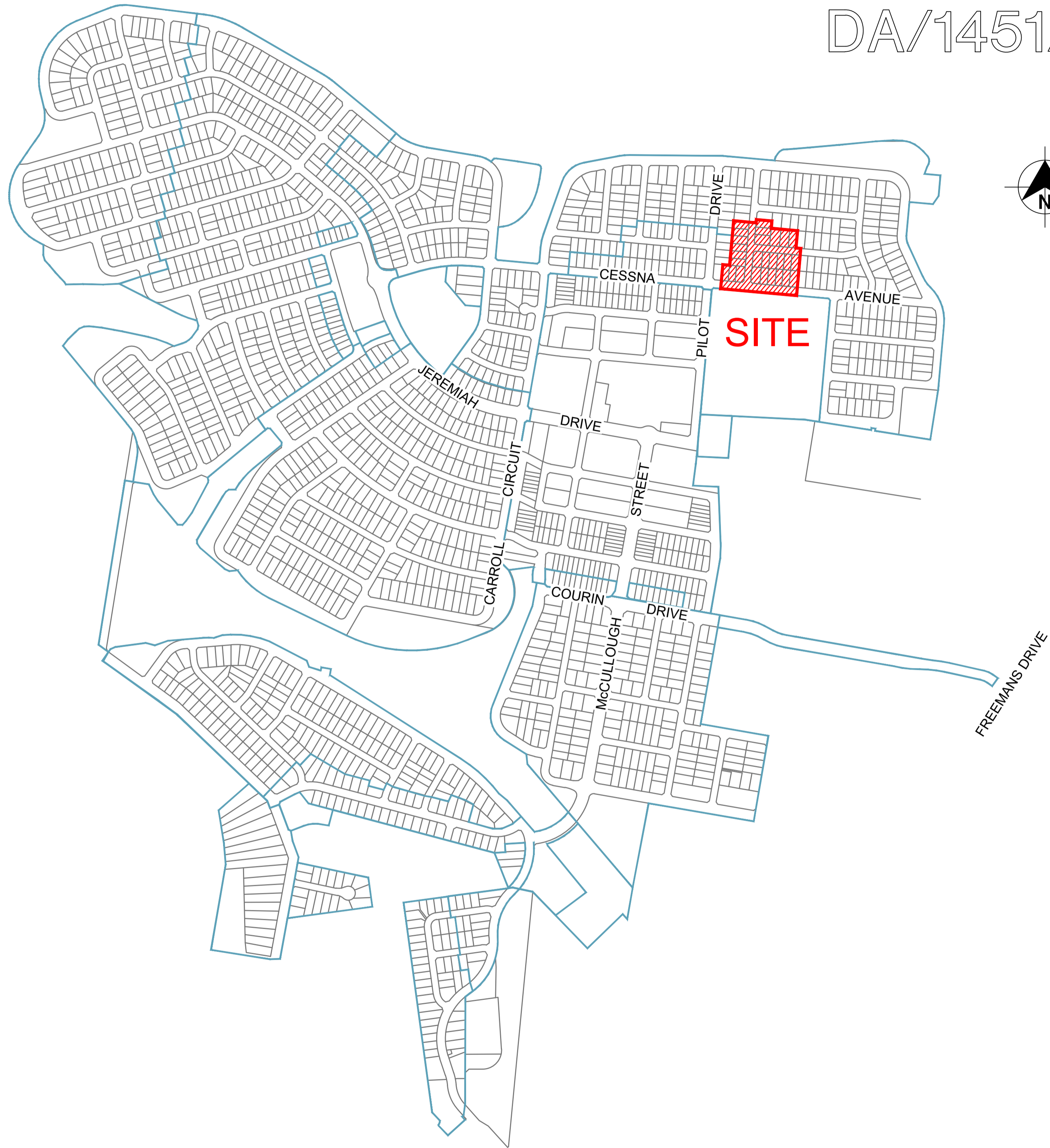
WATAGAN PARK PROPOSED SUBDIVISION

PRECINCT NORTH C & D - STAGE 12

LOT 1095 DP1288471, 27 CESSNA AVENUE, COORANBONG

DA/1451/2021/A


239078(7)12-WAT-001



LOCALITY SKETCH
NOT TO SCALE

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Sheet Title	Sheet Description
239078(7)12-WAT-001	COVER SHEET, LOCALITY PLAN, AND DRAWING INDEX
239078(7)12-WAT-002	GENERAL NOTES
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239078(7)12-WAT-101	POTABLE WATER DETAIL PLAN - SHEET 1
239078(7)12-WAT-102	POTABLE WATER DETAIL PLAN - SHEET 2
239078(7)12-WAT-201	RECYCLED WATER DETAIL PLAN - SHEET 1
239078(7)12-WAT-202	RECYCLED WATER DETAIL PLAN - SHEET 2
239078(7)12-WAT-301	PRESSURE SEWER DETAIL PLAN - SHEET 1
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239078(7)12-WAT-401	TYPICAL CROSS SECTIONS: A & B
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239078(7)12-WAT-404	WASTE WATER COLLECTION TANK LEVEL DETAILS
239078(7)12-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: 11/07/2025
Name: Malcolm Harvey Position: Registered Surveyor



CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	22.11.2023	INITIAL ISSUE	G.S.	M.K.	M.K.	L.G.	
B	15.08.2024	UPDATE STORMWATER NETWORK AND PST LOCATIONS	G.S.	M.K.	M.K.	L.G.	
C	26.08.2024	CLIENT COMMENTS	G.S.	M.K.	M.K.	L.G.	
D	27.08.2024	CLIENT COMMENTS	G.S.	M.K.	M.K.	L.G.	
E	28.08.2024	RELOCATE AIR-VALVE	G.S.	M.K.	M.K.	L.G.	
O	23.09.2024	CONSTRUCTION ISSUE	I.B.	M.K.	M.K.	L.G.	



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CLIENT

PROPERTY DESCRIPTION
WATAGAN PARK
PROPOSED SUBDIVISION
PRECINCT NORTH C & D - STAGE 12
LOT 82 DP1237780,
8 ROSENDAHL, COORANBONG
DA/1451/2021/A

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	COVER SHEET, LOCALITY PLAN, AND DRAWING INDEX		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(7)12	WAT	001	0

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(7)12-WAT-001

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.

PRESSURE SEWER NOTES:

- 1. 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.
2. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.
3. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.
4. PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007 AND ALTOGETHER SUPPLEMENTARY MANUAL TO WSA.
5. ALL POLYETHYLENE MAINS <= DN200 SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
6. MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS.
7. MAINS CROSSING UNDER EXISTING DRIVEWAYS (SEALED, PAVED OR DECORATIVE) SHALL BE CONDUCTED BY UNDER BORING ONLY UNLESS PERMISSION IS GRANTED BY THE AFFECTED PROPERTY OWNER.
8. MAINS WITHIN 2.0m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE ALTOGETHER REPRESENTATIVE).
9. ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION WSA-PS350 AND WSA-PS351.
10. ALL BENDS SHALL BE ELECTROFUSION OR BUTT WELD SWEEP BENDS. FABRICATED BENDS SHALL NOT BE USED IN LIEU. KNUCKLE ELBOWS ARE NOT PERMITTED.
11. MINIMUM BENDING RADIUS FOR PN16 PE100 (SDR11) SHALL BE 20 x DN.
12. ALL HOUSE SERVICE LATERALS SHALL BE DN40 (PE100 PN16).
13. FLUSHING PITS SHALL CONFORM WITH ALTOGETHER STANDARD DRAWINGS.
14. LOCALISED DEEPENING OF MAINS MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION.
15. DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
16. ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
17. DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
18. ALL VALVES SHALL BE RESILIENT SEATED SLUICE VALVES (ANTI-CLOCKWISE CLOSING), SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207 AND SHALL COMPLY WITH ALTOGETHER STANDARD DRAWING PSS-1015-FS.
19. ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 07-2007 VERSION 1.1.
20. FOR LOTS WITH TANKS IN THE REAR.
21. THE CONSTRUCTOR SHALL PROVIDE ALTOGETHER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE.
22. UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
23. PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
24. BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE.
25. THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE PRESSURE SEWER CODE OF AUSTRALIA (CLAUSE 21.3.4) ARE:
26. BOUNDARY KITS (COMPLETE) SHALL BE NOV SUPPLIED (NOV PSS-BK4).
27. ALL MAINS (UP TO THE BOUNDARY KIT) SHALL BE PRESSURE TESTED TO 1600 kPa.
28. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
29. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
30. ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.
31. PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
32. WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.
33. ELECTRICAL GLAND CONNECTION SUPPLIED LOOSE WITH EACH SEWER POT IS TO BE INSTALLED BY THE CIVIL CONTRACTOR AND ELECTRICAL CONDUIT ATTACHED TO THE TANK FOR FUTURE ELECTRICAL WIRING.

POTABLE WATER AND RECYCLED WATER NOTES:

- 1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA AND WSA 03-2011-3.1 (SYDNEY WATER EDITION 2014).
2. POTABLE WATER SHALL BE UTILISED FOR FIRE FIGHTING PURPOSES.
3. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, SHALL CONFORM TO THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.
4. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.
5. THE CONSTRUCTOR SHALL VERIFY WITH THE SITE SUPERVISOR THE POSITION AND LEVEL OF ALL EXISTING AND PROPOSED BOUNDARIES PERTINENT TO THE INFRASTRUCTURE INSTALLATIONS.
6. MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS.
7. ALL POTABLE WATER MAINS TO BE BLUE PVC-M (PN16).
8. MAXIMUM JOINT DEFLECTIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
9. LOCALLY LOWER PIPEWORK IN VICINITY OF STOP VALVES TO ENSURE SUFFICIENT COVER IS MAINTAINED OVER VALVES.
10. ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION PS-350, 368 AND 369.
11. DURING CONSTRUCTION, ALL OPEN ENDS OF PIPES SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
12. HYDRANTS, STOP VALVES AND ALL OTHER FITTINGS TO BE THE SAME SIZE AS THE THROUGH WATER MAIN AND ANTI CLOCKWISE CLOSING.
13. HYDRANTS MUST NOT BE INSTALLED IN POTENTIAL DRIVEWAY LOCATIONS.
14. THRUST BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH WAT-1205.
15. ALL PROPERTY (MAIN TO METER) SERVICE CONNECTIONS SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH ALTOGETHER REQUIREMENTS.
16. PROPERTY SERVICE CONNECTION IS SHALL BE FLUSHED AND LOCKED (BY THE ALTOGETHER REPRESENTATIVE) FOLLOWING SUCCESSFUL PRESSURE TESTING.
17. SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
18. ALL MAINS SHALL BE PRESSURE TESTED TO 1500kPa IN ACCORDANCE WITH CLAUSE 19.4 OF WSA03-2011 (SYDNEY WATER EDITION 2014).
19. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
20. WATER QUALITY TESTING SHALL BE IN ACCORDANCE WITH WSA 03-2011-3.1(SYDNEY WATER EDITION-2014. CLAUSE 19.7).
21. THE CONSTRUCTOR SHALL PROVIDE HUNTLEE WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE.
22. UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
23. PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
24. BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE.
25. MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY WSA03-2011 (SYDNEY WATER EDITION 2014) (CLAUSE 19.3.5) :
26. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
27. PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
28. WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.
29. WHERE THE PIPE GRADE EXCEEDS 5%, TRENCHSTOPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WAT-1209 AND WAT-1210 AT THE SPACING OF 100/GRADE%.
ALTOGETHER STANDARD DRAWINGS CAN BE FOUND AT THE FOLLOWING ADDRESS:
https://askus.altogethergroup.com.au/hc/en-us/articles/90000487263-Standard-drawings-for-land-developers-

GENERAL NOTES:

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

CLEARANCES BETWEEN PIPELINES AND UNDERGROUND SERVICES

Table with 4 columns: UTILITY (EXISTING OR PROPOSED SERVICE), MINIMUM HORIZONTAL CLEARANCE (mm), MINIMUM VERTICAL CLEARANCE (mm), and sub-columns for NEW MAIN SIZE (≤ DN200, ≥ DN200). Rows include Water Mains, Gas Mains, Telecommunication Conduits, Electricity Conduits, Stormwater Drains, Sewers, and Kerbs.

