

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 02/06/2021 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY ADW Johnson Pty Ltd	COMPANY
NAME MATHEW DAVID LONDON	NAME
SIGNED <i>matheW</i> DATE 07/06/2021	SIGNED DATE ____/____/____
REGISTERED SURVEYOR	CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM	20029	Co-Ord System: MGA Ground
E:	345 612.914	MGA Datum: GDA94
N:	6 382 878.917	MGA Zone: 56
RL:	77.675m	

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 07/06/2021

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <div>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</div>	CLIENT <div>Huntlee + Water</div>	PROPERTY DESCRIPTION PROPOSED SUBDIVISION STAGE 21 FERRY PARADE, HUNTLEE	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
	PLAN TITLE		COVER SHEET, LOCALITY PLAN & DRAWING INDEX											
	SURVEYED		DATUM		PROJECT No.	DISCIPLINE	NUMBER				REV.			
	ADW Johnson		A.H.D.		240037(21)	WAC	001				2			
2	07.06.2021	PRELIMINARY ISSUE CLIENT COMMENTS FLOW SYSTEMS COMMENTS FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE CHECK UPDATED CONTOURS WORK AS CONSTRUCTED	T.S. J.N. T.S. J.N. T.S. I.B.	J.N. T.S. J.N. T.S. J.N. T.S.	T.S. J.N. T.S. J.N. T.S. T.S.	C.B. J.N. C.B. C.B. C.B. C.B.								
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE							

240037(21)-WAC-003

100mm AT FULL SIZE

100mm AT FULL SIZE

PRESSURE SEWER NOTES:

1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA, PRESSURE SEWERAGE CODE OF AUSTRALIA – WSA 07-2007 VERSION 1.1 AND POLYETHYLENE PIPELINE CODE WSA 01-2004.
2. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS. BUTT FUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE GEORG FISCHER PIPING SYSTEMS BUTT FUSION PRODUCT RANGE. ELECTROFUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE PLASSON “POLYETHYLENE PIPING SYSTEMS” PRODUCT RANGE.
3. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
4. PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007 AND ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA.
5. ALL POLYETHYLENE MAINS ≤ DN200 SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ALL POLYETHYLENE MAINS ≥ DN200 SHALL BE JOINED USING BUTTWELD JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
6. MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. 600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER AND WATER MAINS. MINIMUM PIPE COVER SHALL BE 800mm IN FOOTWAYS AND 1000mm IN ROADWAYS. MAXIMUM PIPE COVER SHALL GENERALLY BE 1500mm. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL PRESSURE SEWER AND RECYCLED WATER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
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 HUNTLEE WATER REPRESENTATIVE).
9. ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSAA PRODUCT SPECIFICATION WSA-PS350 AND WSA-PS351.
10. ALL BENDS SHALL BE ELECTROFUSION OR BUTT WELD SWEEP BENDS. FABRICATED BENDS SHALL NOT BE USED IN LIEU. KNUCKLE ELBOWS ARE NOT PERMITTED.
11. MINIMUM BENDING RADIUS FOR PN16 PE100 (SDR11) SHALL BE 20 x DN. (i.e. DN400 : R8.0m, DN250 : R5.0m, DN200 : R4.0m, DN160 : R3.2m, DN125 : R2.5m, DN90 : R1.8m, DN75 : R1.5m, DN63 : R1.3m, DN50 : R1.0m, DN40 : R0.8m).
12. ALL HOUSE SERVICE LATERALS SHALL BE DN40 (PE100 PN16).
13. FLUSHING PITS SHALL CONFORM WITH ALTOGETHER STANDARD DRAWINGS. REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION. SMALL MAINS (< DN110) http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017A-FS.pdf LARGE MAINS (> DN110) http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017B-FS.pdf
14. LOCALISED DEEPENING OF MAINS MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION. THE CONTRACTOR SHALL ENSURE THAT THE AIR VALVE OFFTAKE IS LOCATED AT A HIGH POINT (NATURAL OR ARTIFICIAL) IN THE MAIN (i.e. MAIN SHALL GRADE DOWNWARDS EITHER SIDE OF THE AIR VALVE).
15. DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
16. ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
17. DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
18. 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.
19. ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 07-2007 VERSION 1.1.
20. FOR LOTS WITH TANKS IN THE REAR, 1 x ø25mm INSTRUMENTATION CONDUIT (ORANGE) AND 1 x ø25mm ELECTRICAL CONDUIT (ORANGE)(WITH DRAW WIRES) SHALL BE INSTALLED FROM THE COLLECTION TANK TO WATER METERS. THE CONDUITS SHALL BE LAID IN A COMMON TRENCH WITH THE SEWERAGE AND MAINTAIN A MINIMUM HORIZONTAL CLEARANCE OF 400mm. (REFER TO ALTOGETHER STANDARD DRAWINGS FOR SETOUT DIMENSIONS).
21. THE CONSTRUCTOR SHALL PROVIDE HUNTLEE WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE HUNTLEE WATER REPRESENTATIVE.
22. UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
23. PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
24. BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE HUNTLEE WATER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
25. 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.
26. BOUNDARY KITS (COMPLETE) SHALL BE NOV SUPPLIED (NOV PSS-BK4). e one COLLECTION TANK (ESD 20-0032/ESD 20-0033) SHALL BE INSTALLED WITH BOUNDARY KIT (REFER ALTOGETHER STANDARD DRAWINGS PSS-1112-FS AND PSS-1113-FS). PUMP TO BE INSTALLED BY OTHERS.
27. ALL MAINS (UP TO THE BOUNDARY KIT) SHALL BE PRESSURE TESTED TO 1600 kPa. ALL LINES FROM THE WASTEWATER COLLECTION TANK TO THE MANUAL ISOLATION VALVE WITHIN THE BOUNDARY KIT TO BE PRESSURE TESTED TO 1000kPa.
28. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
29. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO HUNTLEE WATER 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.

POTABLE WATER AND RECYCLED WATER NOTES:

1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA AND WSA 03-2011-3.1 (SYDNEY WATER EDITION 2014).
2. POTABLE WATER SHALL BE UTILISED FOR FIRE FIGHTING PURPOSES.
3. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, SHALL CONFORM TO THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.
4. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF 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. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. 600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER AND WATER MAINS. MINIMUM PIPE COVER SHALL BE 600mm IN FOOTWAYS (TYPE B EMBEDMENT: WAT-1202-V) AND 800mm IN ROADWAYS (TYPE L EMBEDMENT: WAT-1204-V). MAXIMUM PIPE COVER SHALL GENERALLY BE 1500mm. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL RECYCLED WATER MAINS AND PRESSURE SEWER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
7. ALL POTABLE WATERMAINS TO BE BLUE PVC-M (PN16). ALL RECYCLED WATERMAINS SHALL BE LILAC PVC-M (PN16). DIFFERENTIATION OF POTABLE AND RECYCLED WATER SYSTEMS SHALL BE AS PER TABLE 4.1 WSA03-2011 WITH BOTH SERVICES BEING CLASSIFIED AS 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.
8. MAXIMUM JOINT DEFLECTIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
9. LOCALLY LOWER PIPEWORK IN VICINITY OF STOP VALVES TO ENSURE SUFFICIENT COVER IS MAINTAINED OVER VALVES. LOWERING OF PIPEWORK SHALL BE ACHIEVED OVER A NUMBER OF PIPE LENGTHS EITHER SIDE OF VALVES TO ELIMINATE ANY SHARP DEFLECTIONS.
10. ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSAA PRODUCT SPECIFICATION PS-350, 368 AND 369. GEOTECHNICAL CONDITIONS SHOULD BE ASSESSED DURING CONSTRUCTION BY THE CONTRACTOR IN ASSOCIATION WITH THE HUNTLEE WATER REPRESENTATIVE TO DETERMINE THE NEED TO MODIFY EMBEDMENT/TRENCHFILL TYPE AND THE NED FOR TRENCH DRAINAGE/BULKHEADS.
11. DURING CONSTRUCTION, ALL OPEN ENDS OF PIPES SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
12. HYDRANTS, STOP VALVES AND ALL OTHER FITTINGS TO BE THE SAME SIZE AS THE THROUGH WATER MAIN AND ANTI CLOCKWISE CLOSING.
13. HYDRANTS MUST NOT BE INSTALLED IN POTENTIAL DRIVEWAY LOCATIONS. HYDRANTS AND WATER SERVICES SHALL BE NOMINALLY AT LEAST 5.0m FROM EACH BOUNDARY OR ON BOUNDARIES. WHERE POSSIBLE, FITTINGS SHALL BE LOCATED BEHIND KERB INLET PITS.
14. THRUST BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH WAT-1205.
15. ALL PROPERTY (MAIN TO METER) SERVICE CONNECTIONS SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH ALTOGETHER REQUIREMENTS. REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION. SINGLE SERVICE: http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1854-FS.pdf DUAL SERVICE: http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1855-FS.pdf
16. PROPERTY SERVICE CONNECTION IS SHALL BE FLUSHED AND LOCKED (BY THE HUNTLEE WATER 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. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE HUNTLEE WATER REPRESENTATIVE.
22. UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
23. PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
24. BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE HUNTLEE WATER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
25. MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY WSA03-2011 (SYDNEY WATER EDITION 2014) (CLAUSE 19.3.5) : TRAFFICABLE PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING. NON-TRAFFICABLE PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900MM OF FILL AND EACH 100 LINEAL METERS OF PIPE. PROPERTY SERVICES TEST 1 OF EVERY 5 PROPERTY SERVICE TRENCHES. TESTING SHALL BE IN ACCORDANCE WITH TABLE 16.1 AND 17.1 OF THE WATER SUPPLY CODE OF AUSTRALIA.
26. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO HUNTLEE WATER 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%. WHERE PIPE GRADES EXCEED 15%, CONCRETE BULKHEADS WILL BE CONSTRUCTED AT SPACING AS PER TABLE 7.5 OF WSA03-2001 SYDNEY WATER EDITION 2014.

ALTOGETHER STANDARD DRAWINGS CAN BE FOUND AT THE FOLLOWING ADDRESS:
<https://askus.altogethergroup.com.au/hc/en-us/articles/900004827263-Standard-drawings-for-land-developers->

GENERAL NOTES:

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

CLEARANCES BETWEEN PIPELINES AND UNDERGROUND SERVICES

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

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

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COMPANY	ADWJohnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED	<i>Matthew</i>	DATE	07/06/2021
	REGISTERED SURVEYOR	SIGNED	
		DATE/...../.....
			CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM	20029	Co-Ord System	MGA Ground
E:	345 612. 914		MGA Datum
N:	6 382 878. 917		GD94
RL:	77.675m		MGA Zone: 56

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd

Date Approved:07/06/2021

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <div>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</div>		CLIENT	PROPERTY DESCRIPTION PROPOSED SUBDIVISION STAGE 21 FERRY PARADE, HUNTLEE	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION											
PLAN TITLE																							
GENERAL NOTES																							
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COMPANYADW Johnson Pty Ltd

NAMEMATHEW DAVID LONDON

SIGNED*Matthew David London*

REGISTERED SURVEYOR

COMPANY

NAME

SIGNED

DATE07/06/2021

SIGNED

DATE

CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM20029

E345 612.914

N6 382 878.917

RL77.675m

Co-Ord System: MGA Ground

MGA Datum: GDA94

MGA Zone: 56

APPROVED FOR CONSTRUCTION

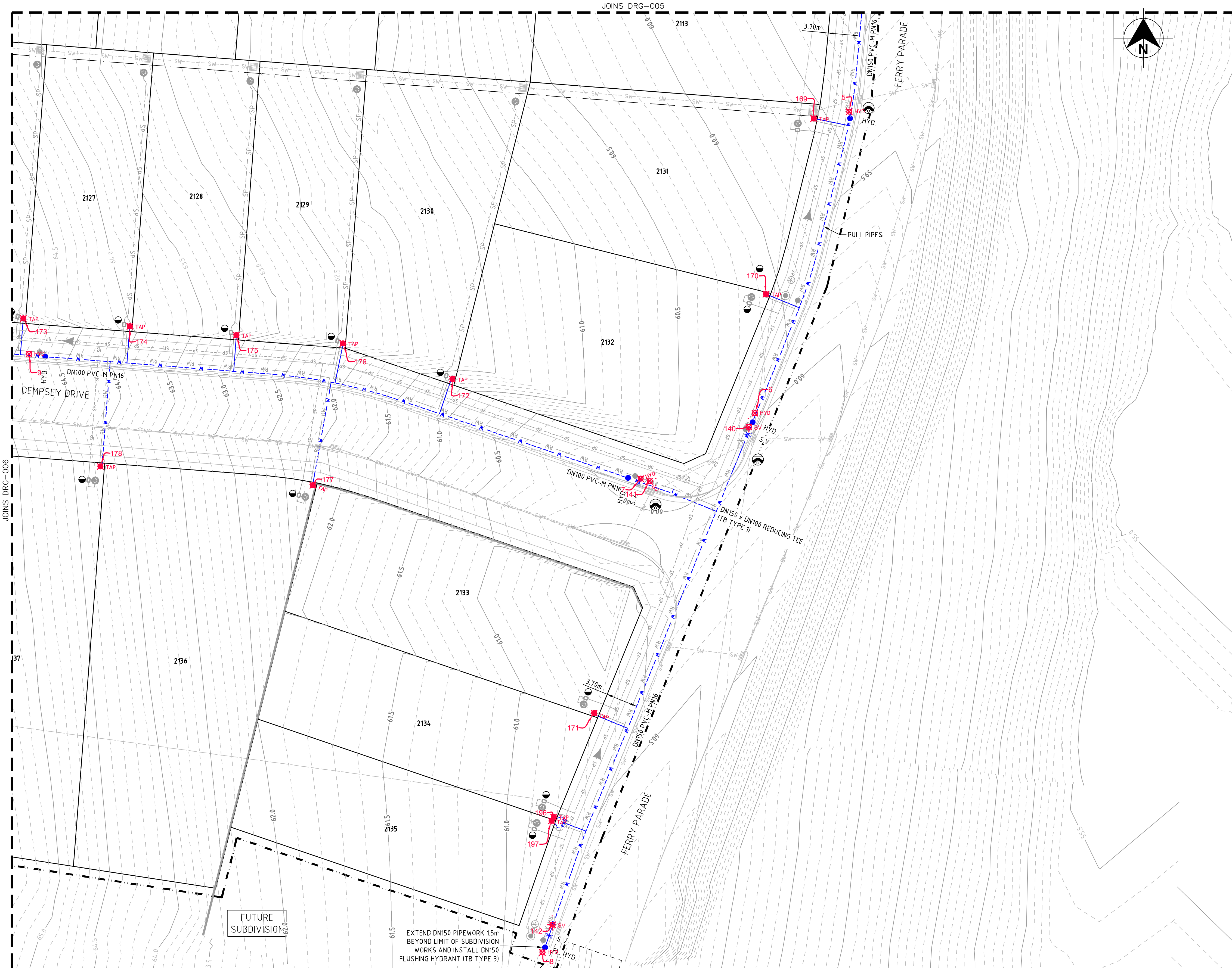
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Date Approved:07/06/2021

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>	<p>CLIENT</p> 	PROPERTY DESCRIPTION		PROJECT							
PLAN TITLE		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION																		
OVERALL SITE PLAN																				
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED ADW Johnson		DATUM A.H.D.		PROJECT No. 240037(21)		DISCIPLINE - WAC -		NUMBER 003		REV. 2	

240037(21)-WAC-008



PLAN
SCALE 1:250

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 02/06/2021 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY
ADWJohnson Pty Ltd

NAME
MATHEW DAVID LONDON

SIGNED
Mathew

DATE
07/06/2021

SIGNED
REGISTERED SURVEYOR

COMPANY

NAME

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

CONSTRUCTION MANAGER

DIAL1100
BEFORE YOU DIG

ORIGIN OF W.A.C. LEVELS

PM 20029

E 345 612.914

N 6 382 878.917

RL 77.675m

Co-Ord System: MGA Ground

MGA Datum: GDA94

MGA Zone: 56

LEGEND

PVC-M POTABLE WATER RETICULATION

POTABLE WATER PROPERTY SERVICE

PVC-M RECYCLED WATER RETICULATION

RECYCLED WATER PROPERTY SERVICE

PE PRESSURE SEWER RETICULATION

PE PRESSURE SEWER PROPERTY SERVICE

EXISTING POTABLE WATER RETICULATION

EXISTING RECYCLED WATER RETICULATION

EXISTING PRESSURE SEWER RETICULATION

STORMWATER PIPEWORK

SV. STOP VALVE

HYD. HYDRANT

FL HYD. FLUSHING HYDRANT

PROPERTY SERVICE CONNECTION

LAY WATER MAIN OVER STORMWATER PIPE
(300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

PROPOSED EASEMENT

SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS
- TOTAL 42 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 22 x SHORT SIDE
 - 12 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 4 x SHORT SIDE
 - 0 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	203
DN100	PVC-M PN16	559
DN20 (LATERAL)	PE100 PN16	360

- NOTES:
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT
 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-009 TO 012.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-014 TO 017.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-020.