NOTES:

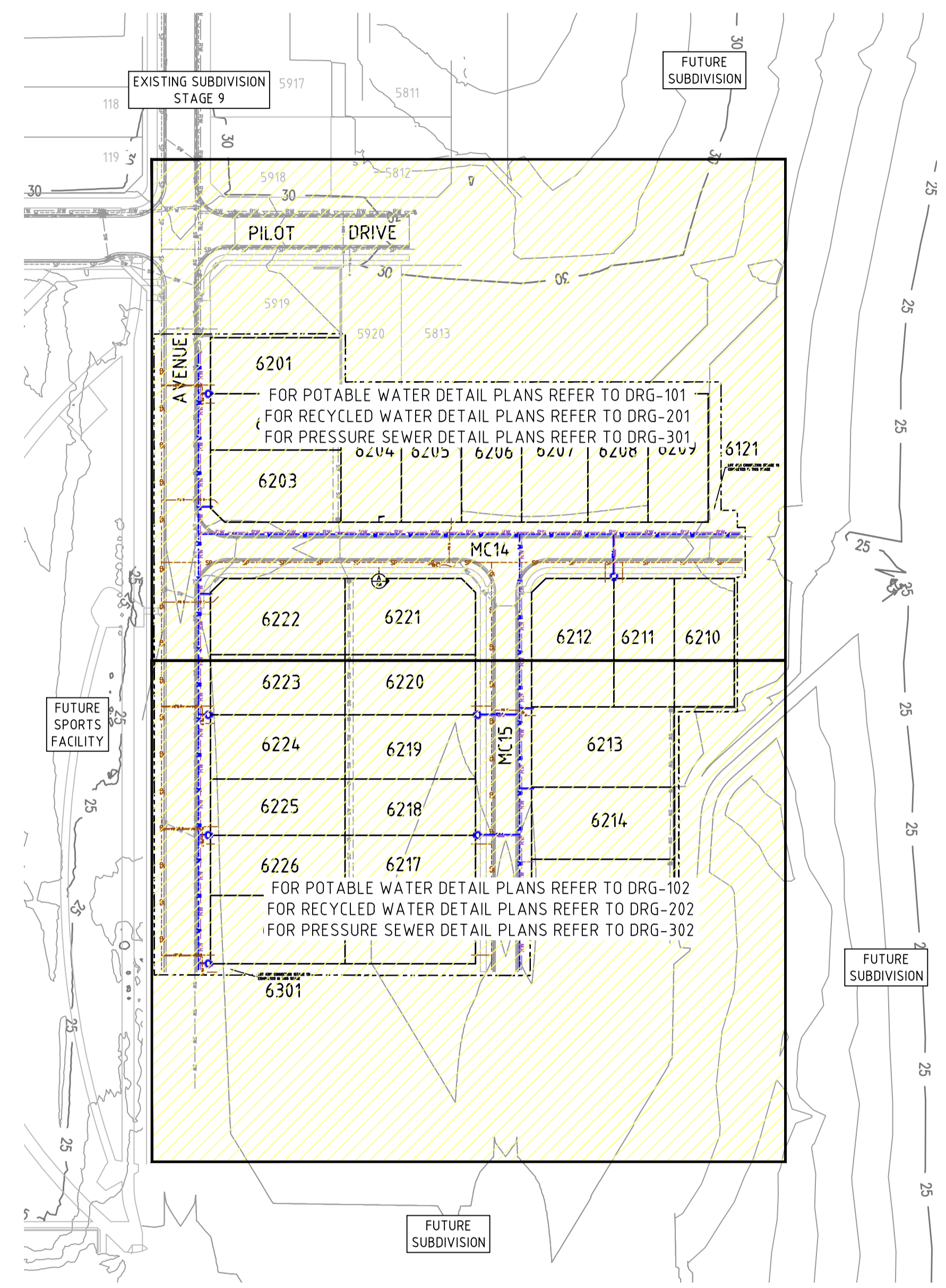
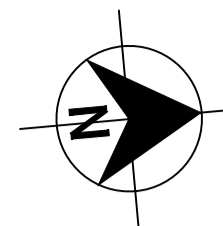
- 1. VERTICAL CLEARANCES APPLY WHERE PIPELINES CROSS OTHER UTILITY SERVICES, EXCEPT IN THE CASE OF WATER/SEWER MAINS WHEN A VERTICAL SEPARATION SHALL ALWAYS BE MAINTAINED.
2. WATER MAINS INCLUDES MAINS SUPPLYING BOTH POTABLE AND RECYCLED WATER.
3. FOR AREAS WITH EXISTING WATER RETICULATION, CLEARANCES CAN BE FURTHER REDUCED TO 600mm WITH THE APPROVAL OF THE WATER AUTHORITY.
4. CLEARANCES CAN BE FURTHER REDUCED TO 150mm FOR DISTANCES UP TO 2.0m WHEN PASSING INSTALLATIONS SUCH AS POLES, PITS, AND SMALL STRUCTURES.
5. CLEARANCES FROM KERBS SHALL BE MEASURED FROM THE NEAREST POINT OF THE KERB.
6. WHERE A PARALLEL SEWER IS AT MINIMUM VERTICAL CLEARANCE LOWER THAN THE WATER MAIN (500mm), MAINTAIN A MINIMUM HORIZONTAL OF 1000mm.
7. FOR PRESSURE SEWER LATERALS, MINIMUM VERTICAL CLEARANCES MAY BE REDUCED TO 150mm PROVIDING THERE IS NO JOINT IN THE LATERAL WITHIN 500mm OF EITHER SIDE OF THE SERVICE BEING CROSSED.
8. AN ADDITIONAL CLEARANCE FROM HIGH VOLTAGE ELECTRICAL INSTALLATIONS SHOULD BE MAINTAINED ABOVE THE CONDUITS OR CABLES TO ALLOW FOR A PROTECTIVE BARRIER AND MARKING TO BE PROVIDED.
9. WATER MAINS SHOULD ALWAYS CROSS OVER SEWERS AND STORMWATER DRAINS.
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: [Signature] Date: 11/07/2025
Name: Malcolm Harvey Position: Registered Surveyor



CONSTRUCTION ISSUE

Table with 5 main columns: REV., DATE, AMENDMENT, DRAWN/CHECK/DESIGN/VERIFY/SCALES, and CLIENT. Includes project details for WATAGAN PARK PROPOSED SUBDIVISION and Johnson Property Group logo.



PLAN
SCALE 1:1000
CONTOUR INTERVAL: 1m

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

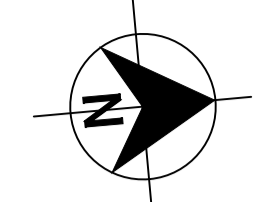
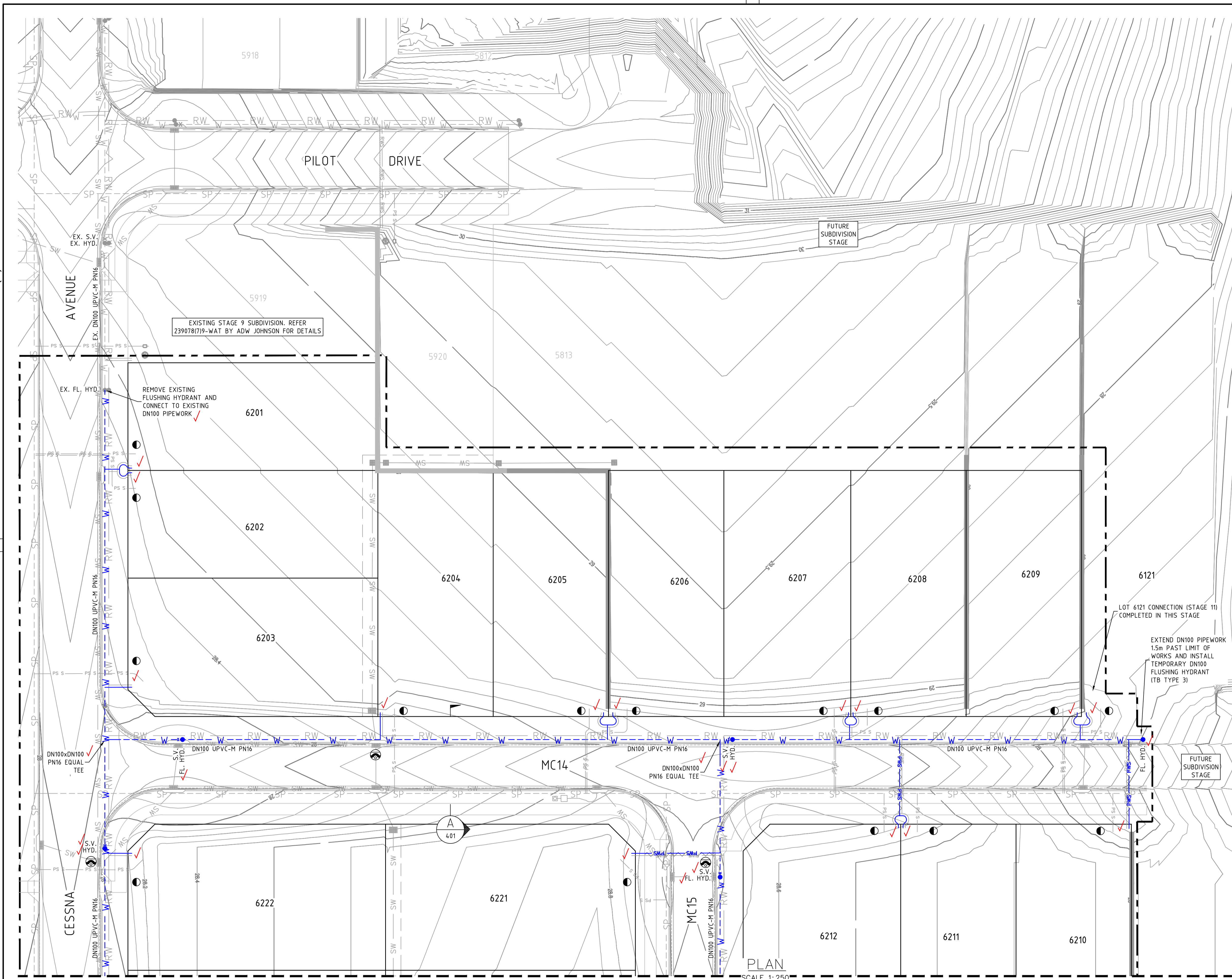


CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.	
A	22.11.2023	INITIAL ISSUE	G.S.	M.K.	M.K.	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	JOHNSON PROPERTY GROUP	WATAGAN PARK PROPOSED SUBDIVISION PRECINCT NORTH C & D - STAGE 12 LOT 82 DP1237780, 8 ROSENDAHL, COORANBONG DA/1451/2021/A	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	OVERALL SITE PLAN	239078(7)12 -	WAT -	003	0
B	15.08.2024	UPDATE STORMWATER NETWORK AND PST LOCATIONS	G.S.	M.K.	M.K.	L.G.											
C	26.08.2024	CLIENT COMMENTS	G.S.	M.K.	M.K.	L.G.											
D	27.08.2024	CLIENT COMMENTS	G.S.	M.K.	M.K.	L.G.											
E	28.08.2024	RELOCATE AIR-VALVE	G.S.	M.K.	M.K.	L.G.											
O	23.09.2024	CONSTRUCTION ISSUE	I.B.	M.K.	M.K.	L.G.											
DESIGN FILE N:\239078\239078(7)\DWG\Water & Sewer\WAT\Stage 12\X-239078(7)12-WAT-DESIGN.dwg								ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE.									
Plotted By: iainb Plot Date: 23/09/24 - 07:02 Cad File: C:\Temp\AcPublish_17584\239078(7)12-WAT-001.dwg																	

239078(7)12-WAT-102

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
	PE POTABLE WATER PROPERTY SERVICE CONDUIT FOR PROPERTY SERVICE LATERAL
	PVC-M RECYCLED WATER RETICULATION
	PE PRESSURE SEWER RETICULATION
	EXISTING POTABLE WATER RETICULATION
	EXISTING RECYCLED WATER RETICULATION
	EXISTING PRESSURE SEWER RETICULATION
	STORMWATER PIPEWORK
	S.V. STOP VALVE
	HYD. HYDRANT
	FL. HYD. FLUSHING HYDRANT
	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
	PROPERTY SERVICE CONNECTION
	PROPOSED EASEMENT
	LIMIT OF WORKS

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 29 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 6 x SHORT SIDE
 - 3 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 7 x SHORT SIDE
 - 3 x LONG SIDE

POTABLE WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	398

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 202.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 302.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-403.

CONTOUR INTERVAL: 0.1m

WORK-AS-EXECUTED
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Signed: Date: 11/07/2025
Name: Malcolm Harvey Position: Registered Surveyor



CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT
A	22.11.2023	INITIAL ISSUE
B	15.08.2024	UPDATE STORMWATER NETWORK AND PST LOCATIONS
C	26.08.2024	CLIENT COMMENTS
D	27.08.2024	CLIENT COMMENTS
E	28.08.2024	RELOCATE AIR-VALVE
O	23.09.2024	CONSTRUCTION ISSUE

DRAWN	CHECK	DESIGN	VERIFY
G.S.	M.K.	M.K.	L.G.
G.S.	M.K.	M.K.	L.G.
G.S.	M.K.	M.K.	L.G.
G.S.	M.K.	M.K.	L.G.
G.S.	M.K.	M.K.	L.G.
I.B.	M.K.	M.K.	L.G.

SCALES

0 5 10 A1 / A3
1:250 / 1:500

adw Johnson

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

JOHNSON PROPERTY GROUP

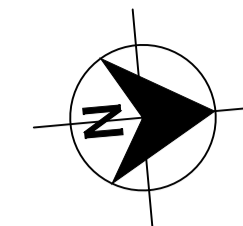
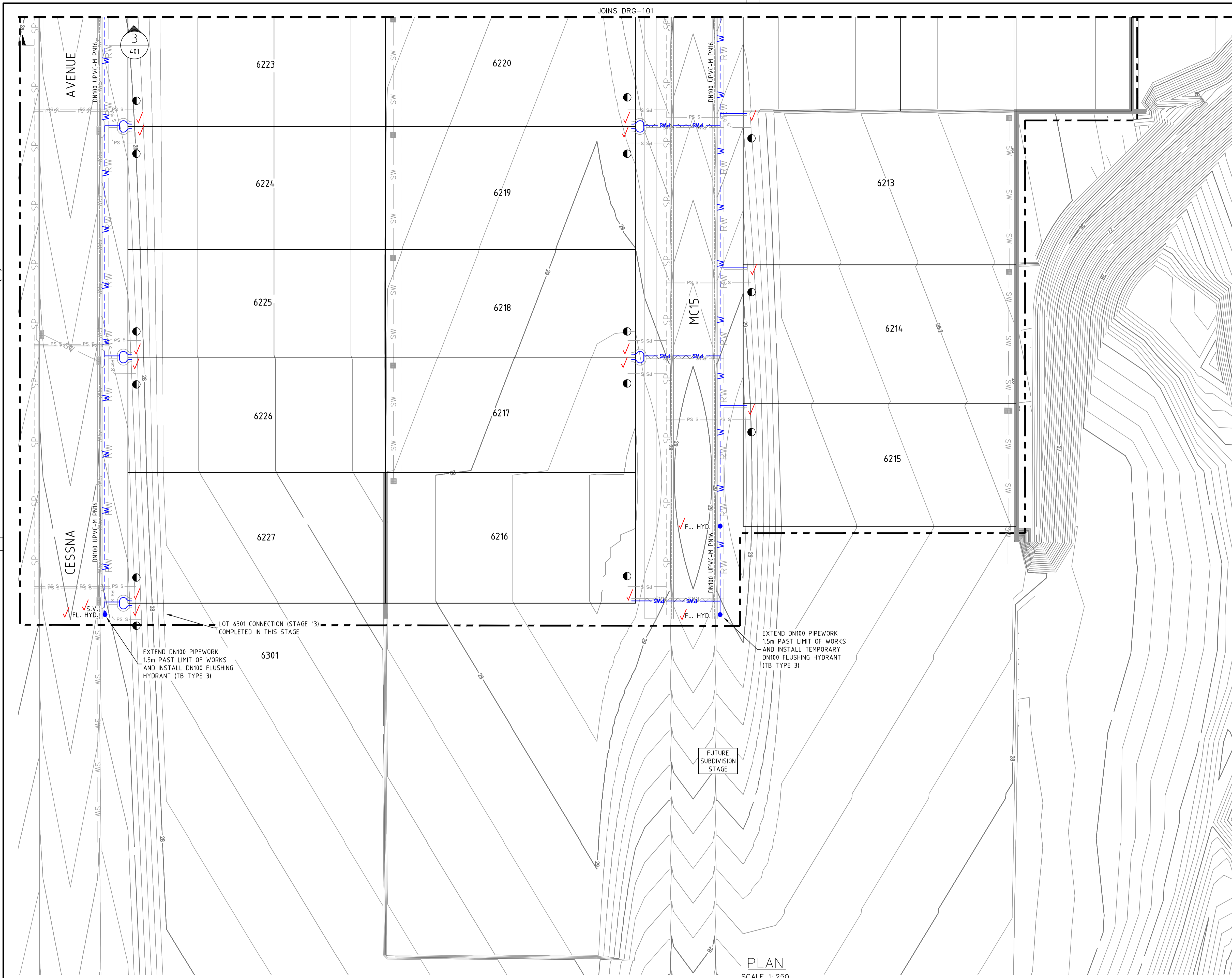
CLIENT

PROPERTY DESCRIPTION
WATAGAN PARK
PROPOSED SUBDIVISION
PRECINCT NORTH C & D - STAGE 12
LOT 82 DP1237780,
8 ROSENDAHL, COORANBONG
DA/1451/2021/A

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 1		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(7)12	WAT	101	0

239078(7)12-WAT-102

100mm AT FULL SIZE
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- LEGEND**
- W --- PVC-M POTABLE WATER RETICULATION
 - PWS --- PE POTABLE WATER PROPERTY SERVICE CONDUIT FOR PROPERTY SERVICE LATERAL
 - RW --- PVC-M RECYCLED WATER RETICULATION
 - SP --- PE PRESSURE SEWER RETICULATION
 - EX PW --- EXISTING POTABLE WATER RETICULATION
 - EX RW --- EXISTING RECYCLED WATER RETICULATION
 - EX PS --- EXISTING PRESSURE SEWER RETICULATION
 - SW --- STORMWATER PIPEWORK
 - S.V. STOP VALVE
 - HYD. HYDRANT
 - FL. HYD. FLUSHING HYDRANT
 - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPERTY SERVICE CONNECTION
 - PROPOSED EASEMENT
 - LIMIT OF WORKS

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 29 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 6 x SHORT SIDE
 - 3 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 7 x SHORT SIDE
 - 3 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	398

- NOTES:**
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 202.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 302.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-403.

CONTOUR INTERVAL: 0.1m

WORK-AS-EXECUTED
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Signed: Date: 11/07/2025
Name: Malcolm Harvey Position: Registered Surveyor



CONSTRUCTION ISSUE

PLAN
SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	22.11.2023	INITIAL ISSUE	G.S.	M.K.	M.K.	L.G.	
B	15.08.2024	UPDATE STORMWATER NETWORK AND PST LOCATIONS	G.S.	M.K.	M.K.	L.G.	
C	26.08.2024	CLIENT COMMENTS	G.S.	M.K.	M.K.	L.G.	
D	27.08.2024	CLIENT COMMENTS	G.S.	M.K.	M.K.	L.G.	
E	28.08.2024	RELOCATE AIR-VALVE	G.S.	M.K.	M.K.	L.G.	
O	23.09.2024	CONSTRUCTION ISSUE	I.B.	M.K.	M.K.	L.G.	

DRAWN	CHECK	DESIGN	VERIFY
G.S.	M.K.	M.K.	L.G.
G.S.	M.K.	M.K.	L.G.
G.S.	M.K.	M.K.	L.G.
G.S.	M.K.	M.K.	L.G.
G.S.	M.K.	M.K.	L.G.
I.B.	M.K.	M.K.	L.G.

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

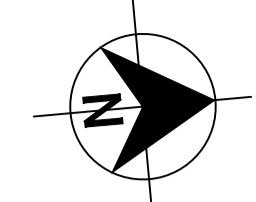
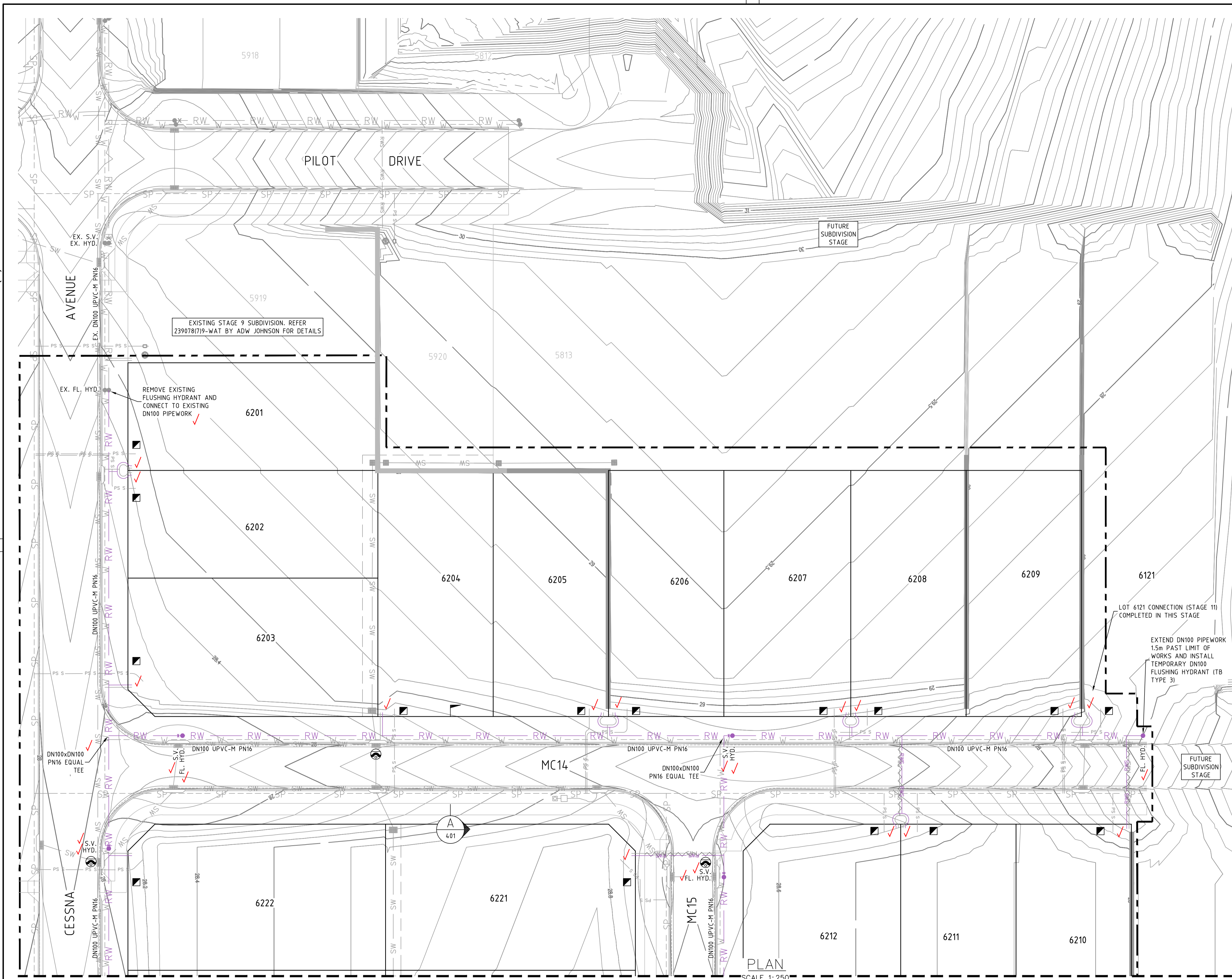
JOHNSON PROPERTY GROUP

PROPERTY DESCRIPTION
WATAGAN PARK
PROPOSED SUBDIVISION
PRECINCT NORTH C & D - STAGE 12
LOT 82 DP1237780,
8 ROSENDAHL, COORANBONG
DA/1451/2021/A

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 2		
PROJECT No.	239078(7)12	DISCIPLINE	WAT
NUMBER	102	REV.	0

239078(7)12-WAT-202

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**
- RW — PVC-M RECYCLED WATER RETICULATION
 - RWS — PE RECYCLED WATER PROPERTY SERVICE CONDUIT FOR PROPERTY LATERAL
 - W — PVC-M POTABLE WATER RETICULATION
 - SP — PE PRESSURE SEWER RETICULATION
 - EX PW — EXISTING POTABLE WATER RETICULATION
 - EX RW — EXISTING RECYCLED WATER RETICULATION
 - EX PS — EXISTING PRESSURE SEWER RETICULATION
 - SW — STORMWATER PIPEWORK
 - S.V. — STOP VALVE
 - HYD. — HYDRANT
 - FL. HYD. — FLUSHING HYDRANT
 - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPERTY SERVICE CONNECTION
 - PROPOSED EASEMENT
 - LIMIT OF WORKS

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 29 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 6 x SHORT SIDE
 - 3 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 7 x SHORT SIDE
 - 3 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	398

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 102.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 302.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-403.