APPROVED FOR CONSTRUCTION

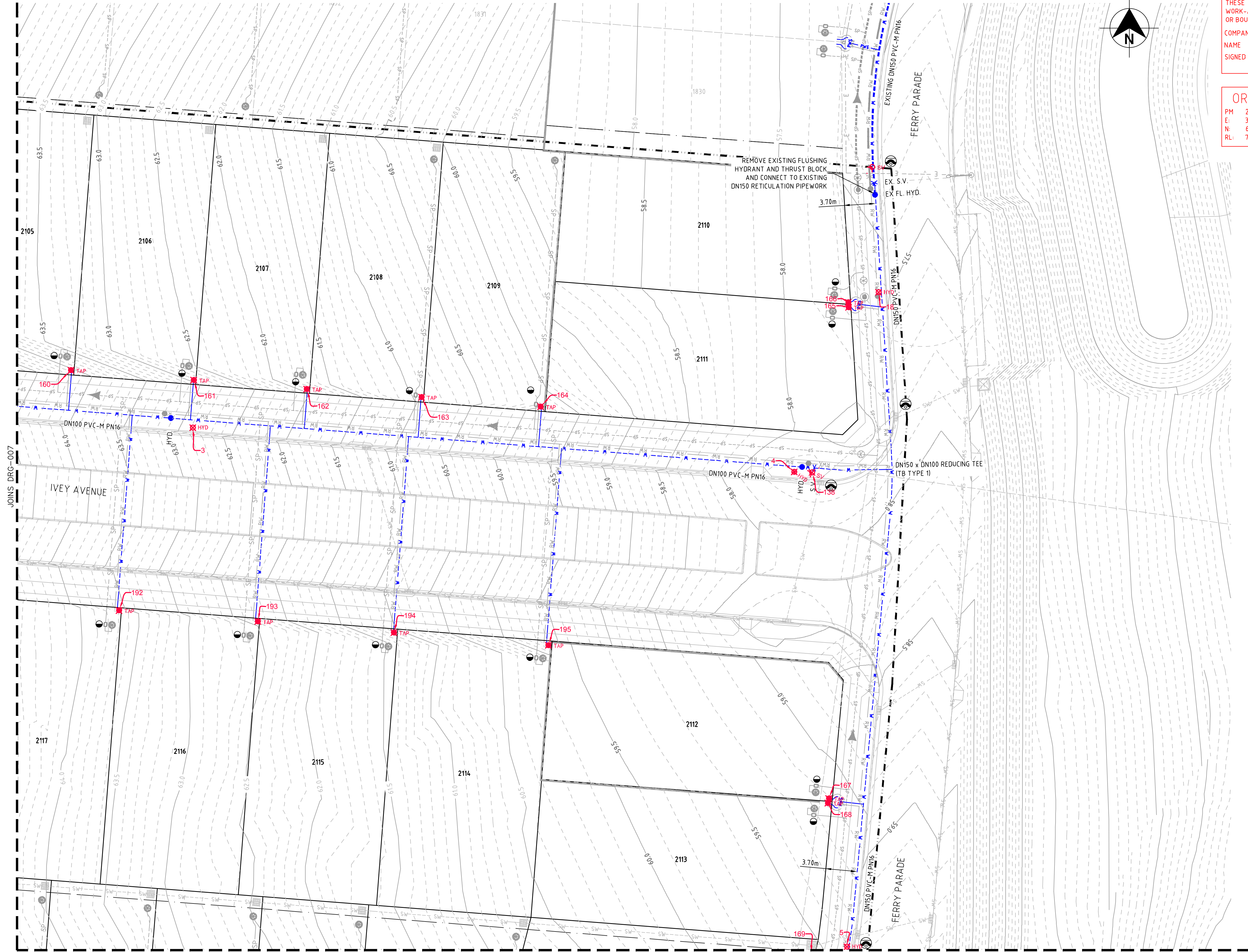
BY ADW Johnson Pty Ltd

Date Approved:07/06/2021

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
							PROPOSED SUBDIVISION STAGE 21 FERRY PARADE, HUNTEE				PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 1					
							SURVEYED ADW Johnson				DATUM A.H.D.	PROJECT No. 240037(21)	DISCIPLINE - WAC -	NUMBER 004	REV. 2		
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE										

240037(21)-WAC-008



JOINS DRG-004

PLAN
SCALE 1:250

WORK AS CONSTRUCTED

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COMPANY

ADWJohnson Pty Ltd

NAME

MATHEW DAVID LONDON

SIGNED

Matthew London

DATE

07/06/2021

REGISTERED SURVEYOR

COMPANY

NAME

SIGNED

DATE

...../...../.....

CONSTRUCTION MANAGER



ORIGIN OF W.A.C. LEVELS

PM

20029

Co-Ord System: MGA Ground

E

345 612.914

MGA Datum: GDA94

N

6 382 878.917

MGA Zone: 56

RL

77.675m

LEGEND

--- W --- W

PVC-M POTABLE WATER RETICULATION

--- PWS --- PWS

POTABLE WATER PROPERTY SERVICE

--- RW --- RW

PVC-M RECYCLED WATER RETICULATION

--- RWS --- RWS

RECYCLED WATER PROPERTY SERVICE

--- SP --- SP

PE PRESSURE SEWER RETICULATION

--- PS S --- PS S

PE PRESSURE SEWER PROPERTY SERVICE

--- EX PW --- EX PW

EXISTING POTABLE WATER RETICULATION

--- EX RW --- EX RW

EXISTING RECYCLED WATER RETICULATION

--- EX PS --- EX PS

EXISTING PRESSURE SEWER RETICULATION

--- SW --- SW

STORMWATER PIPEWORK

SV

STOP VALVE

HYD.

HYDRANT

FL HYD.

FLUSHING HYDRANT

PROPERTY SERVICE CONNECTION

LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

PROPOSED EASEMENT

SUBDIVISION STAGE BOUNDARY

POTABLE WATER PROPERTY SERVICE CONNECTIONS
TOTAL 42 CONNECTIONS
• SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-22 x SHORT SIDE
-12 x LONG SIDE
• SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
-4 x SHORT SIDE
-0 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	203
DN100	PVC-M PN16	559
DN20 (LATERAL)	PE100 PN16	360

- NOTES:
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-009 TO 012.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-014 TO 017.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-020.

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 07/06/2021

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT		PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
							PROPOSED SUBDIVISION STAGE 21 FERRY PARADE, HUNTEE					PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 2				
DESIGN FILE N:\							SURVEYED ADW Johnson					DATUM A.H.D.	PROJECT No. 240037(21)	DISCIPLINE - WAC -	NUMBER 005	REV. 2	

Plotted By: iainb Plot Date: 10/06/21 - 09:43 Cad File: \\pserver10\adw-data\240072\DWG\Water & Sewer\Stage21-WAC\240037(21)-WAC-008.dwg

240037(21)-WAC-008

100mm AT FULL SIZE

JOINS DRG-007

WORK AS CONSTRUCTED

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COMPANY

ADW Johnson Pty Ltd

NAME

MATHEW DAVID LONDON

SIGNED

Matthew London

REGISTERED SURVEYOR

DATE

07/06/2021

COMPANY

NAME

SIGNED

CONSTRUCTION MANAGER

DATE

...../...../.....



ORIGIN OF W.A.C. LEVELS

PM

20029

E

345 612 914

N

6 382 878 917

RL

77.675m

Co-Ord System: MGA Ground

MGA Datum: GDA94

MGA Zone: 56

LEGEND

W

W

PVC-M POTABLE WATER RETICULATION

PWS

PWS

POTABLE WATER PROPERTY SERVICE

RW

RW

PVC-M RECYCLED WATER RETICULATION

RWS

RWS

RECYCLED WATER PROPERTY SERVICE

SP

SP

PE PRESSURE SEWER RETICULATION

PS S

PS S

PE PRESSURE SEWER PROPERTY SERVICE

EX PW

EX PW

EXISTING POTABLE WATER RETICULATION

EX RW

EX RW

EXISTING RECYCLED WATER RETICULATION

EX PS

EX PS

EXISTING PRESSURE SEWER RETICULATION

SW

SW

STORMWATER PIPEWORK

SV

STOP VALVE

HYD.

HYDRANT

FL HYD.

FLUSHING HYDRANT

PROPERTY SERVICE CONNECTION

LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

PROPOSED EASEMENT

SUBDIVISION STAGE BOUNDARY

POTABLE WATER PROPERTY SERVICE CONNECTIONS

TOTAL 42 CONNECTIONS

SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-22 x SHORT SIDE

-12 x LONG SIDE

SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-4 x SHORT SIDE

-0 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	203
DN100	PVC-M PN16	559
DN20 (LATERAL)	PE100 PN16	360

- NOTES:
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.

2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-009 TO 012.

3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-014 TO 017.

4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-020.

APPROVED FOR CONSTRUCTION

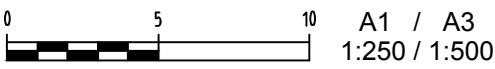
BY ADW Johnson Pty Ltd

Date Approved:07/06/2021

CONSTRUCTION ISSUE

PLAN
SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	02.10.2020	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	C.B.	
B	15.10.2020	CLIENT COMMENTS	T.S.	J.N.	T.S.	C.B.	
C	26.11.2020	FLOW SYSTEMS COMMENTS	T.S.	J.N.	T.S.	C.B.	
D	04.12.2020	FLOW SYSTEMS COMMENTS	T.S.	J.N.	T.S.	C.B.	
E	27.01.2021	CONSTRUCTION ISSUE	T.S.	J.N.	T.S.	C.B.	
2	07.06.2021	CHECK UPDATED CONTOURS	T.S.	J.N.	T.S.	C.B.	
		WORK AS CONSTRUCTED	I.B.	T.S.	T.S.	C.B.	



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

CLIENT



PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
STAGE 21
FERRY PARADE, HUNTEE

SURVEYED

ADW Johnson

DATUM

A.H.D.

PROJECT

POTABLE WATER, RECYCLED WATER AND
PRESSURE SEWER RETICULATION

PLAN TITLE

POTABLE WATER DETAIL PLAN
- SHEET 3

PROJECT No.

240037(21)

DISCIPLINE

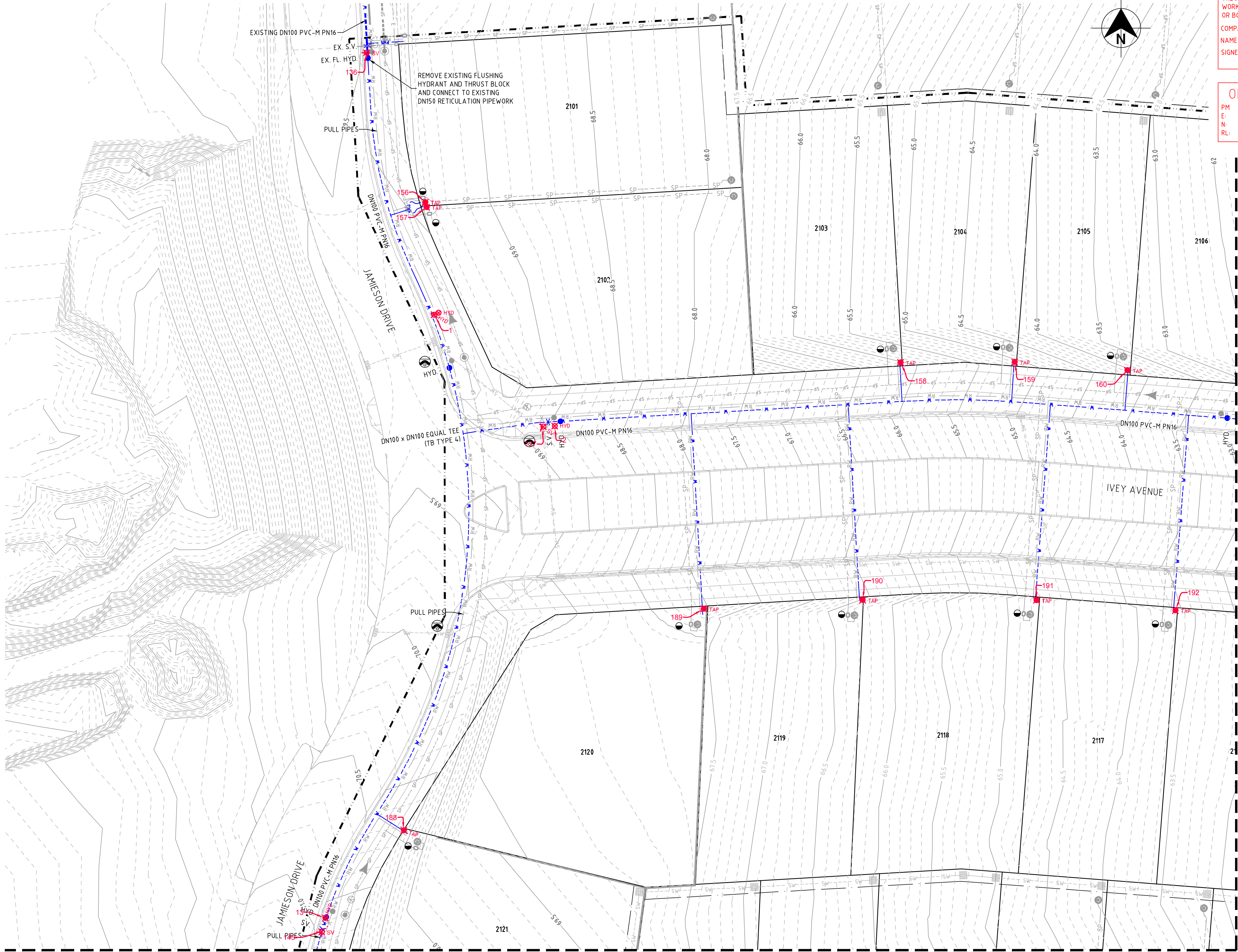
- WAC -

NUMBER

006

REV.

2



PLAN
SCALE 1:250

WORK AS CONSTRUCTED

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COMPANY

ADWJohnson Pty Ltd

NAME

MATTHEW DAVID LONDON

SIGNED

matthew

REGISTERED SURVEYOR

COMPANY

NAME

SIGNED

CONSTRUCTION MANAGER

DATE

07/06/2021

DATE

...../...../.....



ORIGIN OF W.A.C. LEVELS

PM

20029

Co-Ord System

MGA Ground

E

345 612 914

MGA Datum

GD494

N

6 382 878 917

MGA Zone

56

RL

77.675m

LEGEND

W

W

PVC-M POTABLE WATER RETICULATION

PWS

PWS

POTABLE WATER PROPERTY SERVICE

RW

RW

PVC-M RECYCLED WATER RETICULATION

RWS

RWS

RECYCLED WATER PROPERTY SERVICE

PS S

PS S

PE PRESSURE SEWER RETICULATION

PS S

PS S

PE PRESSURE SEWER PROPERTY SERVICE

EX PW

EX PW

EXISTING POTABLE WATER RETICULATION

EX RW

EX RW

EXISTING RECYCLED WATER RETICULATION

EX PS

EX PS

EXISTING PRESSURE SEWER RETICULATION

SW

SW

STORMWATER PIPEWORK

SV

STOP VALVE

HYD.

HYDRANT

FL HYD.

FLUSHING HYDRANT

PROPERTY SERVICE CONNECTION

LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

PROPOSED EASEMENT

SUBDIVISION STAGE BOUNDARY

POTABLE WATER PROPERTY SERVICE CONNECTIONS

TOTAL 42 CONNECTIONS

SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-22 x SHORT SIDE

-12 x LONG SIDE

SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-4 x SHORT SIDE

-0 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN150	PVC-M PN16	203
DN100	PVC-M PN16	559
DN20 (LATERAL)	PE100 PN16	360

- NOTES:
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-009 TO 012.
3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-014 TO 017.
4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-028.