CONTOUR INTERVAL: 0.1m

LOT 6121 CONNECTION (STAGE 11) COMPLETED IN THIS STAGE

EXTEND DN100 PIPEWORK 1.5m PAST LIMIT OF WORKS AND INSTALL TEMPORARY DN100 FLUSHING HYDRANT (TB TYPE 3)

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: 11/07/2025

Name: Malcolm Harvey Position: Registered Surveyor

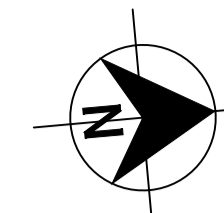
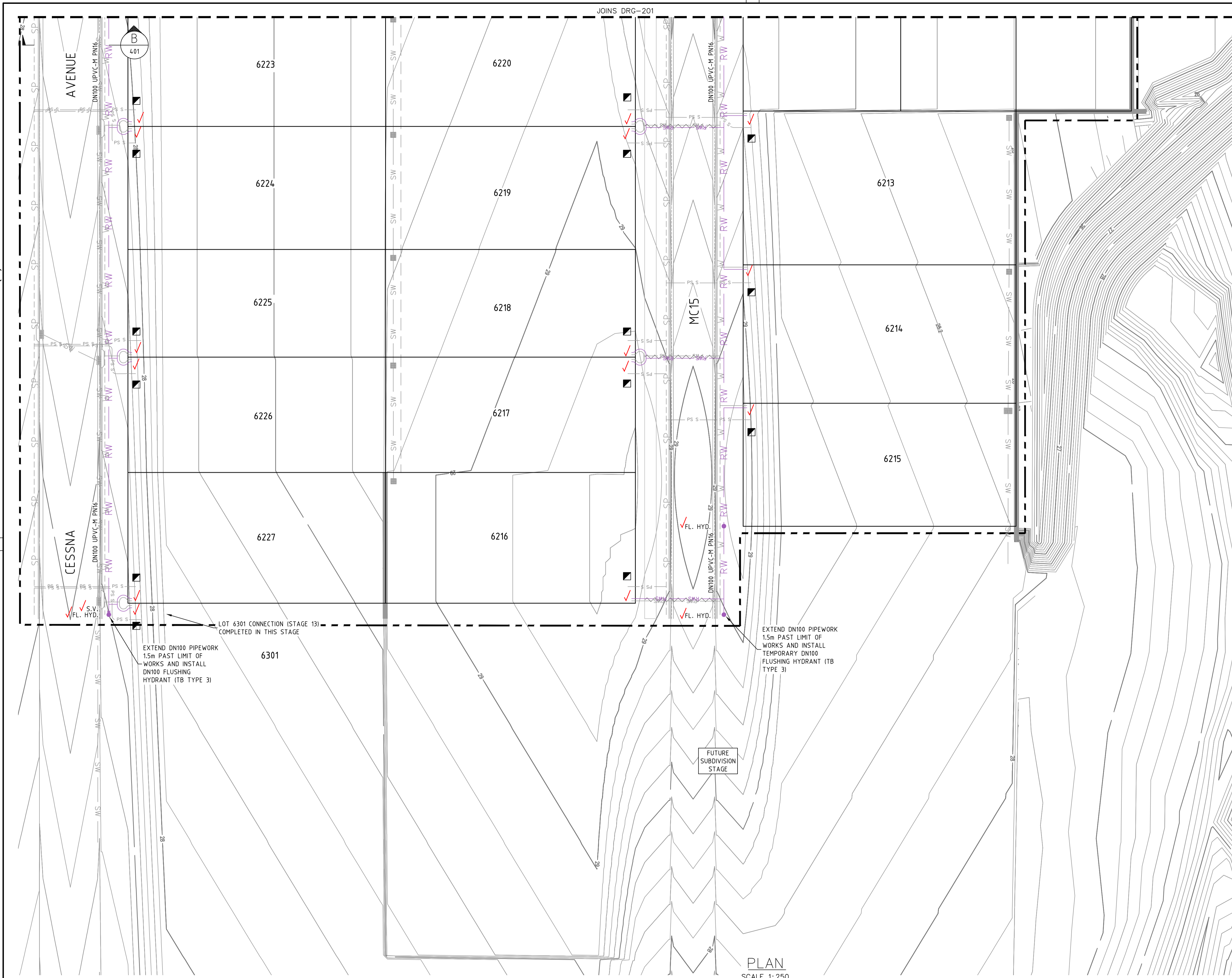


CONSTRUCTION ISSUE

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239078(7)12	WAT	201	0																																																														
<p>DESIGN FILE N:\239078\239078(7)\DWG\Water & Sewer\WAT\Stage 12\X-239078(7)12-WAT-DESIGN.dwg</p>		<p>ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE</p>		<p>Plotted By: iainb Plot Date: 23/09/24 - 07:03 Cad File: \\adw-svr4\adw-data\239078\239078(7)\DWG\Water & Sewer\WAT\Stage 12\X-239078(7)12-WAT-202.dwg</p>																																																													

239078(7)12-WAT-202

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

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 29 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 6 x SHORT SIDE
 - 3 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 7 x SHORT SIDE
 - 3 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	398

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 102.
 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 302.
 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-403.
- CONTOUR INTERVAL: 0.1m

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: 11/07/2025

Name: Malcolm Harvey Position: Registered Surveyor



CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	22.11.2023	INITIAL ISSUE	G.S.	M.K.	M.K.	L.G.	
B	15.08.2024	UPDATE STORMWATER NETWORK AND PST LOCATIONS	G.S.	M.K.	M.K.	L.G.	
C	26.08.2024	CLIENT COMMENTS	G.S.	M.K.	M.K.	L.G.	
D	27.08.2024	CLIENT COMMENTS	G.S.	M.K.	M.K.	L.G.	
E	28.08.2024	RELOCATE AIR-VALVE	G.S.	M.K.	M.K.	L.G.	
O	23.09.2024	CONSTRUCTION ISSUE	I.B.	M.K.	M.K.	L.G.	

DRAWN	CHECK	DESIGN	VERIFY	SCALES
G.S.	M.K.	M.K.	L.G.	
G.S.	M.K.	M.K.	L.G.	
G.S.	M.K.	M.K.	L.G.	
G.S.	M.K.	M.K.	L.G.	
G.S.	M.K.	M.K.	L.G.	
I.B.	M.K.	M.K.	L.G.	

adw Johnson

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ABN 62 129 445 398

CLIENT

JOHNSON PROPERTY GROUP

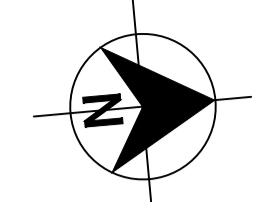
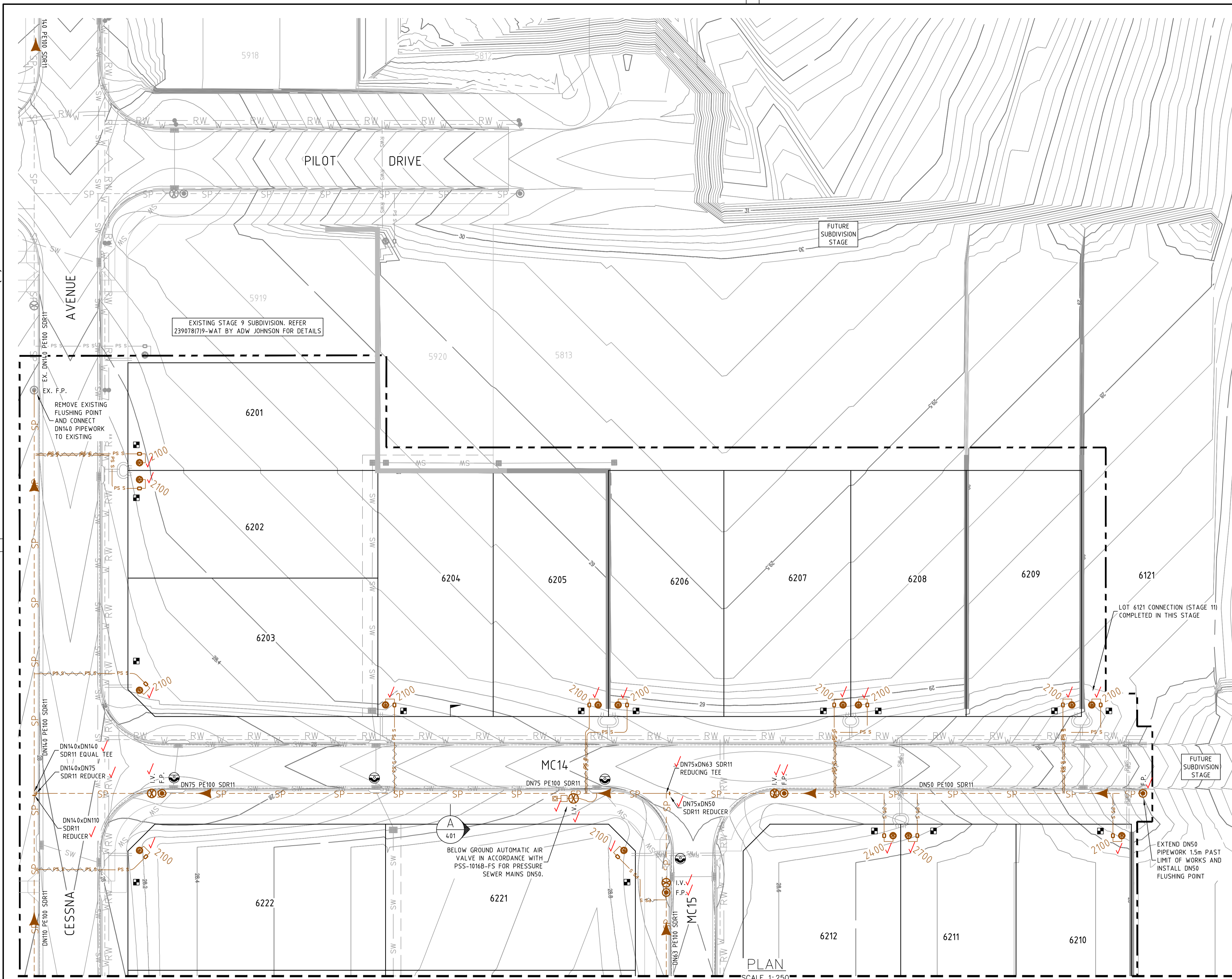
PROPERTY DESCRIPTION

WATAGAN PARK
PROPOSED SUBDIVISION
PRECINCT NORTH C & D - STAGE 12
LOT 82 DP1237780,
8 ROSENDAHL, COORANBONG
DA/1451/2021/A

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 2		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(7)12	WAT	202	0

239078(7)12-WAT-302

100mm AT FULL SIZE
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- LEGEND**
- SP PE PRESSURE SEWER RETICULATION
 - PS S PE PROPERTY SERVICE LATERAL
 - CONDUIT FOR PROPERTY SERVICE LATERAL
 - W PVC-M POTABLE WATER RETICULATION
 - RW PVC-M RECYCLED WATER RETICULATION
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - SW STORMWATER PIPEWORK
 - I.V. ISOLATION VALVE
 - I.V. (N.C.) ISOLATION VALVE - NORMALLY CLOSED
 - F.P. FLUSHING POINT
 - BOUNDARY KIT
 - PRESSURE SEWER FLOW DIRECTION (ULTIMATE)
 - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPERTY SERVICE CONNECTION - STD CONNECTION
 - PROPOSED EASEMENT
 - LIMIT OF WORKS

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**
 TOTAL 29 CONNECTIONS (INC. 2 IN ADJOINING STAGES)
- SINGLE SERVICES
 - 9 x SHORT SIDE
 - 20 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN140	PE100 SDR11	53
DN110	PE100 SDR11	102
DN75	PE100 SDR11	82
DN63	PE100 SDR11	85
DN50	PE100 SDR11	79

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 102.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 202.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-403.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
 - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
 - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIA.
 - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS, (FABRICATED BENDS SHALL NOT BE USED).

CONTOUR INTERVAL: 0.1m

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: 11/07/2025
 Name: Malcolm Harvey Position: Registered Surveyor

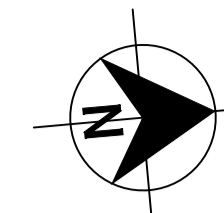
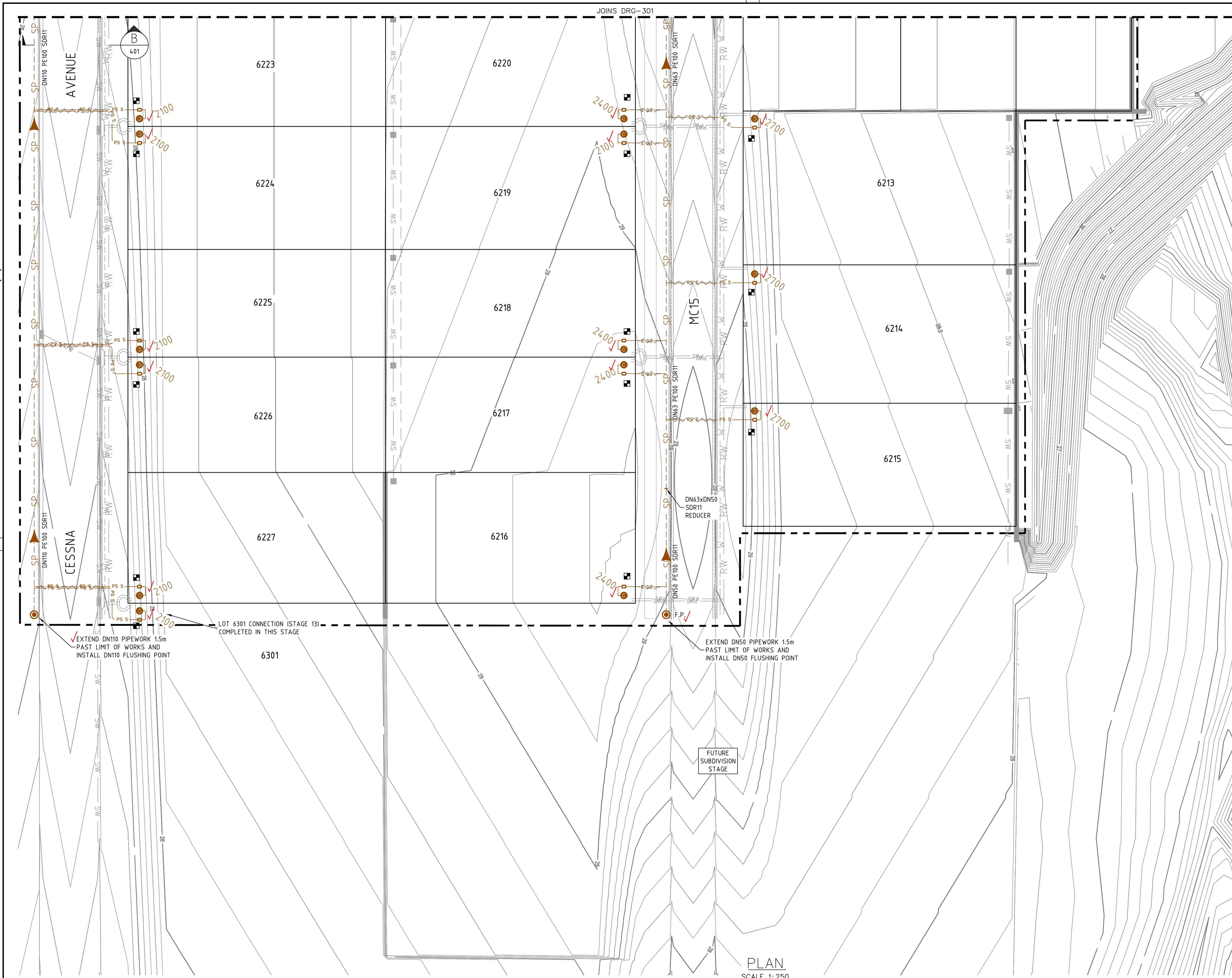


CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	22.11.2023	INITIAL ISSUE	G.S.	M.K.	M.K.	L.G.	0 5 10 A1 / A3								
B	15.08.2024	UPDATE STORMWATER NETWORK AND PST LOCATIONS	G.S.	M.K.	M.K.	L.G.	1:250 / 1:500								
C	26.08.2024	CLIENT COMMENTS	G.S.	M.K.	M.K.	L.G.									
D	27.08.2024	CLIENT COMMENTS	G.S.	M.K.	M.K.	L.G.									
E	28.08.2024	RELOCATE AIR-VALVE	G.S.	M.K.	M.K.	L.G.									
O	23.09.2024	CONSTRUCTION ISSUE	I.B.	M.K.	M.K.	L.G.									

239078(7)12-WAT-302

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- LEGEND**
- SP PE PRESSURE SEWER RETICULATION
 - PS S PE PROPERTY SERVICE LATERAL
 - CONDUIT FOR PROPERTY SERVICE LATERAL
 - W PVC-M POTABLE WATER RETICULATION
 - RW PVC-M RECYCLED WATER RETICULATION
 - EX PS EXISTING PRESSURE SEWER RETICULATION
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 - I.V. ISOLATION VALVE
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 - F.P. FLUSHING POINT
 - BOUNDARY KIT
 - PRESSURE SEWER FLOW DIRECTION (ULTIMATE)
 - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPERTY SERVICE CONNECTION - STD CONNECTION
 - PROPOSED EASEMENT
 - LIMIT OF WORKS

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**
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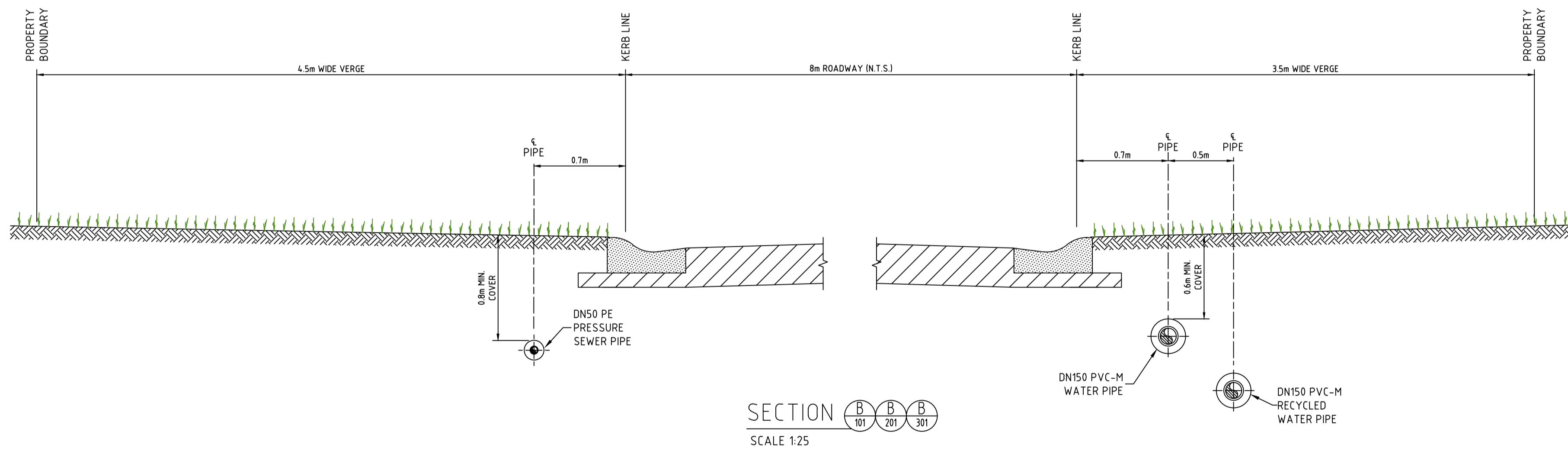
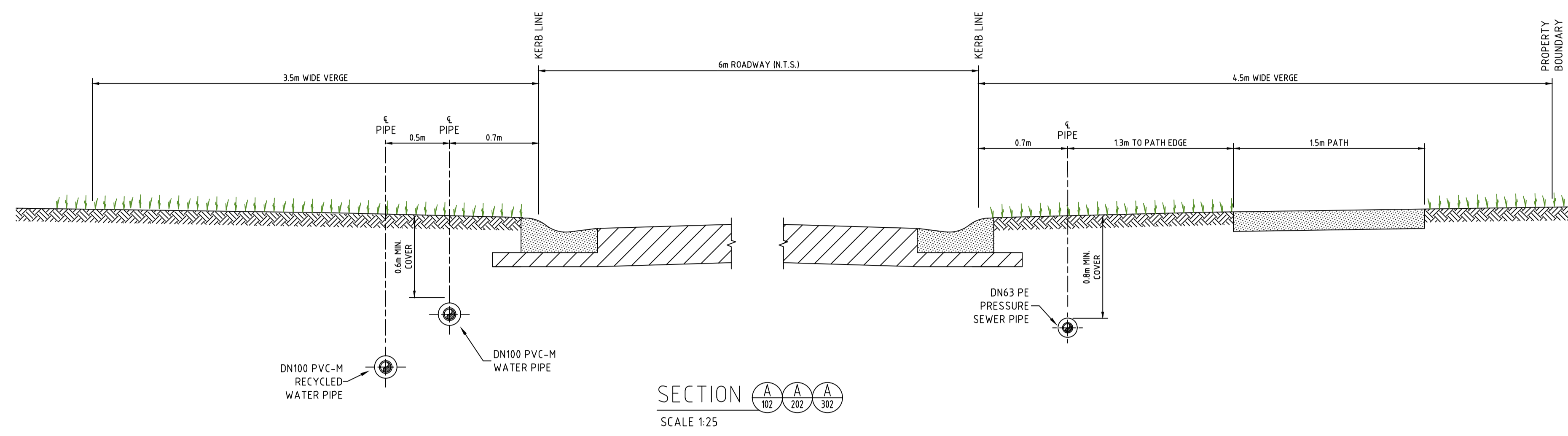
- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 102.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 202.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-493.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
 - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
 - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIA.
 - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
- CONTOUR INTERVAL: 0.1m

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: 11/07/2025
 Name: Malcolm Harvey Position: Registered Surveyor



CONSTRUCTION ISSUE

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E	28.08.2024	RELOCATE AIR-VALVE	G.S.	M.K.	M.K.	L.G.																																																										
O	23.09.2024	CONSTRUCTION ISSUE	I.B.	M.K.	M.K.	L.G.																																																										
PROJECT No.	DISCIPLINE	NUMBER	REV.																																																													
239078(7)12	WAT	302	0																																																													