APPROVED FOR CONSTRUCTION

BY ADW Johnson Pty Ltd

Date Approved:07/06/2021

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	02.10.2020	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	C.B.	
B	15.10.2020	CLIENT COMMENTS	T.S.	J.N.	T.S.	C.B.	
C	26.11.2020	FLOW SYSTEMS COMMENTS	T.S.	J.N.	T.S.	C.B.	
D	04.12.2020	FLOW SYSTEMS COMMENTS	T.S.	J.N.	T.S.	C.B.	
E	27.01.2021	CONSTRUCTION ISSUE	T.S.	J.N.	T.S.	C.B.	
2	07.06.2021	WORK AS CONSTRUCTED	I.B.	T.S.	T.S.	C.B.	

DESIGN FILE N:\

Plot Date: 10/06/21 - 09:43

Cad File: \\pserver10\adw-data\240072\DWG\Water & Sewer\Stage21-WAC\240037(21)-WAC-008.dwg

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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

Huntlee

Water

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION

STAGE 21

FERRY PARADE, HUNTLEE

SURVEYED

ADW Johnson

DATUM

A.H.D.

PROJECT

POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE

POTABLE WATER DETAIL PLAN - SHEET 4

PROJECT No.

240037(21)

DISCIPLINE

- WAC -

NUMBER

007

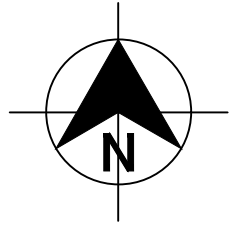
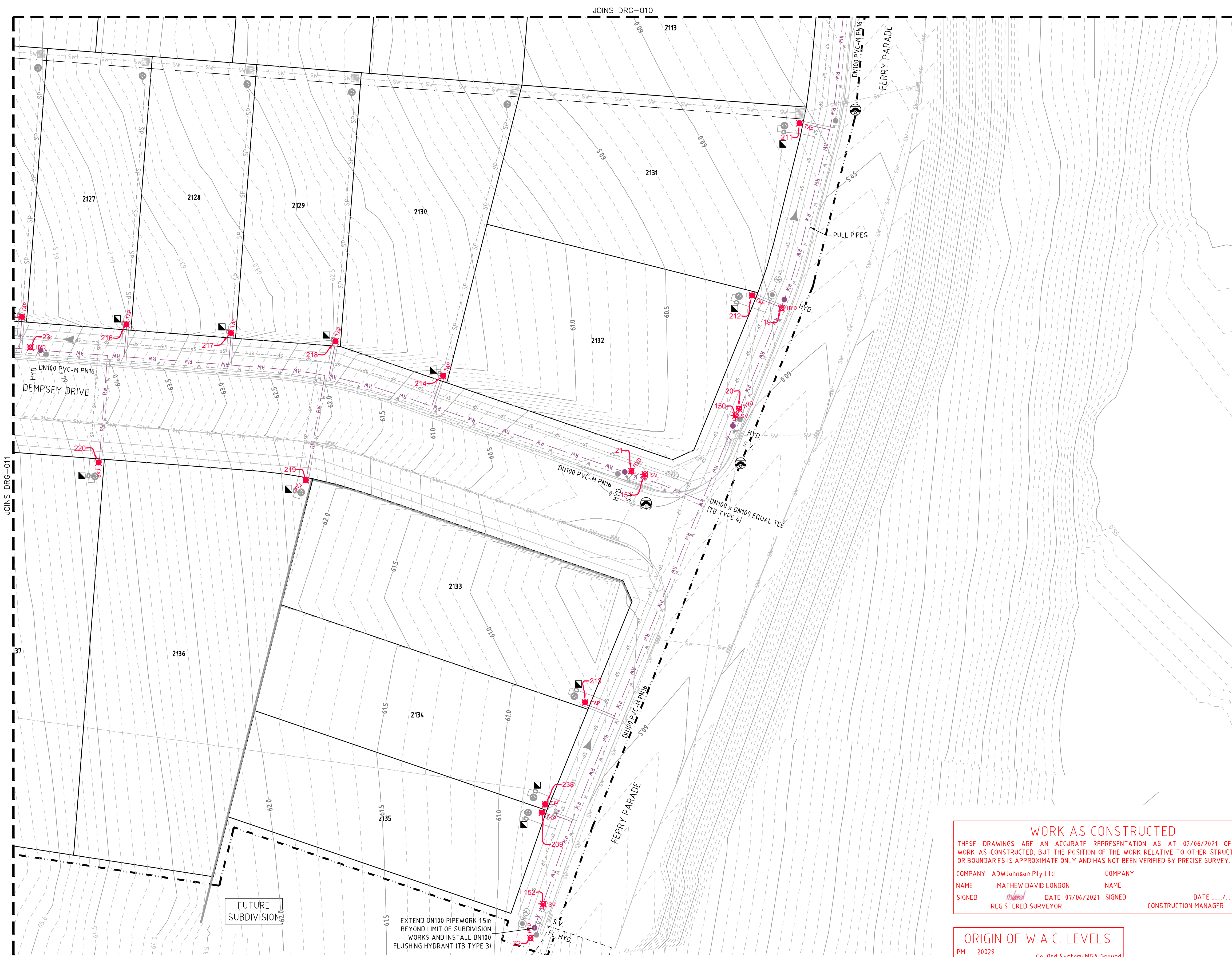
REV.

2

240037(21)-WAC-013

JOINS DRG-011

100mm AT FULL SIZE



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

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 42 CONNECTIONS
 - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 22 x SHORT SIDE
 - 12 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 4 x SHORT SIDE
 - 0 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	759
DN25 (LATERAL)	PE100 PN16	357

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT
 - FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-014 TO 017.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-020.

WORK AS CONSTRUCTED

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COMPANY ADWJohnson Pty Ltd COMPANY
NAME MATHEW DAVID LONDON NAME
SIGNED *Mat* DATE 07/06/2021 SIGNED DATE
REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM 20029 Co-Ord System: MGA Ground
E: 345 612.914 MGA Datum: GDA94
N: 6 382 878.917 MGA Zone: 56
RL: 77.675m

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 07/06/2021

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	02.10.2020	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	C.B.	 ALL DIMENSIONS ARE IN METRES. DO NOT SCALE
B	15.10.2020	CLIENT COMMENTS	T.S.	J.N.	T.S.	C.B.	
C	26.11.2020	FLOW SYSTEMS COMMENTS	T.S.	J.N.	T.S.	C.B.	
D	04.12.2020	CONSTRUCTION ISSUE	T.S.	J.N.	T.S.	C.B.	
2	07.06.2021	WORK AS CONSTRUCTED	I.B.	T.S.	T.S.	C.B.	

adw Johnson

Hunter Office
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Phone: (02) 4978 5100
Fax: (02) 4978 5199
email: hunter@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT

Huntlee + Water

PROPERTY DESCRIPTION	
PROPOSED SUBDIVISION STAGE 21 FERRY PARADE, HUNTEE	
SURVEYED ADW Johnson	DATUM A.H.D.

PROJECT		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
PLAN TITLE		RECYCLED WATER DETAIL PLAN - SHEET 1	
PROJECT No. 240037(21)	DISCIPLINE - WAC -	NUMBER 009	REV. 2



WORK AS CONSTRUCTED

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COMPANY ADW Johnson Pty Ltd

COMPANY

NAME MATHEW DAVID LONDON

NAME

SIGNED *mathew* DATE 07/06/2021

SIGNED

DATE / / CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM 20029

Co-Ord System: MGA Ground

E: 345 612.914

MGA Datum: GDA94

N: 6 382 878.917

MGA Zone: 56

RL: 77.675m

LEGEND

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

RECYCLED WATER PROPERTY SERVICE CONNECTIONS

TOTAL 42 CONNECTIONS

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

RECYCLED WATER PIPE DATA

PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	759
DN25 (LATERAL)	PE100 PN16	357

NOTES:

1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
2. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-014 TO 017.
4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-020.

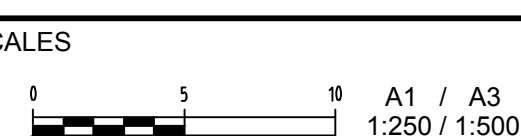
APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd

Date Approved: 07/06/2021

CONSTRUCTION ISSUE

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C	26.11.2020	FLOW SYSTEMS COMMENTS	T.S.	J.N.	T.S.	C.B.	
D	04.12.2020	CONSTRUCTION ISSUE	T.S.	J.N.	T.S.	C.B.	
E	27.01.2021	CHECK UPDATED CONTOURS	T.S.	J.N.	T.S.	C.B.	
2	07.06.2021	WORK AS CONSTRUCTED	I.B.	T.S.	T.S.	C.B.	

DESIGN FILE N:\

PLAN
SCALE 1:250

JOINS DRG-009

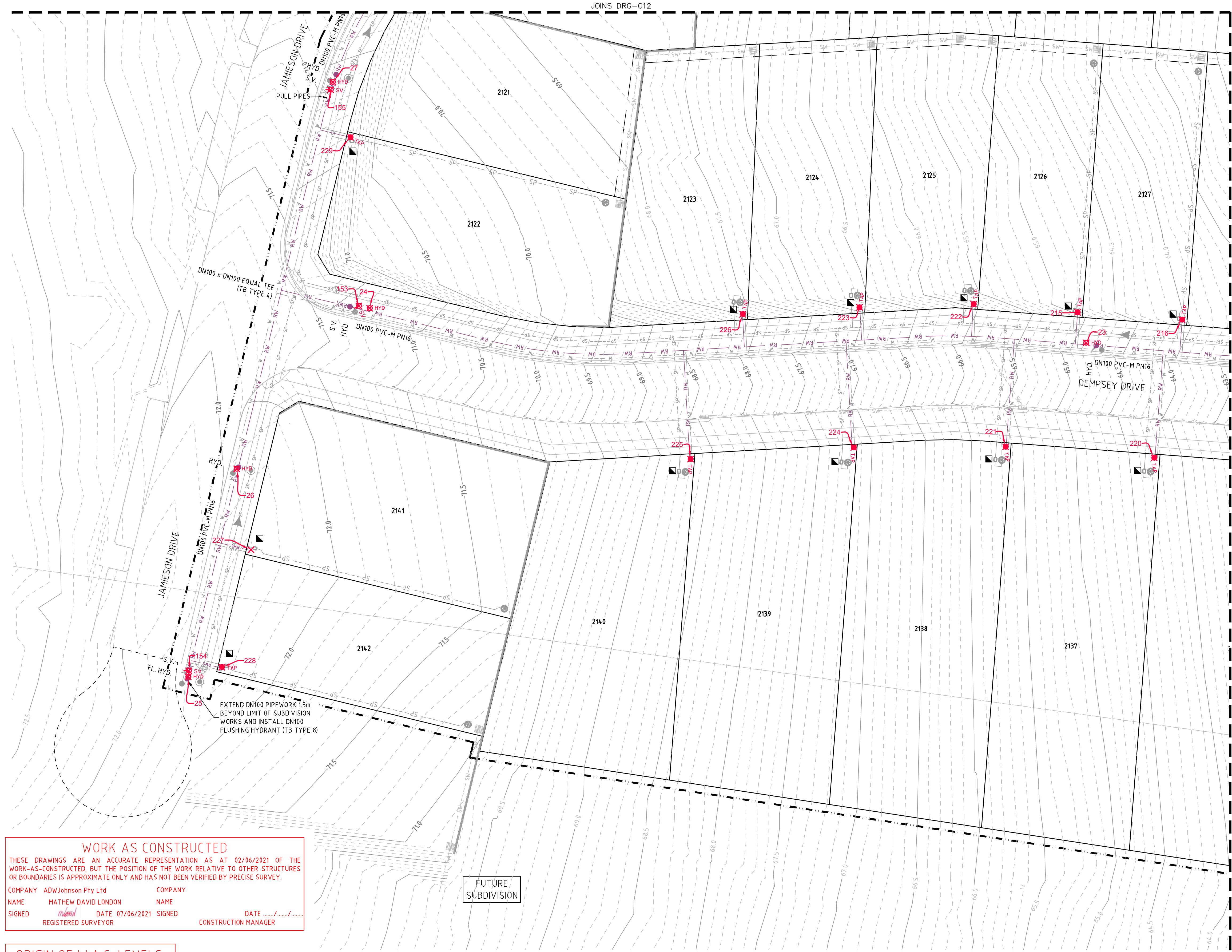


Hunter Office
Unit 7/335 Hillsborough Rd
Warners Bay N.S.W. 2282
Phone: (02) 4978 5100
Fax: (02) 4978 5199
email: hunter@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT



PROPERTY DESCRIPTION		PROJECT	
PROPOSED SUBDIVISION STAGE 21 FERRY PARADE, HUNTEE		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
SURVEYED		PLAN TITLE	
ADW Johnson		RECYCLED WATER DETAIL PLAN - SHEET 2	
DISCIPLINE		NUMBER	
- WAC -		010	
REVISION		REV.	
2		2	



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

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 42 CONNECTIONS
 - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 22 x SHORT SIDE
 - 12 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 4 x SHORT SIDE
 - 0 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	759
DN25 (LATERAL)	PE100 PN16	357

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 - FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-014 TO 017.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-020.

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 02/06/2021 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY ADW Johnson Pty Ltd
NAME MATHEW DAVID LONDON
SIGNED *mathe* DATE 07/06/2021
REGISTERED SURVEYOR

NAME
SIGNED _____ DATE _____
CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM 20029
E: 345 612.914 Co-Ord System: MGA Ground
N: 6 382 878.917 MGA Datum: GDA94
RL: 77.675m MGA Zone: 56

PLAN
SCALE 1:250

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 07/06/2021

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	02.10.2020	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	C.B.	 A1 / A3 1:250 / 1:500	PROPOSED SUBDIVISION STAGE 21 FERRY PARADE, HUNTLÉE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	RECYCLED WATER DETAIL PLAN - SHEET 3	240037(21)	- WAC -	011	2
B	15.10.2020	CLIENT COMMENTS	T.S.	J.N.	T.S.	C.B.								
C	26.11.2020	FLOW SYSTEMS COMMENTS	T.S.	J.N.	T.S.	C.B.								
D	04.12.2020	CONSTRUCTION ISSUE	T.S.	J.N.	T.S.	C.B.								
2	07.06.2021	CHECK UPDATED CONTOURS WORK AS CONSTRUCTED	I.B.	T.S.	T.S.	C.B.								

DESIGN FILE N:\

Plotted By: iainb Plot Date: 10/06/21 - 09:44 Cad File: \\pserver10\adw-data\240072\DWG\Water & Sewer\Stage21-WAC\240037(21)-WAC-013.dwg

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

CLIENT
Huntlee + Water

SURVEYED
ADW Johnson

DATUM
A.H.D.

PROJECT
POTABLE WATER, RECYCLED WATER AND
PRESSURE SEWER RETICULATION

PLAN TITLE
RECYCLED WATER DETAIL
PLAN - SHEET 3

PROJECT No.
240037(21)

DISCIPLINE
- WAC -

NUMBER
011

REV.
2



WORK AS CONSTRUCTED
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COMPANY	ADW Johnson Pty Ltd	NAME	MATHEW DAVID LONDON
SIGNED	<i>mathe</i>	DATE	07/06/2021
REGISTERED SURVEYOR		SIGNED	
		CONSTRUCTION MANAGER	

ORIGIN OF W.A.C. LEVELS
PM 20029
E: 345 612 916
N: 6 382 878 917
RL: 77.675m
Co-Ord System: MGA Ground
MGA Datum: GDA94
MGA Zone: 56

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

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
TOTAL 42 CONNECTIONS
• SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
-22 x SHORT SIDE
-12 x LONG SIDE
• SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
-4 x SHORT SIDE
-0 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	759
DN25 (LATERAL)	PE100 PN16	357

- NOTES:**
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT
2. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007
3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-014 TO 017
4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-020.

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 07/06/2021

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	02.10.2020	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	C.B.	
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C	26.11.2020	FLOW SYSTEMS COMMENTS	T.S.	J.N.	T.S.	C.B.	
D	04.12.2020	FLOW SYSTEMS COMMENTS	T.S.	J.N.	T.S.	C.B.	
E	27.01.2021	CONSTRUCTION ISSUE	T.S.	J.N.	T.S.	C.B.	
2	07.06.2021	WORK AS CONSTRUCTED	I.B.	T.S.	T.S.	C.B.	