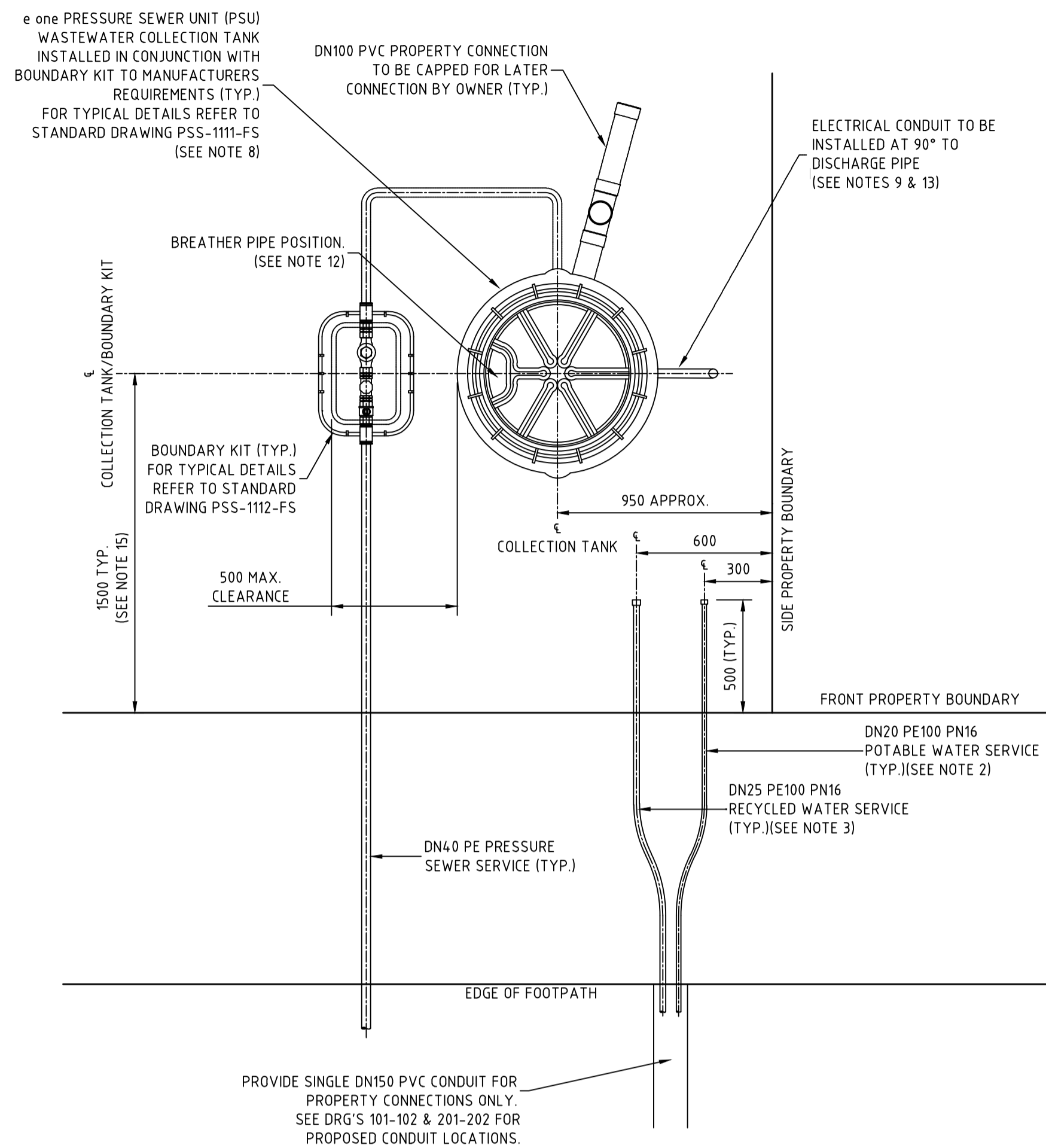


WORK-AS-EXECUTED
I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
Signed: *[Signature]* Date: 11/07/2025
Name: Malcolm Harvey Position: Registered Surveyor



CONSTRUCTION ISSUE

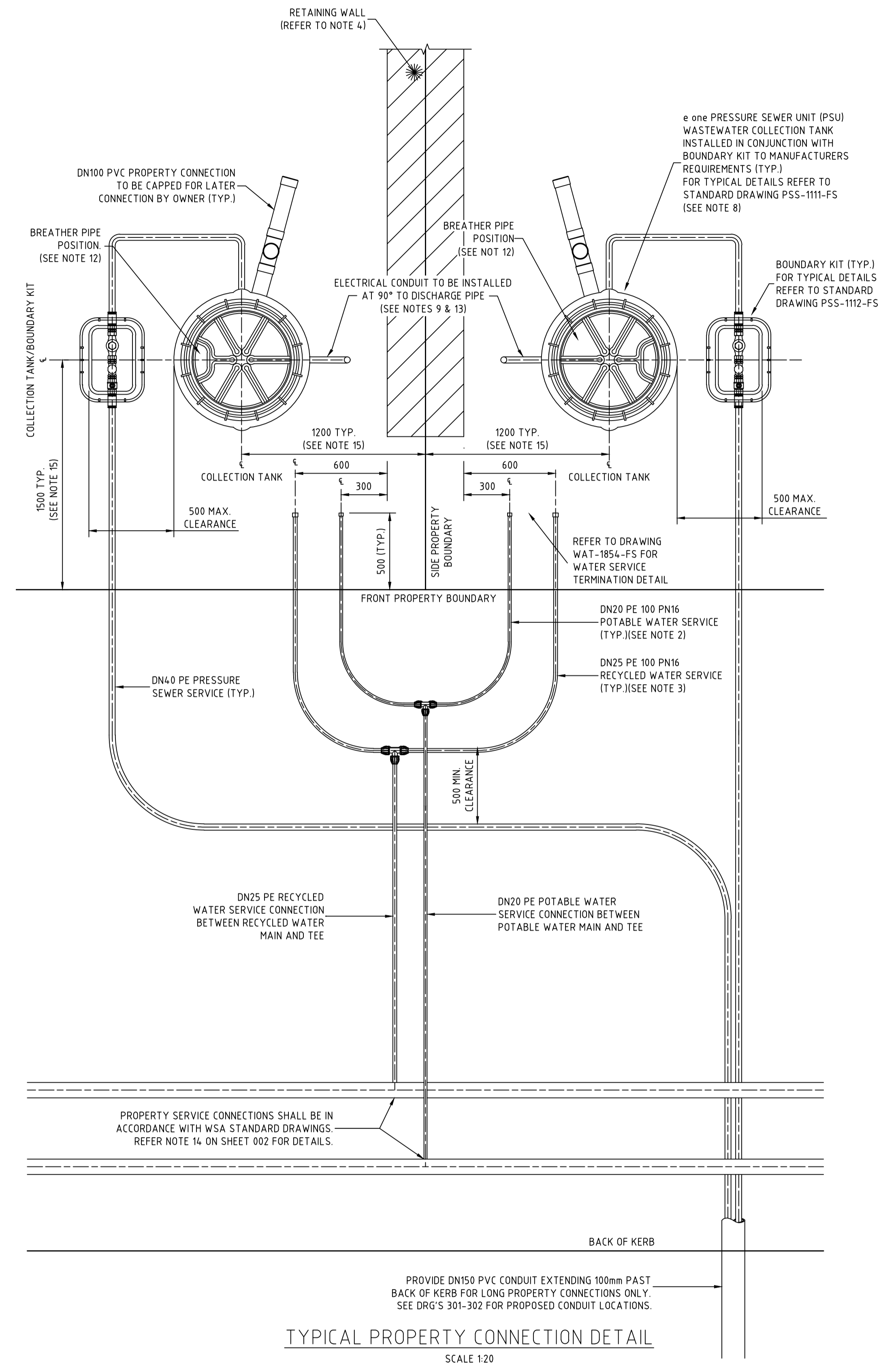
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION		PROJECT			
A	22.11.2023	INITIAL ISSUE	G.S.	M.K.	M.K.	L.G.			Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		WATAGAN PARK PROPOSED SUBDIVISION		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
B	15.08.2024	UPDATE STORMWATER NETWORK AND PST LOCATIONS	G.S.	M.K.	M.K.	L.G.					PRECINCT NORTH C & D - STAGE 12		PLAN TITLE		
C	26.08.2024	CLIENT COMMENTS	G.S.	M.K.	M.K.	L.G.					LOT 82 DP1237780,		TYPICAL CROSS SCCTIONS: A & B		
D	27.08.2024	CLIENT COMMENTS	G.S.	M.K.	M.K.	L.G.					8 ROSENDAHL, COORANBONG		PROJECT No.		
E	28.08.2024	RELOCATE AIR-VALVE	G.S.	M.K.	M.K.	L.G.					DA/1451/2021/A		DISCIPLINE		
O	23.09.2024	CONSTRUCTION ISSUE	I.B.	M.K.	M.K.	L.G.					SURVEYED		NUMBER		
DESIGN FILE N:\239078\239078(7)\DWG\Water & Sewer\WAT\Stage 12\X-239078(7)12-WAT-DESIGN.dwg								ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE		ADW Johnson		GDA94 M.G.A. ZONE 56 A.H.D.		239078(7)12 - WAT - 401	
Plotted By: iainb Plot Date: 23/09/24 - 07:03 Cad File: \\adw-svr4\adw-data\239078\239078(7)\DWG\Water & Sewer\WAT\Stage 12\239078(7)12-WAT-403.dwg										A.H.D.		REV.		0	



TYPICAL PROPERTY CONNECTION DETAIL
THROUGH COMMON CONDUIT
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. 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 (CONDUIT AT 90° FROM DISCHARGE PIPE) 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.
- CONTRACTOR TO INSTALL DN150 CONDUIT FOR FUTURE POTABLE AND RECYCLED WATER SINGLE SERVICE PROPERTY CONNECTIONS, WHERE SHOWN.
- THE WATER AUTHORITY MAY GRANT DISPENSATION FOR ALTERNATE TANK OFFSETS SUBJECT TO FORMAL REQUEST AND APPROVAL.



TYPICAL PROPERTY CONNECTION DETAIL
SCALE 1:20

WORK-AS-EXECUTED
I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
Signed: *M. Harvey* Date: 11/07/2025
Name: Malcolm Harvey Position: Registered Surveyor