DESIGN FILE N:\

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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CLIENT

Huntlee + Water

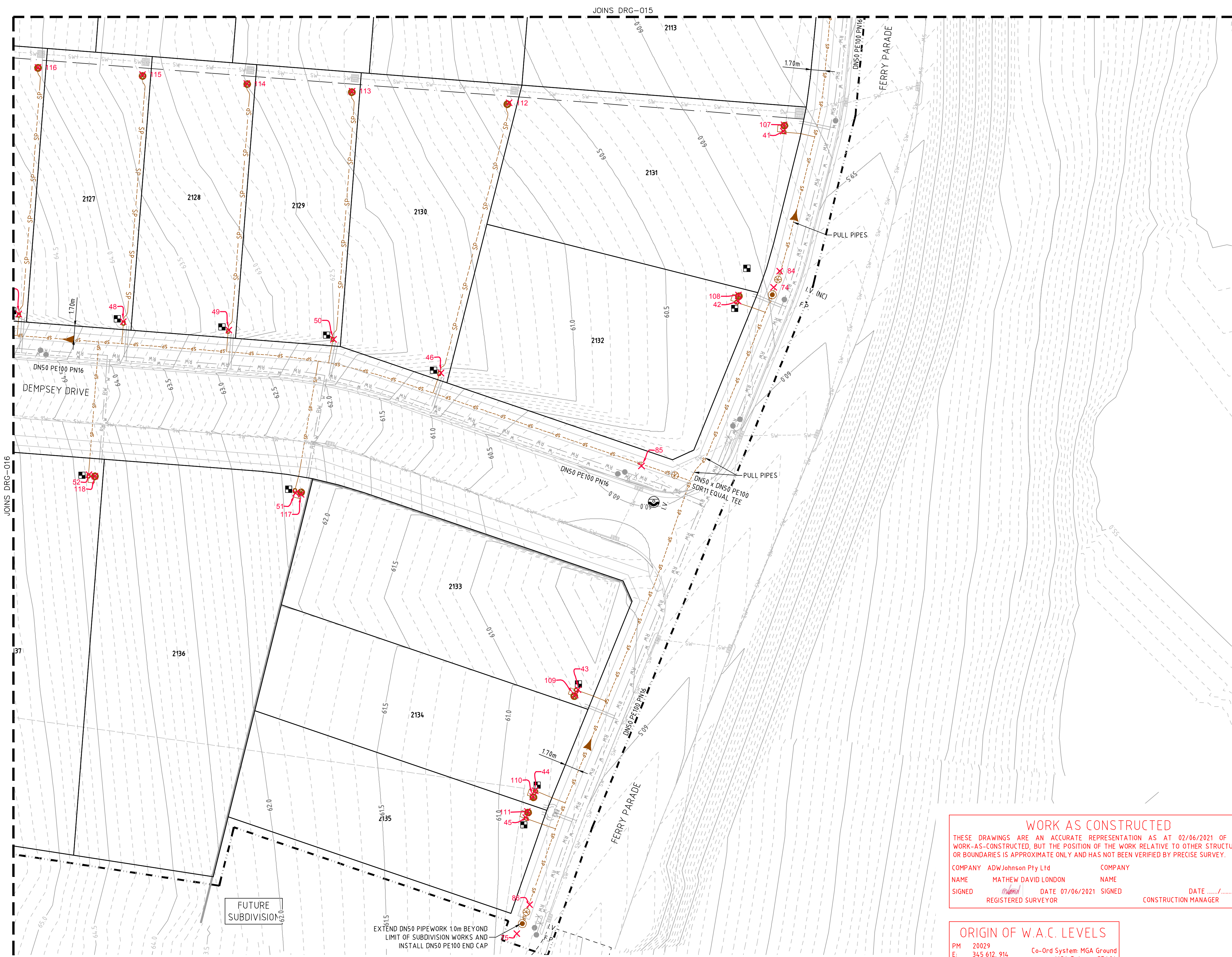
PROPERTY DESCRIPTION	
PROPOSED SUBDIVISION STAGE 21 FERRY PARADE, HUNTEE	
SURVEYED ADW Johnson	DATUM A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
PLAN TITLE RECYCLED WATER DETAIL PLAN - SHEET 4			
PROJECT No. 240037(21)	DISCIPLINE - WAC -	NUMBER 012	REV. 2

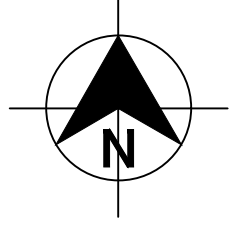
240037(21)-WAC-018

JOINS DRG-016

100mm AT FULL SIZE



PLAN
SCALE 1:250



LEGEND	
	PE PRESSURE SEWER RETICULATION
	PE PRESSURE SEWER PROPERTY SERVICE
	PVC-M POTABLE WATER RETICULATION
	POTABLE WATER PROPERTY SERVICE
	PVC-M RECYCLED WATER RETICULATION
	RECYCLED WATER PROPERTY SERVICE
	EXISTING PRESSURE SEWER RETICULATION
	EXISTING POTABLE WATER RETICULATION
	EXISTING RECYCLED WATER RETICULATION
	STORMWATER PIPEWORK
	ISOLATION VALVE
	ISOLATION VALVE - NORMALLY CLOSED
	FLUSHING POINT
	WASTEWATER COLLECTION TANK AND BOUNDARY KIT
	PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
	PROPERTY SERVICE CONNECTION
	LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
	PROPOSED EASEMENT
	SUBDIVISION STAGE BOUNDARY

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
TOTAL 42 CONNECTIONS
• SINGLE SERVICES
-30 x SHORT SIDE
-12 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN160	PE100 SDR11	189
DN50	PE100 SDR11	564
DN40 (LATERAL)	PE100 SDR11	960

- NOTES:
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-009 AND 012.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-020.
 - 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 DIAM.
 - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).

WORK AS CONSTRUCTED

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	MATTHEW DAVID LONDON	NAME	
SIGNED	<i>Matthew David London</i>	SIGNED	
REGISTERED SURVEYOR	DATE 07/06/2021	CONSTRUCTION MANAGER	DATE

ORIGIN OF W.A.C. LEVELS

PM	20029	Co-Ord System	MGA Ground
E	345 612.914	MGA Datum	GDA94
N	6 382 878.917	MGA Zone	56
RL	77.675m		

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd

Date Approved: 07/06/2021

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	02.10.2020	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	C.B.	
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C	26.11.2020	FLOW SYSTEMS COMMENTS	T.S.	J.N.	T.S.	C.B.	
D	04.12.2020	CONSTRUCTION ISSUE	T.S.	J.N.	T.S.	C.B.	
2	07.06.2021	WORK AS CONSTRUCTED	I.B.	T.S.	T.S.	C.B.	

DESIGN FILE N:\



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email: hunter@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT



PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
STAGE 21
FERRY PARADE, HUNTEE

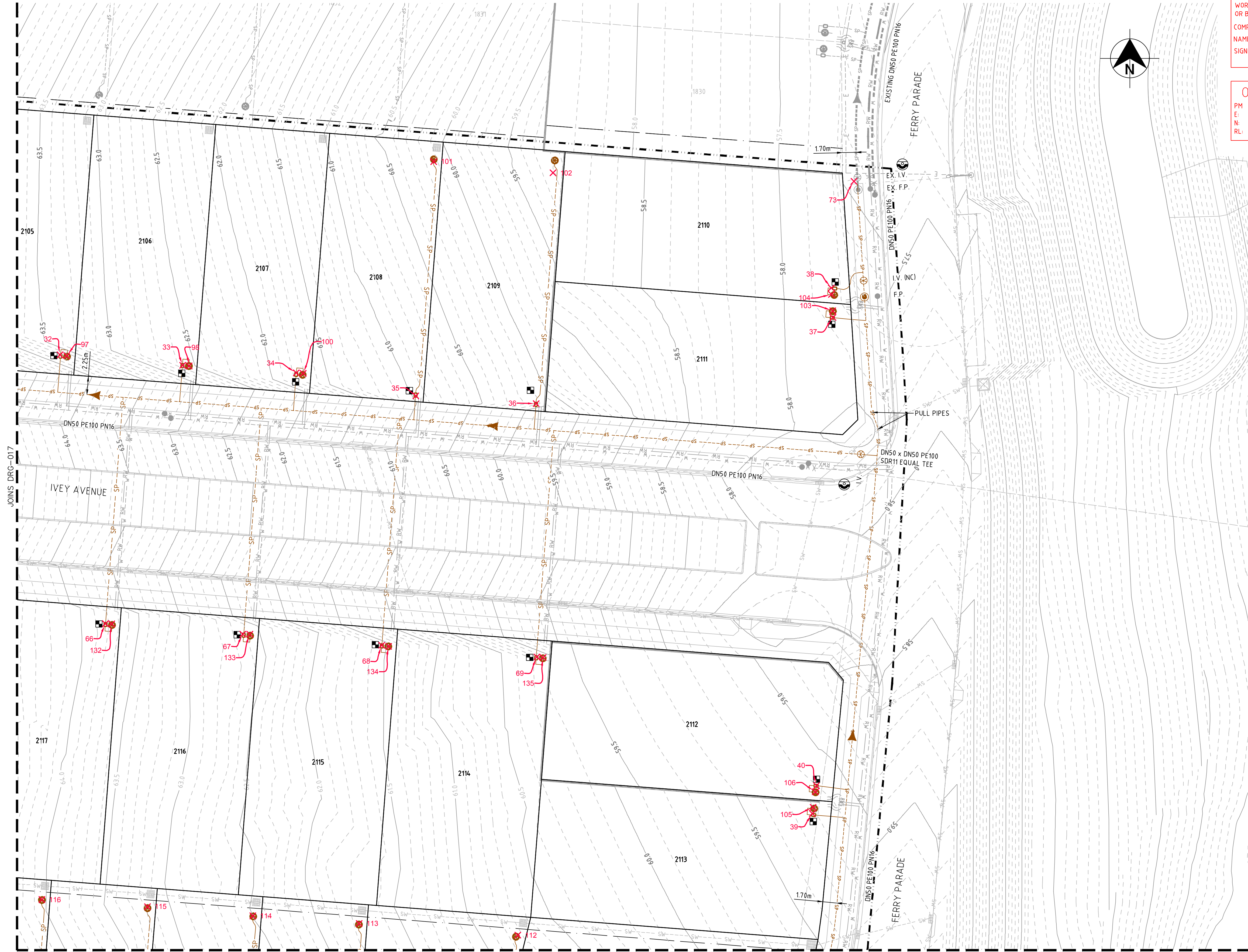
SURVEYED	DATUM
ADW Johnson	A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE
PRESSURE SEWER DETAIL PLAN
- SHEET 1

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(21)	- WAC -	014	2

240037(21)-WAC-018



PLAN
SCALE 1:250

WORK AS CONSTRUCTED

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COMPANY ADWJohnson Pty Ltd

NAME MATHEW DAVID LONDON

SIGNED *mathe*

REGISTERED SURVEYOR

COMPANY

NAME

SIGNED

CONSTRUCTION MANAGER

DATE 07/06/2021

DATE

ORIGIN OF W.A.C. LEVELS

PM 20029

E 345 612.914

N 6 382 878.917

RL 77.675m

Co-Ord System MGA Ground

MGA Datum GDA94

MGA Zone 56

LEGEND

SP

PE PRESSURE SEWER RETICULATION

PS S

PE PRESSURE SEWER PROPERTY SERVICE

PWS

PVC-M POTABLE WATER RETICULATION

PWS

POTABLE WATER PROPERTY SERVICE

RW

PVC-M RECYCLED WATER RETICULATION

RWS

RECYCLED WATER PROPERTY SERVICE

EX PS

EXISTING PRESSURE SEWER RETICULATION

EX PW

EXISTING POTABLE WATER RETICULATION

EX RW

EXISTING RECYCLED WATER RETICULATION

SW

STORMWATER PIPEWORK

I.V.

ISOLATION VALVE

I.V. (NC)

ISOLATION VALVE - NORMALLY CLOSED

F.P.

FLUSHING POINT

WASTEWATER COLLECTION TANK AND BOUNDARY KIT

PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)

PROPERTY SERVICE CONNECTION

LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

PROPOSED EASEMENT

SUBDIVISION STAGE BOUNDARY

PRESSURE SEWER PROPERTY SERVICE CONNECTIONS

TOTAL 42 CONNECTIONS

SINGLE SERVICES

30 x SHORT SIDE

12 x LONG SIDE

PRESSURE SEWER PIPE DATA		
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DN50	PE100 SDR11	564
DN40 (LATERAL)	PE100 SDR11	960

- NOTES:
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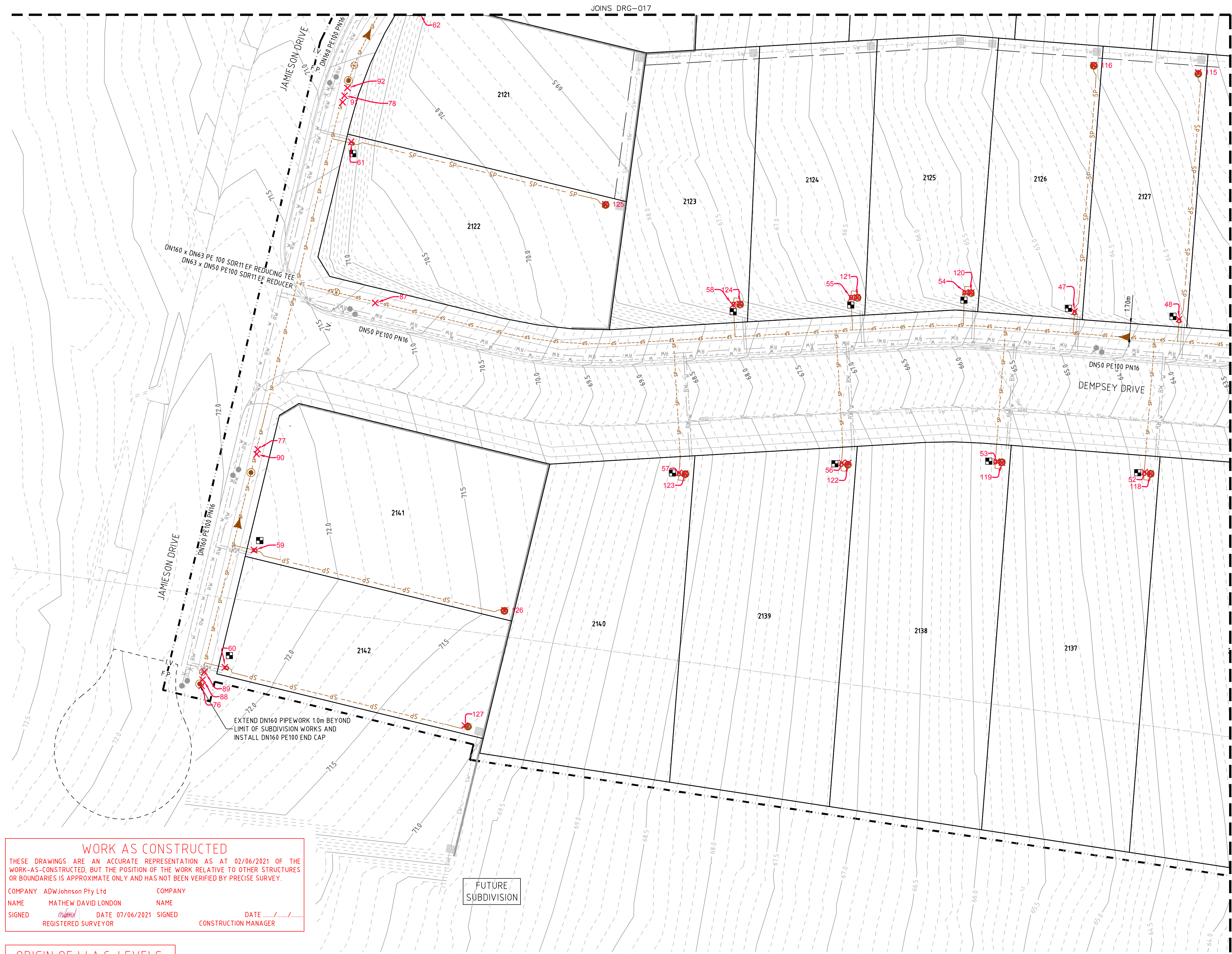
APPROVED FOR CONSTRUCTION

BY ADW Johnson Pty Ltd

Date Approved:07/06/2021

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	<div><div><div>adw</div><div>Johnson</div></div><div><div>Hunter Office</div><div>Unit 7/335 Hillsborough Rd</div><div>Warners Bay N.S.W. 2282</div><div>Phone: (02) 4978 5100</div><div>Fax: (02) 4978 5199</div><div>email: hunter@adwjohnson.com.au</div><div>www.adwjohnson.com.au</div><div>ABN 62 129 445 398</div></div></div> <div><div>0</div><div>5</div><div>10</div></div> <div>A1 / A3</div> <div>1:250 / 1:500</div> <tr><td>A</td><td>02.10.2020</td><td>PRELIMINARY ISSUE</td><td>T.S.</td><td>J.N.</td><td>T.S.</td><td>C.B.</td><td rowspan="4"><div><div>Huntlee</div><div>+</div><div>Water</div></div><tr><td>B</td><td>15.10.2020</td><td>CLIENT COMMENTS</td><td>T.S.</td><td>J.N.</td><td>T.S.</td><td>C.B.</td><td rowspan="4"><div><div>PROPERTY DESCRIPTION</div><div>PROPOSED SUBDIVISION</div><div>STAGE 21</div><div>FERRY PARADE, HUNTEE</div></div><tr><td>C</td><td>26.11.2020</td><td>FLOW SYSTEMS COMMENTS</td><td>T.S.</td><td>J.N.</td><td>T.S.</td><td>C.B.</td><td rowspan="4"><div><div>PROJECT</div><div>POTABLE WATER, RECYCLED WATER AND</div><div>PRESSURE SEWER RETICULATION</div></div><tr><td>D</td><td>04.12.2020</td><td>CONSTRUCTION ISSUE</td><td>T.S.</td><td>J.N.</td><td>T.S.</td><td>C.B.</td><td rowspan="4"><div><div>PLAN TITLE</div><div>PRESSURE SEWER DETAIL PLAN</div><div>- SHEET 2</div></div><tr><td>1</td><td>27.01.2021</td><td>CHECK UPDATED CONTOURS</td><td>T.S.</td><td>J.N.</td><td>T.S.</td><td>C.B.</td><td rowspan="4"><div><div>SURVEYED</div><div>ADW Johnson</div></div><div><div>DATUM</div><div>A.H.D.</div></div><div><div>PROJECT No.</div><div>240037(21)</div></div><div><div>DISCIPLINE</div><div>- WAC -</div></div><div><div>NUMBER</div><div>015</div></div><div><div>REV.</div><div>2</div></div><tr><td>2</td><td>07.06.2021</td><td>WORK AS CONSTRUCTED</td><td>I.B.</td><td>T.S.</td><td>T.S.</td><td>C.B.</td></tr><tr><td colspan="7">DESIGN FILE N:\</td><td>ALL DIMENSIONS ARE IN METRES. 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LEGEND

- SP — PE PRESSURE SEWER RETICULATION
- PS S — PE PRESSURE SEWER PROPERTY SERVICE
- PVC-M POTABLE WATER RETICULATION
- PWS — POTABLE WATER PROPERTY SERVICE
- PVC-M RECYCLED WATER RETICULATION
- RWS — RECYCLED WATER PROPERTY SERVICE
- EX PS — EXISTING PRESSURE SEWER RETICULATION
- EX PW — EXISTING POTABLE WATER RETICULATION
- EX RW — EXISTING RECYCLED WATER RETICULATION
- SW — STORMWATER PIPEWORK
- I.V. — ISOLATION VALVE
- I.V. (NC) — ISOLATION VALVE - NORMALLY CLOSED
- F.P. — FLUSHING POINT
- WASTEWATER COLLECTION TANK AND BOUNDARY KIT
- PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
- PROPERTY SERVICE CONNECTION
- LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
TOTAL 42 CONNECTIONS
• SINGLE SERVICES
-30 x SHORT SIDE
-12 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN160	PE100 SDR11	189
DN50	PE100 SDR11	564
DN40 (LATERAL)	PE100 SDR11	960

- NOTES:
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-009 AND 012.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-020.
 - 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 DIAM.
 - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 07/06/2021

CONSTRUCTION ISSUE

WORK AS CONSTRUCTED
THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 02/06/2021 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED	<i>MatheW</i>	DATE	07/06/2021
REGISTERED SURVEYOR		SIGNED	
		CONSTRUCTION MANAGER	

ORIGIN OF W.A.C. LEVELS
PM 20029
E: 345 612.914 Co-Ord System: MGA Ground
N: 6 382 878.917 MGA Datum: GDA94
RL: 77.675m MGA Zone: 56

PLAN
SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	02.10.2020	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	C.B.	
B	15.10.2020	CLIENT COMMENTS	T.S.	J.N.	T.S.	C.B.	
C	26.11.2020	FLOW SYSTEMS COMMENTS	T.S.	J.N.	T.S.	C.B.	
D	04.12.2020	CONSTRUCTION COMMENTS	T.S.	J.N.	T.S.	C.B.	
E	27.01.2021	CHECK UPDATED CONTOURS	T.S.	J.N.	T.S.	C.B.	
2	07.06.2021	WORK AS CONSTRUCTED	I.B.	T.S.	T.S.	C.B.	

DESIGN FILE N:\

Plot Date: 10/06/21 - 09:44

Cad File: \\pserver10\adw-data\240072\DWG\Water & Sewer\Stage21-WAC\240037(21)-WAC-018.dwg

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

Huntlee + Water

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
STAGE 21
FERRY PARADE, HUNTLEE

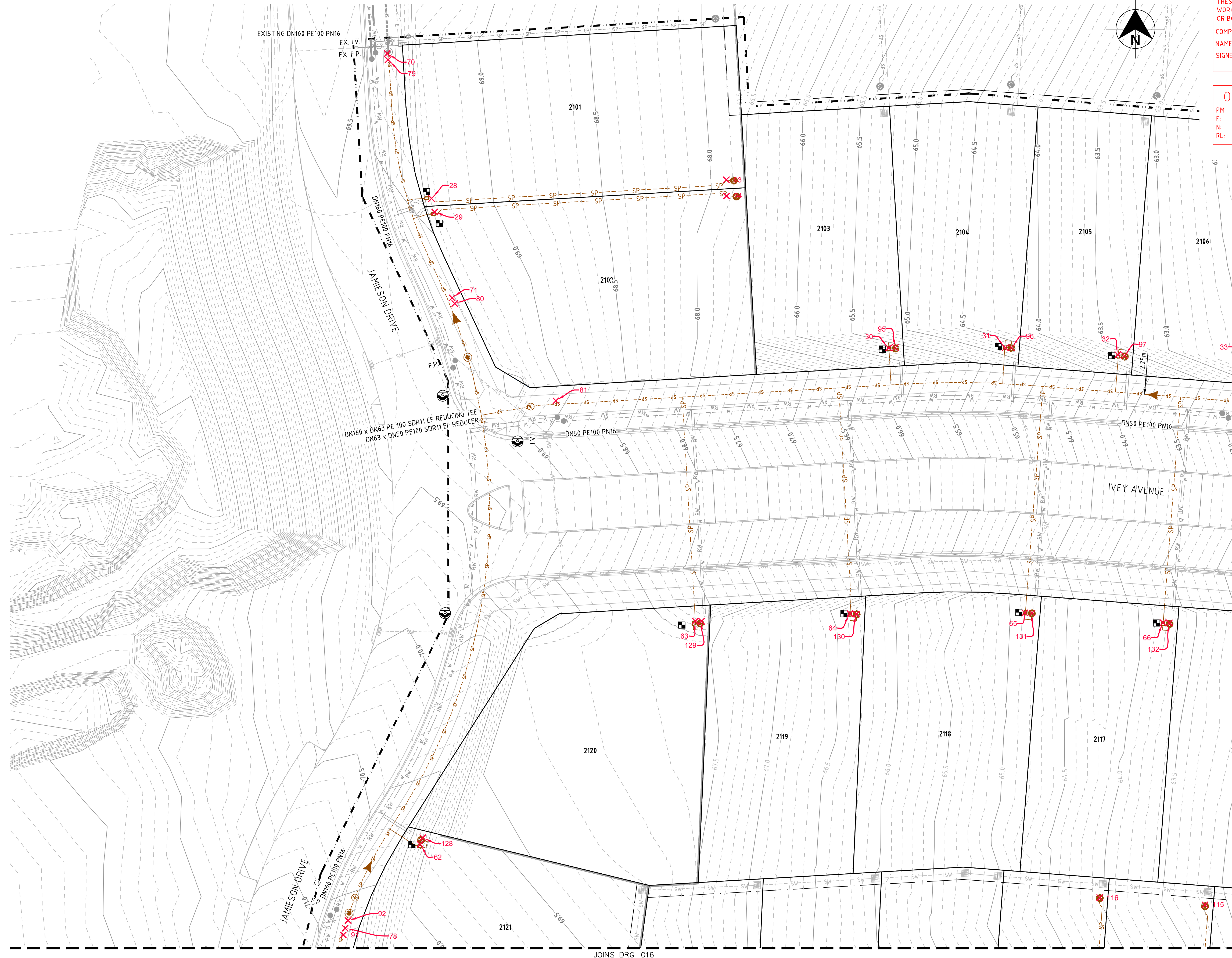
SURVEYED
ADW Johnson

DATUM
A.H.D.

PROJECT
POTABLE WATER, RECYCLED WATER AND
PRESSURE SEWER RETICULATION

PLAN TITLE
PRESSURE SEWER DETAIL PLAN
- SHEET 3

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(21)	- WAC -	016	2

PLAN
SCALE 1:250

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NAME	MATHEW DAVID LONDON	NAME	
SIGNED	<i>[Signature]</i>	DATE	07/06/2021
REGISTERED SURVEYOR		SIGNED	
		CONSTRUCTION MANAGER	

ORIGIN OF W.A.C. LEVELS
PM 20029
E: 345 612.914
N: 6 382 878.917
RL: 77.675m
Co-Ord System: MGA Ground
MGA Datum: GDA94
MGA Zone: 56

LEGEND	
	PE PRESSURE SEWER RETICULATION
	PE PRESSURE SEWER PROPERTY SERVICE
	PVC-M POTABLE WATER RETICULATION
	POTABLE WATER PROPERTY SERVICE
	PVC-M RECYCLED WATER RETICULATION
	RECYCLED WATER PROPERTY SERVICE
	EXISTING PRESSURE SEWER RETICULATION
	EXISTING POTABLE WATER RETICULATION
	EXISTING RECYCLED WATER RETICULATION
	STORMWATER PIPEWORK
	ISOLATION VALVE
	ISOLATION VALVE - NORMALLY CLOSED
	FLUSHING POINT
	WASTEWATER COLLECTION TANK AND BOUNDARY KIT
	PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
	PROPERTY SERVICE CONNECTION
	LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
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APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 07/06/2021

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	02.10.2020	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	C.B.	
B	15.10.2020	CLIENT COMMENTS	T.S.	J.N.	T.S.	C.B.	
C	26.11.2020	FLOW SYSTEMS COMMENTS	T.S.	J.N.	T.S.	C.B.	
D	04.12.2020	FLOW SYSTEMS COMMENTS	T.S.	J.N.	T.S.	C.B.	
E	27.01.2021	CONSTRUCTION ISSUE	T.S.	J.N.	T.S.	C.B.	
2	07.06.2021	CHECK UPDATED CONTOURS WORK AS CONSTRUCTED	I.B.	T.S.	T.S.	C.B.	

DESIGN FILE: N:\

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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

adw Johnson

CLIENT

Huntlee + Water

PROPERTY DESCRIPTION	
PROPOSED SUBDIVISION STAGE 21 FERRY PARADE, HUNTEE	
SURVEYED ADW Johnson	DATUM A.H.D.

PROJECT	
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
PLAN TITLE	
PRESSURE SEWER DETAIL PLAN - SHEET 4	
PROJECT No.	DISCIPLINE
240037(21)	- WAC -
NUMBER	REV.
017	2