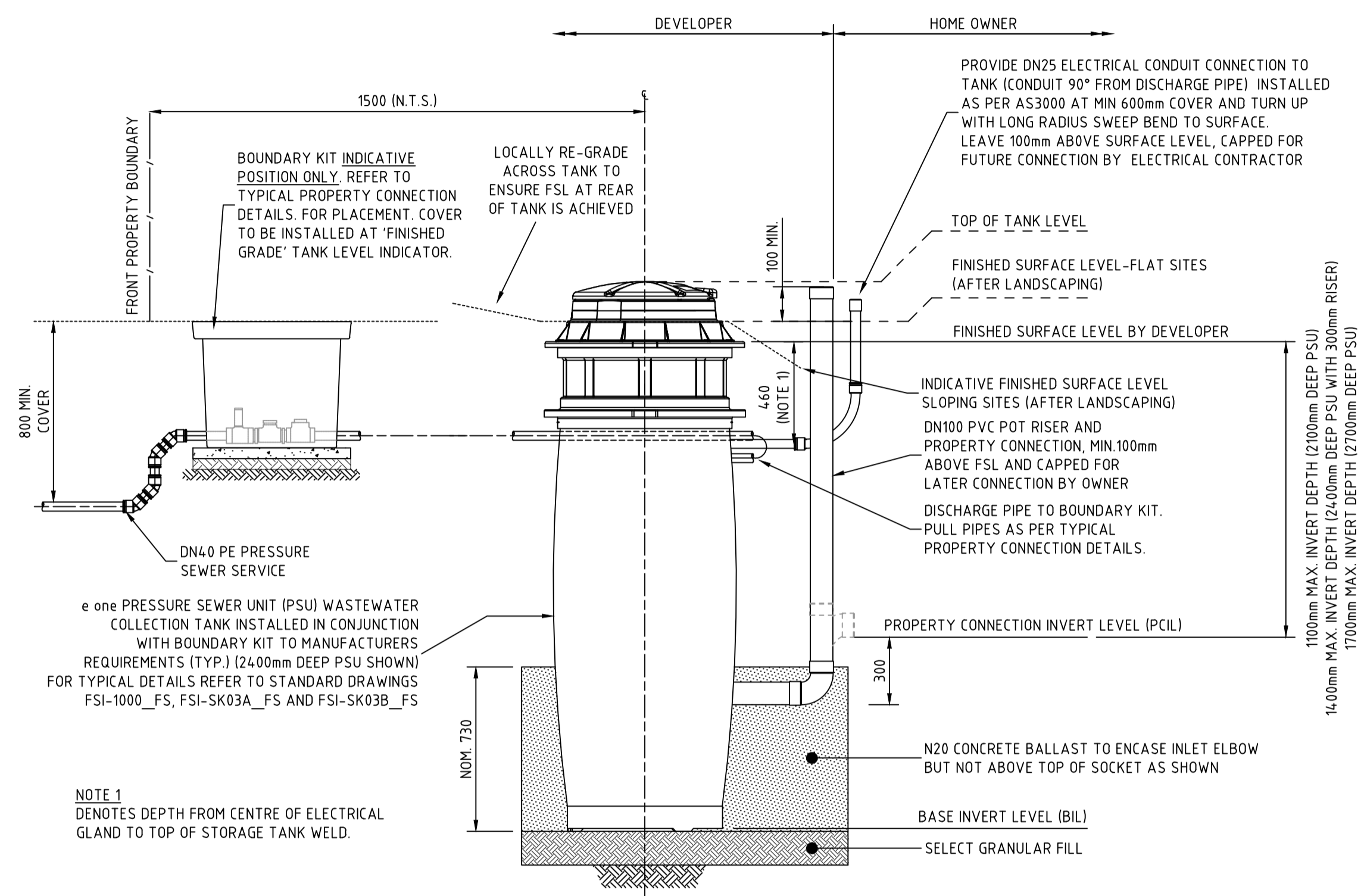
CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	22.11.2023	INITIAL ISSUE	G.S.	M.K.	M.K.	L.G.	0 0.4 0.8 A1 / A3	Hunter Office	WATAGAN PARK PROPOSED SUBDIVISION	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	TYPICAL PROPERTY CONNECTION DETAILS	239078(7)12	WAT	403	0
B	15.08.2024	UPDATE STORMWATER NETWORK AND PST LOCATIONS	G.S.	M.K.	M.K.	L.G.	1:20 / 1:40	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohanson.com.au www.adwjohanson.com.au ABN 62 129 445 398	PRECINCT NORTH C & D - STAGE 12 LOT 82 DP1237780, 8 ROSENDAHL, COORANBONG DA/1451/2021/A						
C	26.08.2024	CLIENT COMMENTS	G.S.	M.K.	M.K.	L.G.									
D	27.08.2024	CLIENT COMMENTS	G.S.	M.K.	M.K.	L.G.									
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O	23.09.2024	CONSTRUCTION ISSUE	I.B.	M.K.	M.K.	L.G.									

WASTEWATER COLLECTION TANK DETAILS

LOT NUMBER	TOP OF TANK	TANK FSL	BASE IL	CONNECTION IL	TANK HEIGHT	TANK LOCATION	EASTING	NORTHING
6201	28.74	28.46	26.61	27.36	2100	FRONT	356538.52	6341275.03
6202	28.72	28.44	26.59	27.34	2100	FRONT	356540.70	6341274.83
6203	28.49	28.21	26.36	27.11	2100	FRONT	356567.99	6341272.34
6204	28.73	28.45	26.60	27.35	2100	FRONT	356572.79	6341304.04
6205	29.00	28.72	26.87	27.62	2100	FRONT	356575.30	6341331.58
6206	29.14	28.86	27.01	27.76	2100	FRONT BATTER	356575.53	6341334.17
6207	29.21	28.93	27.08	27.83	2100	FRONT BATTER	356578.18	6341363.29
6208	29.18	28.90	27.05	27.80	2100	FRONT BATTER	356578.37	6341365.29
6209	28.45	28.17	26.32	27.07	2100	FRONT BATTER	356580.88	6341392.92
6210	28.15	27.87	26.02	26.77	2100	FRONT BATTER	356598.40	6341397.85
6211	28.91	28.63	26.18	26.93	2700	FRONT BATTER	356595.89	6341370.22
6212	28.89	28.61	26.46	27.21	2400	FRONT BATTER	356595.70	6341368.23
6213	28.93	28.65	26.20	26.95	2700	FRONT BATTER	356625.44	6341347.45
6214	29.08	28.80	26.35	27.10	2700	FRONT BATTER	356645.55	6341345.59
6215	29.21	28.93	26.48	27.23	2700	FRONT BATTER	356663.29	6341344.00
6216	29.42	29.14	26.99	27.74	2400	FRONT	356685.65	6341324.90
6217	29.42	29.14	26.99	27.74	2400	FRONT	356655.77	6341327.62
6218	29.40	29.12	26.97	27.72	2400	FRONT	356653.78	6341327.80
6219	29.19	28.91	27.06	27.81	2100	FRONT BATTER	356625.89	6341330.34
6220	29.16	28.88	26.73	27.48	2400	FRONT BATTER	356623.90	6341330.52
6221	28.98	28.70	26.85	27.60	2100	FRONT BATTER	356594.44	6341333.20
6222	28.46	28.18	26.33	27.08	2100	FRONT BATTER	356588.73	6341270.46
6223	28.34	28.06	26.21	26.96	2100	FRONT BATTER	356618.19	6341267.78
6224	28.33	28.05	26.20	26.95	2100	FRONT BATTER	356620.18	6341267.59
6225	28.22	27.94	26.09	26.84	2100	FRONT BATTER	356648.07	6341265.06
6226	28.21	27.93	26.08	26.83	2100	FRONT BATTER	356650.06	6341264.88
6227	28.06	27.78	25.93	26.68	2100	FRONT BATTER	356679.94	6341262.16
ADJOINING STAGES	6301	28.05	27.77	25.92	2100	FRONT BATTER	356681.93	6341261.98
	6121	28.09	27.81	25.96	2100	FRONT	356581.12	6341395.51

LOT No.	EASTING	NORTHING	TOP OF TANK RL
6201	356538.53	6341275.04	28.66
6202	356540.69	6341274.88	28.67
6203	356568.00	6341272.42	28.44
6204	356572.83	6341304.02	28.70
6205	356575.24	6341331.64	28.93
6206	356575.60	6341334.18	29.07
6207	356578.15	6341363.30	29.18
6208	356578.37	6341365.29	29.13
6209	356580.91	6341392.86	28.40
6210	356598.42	6341397.92	27.93
6211	356596.04	6341370.18	28.82
6212	356595.72	6341368.19	28.83
6213	356625.57	6341347.51	28.96
6214	356645.63	6341345.59	29.11
6215	356663.25	6341344.00	29.39
6216	356685.58	6341325.03	29.48
6217	356655.79	6341327.66	29.45
6218	356653.83	6341327.91	29.41
6219	356625.87	6341330.31	29.19
6220	356623.91	6341330.48	29.15
6221	356594.47	6341333.19	28.92
6222	356588.78	6341270.46	28.48
6223	356618.26	6341267.70	28.32
6224	356620.20	6341267.54	28.32
6225	356648.02	6341265.12	28.27
6226	356650.07	6341264.90	28.21
6227	356679.96	6341262.17	28.08
6301	356681.84	6341261.95	28.03
6121	356581.14	6341395.47	28.03