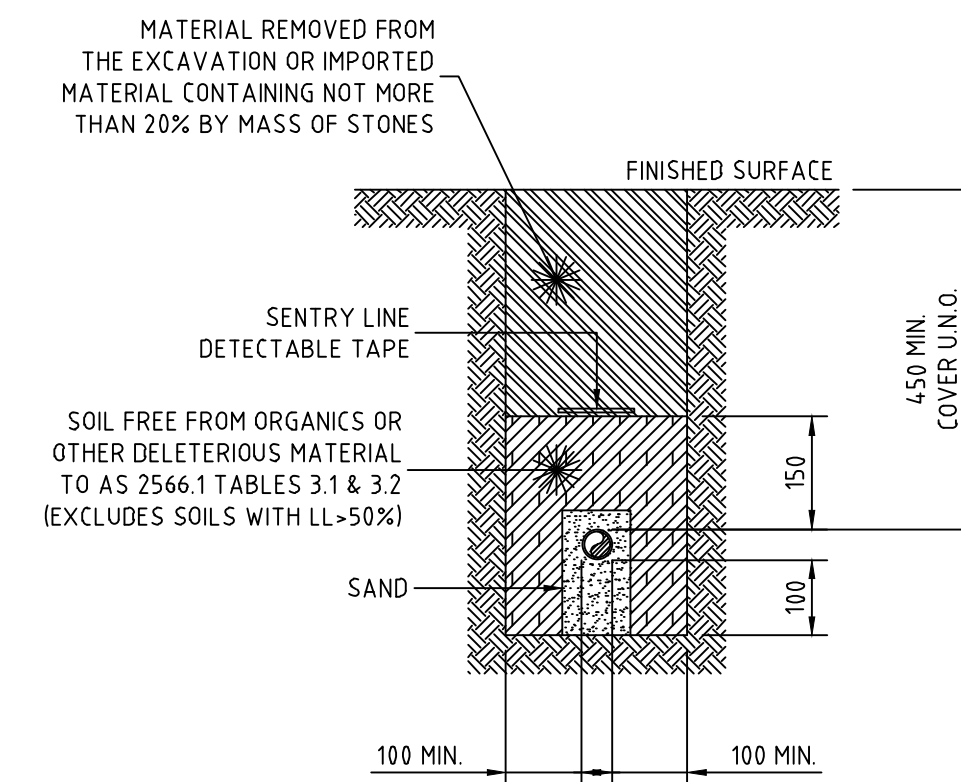


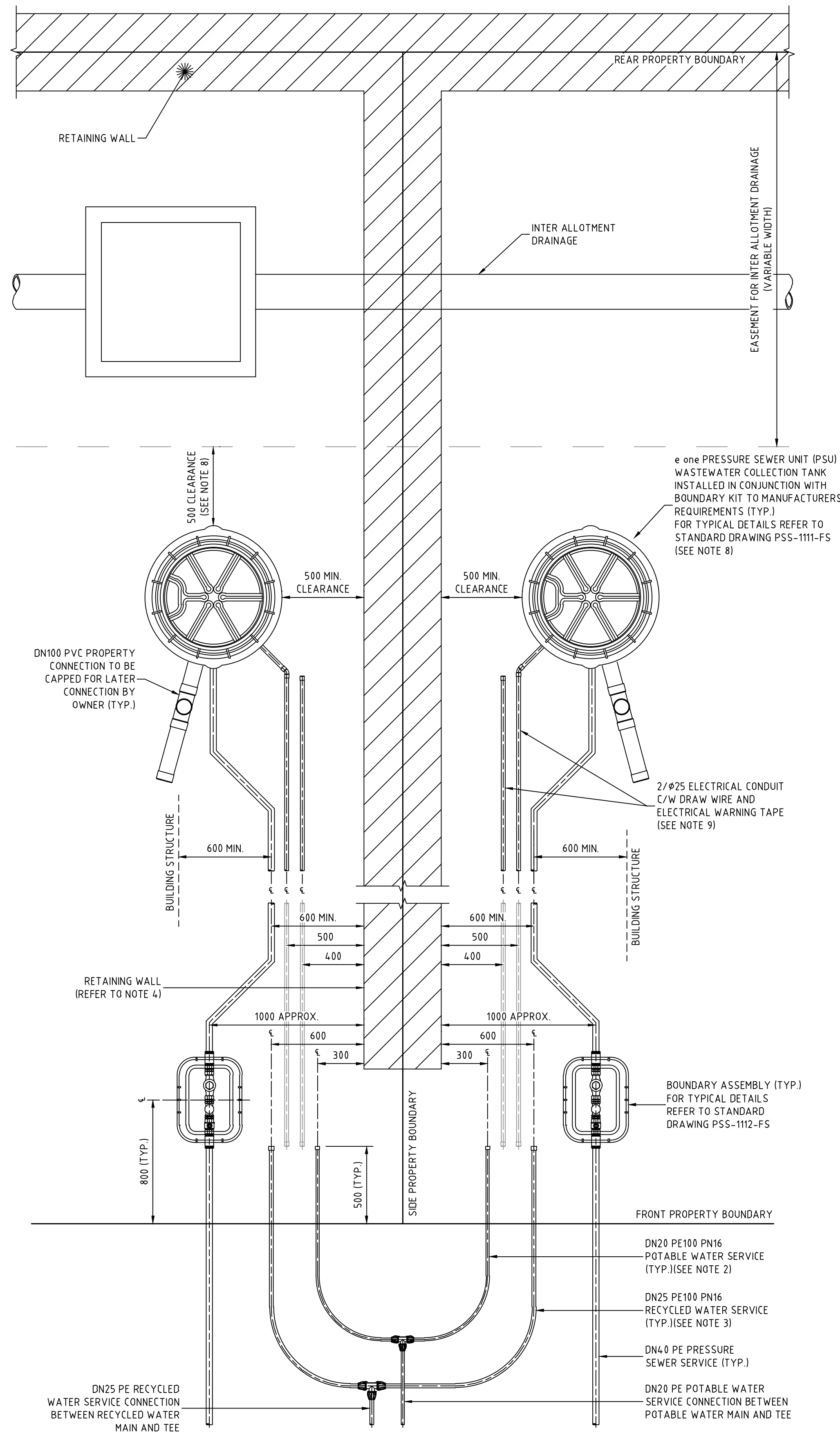
Point Table				
Point #	Eastings	Northings	Levels	Codes
1	346438.98	6382825.35	69.30	waHYD
2	346453.76	6382811.69	69.01	waHYD
3	346538.94	6382811.49	62.86	waHYD
4	346612.70	6382806.05	57.83	waHYD
5	346619.17	6382747.82	59.41	waHYD
6	346607.69	6382711.15	60.15	waHYD
7	346593.81	6382703.16	60.10	waHYD
8	346581.86	6382645.56	60.84	waHYD
9	346519.45	6382718.34	64.89	waHYD
10	346430.63	6382722.62	71.36	waHYD
11	346407.66	6382677.62	72.14	waHYD
12	346413.74	6382703.39	72.12	waHYD
13	346425.64	6382751.34	71.10	waHYD
14	346439.52	6382825.57	69.32	waHYDR
15	346453.70	6382812.23	69.03	waHYDR
16	346538.96	6382812.06	62.90	waHYDR
17	346612.84	6382806.64	57.82	waHYDR
18	346623.06	6382828.09	57.66	waHYDR
19	346612.57	6382723.76	59.97	waHYDR
20	346607.29	6382711.32	60.18	waHYDR
21	346593.96	6382703.62	60.12	waHYDR
22	346581.44	6382645.75	60.86	waHYDR
23	346519.49	6382718.91	64.91	waHYDR
24	346430.69	6382723.20	71.38	waHYDR
25	346408.21	6382677.53	72.15	waHYDR
26	346414.22	6382703.31	72.16	waHYDR
27	346426.13	6382751.22	71.10	waHYDR
28	346438.20	6382839.66	69.60	seBDYKIT
29	346438.59	6382837.99	69.58	seBDYKIT
30	346494.47	6382821.27	65.71	seBDYKIT
31	346508.82	6382821.31	64.76	seBDYKIT
32	346522.65	6382820.43	63.80	seBDYKIT
33	346537.70	6382819.13	62.70	seBDYKIT
34	346551.64	6382818.23	61.82	seBDYKIT
35	346566.31	6382815.40	61.05	seBDYKIT
36	346581.06	6382814.44	59.95	seBDYKIT
37	346617.46	6382825.01	57.95	seBDYKIT
38	346617.27	6382828.63	57.92	seBDYKIT
39	346614.95	6382764.16	59.37	seBDYKIT
40	346615.45	6382767.57	59.28	seBDYKIT
41	346612.79	6382745.71	59.77	seBDYKIT
42	346607.18	6382724.66	60.30	seBDYKIT
43	346587.36	6382676.53	60.85	seBDYKIT
44	346582.03	6382664.01	60.98	seBDYKIT
45	346580.88	6382660.69	61.01	seBDYKIT
46	346570.36	6382715.76	61.31	seBDYKIT
47	346518.04	6382723.06	65.08	seBDYKIT
48	346531.00	6382722.11	64.11	seBDYKIT
49	346544.07	6382721.08	63.16	seBDYKIT
50	346557.05	6382719.94	62.29	seBDYKIT
51	346552.37	6382700.89	62.45	seBDYKIT
52	346526.75	6382703.17	64.43	seBDYKIT
53	346508.40	6382704.47	65.81	seBDYKIT
54	346504.52	6382725.47	65.70	seBDYKIT
55	346490.38	6382724.80	66.72	seBDYKIT
56	346489.22	6382704.32	67.40	seBDYKIT
57	346469.02	6382703.07	68.86	seBDYKIT
58	346475.73	6382723.90	67.72	seBDYKIT
59	346416.36	6382693.51	72.37	seBDYKIT

Point Table				
Point #	Eastings	Northings	Levels	Codes
60	346412.75	6382678.97	72.34	seBDYKIT
61	346428.41	6382744.11	71.34	seBDYKIT
62	346436.82	6382760.16	70.34	seBDYKIT
63	346470.67	6382787.65	68.46	seBDYKIT
64	346489.71	6382788.56	66.46	seBDYKIT
65	346511.23	6382788.67	64.97	seBDYKIT
66	346528.23	6382787.45	63.88	seBDYKIT
67	346545.07	6382786.16	62.72	seBDYKIT
68	346562.12	6382784.78	61.64	seBDYKIT
69	346581.15	6382783.36	60.28	seBDYKIT
70	346432.75	6382857.51	69.76	seFP
71	346440.75	6382827.42	69.38	seFP
72	346621.35	6382827.10	57.71	seFP
73	346620.04	6382841.72	57.48	seFP
74	346611.59	6382726.37	59.95	seFP
75	346579.76	6382646.31	60.96	seFP
76	346409.87	6382676.67	72.20	seFP
77	346416.81	6382706.00	72.12	seFP
78	346427.58	6382749.84	71.17	seFP
79	346432.87	6382856.73	69.73	seLV
80	346441.08	6382826.73	69.37	seLV
81	346453.51	6382814.76	69.04	seLV
82	346616.32	6382809.02	57.93	seLV
83	346621.48	6382828.49	57.69	seLV
84	346612.34	6382728.38	59.98	seLV
85	346595.21	6382704.24	60.13	seLV
86	346581.35	6382649.90	60.88	seLV
87	346431.39	6382724.14	71.42	seLV
88	346410.00	6382677.42	72.22	seLV
89	346410.21	6382678.40	72.23	seLV
90	346416.68	6382705.38	72.14	seLV
91	346427.36	6382749.03	71.20	seLV
92	346427.94	6382750.79	71.16	seLV
93	346474.48	6382841.96	68.12	seTANK2101
94	346474.52	6382839.98	68.11	seTANK2102
95	346495.28	6382821.31	65.81	seTANK2103
96	346509.58	6382821.29	64.88	seTANK2104
97	346523.47	6382820.32	63.94	seTANK2105
98	346538.50	6382819.06	62.80	seTANK2106
100	346552.47	6382818.15	61.94	seTANK2107
101	346568.49	6382844.14	60.31	seTANK2108
102	346583.14	6382842.75	59.22	seTANK2109
103	346617.45	6382825.83	58.05	seTANK2111
104	346617.29	6382827.84	58.04	seTANK2110
105	346615.03	6382764.92	59.46	seTANK2113
106	346615.30	6382766.83	59.39	seTANK2112
107	346612.87	6382746.50	59.87	seTANK2131
108	346607.22	6382725.42	60.39	seTANK2132
109	346586.98	6382675.86	60.95	seTANK2133
110	346581.74	6382663.29	61.10	seTANK2134
111	346581.06	6382661.46	61.12	seTANK2135
112	346578.81	6382749.24	60.97	seTANK2130
113	346559.34	6382750.67	61.92	seTANK2129
114	346546.30	6382751.61	62.81	seTANK2128
115	346533.38	6382752.73	63.47	seTANK2127
116	346520.42	6382753.61	64.35	seTANK2126
117	346553.04	6382700.74	62.56	seTANK2136
118	346527.48	6382702.97	64.54	seTANK2137
119	346509.06	6382704.31	65.92	seTANK2138
120	346505.24	6382725.42	65.80	seTANK2125

Point Table				
Point #	Eastings	Northings	Levels	Codes
121	346491.10	6382724.81	66.84	seTANK2124
122	346490.02	6382704.31	67.51	seTANK2139
123	346469.81	6382702.98	68.98	seTANK2140
124	346476.56	6382724.02	67.82	seTANK2123
125	346459.90	6382736.37	69.92	seTANK2122
126	346447.38	6382686.03	71.68	seTANK2141
127	346442.52	6382671.74	71.34	seTANK2142
128	346437.13	6382760.98	70.45	seTANK2121
129	346471.44	6382787.64	68.58	seTANK2120
130	346490.50	6382788.51	66.56	seTANK2119
131	346512.11	6382788.64	65.07	seTANK2118
132	346529.01	6382787.42	63.99	seTANK2117
133	346545.94	6382786.16	62.83	seTANK2116
134	346562.96	6382784.68	61.75	seTANK2115
135	346581.90	6382783.31	60.40	seTANK2114
136	346430.70	6382857.49	69.63	waSV
137	346452.37	6382811.61	69.06	waSV
138	346614.90	6382806.01	57.85	waSV
139	346622.27	6382843.47	57.41	waSV
140	346606.97	6382709.46	60.20	waSV
141	346594.89	6382702.87	60.12	waSV
142	346583.09	6382648.91	60.82	waSV
143	346428.47	6382723.10	71.43	waSV
144	346407.89	6382678.92	72.19	waSV
145	346425.19	6382749.64	71.14	waSV
146	346431.18	6382858.23	69.68	waSVR
147	346451.89	6382812.17	69.09	waSVR
148	346615.72	6382806.52	57.86	waSVR
149	346621.62	6382842.70	57.45	waSVR
150	346606.88	6382710.50	60.16	waSVR
151	346595.64	6382703.21	60.10	waSVR
152	346583.04	6382649.99	60.80	waSVR
153	346429.35	6382723.50	71.41	waSVR
154	346408.28	6382678.29	72.18	waSVR
155	346425.85	6382750.28	71.14	waSVR
156	346437.90	6382839.14	69.52	waTAP
157	346438.05	6382838.54	69.52	waTAP
158	346496.18	6382819.48	65.95	waTAP
159	346510.17	6382819.54	65.10	waTAP
160	346523.98	6382818.52	63.96	waTAP
161	346539.05	6382817.33	62.94	waTAP
162	346552.92	6382816.22	61.90	waTAP
163	346567.00	6382815.22	60.93	waTAP
164	346581.60	6382814.08	59.79	waTAP
165	346619.36	6382826.26	57.83	waTAP
166	346619.33	6382826.85	57.72	waTAP
167	346616.94	6382766.01	59.07	waTAP
168	346616.84	6382765.45	59.07	waTAP
169	346614.83	6382746.99	59.46	waTAP
170	346609.05	6382725.61	59.99	waTAP
171	346588.15	6382674.66	60.65	waTAP
172	346570.91	6382715.29	61.21	waTAP
173	346518.74	6382722.67	65.02	waTAP
174	346531.71	6382721.72	64.00	waTAP
175	346544.65	6382720.63	63.10	waTAP
176	346557.61	6382719.63	62.28	waTAP
177	346553.96	6382702.38	62.21	waTAP
178	346528.13	6382704.66	64.22	waTAP
179	346509.86	6382705.98	65.60	waTAP
180	346505.79	6382723.68	65.97	waTAP

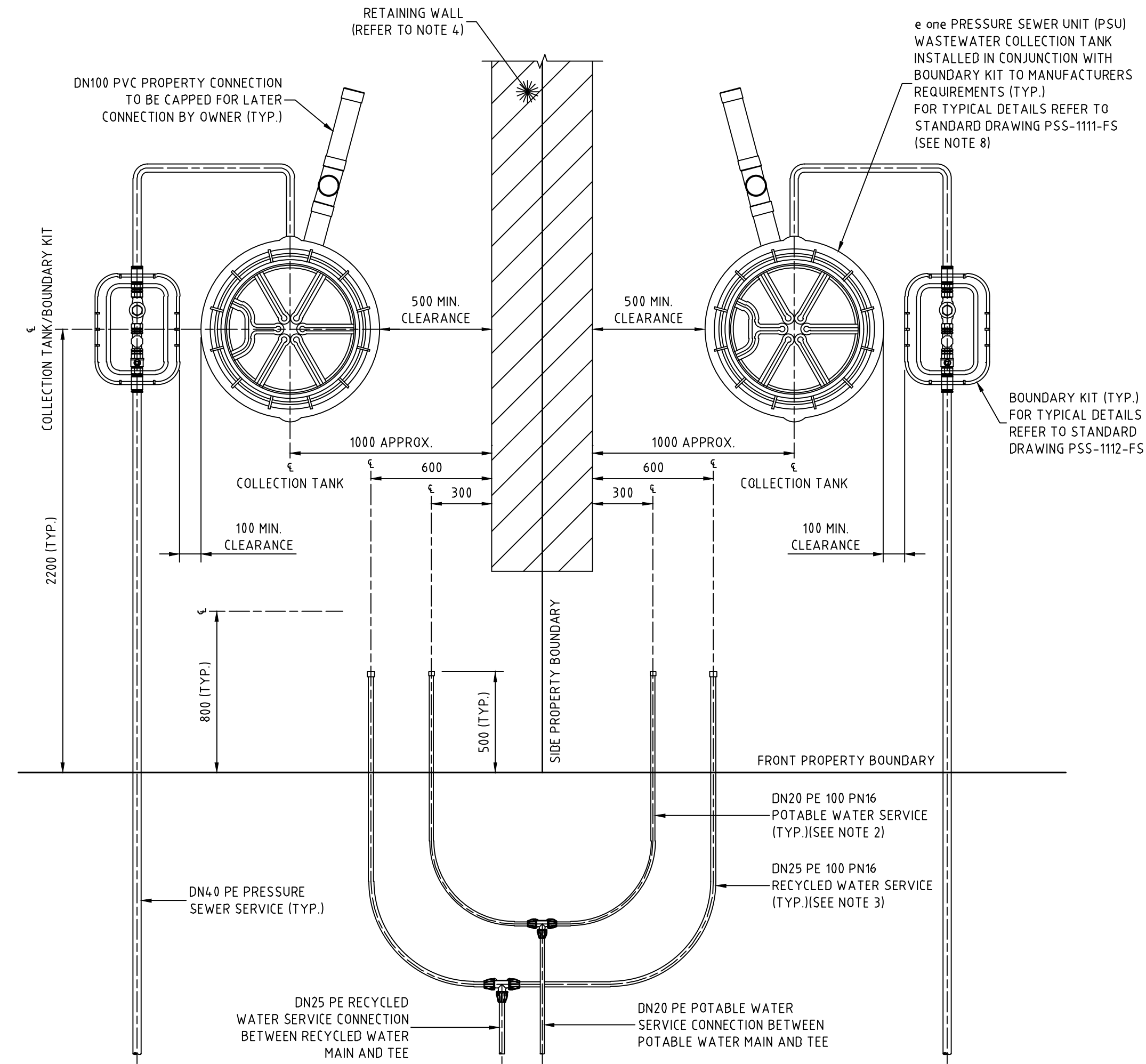
Point Table				
Point #	Eastings	Northings	Levels	Codes
181	346491.64	6382723.30	66.97	waTAP
182	346490.91	6382705.97	67.16	waTAP
183	346470.76	6382704.56	68.59	waTAP
184	346477.20	6382722.40	68.03	waTAP
185	346415.92	6382693.00	72.32	waTAP
186	346412.30	6382678.45	72.18	waTAP
187	346428.36	6382744.68	71.25	waTAP
188	346435.25	6382762.08	70.67	waTAP
189	346472.04	6382789.26	68.10	waTAP
190	346491.53	6382790.34	66.42	waTAP
191	346512.86	6382790.33	64.82	waTAP
192	346529.89	6382789.06	63.52	waTAP
193	346546.92	6382787.71	62.36	waTAP
194	346563.61	6382786.36	61.11	waTAP
195	346582.54	6382784.80	59.69	waTAP
196	346583.21	6382662.04	60.83	waTAP
197	346582.96	6382661.56	60.86	waTAP
198	346437.86	6382839.42	69.51	waTAPR
199	346438.15	6382838.26	69.50	waTAPR





TYPICAL PROPERTY CONNECTION DETAIL
(PRESSURE SEWER UNIT AT REAR)

SCALE 1:20



TYPICAL PROPERTY CONNECTION DETAIL

SCALE 1:20

NOTES:

- PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION) (SUPPLEMENT TO WSA 03-2011).
- DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE TO BE OFFSET FROM THE PROPERTY BOUNDARY.
- WHERE SERVICE CONNECTIONS ARE LOCATED ADJACENT TO TELSTRA PITS/ELECTRICAL PILLARS, A MINIMUM CLEARANCE OF 200mm BETWEEN PITS AND SERVICE PIPEWORK IS TO BE MAINTAINED.
- MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
- ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
- PRESSURE SEWER UNIT (PSU) IS TO HAVE 500mm CLEARANCE FROM INTER ALLOTMENT DRAINAGE EASEMENT (IF PRESENT), REAR PROPERTY BOUNDARY RETAINING WALL (IF PRESENT) OR REAR PROPERTY BOUNDARY. PRESSURE SEWER UNIT (PSU) IS TO HAVE 2150mm CLEARANCE FROM BUILDING STRUCTURES.
- Ø25 ELECTRICAL CONDUIT IS TO EXTEND FROM CONNECTION WITH PRESSURE SEWER UNIT (PSU) TO NOM. 500mm INSIDE FRONT PROPERTY BOUNDARY AND BE CAPPED. ELECTRICAL CONDUIT IS TO BE HEAVY DUTY ORANGE. 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.

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 02/06/2021 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY: ADW Johnson Pty Ltd
NAME: MATHEW DAVID LONDON
SIGNED: [Signature] DATE: 07/06/2021
REGISTERED SURVEYOR

COMPANY: [Blank]
NAME: [Blank]
SIGNED: [Blank] DATE: [Blank]
CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM: 20029
E: 345 612 914
N: 6 382 878 917
RL: 77.675m

Co-Ord System: MGA Ground
MGA Datum: GDA94
MGA Zone: 56

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd

Date Approved: 07/06/2021

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	02.10.2020	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3
B	15.10.2020	CLIENT COMMENTS	T.S.	J.N.	T.S.	C.B.	1:10 / 1:20
C	26.11.2020	FLOW SYSTEMS COMMENTS	T.S.	J.N.	T.S.	C.B.	0 0.4 0.8 A1 / A3
D	04.12.2020	FLOW SYSTEMS COMMENTS	T.S.	J.N.	T.S.	C.B.	1:20 / 1:40
E	04.12.2020	CONSTRUCTION ISSUE	T.S.	J.N.	T.S.	C.B.	
2	07.06.2021	CHECK UPDATED CONTOURS WORK AS CONSTRUCTED	I.B.	T.S.	T.S.	C.B.	

DESIGN FILE: N:\

Plotted By: iainb

Plot Date: 10/06/21 - 09:44

Cad File: \\pserver10\adw-data\240072\DWG\Water & Sewer\Stage21-WAC\240037(21)-WAC-019.dwg

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE



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



CLIENT

PROPERTY DESCRIPTION
PROPOSED SUBDIVISION
STAGE 21
FERRY PARADE, HUNTEE

SURVEYED
ADW Johnson

DATUM
A.H.D.

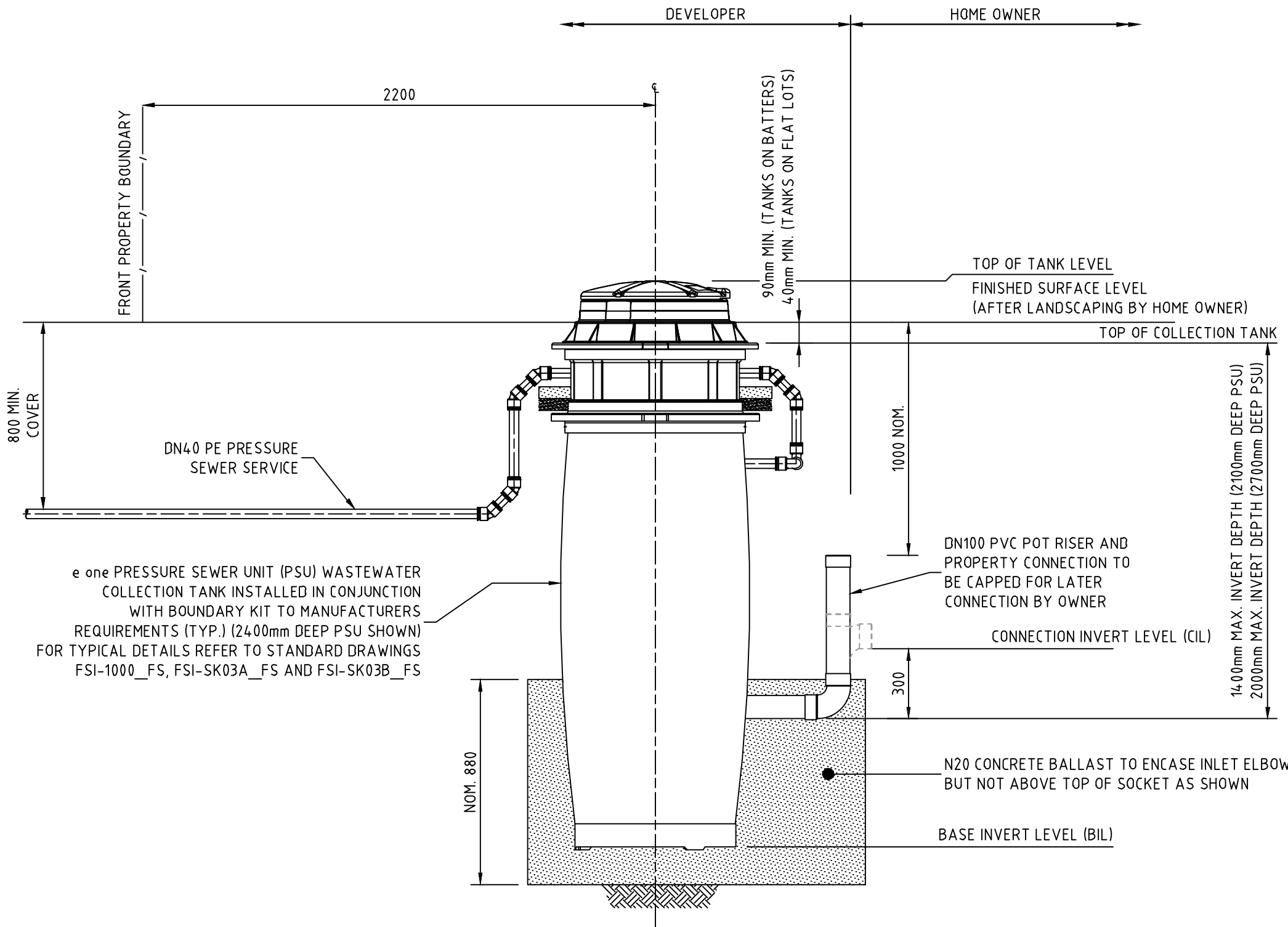
PROJECT
POTABLE WATER, RECYCLED WATER AND
PRESSURE SEWER RETICULATION

PLAN TITLE
TYPICAL SERVICE
CONNECTION DETAILS

PROJECT No. 240037(21) DISCIPLINE - WAC - NUMBER 020 REV. 2



WASTEWATER COLLECTION TANK DETAILS									TOP OF COLLECTION TANK LID	CALCULATED WAC SANITARY DRAINAGE INVERT LEVEL	WAC V'S DESIGN INVERT LEVEL COMPARISON
LOT NUMBER	TANK FSL	BASE IL	CONNECTION IL	TANK HEIGHT	TANK CAPACITY	TANK LOCATION	EASTING	NORTHING			
2101	67.98	65.85	66.75	2100	650 L	REAR	346475.419	638284.1870	68.115	66.80	0.05
2102	67.97	65.84	66.74	2100	650 L	REAR	346476.883	6382820.136	68.113	66.80	0.06
2103	65.73	63.00	63.90	2700	800 L	FRONT	346495.288	6382821.208	65.813	63.90	0.00
2104	64.80	62.07	62.97	2700	800 L	FRONT	346509.549	6382821.291	64.882	62.97	0.00
2105	63.79	61.06	61.96	2700	800 L	FRONT	346523.507	6382820.211	63.939	62.02	0.06
2106	62.66	59.93	60.83	2700	800 L	FRONT	346538.463	6382819.053	62.804	60.89	0.06
2107	61.81	59.08	59.98	2700	800 L	FRONT	346552.421	6382817.973	61.937	60.02	0.04
2108	60.22	58.09	58.99	2100	650 L	REAR	346568.509	6382844.411	60.307	58.99	0.00
2109	59.27	57.14	58.04	2100	650 L	REAR	346583.349	6382844.275	59.224	57.91	-0.13
2110	57.91	55.78	56.68	2100	650 L	FRONT	346617.620	6382827.770	58.040	56.73	0.05
2111	57.95	55.82	56.72	2100	650 L	FRONT	346617.449	6382825.777	58.050	56.74	0.02
2112	59.21	56.48	57.38	2700	800 L	FRONT	346615.338	6382766.766	59.388	57.47	0.09
2113	59.29	57.16	58.06	2100	650 L	FRONT	346615.166	6382764.773	59.462	58.15	0.09
2114	60.27	58.14	59.04	2100	650 L	FRONT	346581.867	6382783.198	60.405	59.09	0.05
2115	61.57	59.44	60.34	2100	650 L	FRONT	346582.924	6382784.664	61.753	60.44	0.10
2116	62.67	60.54	61.44	2100	650 L	FRONT	346545.974	6382785.975	62.829	61.51	0.07
2117	63.86	61.13	62.03	2700	800 L	FRONT	346579.025	6382787.287	63.994	62.08	0.05
2118	64.91	62.78	63.68	2100	650 L	FRONT	346512.076	6382788.599	65.069	63.75	0.07
2119	66.41	64.28	65.18	2100	650 L	FRONT	346490.526	6382788.476	66.562	65.25	0.07
2120	68.42	66.29	67.19	2100	650 L	FRONT	346471.458	6382787.364	68.575	67.26	0.07
2121	70.32	67.59	68.49	2700	800 L	FRONT	346436.936	6382760.701	70.446	68.53	0.04
2122	69.76	67.63	68.53	2100	650 L	REAR	346459.941	6382736.292	69.915	68.60	0.07
2123	67.70	64.97	65.87	2700	800 L	FRONT	346476.601	6382723.941	67.822	65.91	0.04
2124	66.68	63.95	64.85	2700	800 L	FRONT	346491.157	6382724.782	66.844	64.93	0.08
2125	65.67	62.94	63.84	2700	800 L	FRONT	346505.209	6382725.340	65.804	63.89	0.05
2126	64.13	62.00	62.90	2100	650 L	REAR	346520.437	6382753.549	64.351	63.04	0.14
2127	63.27	61.14	62.04	2100	650 L	REAR	346533.392	6382752.546	63.473	62.16	0.12
2128	62.59	60.46	61.36	2100	650 L	REAR	346546.353	6382751.541	62.809	61.49	0.13
2129	61.77	59.64	60.54	2100	650 L	REAR	346559.315	6382750.540	61.921	60.61	0.07
2130	60.84	58.71	59.61	2100	650 L	REAR	346578.586	6382749.050	60.966	59.65	0.04
2131	59.71	57.58	58.48	2100	650 L	FRONT	346612.922	6382746.392	59.871	58.56	0.08
2132	60.23	58.10	59.00	2100	650 L	FRONT	346607.273	6382725.272	60.390	59.08	0.08
2133	60.80	58.67	59.57	2100	650 L	FRONT	346586.888	6382675.732	60.949	59.63	0.06
2134	60.95	58.82	59.72	2100	650 L	FRONT	346581.819	6382663.201	61.099	59.78	0.06
2135	60.97	58.84	59.74	2100	650 L	FRONT	346581.156	6382661.314	61.115	59.80	0.06
2136	62.39	60.26	61.16	2100	650 L	FRONT	346553.036	6382700.977	62.562	61.25	0.09
2137	64.41	62.28	63.18	2100	650 L	FRONT	346527.485	6382702.954	64.543	63.23	0.05
2138	65.79	63.66	64.56	2100	650 L	FRONT	346509.041	6382704.382	65.919	64.60	0.04
2139	67.32	65.19	66.09	2100	650 L	FRONT	346489.960	6382704.079	67.508	66.19	0.10
2140	68.83	66.70	67.60	2100	650 L	FRONT	346469.814	6382702.914	68.978	67.66	0.06
2141	71.50	69.37	70.27	2100	650 L	REAR	346447.387	6382685.963	71.676	70.36	0.09
2142	71.19	69.06	69.96	2100	650 L	REAR	346442.872	6382671.623	71.339	70.02	0.06



PRESSURE SEWER SERVICE CONNECTION
TYPICAL SECTIONAL ELEVATION
SCALE 1:20

WORK AS CONSTRUCTED
THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 02/06/2021 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	MATHEW DAVID LONDON	NAME	
SIGNED	<i>Matthew London</i>	DATE	07/06/2021
	REGISTERED SURVEYOR	SIGNED	
		DATE	07/06/2021
			CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
PM 20029
E: 345 612 914 Co-Ord System: MGA Ground
N: 6 382 878 917 MGA Datum: GDA94
RL: 77.675m MGA Zone: 56