PRESSURE SEWER SERVICE CONNECTION
TYPICAL SECTIONAL ELEVATION
SCALE 1:20

WASTEWATER COLLECTION TANK COUNT

TANK SIZE	NUMBER OF
2100	20
2400	5
2700	4

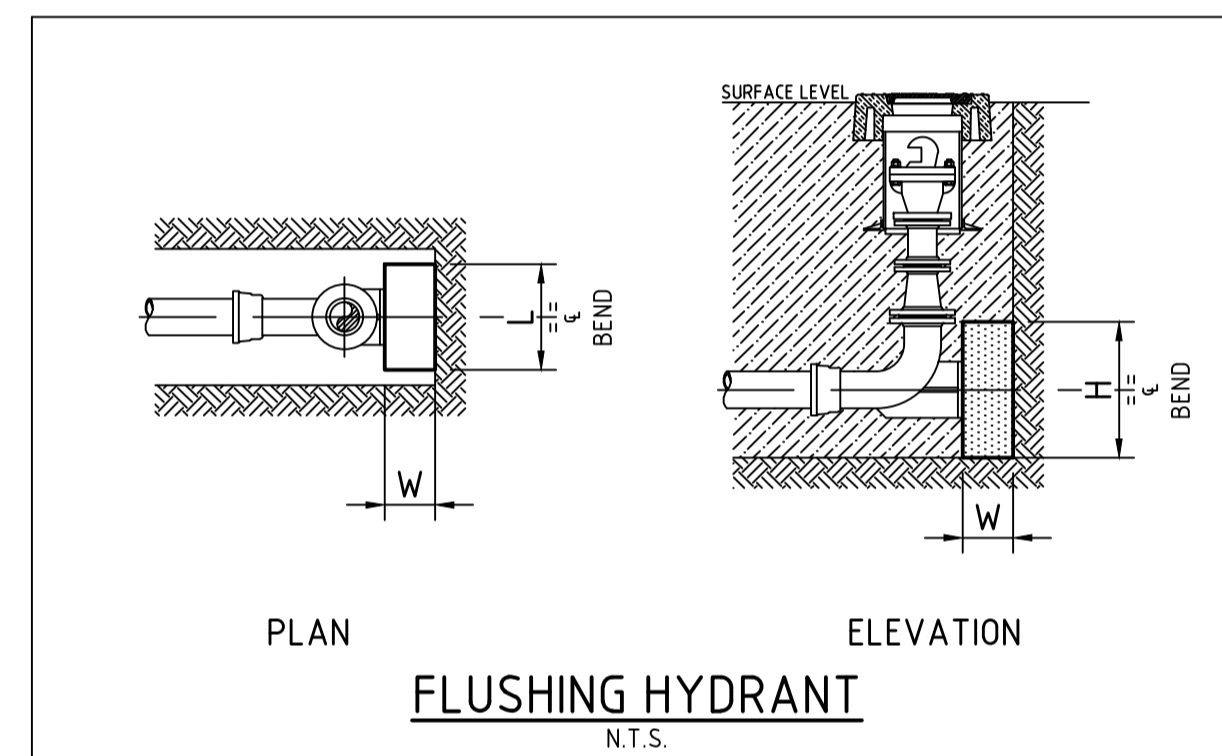
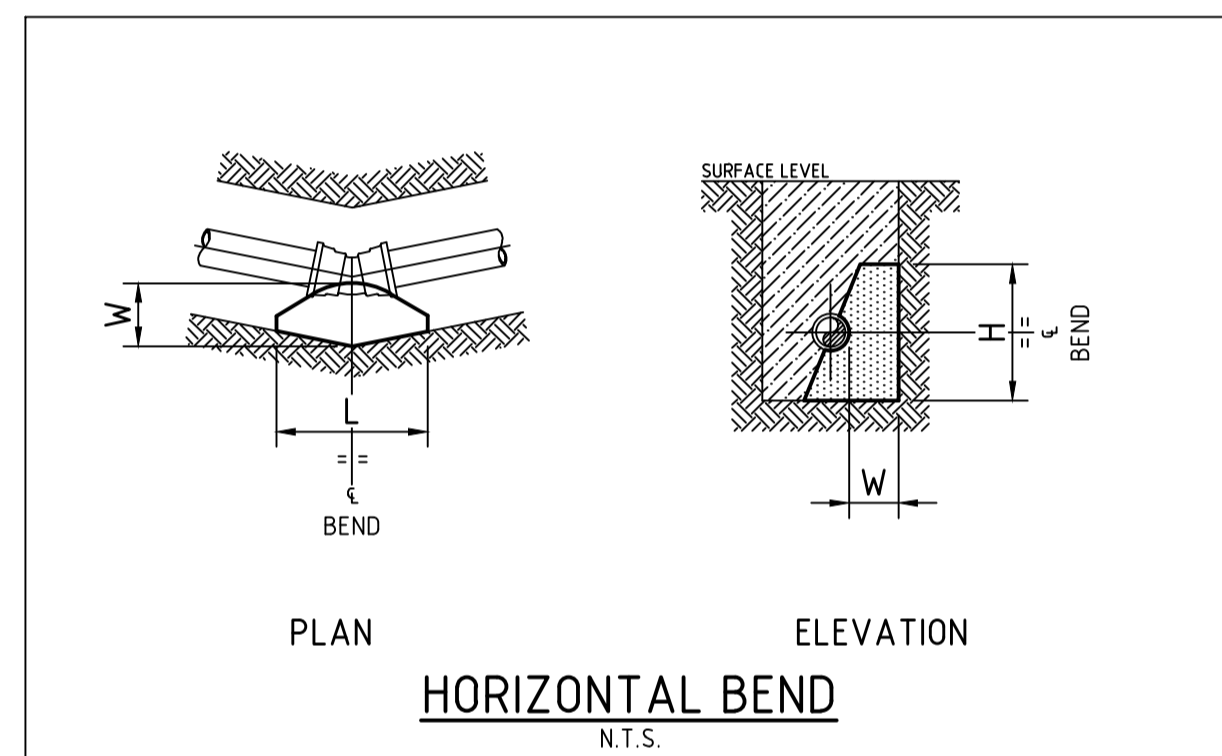
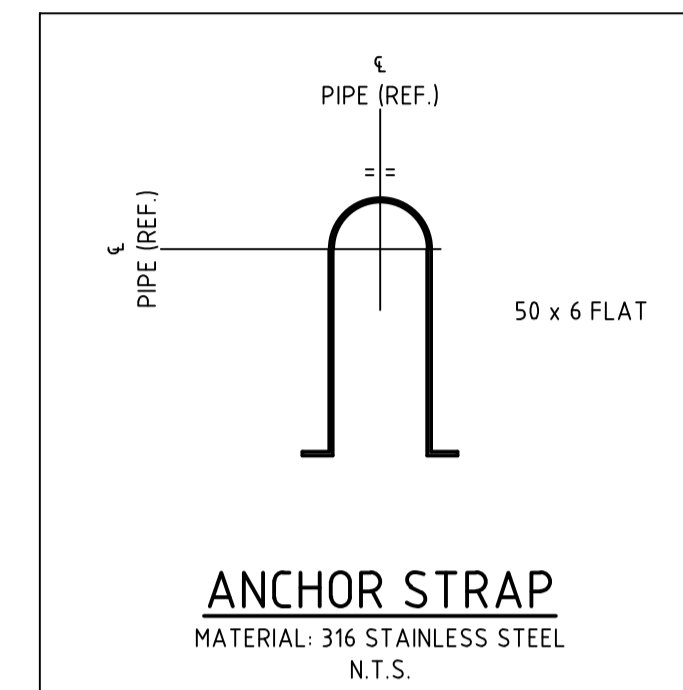
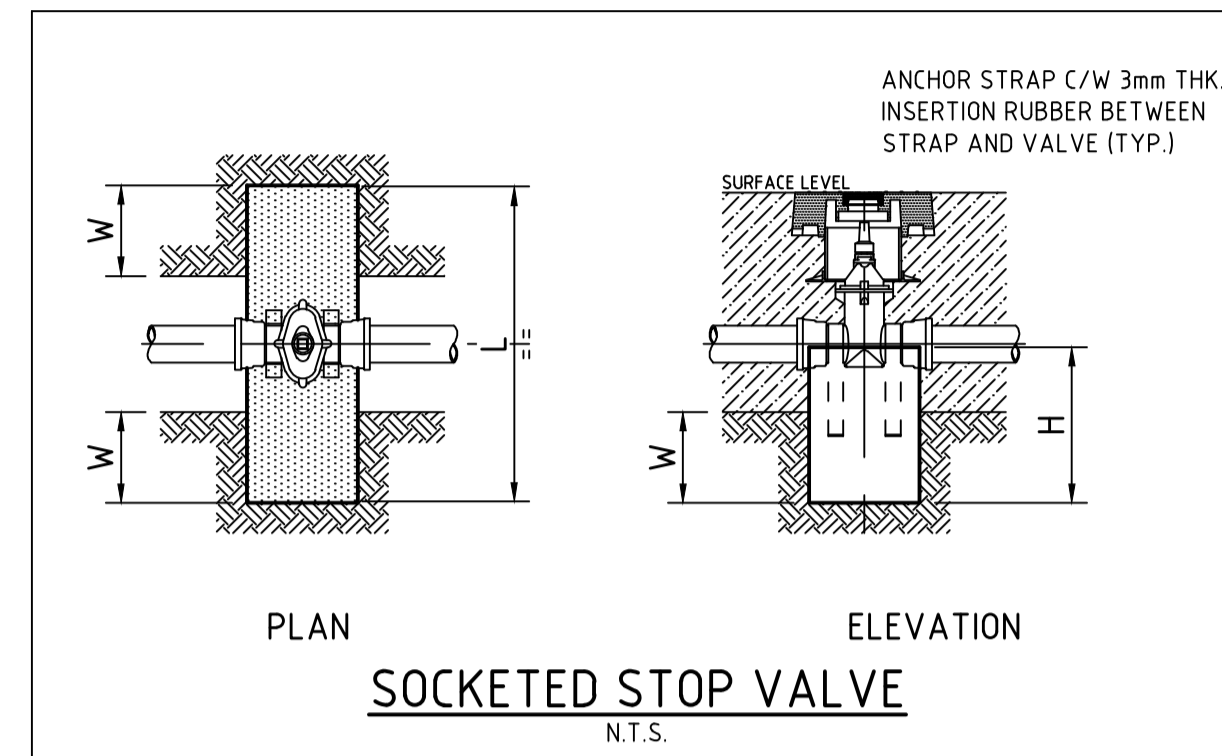
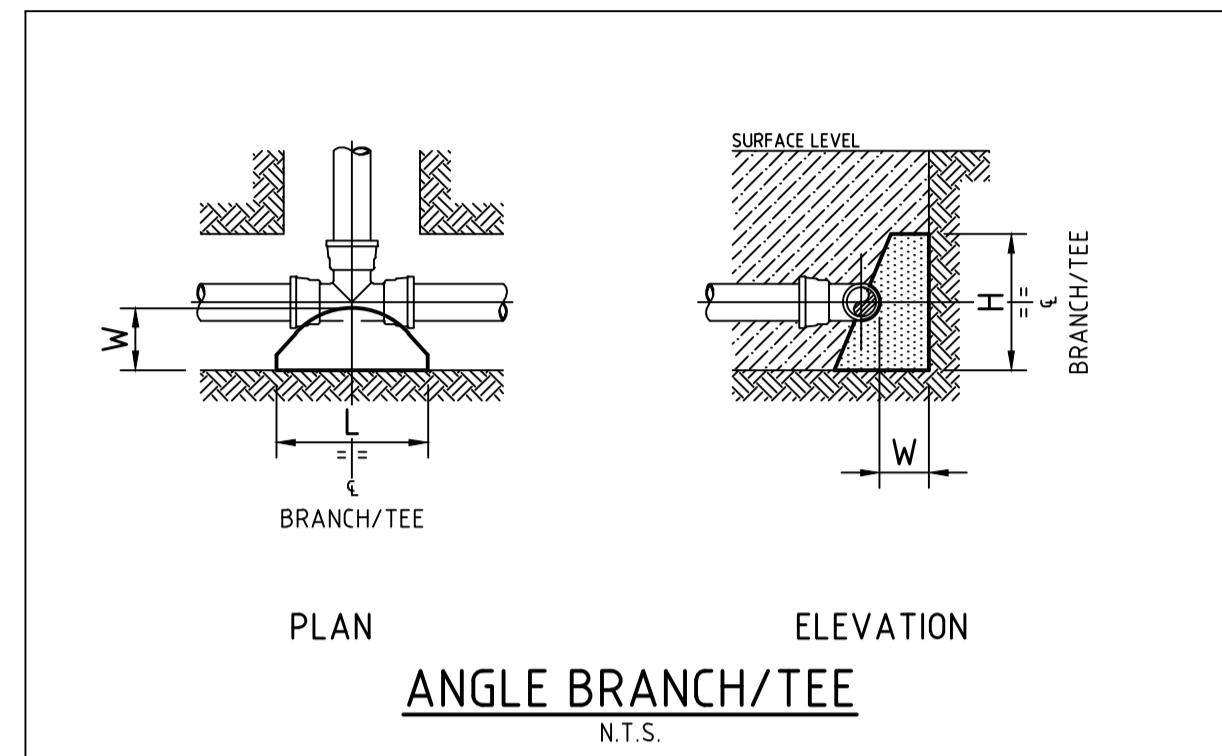
WORK-AS-EXECUTED
I certify that with the exception of the changes marked in RED, the work has been constructed in accordance with this drawing.
Signed: *M. Harvey* Date: 11/07/2025
Name: Malcolm Harvey Position: Registered Surveyor



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>22.11.2023</td> <td>INITIAL ISSUE</td> <td>G.S.</td> <td>M.K.</td> <td>M.K.</td> <td>L.G.</td> <td>0 0.4 0.8 A1 / A3</td> </tr> <tr> <td>B</td> <td>15.08.2024</td> <td>UPDATE STORMWATER NETWORK AND PST LOCATIONS</td> <td>G.S.</td> <td>M.K.</td> <td>M.K.</td> <td>L.G.</td> <td>1:20 / 1:40</td> </tr> <tr> <td>C</td> <td>26.08.2024</td> <td>CLIENT COMMENTS</td> <td>G.S.</td> <td>M.K.</td> <td>M.K.</td> <td>L.G.</td> <td></td> </tr> <tr> <td>D</td> <td>27.08.2024</td> <td>CLIENT COMMENTS</td> <td>G.S.</td> <td>M.K.</td> <td>M.K.</td> <td>L.G.</td> <td></td> </tr> <tr> <td>E</td> <td>28.08.2024</td> <td>RELOCATE AIR-VALVE</td> <td>G.S.</td> <td>M.K.</td> <td>M.K.</td> <td>L.G.</td> <td></td> </tr> <tr> <td>O</td> <td>23.09.2024</td> <td>CONSTRUCTION ISSUE</td> <td>I.B.</td> <td>M.K.</td> <td>M.K.</td> <td>L.G.</td> <td></td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	22.11.2023	INITIAL ISSUE	G.S.	M.K.	M.K.	L.G.	0 0.4 0.8 A1 / A3	B	15.08.2024	UPDATE STORMWATER NETWORK AND PST LOCATIONS	G.S.	M.K.	M.K.	L.G.	1:20 / 1:40	C	26.08.2024	CLIENT COMMENTS	G.S.	M.K.	M.K.	L.G.		D	27.08.2024	CLIENT COMMENTS	G.S.	M.K.	M.K.	L.G.		E	28.08.2024	RELOCATE AIR-VALVE	G.S.	M.K.	M.K.	L.G.		O	23.09.2024	CONSTRUCTION ISSUE	I.B.	M.K.	M.K.	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>JOHNSON PROPERTY GROUP</p>	<p>CLIENT</p>	<p>PROPERTY DESCRIPTION WATAGAN PARK PROPOSED SUBDIVISION PRECINCT NORTH C & D - STAGE 12 LOT 82 DP1237780, 8 ROSENDAHL, COORANBONG DA/1451/2021/A</p>	<p>PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>PLAN TITLE WASTE WATER COLLECTION TANK LEVEL DETAILS</p>	<p>SURVEYED ADW Johnson</p>	<p>DATUM GDA94 M.G.A. ZONE 56</p>	<p>A.H.D.</p>	<p>PROJECT No. 239078(7)12</p>	<p>DISCIPLINE WAT</p>	<p>NUMBER 404</p>	<p>REV. 0</p>
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES																																																														
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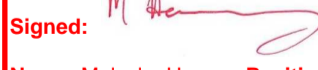
100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.



TYPE	FITTING	Soil AHP (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
4	DN100 END CAP	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: 11/07/2025
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	22.11.2023	INITIAL ISSUE	G.S.	M.K.	M.K.	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	WATAGAN PARK PROPOSED SUBDIVISION PRECINCT NORTH C & D - STAGE 12 LOT 82 DP1237780, 8 ROSENDAHL, COORANBONG DA/1451/2021/A	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	THRUST BLOCK DETAILS	ADW Johnson	GDA94 M.G.A. ZONE 56 A.H.D.	239078(7)12	WAT	405	0