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 07/06/2021

CONSTRUCTION ISSUE

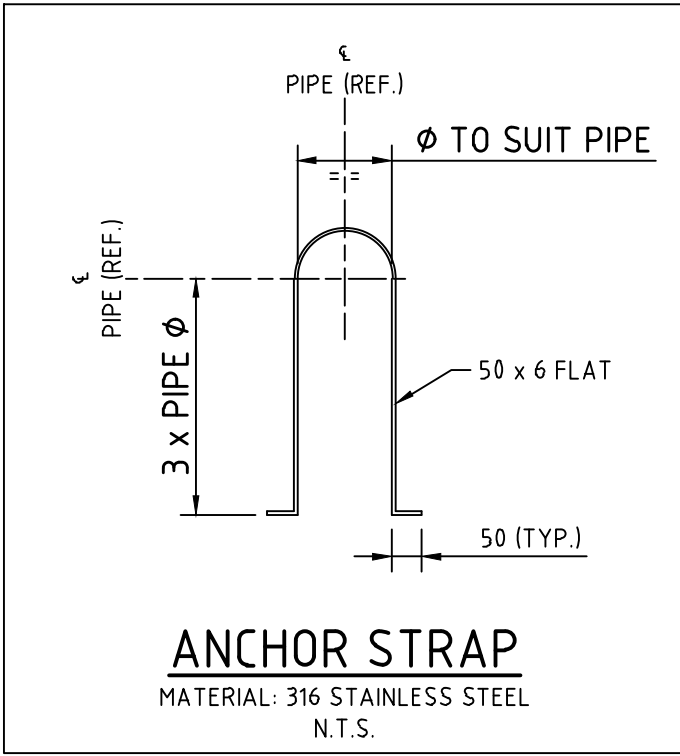
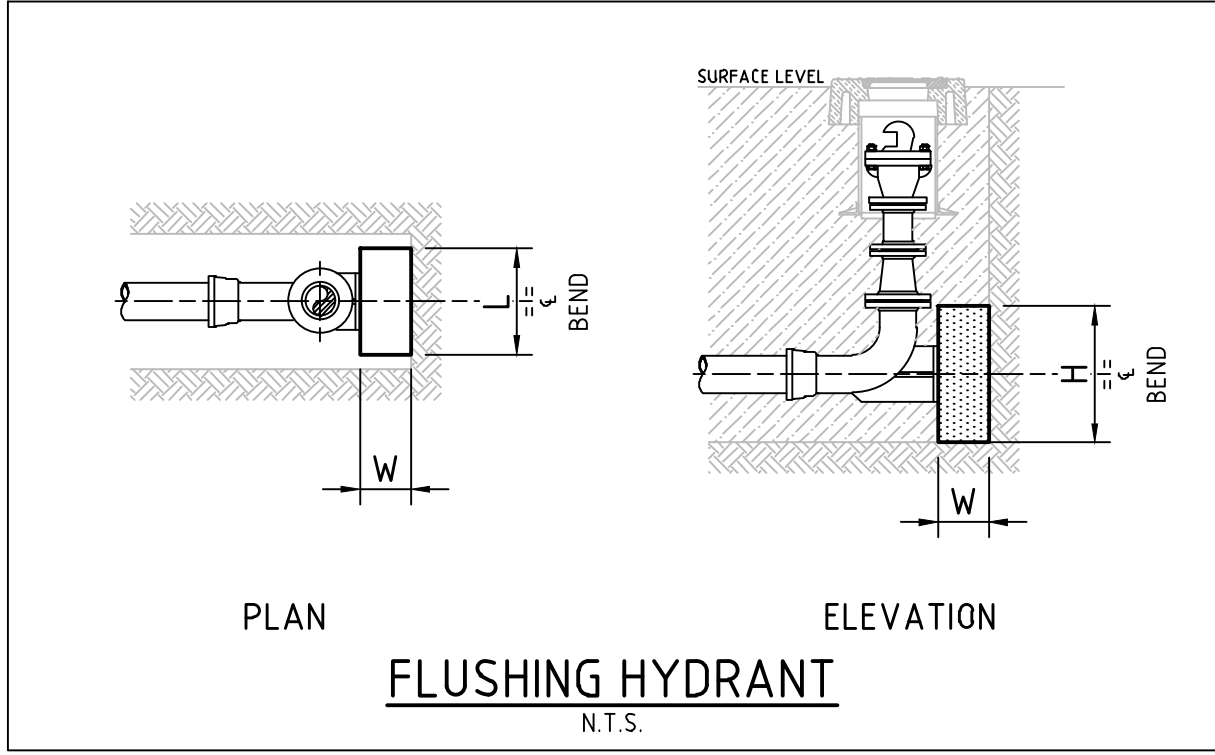
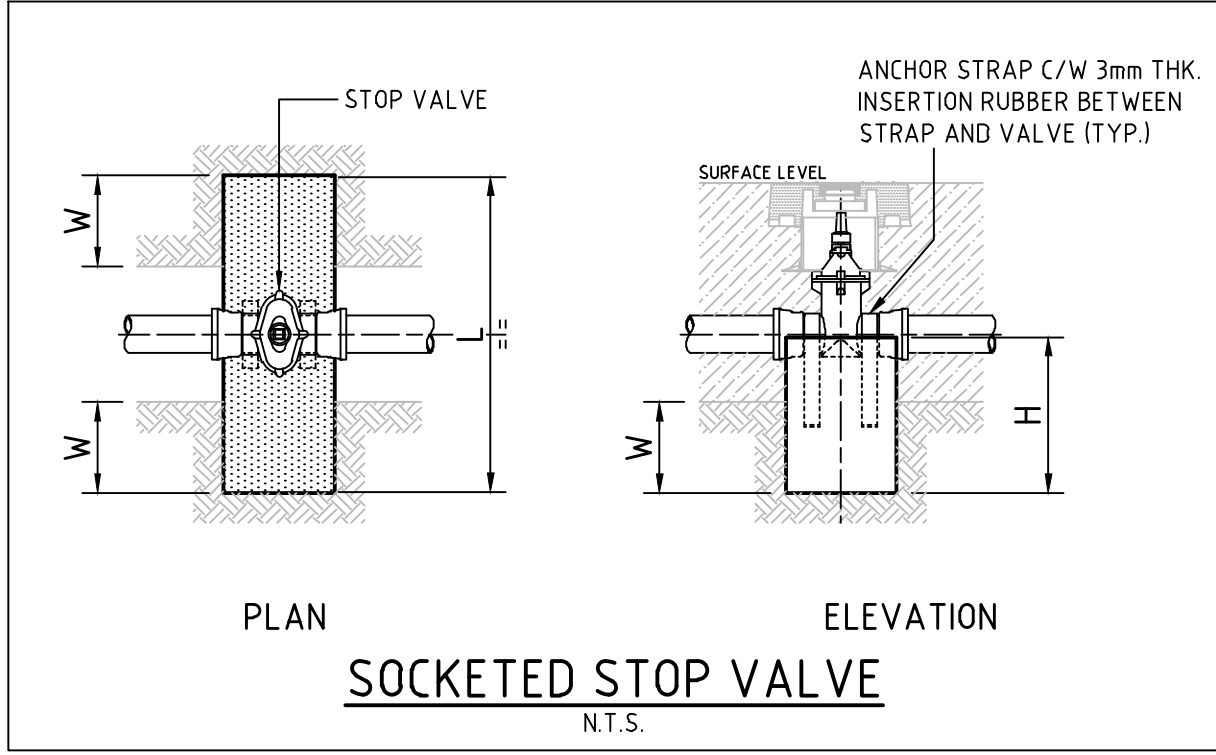
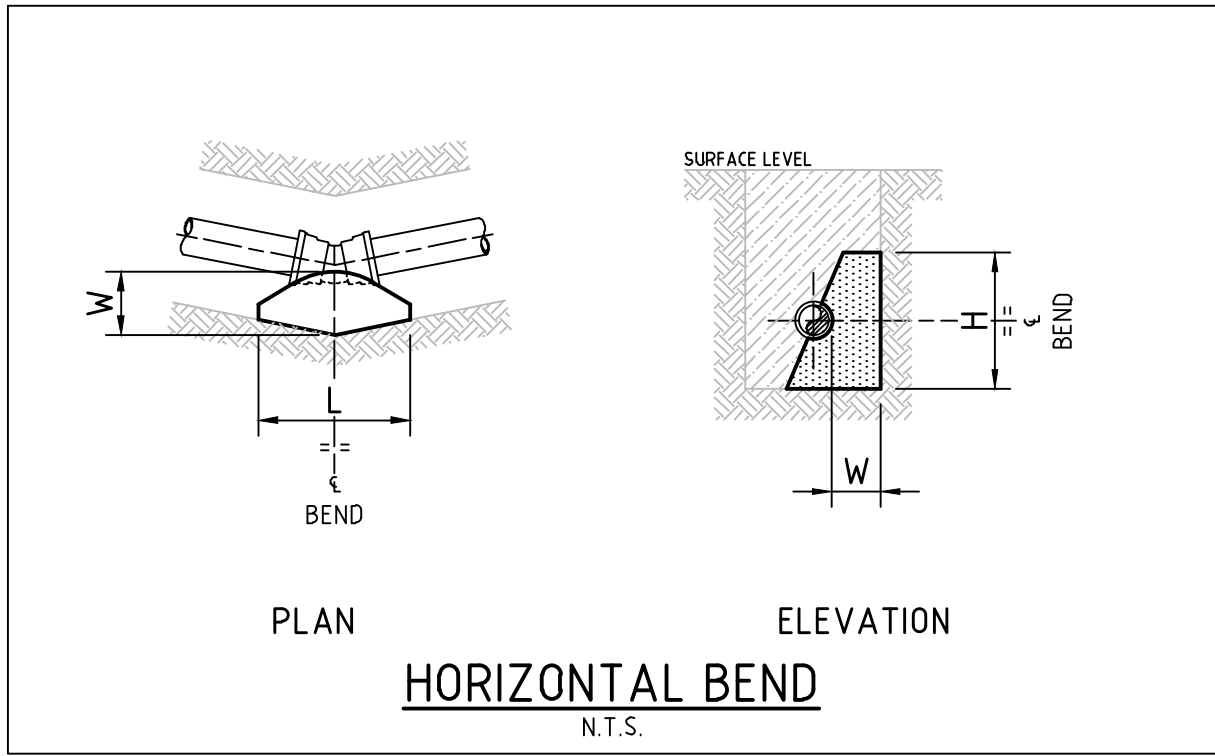
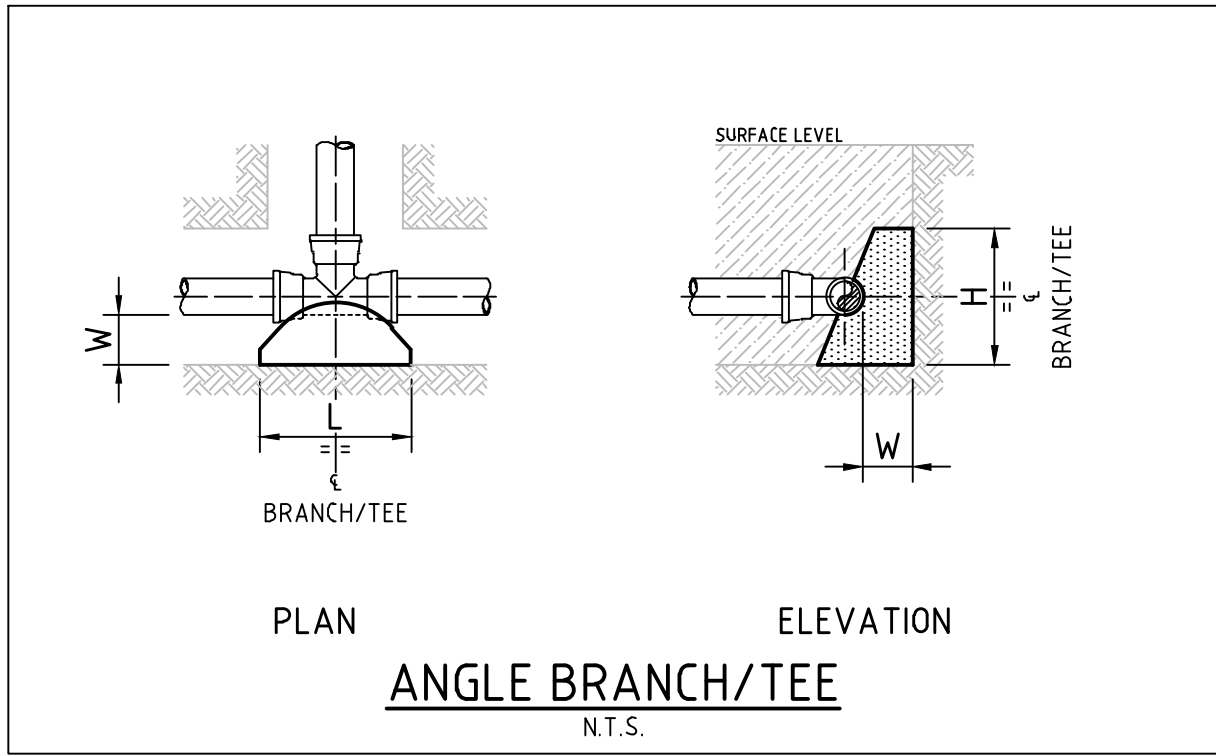
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		CLIENT	PROPERTY DESCRIPTION	PROJECT						
A	02.10.2020	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	C.B.			Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	 PROPOSED SUBDIVISION STAGE 21 FERRY PARADE, HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION						
B	15.10.2020	CLIENT COMMENTS	T.S.	J.N.	T.S.	C.B.					WASTE WATER COLLECTION TANK LEVEL DETAILS						
C	26.11.2020	FLOW SYSTEMS COMMENTS	T.S.	J.N.	T.S.	C.B.											
D	04.12.2020	FLOW SYSTEMS COMMENTS	T.S.	J.N.	T.S.	C.B.											
E	04.12.2020	CONSTRUCTION ISSUE	T.S.	J.N.	T.S.	C.B.											
1	27.01.2021	CHECK UPDATED CONTOURS	G.S.	T.S.	T.S.	C.B.											
2	07.06.2021	WORK AS CONSTRUCTED	I.B.	T.S.	T.S.	C.B.											
DESIGN FILE: N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE			<table><tr><td>SURVEYED ADW Johnson</td><td>DATUM A.H.D.</td></tr></table>	SURVEYED ADW Johnson	DATUM A.H.D.	<table><tr><td>PROJECT No. 240037(21)</td><td>DISCIPLINE - WAC -</td><td>NUMBER 021</td><td>REV. 2</td></tr></table>	PROJECT No. 240037(21)	DISCIPLINE - WAC -	NUMBER 021	REV. 2
SURVEYED ADW Johnson	DATUM A.H.D.																
PROJECT No. 240037(21)	DISCIPLINE - WAC -	NUMBER 021	REV. 2														



THRUST BLOCK NOTES:

- 1. "N" DENOTES NOMINAL THRUST AREA TO BE ACHIEVED BY POURING CONCRETE THE FULL LENGTH OF THE FITTING AND EXTENDING FROM THE FLOOR OF THE TRENCH TO NOM. 100mm ABOVE THE FITTING.
- 2. CONCRETE THRUST BLOCKS ARE TO BE PROVIDED FOR ALL FITTINGS IN ACCORDANCE WITH TABLE.
- 3. THRUST BLOCK DIMENSIONS ARE BASED ON THE MINIMUM ALLOWABLE HORIZONTAL BEARING PRESSURES OF THE SOIL AS SHOWN. IF GROUND CONDITIONS ENCOUNTERED INDICATE THAT THESE BEARING PRESSURES MAY NOT BE ACHIEVED, THRUST BLOCK DESIGN IS TO BE REVISED.
- 4. THRUST BLOCKS ARE TO BE CONSTRUCTED SUCH THAT THEY TRANSFER THE THRUST ONTO UNDISTURBED GROUND. THRUST BLOCKS ARE NOT TO INTERFERE WITH OTHER SERVICES.
- 5. FINISH THRUST BLOCKS APPROXIMATELY 100mm ABOVE THE TOP OF THE FITTING OR BEARING PAD AND EXTEND TO THE FLOOR OF THE TRENCH OR DEEPER IF NECESSARY TO ACHIEVE THE REQUIRED THRUST AREA. MAXIMUM ENCASEMENT TO BE 180°.
- 6. CONCRETE FOR THE THRUST BLOCKS TO BE GRADE S25 USING CEMENT TYPE "SR" TO AS3972. CONCRETE TO BE MECHANICALLY VIBRATED.
- 7. CONCRETE THRUST BLOCKS ARE TO BE CURED FOR A MINIMUM OF 7 DAYS BEFORE BEING SUBJECTED TO ANY THRUST LOAD.
- 8. REFER TO WAT-1205-V FOR GENERAL FITTING THRUST BLOCK ARRANGEMENTS.
- 9. REFER TO WAT-1207-V FOR GENERAL VALVE AND VERTICAL BEND THRUST BLOCK ARRANGEMENTS.
- 10. THRUST BLOCK TO EXTEND 300mm MINIMUM INTO BASE AND SIDE WALLS OF TRENCH.
- 11. PROVIDE 3mm THK. INSERTION RUBBER BETWEEN ANCHOR STRAP AND PIPE BARREL.

TYPE	FITTING	SOIL AHP (kPa)	DESIGN STP (kPa)	THRUST	TA (m ²)	LENGTH (L)	HEIGHT (H)	WIDTH (W)
1	DN150 x DN100 REDUCING TEE	100	1000	12.00	0.12	0.40	0.30	0.30
2	DN150 SOCKETED STOP VALVE	100	1000	25.00	0.25	1.05	0.46	0.30
3	DN150 FLUSHING HYDRANT	100	1000	25.00	0.25	0.50	0.50	0.30
4	DN100 x DN100 EQUAL TEE	100	1000	12.00	0.12	0.40	0.30	0.30
5	DN100 x 22.5° HORIZONTAL BEND	100	1000	5.00	0.05	N	N	0.30
6	DN100 x 11.25° HORIZONTAL BEND	100	1000	5.00	0.05	N	N	0.30
7	DN100 SOCKETED STOP VALVE	100	1000	12.00	0.12	1.05	0.44	0.30
8	DN100 FLUSHING HYDRANT	100	1000	12.00	0.12	0.40	0.30	0.30



WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 02/06/2021 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY ADWJohnson Pty Ltd

NAME MATHEW DAVID LONDON

SIGNED DATE 07/06/2021

REGISTERED SURVEYOR

COMPANY

NAME

SIGNED DATE

CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM 20029

E: 345 612 914

N: 6 382 878 917

RL: 77.675m

Co-Ord System: MGA Ground

MGA Datum: GDA94

MGA Zone: 56

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved:07/06/2021

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <div>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</div>	CLIENT	PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
A	02.10.2020	PRELIMINARY ISSUE	T.S.	J.N.	T.S.	C.B.	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE			PROPOSED SUBDIVISION STAGE 21 FERRY PARADE, HUNTLEE	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 240037(21)	DISCIPLINE - WAC -	NUMBER 022	REV. 2
B	15.10.2020	CLIENT COMMENTS	T.S.	J.N.	T.S.	C.B.										
C	26.11.2020	FLOW SYSTEMS COMMENTS	T.S.	J.N.	T.S.	C.B.										
D	04.12.2020	FLOW SYSTEMS COMMENTS	T.S.	J.N.	T.S.	C.B.										
E	04.12.2020	CONSTRUCTION ISSUE	T.S.	J.N.	T.S.	C.B.										
F	27.01.2021	CHECK UPDATED CONTOURS	G.S.	T.S.	T.S.	C.B.										
G	07.06.2021	WORK AS CONSTRUCTED	I.B.	T.S.	T.S.	C.B.										
DESIGN FILE N:\																